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August 5, 2016 Project No: 1CM002.045

Minto Explorations Ltd. #13 Calcite Business Centre- 151 Industrial Road Whitehorse, Yukon Y1A 2V3

Attention: Ryan Herbert, Environmental Specialist

Dear Ryan:

RE: Minto Mine Closure Cost Estimates - RCP Revision 2016-01

This document presents the estimates for reclamation and closure liability based on the Minto Mine Reclamation Closure Plan, revision 2016-01. The estimates have been prepared in accordance with the costing guidance from YG EMR in the document Reclamation and Closure Planning for Quartz Mining Projects: Plan Requirements and Closure Costing Guidance (YG, 2013).

The following sections describe the basis of the estimate and the major costing assumptions. A cost summary is presented in Section 7 with the complete costing details provided in Attachment 1.

1 Scope of Estimate

YG (2013) guidance document requires liability estimates for three separate conditions:

- 1. Current status (i.e. Year 0);
- 2. Peak Liability within the two-year period for this the RCP approval will apply ; and,
- 3. End-of-mine (EOM) Life.

For the Minto Mine, the peak liability is the same as the Year 0 liability estimate and as a result, two estimates are presented. The Year 0 liability estimate assumes that mining at Minto North is complete, and that mining of the Area 2 Stage 3 Pit has yet to begin. This point of time is the peak liability as the closure cost is expected to be reduced as overburden stripped from the Area 2 Stage 3 Pit will be placed as covers over completed waste dump facilities. The end-of-mine life closure liability occurs following completion of mining in the Area 2 Stage 3 Pit in 2018.

U.S. Office	es:	Canadian	Offices:	Group Offices:
Anchorage	907.677.3520	Saskatoon	306.955.4778	Africa
Denver	303.985.1333	Sudbury	705.682.3270	Asia
Elko	775.753.4151	Toronto	416.601.1445	Australia
Fort Collins	970.407.8302	Vancouver	604.681.4196	Europe
Reno	775.828.6800	Yellowknife	867.873.8670	North America
Tucson	520.544.3688			South America

Closure implementation is estimated to take 3 years for both liability estimates with construction occurring between April and September. The site is estimated to be access by air during the spring, and by barge following spring break-up. Two years of interim care and maintenance is assumed to be required after mining ceases and prior to implementation of the final closure plan for the Year 0 liability estimate. These costs are not included in the EOM estimate as the closure plan would be finalized at the end-of-mining.

As noted in Section 8, the Post-Closure I and Post-Closure II periods have durations of 5 years and 10 years, respectively. During Post-Closure I, site access is maintained by air during the spring, and by barge following spring break-up. During Post-Closure II, site maintenance is assumed to be required every 5 years with the site accessed by barge and work completed in one month. Site access for monitoring events and geotechnical inspections when no barge is in place are assumed to be completed by helicopter. During Post-Closure II, the geotechnical inspection completed by helicopter will also be used to determine the maintenance requirements to be completed during the next summer.

Costs have also been allocated for on-going site maintenance past the Post-Closure II period into perpetuity. Routine site inspections and maintenance were assumed to be completed every 10 years, with access to the site established by barge. During these 10 year maintenance events, costs were allocated for passive treatment maintenance, site grading, as well as maintenance of the access road (including Big Creek Bridge).

2 Unit Rates

Equipment rates were obtained from the 2015-16 BC Blue Book (B.C. Road Builders and Heavy Construction Association, 2015). The Blue Book publishes 'all found less operator' equipment rates that include: ownership costs, operating costs (fuel, lube, and wear), insurance and profit. The operating costs are calculated using a base fuel rate of \$0.94/L with a fuel price adjustment published monthly on the B.C. Ministry of Transportation website. Overhead, profit, and fuel costs were backed out of the equipment rates as these costs were applied elsewhere in the cost model calculations.

Base labour rates were obtained from the Yukon Government Fair Wage Schedule effective April 1, 2016. Rates were adjusted based on either a "2 week in, 2 week out" or a "3 week in, 1 week out" rotation that accounted for: overtime, EQ, CPP, and MSP/health benefits. Hourly rates for project management and technical consultants were estimated based on past project experience. The workforce is assumed to primarily be based in either Pelly Crossing or Whitehorse.

Primary material rates used in the estimate consisted of: revegetation materials, fuel, and geosynthetic materials. The revegetation, fuel, and geotextile costs were provided by supplier quotes. The remaining material costs were obtained using RSMeans Online – a cost database service that provides up-to-date construction cost data. Material costs used were factored by RSMeans to be based in Whitehorse, and were further adjusted by 15% to account for shipping to Minto.

3 Basis of Estimate – Closure

3.1 Direct Costs

Direct costs were estimated based on the construction fleet and productivities assigned to each task. Determination of the construction fleet and productivities were obtained based on first principals, from experience on similar projects, or from the RS Means Online cost database. Earthmoving unit rates were based on calculated productivities that followed standard methods, as used by earthwork contractors. The calculations make use of equipment specifications obtained from manufacturer's data, in this case the Caterpillar Handbook.

Table 1 provides a summary of the major direct cost quantity sources and assumptions. Further details are provided in the cost estimate worksheets provided in Attachment 1.

Area	Inputs and Assumptions
Waste Dumps	 Waste rock dump and ore stockpile dimensions were obtained from AutoCAD drawings of the September 2015 site topography.
	• The dimensions for waste dump facilities currently under construction (MVFE Stage 2 and MWDE) were estimated based on design drawings and observations from site in June 2016.
	• The dump slopes were assumed to be regraded to be flatter than 3H:1V and flat areas were assumed to be regraded to form tertiary drainage catchments with a minimum 2% grade
	• The SWD high grade waste stockpile was assumed to be regraded to be flatter than 5H:1V, lined with a bituminous geomembrane liner and covered with one meter of soil
	• The waste rock covers were assumed to be entirely sourced from the Reclamation Overburden Dump.
Overburden Dumps	Dump dimensions were obtained from AutoCAD drawings of the September 2015 site topography.
	• The dump slopes were assumed to be regraded to be flatter than 3H:1V and flat areas were assumed to be regraded to form tertiary drainage catchments with a minimum 2% grade.
Ore Stockpiles	• Stockpile dimensions were obtained from AutoCAD drawings of the September 2015 site topography.
	• The remaining stockpile volumes near the mill and the Main Waste Dump were provided by Minto on July 15, 2016. They are assumed to be relocated into the Main Pit, along with the upper two meters of the ore pads.
Open Pits	• Earthen safety berms are assumed to be placed around the pit high walls, with large boulders placed near pit access points and warning signs placed at key locations around the perimeter.
	• Perimeter lengths were obtained from the latest site topography for completed pits, or design drawings for pits currently under construction, or yet to be mined.

 Table 1:
 Direct Cost Inputs and Costing Assumptions

Area	Inputs and Assumptions
Underground Openings	• A backfill plug is assumed to placed at the Minto South Portal with backfill material sourced from near-by waste rock. The area near the portal is assumed to be backfilled and recontoured.
	• The Area 118 vent raise is assumed to be sealed with a reinforced concrete cap with a vent raise pipe, and covered with fill.
External Tailings Facilities	Dimensions of the DSTSF were obtained from AutoCAD drawings of the September 2015 site topography.
	• The area south of the DSTSF is assumed to be regraded to drain to the east of the facility.
Roads	Road dimensions were obtained from the 2015 site topography and aerial photos. Roads no longer required following closure are assumed to be scarified and revegetated.
	• The main site access road is assumed to be maintained for long-term site access.
Demolition	• Building dimensions were obtained from site drawings for all major structures, and were estimated based on site photos for minor structures where drawings were not available.
	• All equipment was assumed to be dismantled and removed from site. Equipment lists were provided by Minto in 'Issued-for-Construction' Drawings, or based of the Hatch 2006 feasibility study cost estimate.
	• Demolition debris was assumed to be disposed in the on-site landfill located near the airstrip, with all hazardous material, recyclables, and re-useable equipment removed an appropriate off-site facility.
Site infrastructure	Pipeline and power line lengths and details were provided by Minto in AutoCAD format.
	• The pipelines were assumed to be disposed on-site, with the power lines and power poles disposed off-site once no longer needed.
Water Detention Structures	• The water storage dam volumes were obtained from dam as-built drawings. The dam material is assumed to be partially utilized as construction material for the wetland system upstream of the dam.
Yards	• Yard areas were obtained from AutoCAD drawings and aerial photography. The yard boundaries are provided in Figure 9-1.
Waste Disposal	Hydrocarbon contaminated soils were assumed to be hauled to the on-site landfill located at the airstrip, with the landfarm operated for a period of three years.
	• Areas of hydrocarbon contaminated soils were assumed to be present near fuelling storage and mechanic working areas, with an average contamination depth of 1.0 m.
Surface water conveyance	Excavation volumes, channel lengths, alignments, and other quantities for the primary catchment channels were obtained from AutoCAD drawings.
	• The secondary catchment quantities were calculated based on the typical section provided in Section 7, with an allowance of 40 m of secondary channel lengths per hectare of dump.

Area	Inp	uts and Assumptions
Water Treatment	•	Fill used to construct the wetland cells was assumed to be sourced from the Water Storage Pond Dam.
	•	The wetland cells are assumed to be lined with HDPE with organics assumed to be produced using a power mulcher form vegetation cleared from the water storage pond footprint.
	•	The passive treatment system is assumed to be constructed in Year 3 of closure with the first year of operation in Year 1 of post-closure.
	•	The active treatment system is assumed to be decommissioned and removed from site at the end of Post-Closure 2.

3.2 Indirect Costs

Indirect costs during the closure implementation included costs for mobilization-demobilization, site transport costs, site and road maintenance, construction support, project management, and quality assurance. A summary of the major indirect assumptions are provided in Table 2. Further details are provided in the cost estimate worksheets in Attachment 1.

Area	Inputs and Assumptions
Mobilization	• The assumed closure equipment fleet is listed in Worksheet 19 in Attachment 1. Each piece of equipment is likely not required throughout the entire closure period, however, for the purposes of the estimate, the entire fleet was assumed to be mobilized in Year 1 of closure, with most equipment demobilized from site at the end of Year 3.
	• A small site maintenance fleet was assumed to remain on site to allow for earthwork repairs and passive treatment maintenance during the post-closure period. The storage location of the equipment has yet to be finalized, but is expected to consist of an existing site warehouse.
	All equipment was assumed to be mobilized from Whitehorse.
Site Transport	• Site transport costs include barge and bus operations, as well as air transport and airstrip operations during periods where the barge is not in service.
Road and Site Maintenance	 A water truck and grader were assumed to be required 150 hours per month. An allowance of 7 km of silt fencing and 1 ha of erosion control matting was assumed for erosion protection prior to vegetation begin established.
Construction Support	 Field support staff, vehicles, and support equipment were estimated based on past project experience on projects of similar size.
	• The existing camp and office facilities are assumed to be used by the closure contractor.
	• Camp cost man-days were estimate based on a sum of the calculated man-hours required for closure implementation.
	Camp costs including power and heat were provided by Minto.

Table 2: Indirect Cost Inputs and Costing Assumptions

Area	Inputs and Assumptions
QA and Project Management	• Project management and QA includes costs for staffing to provide on-site management of the contractor to ensure the project is implemented as per the closure plan.
Indirect Percentage Add- on Costs	 Additional indirect add-ons included the following: Contingency = 12% Worker's Compensation = 0% (included in labour rates) Insurance = 2% of labour costs (equipment insurance included in equipment rates). Bonding = 3% of project implementation and care and maintenance costs. Contractor profit = 10% Contract administration = 5%

4 Basis of Estimate – Post Closure and C&M Costs

The following section describes the costs allocated for care and maintenance of the site for all phases of closure. Further details of the costs for each closure phase are provided in Worksheet 8 in Attachment 1.

4.1 Water Treatment

Active treatment operational costs are based on on-site costs for 2015. The active treatment system is assumed to be operated through Active Closure and Post-Closure I. Costs for capital replacement and maintenance of the active treatment system are included through to the end of the Post-Closure II period, after which the system is assumed to be dismantled and removed from site.

The passive treatment wetlands are assumed to start operations in Year 1 of post-closure. Allocated costs for operation and maintenance of the system includes costs for staffing and oversight of the system, an allowance for replacement of the organic media, as well as for carbon source injections.

4.2 Reclamation and Site Maintenance

Reclamation and site maintenance costs include allowances for equipment maintenance, road maintenance, repair of earthworks including site grading, cover and revegetation repair.

4.3 Site Management

Costs are included for the management of the site and care and maintenance activities, as well as camp operation.

4.4 Transport Costs

Transport costs include staffing transport between site and Whitehorse, as well as barge operations and mobilization-demobilization.

4.5 Post-Closure Indirect Costs

Post-closure indirect costs include the same percentage add-on costs as used during closure. These costs include: contingency (12%), insurance, bonding, contractor profit, and contract administration.

5 Closure Planning, Permitting, and Monitoring

Planning and permitting costs are included for the Year 0 liability estimate. These costs are assumed to be included during operations in the End-of-Mine Scenario. Planning and permitting costs include: reclamation research and planning, technical studies and investigations, monitoring and management plans, and permitting staffing and meetings. The engineering design to support planning and permitting is included in the indirect costs.

Monitoring of the site was costed according to the monitoring schedule presented in Section 7 of the RCP. Monitoring costing details are provided in Worksheet 20 in Attachment 1.

6 Inflation and Net Present Value Analysis

Inflation and net present value (NPV) calculations are presented in Worksheet 2 and 7 of Attachment 1 for the Year 0 and EOM liability estimates respectively. The tables include the cost schedule and undiscounted cash flow starting in 2016 through post-closure year 105. As required by YG (2013), 2% inflation has been applied to the period of active implementation, while NPV discount rates were applied to post-closure monitoring and maintenance costs. The NPV calculations include annual cash flows to perpetuity (modeled as 105 years after decommissioning and reclamation, or 2125).

As per Yukon Mine Site Reclamation and Closure Policy Financial Guidelines (YG 2014), the discount rate used in NPV calculation are to be the most recent Government of Canada benchmark bond yields as published by the Bank of Canada, with the bond term selected to be the longest term published that does not exceed the expected duration of the post-closure reclamation, monitoring and maintenance program. For the Minto site, this corresponds to a bond term of ten years, which as of July 2016, this corresponds to a bond yield of 1.75%. Given the historically low yield, a variable discount rate has been selected for the NPV calculations. The NPV calculations apply a discount rate of 1.75% for the first two years, 2% for the next 3 years, and 2.5% thereafter. The 2.5% corresponds to the average yield for the past ten years.

7 Cost Summary

Table 3 summarizes the reclamation and closure liability for the Year 0 (and peak two-year liability, and the End-of-Mine scenarios. The costs are presented in 2016 Canadian Dollars.

Description of Cost	Year 0	EOM
Closure Implementation		
Direct Costs	\$16,660,159	\$9,758,628
Care & Maintenance Costs to end of implementation	\$9,502,236	\$4,356,453
Indirect Costs	\$18,924,757	\$14,842,748
Cost Inflation	\$2,329,764	\$1,769,366
Sub-total - Implementation Costs	\$47,416,916	\$30,727,195
Post-Closure NPV	\$13,645,322	\$13,251,943
TOTAL FINANCIAL SECURITY	\$61,062,239	\$43,979,138

 Table 3:
 Reclamation and Closure Liability Cost Summary

Closure

We trust that this report meets with your project requirements. If you have any questions or concerns, please contact Peter Mikes at (604) 681-4196 at your convenience.

Sincerely, SRK Consulting (Canada) Inc.

ORIGINAL SIGNED AND STAMPED BY

Peter Mikes, PEng Senior Consultant

Reviewed by:

ORIGINAL SIGNED BY

Stu McPhee, EIT Consultant

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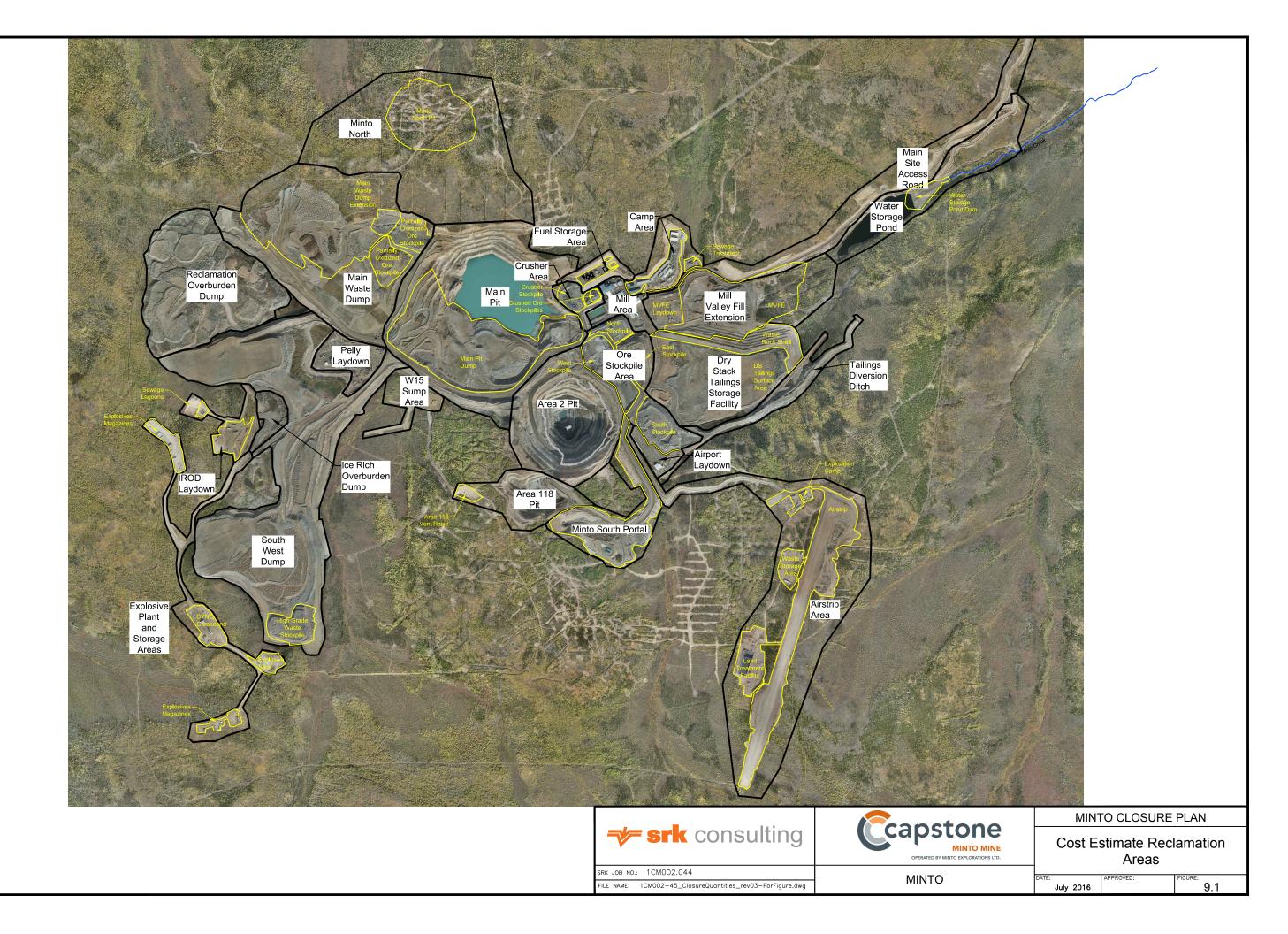
8 References

B.C. Road Builders and Heavy Construction Association, 2016. 2015-16 Equipment Rental Rate Guide. Published July.

[YG] Government of Yukon, Energy Mines and Resources, 2013. Reclamation and Closure Planning for Quartz Mining Projects: Plan Requirements and Closure Costing Guidance. August.

[YG] Government of Yukon, Department of Community Services, 2016. Fair Wage Schedule, effective April 1, 2016. Accessed at <u>http://www.community.gov.yk.ca/fairwage.html</u> on July 15, 2016.

Figures



Attachment 1 – Cost Estimate Worksheets

30-Water Treatment

Table of Contents

Project: Minto Mine Closure Cost Estimate - RCP Rev. 2016-01 Project No.: 1CM002.045 Client: Minto Explorations Ltd. Date of Submission: August 5, 2016 File Location: \\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\Cost Estimate\

Table of Contents

30

Water Treatment

Worksheet #	Title	Worksheet Name
1	Cost Summary	01-Summary
2	Year 0 Estimate - Cashflow Calculations	02-Yr0NPV
3	Year 0 Estimate - Annual C&M costs	03-Yr0CCM
4	Year 0 Estimate - Implementation Costs	04-Yr0Active
5	Year 0 Estimate - Schedule Details	05-Yr0Sched
6	Year 0 Estimate - Planning and Permitting	06-Yr0Planning
7	EOM Estimate - Cashflow Calculations	07-EOMNPV
8	EOM Estimate - Annual C&M costs	08-EOMCCM
9	EOM Estimate - Implementation Costs	09-EOMActive
10	EOM Estimate - Schedule Details	10-EOMSched
11	EOM Estimate - Planning and Permitting	11-EOMPlanning
12	Labour Rate Calculations	12-LaborRate
13	Equipment Rate Calculations	13-EquipRate
14	Material Rates and Indirect Cost Inputs	14-MatRate
15	Task Unit Rate Calculations	15-TASK UNIT RATE
16	Relocation Unit Rates	16-UNIT RELOCATION
17	Area Calculations for Covers and Revegetation	17-Areas
18	Demolition	18-Demolition
19	Mobilization-Demobilization Calculations	19-MobDemob
20	Monitoring Costs	20-Monitoring
21	Ore Stockpiles and Misc. Volume Calculations	21-Ore-MiscVol
22	Open Pit Calculations	22-Pits
23	Resloping Quantity Calculations	23-Regrade
24	Revegetation Perscriptions	24-Reveg
25	Road Calculations	25-Roads
26	Surface Infrastructure Calculations	26-SurfInfra
27	Underground	27-UG
28	Waste Disposal	28-Waste Disposal
29	WaterStructures	29-Water

Worksheet 1 - Cost Summary

Project: Minto Mine Closure Cost Estimate - RCP Rev. 2016-01 Project No.: 1CM002.045 Client: Minto Explorations Ltd. Date of Submission: August 5, 2016 File Location: \\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\Cost Estimate\



COST SUMMARY YEAR 0

WBS	Description of Cost	Proposed Cost
Closure Imp		
Direct Costs		
A01	Waste Dump	\$7,903,181
A02	Overburden Dumps	\$340,650
A03	Ore Stockpiles	\$1,114,877
A04	Open Pits	\$38,797
A05	Underground Openings	\$25,661
A06	External Tailings Facilities	\$583,143
A07	Roads	\$106,478
A08	Demolition	\$1,933,168
A09	Surface Infrastructure	\$118,389
A10	Water Detention Structures	\$739,172
A11	Yards/Laydown Areas	\$703,988
A12	Waste Disposal	\$502,536
A13	Surface Water Conveyance	\$2,071,653
A14	Water Treatment	\$478,467
Subtotal - D	irect Implementation	\$16,660,159
	itoring and C&M	
Р	Planning, Permitting, Monitoring	\$1,823,979
CM	Care and Maintenance	\$7,678,257
Subtotal - M	onitoring and C&M	\$9,502,236
Indirect Cos	-	+-,,
B1	Mobilization/Demobilization	\$305,210
B2	Transport Costs	\$406,656
B3	Site/Road Maintenance	\$742,995
B4	Construction Support	\$5,169,797
B5	QA and Project Management	\$1,860,889
-	Other Indirects	\$6,297,386
	Contingency (12%)	\$4,141,823
Subtotal - In	direct Costs	\$18,924,757
Cost Inflatior		\$2,329,764
		\$47,416,916
SUB-TUTAL	IMPLEMENTATION COSTS	\$47,410,910
	e Costs (Undiscounted)	
Direct Costs		• · · · · · · · · · ·
	1 Monitoring	\$1,647,237
	2 Water Treatment - Active Treatment	\$4,319,359
	3 Passive Treatment	\$557,443
	4 Reclamation Maintenance	\$1,456,236
	5 Site Maintenance	\$1,542,451
	6 Site Management	\$4,806,132
	7 Transportation Costs	\$950,206
Subtotal Dir		\$15,279,064
Indirect Cos	ts	
	1 Indirects	\$2,786,941
	2 Contingency (12%)	\$1,849,418
Subtotal - In	directs	\$4,636,359
SUB-TOTAL	- POST-CLOSURE COSTS	\$19,915,423
POST-CLOS	SURE NPV	\$13,645,322

TOTAL FINANCIAL SECURITY

COST SUMMARY EOM

WBS	Description of Cost	Proposed Cost
Closure Imp	lementation	
Direct Costs	i	
A01	Waste Dump	\$1,860,150
A02	Overburden Dumps	\$340,650
A03	Ore Stockpiles	\$718,046
A04	Open Pits	\$39,929
A05	Underground Openings	\$25,66 ²
A06	External Tailings Facilities	\$150,214
A07	Roads	\$106,478
A08	Demolition	\$1,933,168
A09	Surface Infrastructure	\$118,389
A10	Water Detention Structures	\$739,172
A11	Yards/Laydown Areas	\$703,988
A12	Waste Disposal	\$502,536
A13	Surface Water Conveyance	\$2,071,653
A14	Water Treatment	\$448,594
Subtotal - Di	irect Implementation	\$9,758,62
Interim Mon	itoring and C&M	
Р	Planning, Permitting, Monitoring	\$1,134,928
CM	Care and Maintenance	\$3,221,52
Subtotal - M	onitoring and C&M	\$4,356,453
Indirect Cos	ts	
B1	Mobilization/Demobilization	\$305,210
B2	Transport Costs	\$406,656
B3	Site/Road Maintenance	\$742,995
B4	Construction Support	\$4,832,506
B5	QA and Project Management	\$1,860,889
-	Other Indirects	\$4,038,820
-	Contingency (12%)	\$2,655,67 ²
Subtotal - In	direct Costs	\$14,842,748
Cost Inflation	1	\$1,769,366
SUB-TOTAL	IMPLEMENTATION COSTS	\$30,727,19

Direct Costs 1 Monitoring 2 Water Treatment - Active Treatment 3 Passive Treatment

4 Reclamation Maintenance	\$1,107,338
5 Site Maintenance	\$1,542,451
6 Site Management	\$4,815,732
7 Transportation Costs	\$950,206
Subtotal Direct Costs	\$14,939,766
Indirect Costs	
1 Indirects	\$2,724,498
2 Contingency (12%)	\$1,808,702
Subtotal - Indirects	\$4,533,200
SUB-TOTAL - POST-CLOSURE COSTS	\$19,472,966
POST-CLOSURE NPV	\$13,251,943

TOTAL FINANCIAL SECURITY

\$61,062,239

\$1,647,237

\$4,319,359

\$43,979,138

\$557,443

Worksheet 2 - Year 0 Estimate - Cashflow Calculations	
Project: Minto Mine Closure Cost Estimate - RCP Rev. 2016-01	Ccapstone
Project No.: 1CM002.045	MANTO MANE
Client: Minto Explorations Ltd.	
Date of Submission: August 5, 2016	->> srk consulting
File Location: \\VAN-SVR0\Projects\01 SITES\Minto\1CM002.045 ClosureCosts\Cost Estimate\	· · · · · · · · · · · · · · · · · · ·

NPV CALCULATION INPUTS

NOTE: Columns between Years 2046 and 211	6 are hidden	for printing purposes.	Short-Term	Interest Rate (Inte	rim Care/Implem	entation Cos	s)
			##	Inflation Rate	Years in effect	Start Year	End Year
			1	2.0%	100	2016	2116
Input Parameters			Long-Term	Monitoring/Mainte	nance NPV Disco	ount Rates	
Scenario:	Year 0 Closur	e	##	Discount Rate	Years in effect	Start Year	End Year
Current Year:	2016	Year that the estimate is costed	1	1.75%	2	2016	2018
Closure Year 1:	2018		2	2.0%	3	2019	2022
Closure Period:	3	yrs	3	2.5%		2023	
Post-Closure Year 1:	2021						

SCHEDULE

			INTERI			CLOSURE		POST	CLOSURE																
Implementation Sched	dule	Closure Year:	Year -2	Year -1	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20	Year 21
Area		Sum	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Direct Costs Waste Dumps	8	100%			40%																				
Overburden Du		100%					100%	6																	
Ore Stockpiles	S	100%			1009	6																			
Open Pits		100%				50%	50%	6																	
Underground C		100%			1009	6																			
External Tailing	gs Facilities	100%			50%	6 50%																			
Roads		100%					100%	b																	
Demolition		100%			109			6																	
Surface Infrast		100%			25%			6																	
Water Detention		100%				50%		b																	
Yards/Laydowr		100%			25%			b															1		
Waste Disposa		100%				14%		6 2%	5 2%	2%	5%	5													
Surface Water		100%			209	6 30%	50%	5																	
Water Treatme		100%					88%	0				12%	b												
Indirect Mobilization-De		100%			509		45%					5%	2												
Transport Cost		100%			349																				
Road Maintena		100%			349																				
Construction S	Support	100%			349			b																	
QA and Pro. M	/lgmt.	100%			349	6 33%	33%	0																	
		Set Monitoring/C&M Stage:	1 - Interim	1 - Interim	2 Activo	2 - Active	2 Activo	3 - PC 1	2 80 1	2 80 1	3 - PC 1	2 BC 1	4 80.2	4 80.2	4 - PC 2	4 80.2	4 80.2	4 80.2	4 80.2	4 80.2	4 80.2	4 80.2			1
Monitoring Schedule		Post-Closure Year:	Year -5	Year -4	Year -3	Year -2	Year -1	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7		Year 9							Vear 16	Year 17	Vear 18
		Sum	1041 0	rour 4	rour o	rour 2	- Court		10012	10010	1041 4	10410	. our o	, car ,	i dui d	rour o	1001.10	104111	1041 12	100110	1041 14	1001.10	roai ro	roar m	rour ro
Planning and permitting	Reclamation Research and Planning	100%	50%	50%																			<u> </u>		
r iaining and permitting	Technical Studies and Investigations	100%	50%	50%																				······	
	Engineering, Design, and Construction Plans	100%	30%	40%	10%	10%	10%																		
	Monitoring and Management Plans	100%	50%	50%		1070	1070																		
	Permitting	100%	50%	50%																					
Monitoring Water Quality I	Monitoring (surface and groundwater)	100 %	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Sediment Moni								1	••••••		·····		······	••••••	·····	•••••		·····	·····	••••••					
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Geotechnical M			1	1				1	1		4						4					1			
Revegetation M			•	•	1		1	-														1			
Annual Inspect			4					-																	
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Care and Maintenance	e Schedule																						───		
Water Treatment/Manageme	ant Active System		x	x	×	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<u> </u>		
	Passive System		^	·····	<u>^</u>	·····	·····	x	x	x	÷	x	<u>.</u>	~	<u>^</u>	·····	x	·····		·····	·····	x	1		
Reclamation Maintenance	Revegetation, cover repair, etc.							×	×	x	×	x													
Site Maintenance	norogotation, ooror ropan, oto.		x	×	x	×	x	Ŷ		x	Ŷ	÷.					×					x			
On-site Management			x	Ŷ	Ŷ	Ŷ		Ŷ		Ŷ		÷.					x					x			
On-and mandgement								^			^											~			
Transportation Costs							~										~					w			

| Inclamentation October | |

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| Implementation Schedule | |

 | Closure Year: |
 | | Year 1 Year 2

 | Year 3
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 | Year 7 Year 7 | ar 8 Year 9
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 | 12 Year 13
 | Year 14 Ye | ear 15 Year 16

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| Area | |

 | Sum | 2016
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 | 2021 202 | 2 2023

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 | 2031 2 | 2032 2033

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| Direct Costs Waste Dumps
Overburden Dumps | |

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100% |
 | | 40% 60%

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| Ore Stockpiles | |

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| Open Pits
Underground Openings | |

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| External Tailings Facilities | |

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50% 50%

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| Roads | |

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| Demolition
Surface Infrastructure | |

 | 100% |
 | | 10% 75%
25% 50%

 | 6 15%
25%
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| Water Detention Structures | |

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| Yards/Laydown Areas | |

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| Waste Disposal
Surface Water Conveyance | |

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100% |
 | | 14%
20% 30%

 | 6 75%
6 50%
 | 2% | 2% 2%

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| Water Treatment | |

 | 100% |
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 | 88%
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| Indirect Mobilization-Demobilization | |

 | 100% |
 | | 50%

 | 45%
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| Transport Costs
Road Maintenance | |

 | 100% |
 | | 34% 33%
34% 33%

 | 6 33%
6 33%
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| Construction Support | |

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| QA and Pro. Mgmt. | |

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 | q/C&M Stage: | 1 - Interim 1
 | 1 - Interim 2 - | - Active 2 - Active

 | 2 - Active
 | 3 - PC 1 3 - PC | C 1 3 - PC 1

 | 3-PC1 3- | PC 1 4 - PC 2
 | 4 - PC 2

 | 4 - PC 2 4 - PC

 | C 2 4 - PC 2
 | 4 - PC 2 4 - | - PC 2 4 - PC 2

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 | 5 - Perpetual | | 5 - Perpetua | | | |
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| Monitoring Schedule | E |

 | ost-Closure Year: |
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| Planning and permitting | Reclamation Research and Planning |

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 | 50%
50% |

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| | Technical Studies and Investigations
Engineering, Design, and Construction Plans | -

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30%
 | 40% | 10% 10%

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| | Monitoring and Management Plans |

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| | Permitting |

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| Monitoring Water Quality Monitoring (surf:
Sediment Monitoring | rrace and groundwater) |

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| Biological Monitoring | |

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| Geotechnical Monitoring | | -

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| Revegetation Monitoring
Annual Inspection Reporting | |

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| Care and Maintenance Schedule | |

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| Water Treatment/Management | Active System |

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| | Passive System |

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| Reclamation Maintenance | Revegetation, cover repair, etc. |

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| Site Maintenance
On-site Management | |

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| Transportation Costs | |

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| UNDISCOUNTED CASH FLOW (TO | O 100 YEARS POST CLOSURE) |

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| Implementation Costs | |

 | | Year -2
 | Year -1 Y | Year 1 Year 2

 | Year 3
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| Area | | Total % of Total

 | Check Sum | 2016
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 | 2021 202 | 2 2023

 | 2024 2 | 025 2026
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 | 2028 2029

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 | 2031 2 | 2032 2033

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| Direct Costs Waste Dumps
Overburden Dumps | | \$7,903,181 31%
\$340,650 1%

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| Ore Stockpiles | |

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| Open Pits | | \$38,797 0%

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| Open Pits
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| Open Pits
Underground Openings
External Tailings Facilities | | \$38,797 0%
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| Open Pits
Underground Openings
External Tailings Facilities
Roads
Demolition | | \$38,797 0%
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\$583,143 2%
\$106,478 0%
\$1,933,168 8%

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| Open Pits
Underground Openings
External Tailings Facilities
Roads
Demolition
Surface Infrastructure | | \$38,797 0%
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\$583,143 2%
\$106,478 0%
\$1,933,168 8%
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| Open Pits
Underground Openings
External Tailings Facilities
Roads
Demolition
Surface Infrastructure
Water Detention Structures | | \$38,797 0%
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\$1,933,168 8%
\$118,389 0%
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| Open Pits
Underground Openings
External Tailings Facilities
Roads
Demolition
Surface Infrastructure
Water Detention Structures
Yards/Laydown Areas
Waste Disposal | | \$38,797 0%
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\$583,143 2%
\$106,478 0%
\$193,168 8%
\$118,389 0%
\$739,172 3%
\$703,988 3%
\$502,536 2%

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| Open Pits
Underground Openings
External Tailings Facilities
Roads
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Surface Infrastructure
Water Detention Structures
Yards/Laydown Areas
Waste Disposal
Surface Water Conveyance | | \$38,797 0%
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| Open Pits
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Surface Infrastructures
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| Open Pits
Underground Openings
External Tailings Facilities
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| Open Pits
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Demolition
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Water Detention Structures
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| Open Pits
Underground Openings
External Tailings Facilities
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Yards/Laydown Areas
Waste Disposal
Surface Water Corveyance
Water Treatment
Indirect Mobilization-Demobilization
Transport Costs
Sife/Road Maintenance
Construction Support
(QA and Pro. Mgmt.
Subtotal - Closure Implementation Costs
Monitoring Costs | Reclamation Research and Planning
Technical Studies and Investigations
Engineering, Design, and Construction Plans
Monitoring and Management Plans
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Waste Disposal
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and Treatment
Indirect Mobilization-Demokilization
Mobilization-Demokilization
Stef/Road Maintenance
Construction Support
QA and Pro. Mgmt.
Subtotal - Closure Implementation Costs
Monitoring Costs
1 Planning and
2 Permitting
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External Tailings Facilities
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Demolition
Surface Infrastructure
Water Detention Structures
Yards/Laydown Areas
Waste Disposal
Surface Water Conveyance
Water Treatment
Indirect Molization-Demokilization
Transport Costs
Subtotal - Costs
Refredad Maintenance
Construction Support
QA and Pro. Mgmt.
Subtotal - Costs
Subtotal - Cost | Reclamation Research and Planning
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Monitoring and Management Plans
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Sediment Monitoring
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| Open Pits Underground Openings External Tailings Facilities Roads Demotilion Surface Infrastructure Water Detention Structures Yards/Laydown Areas Waste Disposal Surface Water Conveyance Water Treatment Molization-Demokilization Transport Costs Stubtotal - Closure Implementation Costs Monitoring Costs 1 2 1 2 1 2 3 4 5 6 | Reclamation Research and Planning
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| Open Pits
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Water Detention Structures
Water Treatment
Mobilization Demobilization
Trapport Costs
StarRoad Maintenance
Construction Support
QA and Pro. Mgmt.
Subtotal - Closure Implementation Costs
Monitoring Costs
1 Planning and
2 Permitting
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Care and Maintenance Costs
1 Water Treatment
2 Reclamation Maintenance | Reclamation Research and Planning
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Monitoring and Management Plans
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| Open Pits
Underground Openings
External Tailings Facilities
Roads
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Surface Infrastructure
Water Detention Structures
Yards/Laydown Areas
Waste Disposal
Surface Water Conveyance
Water Treatment
Indirect Molization-Demokilization
Transport Coats
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Construction Support
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Subtotal - Closure Implementation Costs
Monitoring Costs
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| Open Pits
Underground Openings
External Tailings Facilities
Roads
Demolition
Surface Infrastructure
Water Detention Structures
Yardx/Laydown Areas
Waste Disposal
Surface Water Conveyance
Water Treatment
Indirect Molization-Demokilization
Transport Coats
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| Open Pits
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Water Treatment
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Transport Costs
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Construction Support
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Subtotal - Closure Implementation Costs
Monitoring Costs
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| Open Pits
Underground Openings
External Tailings Facilities
Roads
Demolition
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Water Detention Structures
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Subtotal - Closure Implementation Costs
Monitoring Costs
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Care and Maintenance
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9 Other Add-on Costs
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2 Worker's compensation | Reclamation Research and Planning Technical Studies and Investigations Engineering, Design, and Construction Plans Monitoring and Management Plans Permitting Water Ouality Monitoring Sediment Monitoring Biological Monitoring Revegetation Monitoring Annual Inspection Reporting Annual Inspection Reporting Active System Passive System (Cover/Reveg Repairs) 12% % of above costs 0% (Included in labour rates) | \$38,797 0%
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| Open Pits Underground Openings External Tailings Facilities Roads Demolition Surface Infrastructures Water Detention Structures Water Treatment Indirect Mobilization-Demobilization SterRoad Maintenance Construction Support QA and Pro. Mgmt. Subtotal - Chosure Implementation Costs Monitoring Costs 1 Qa and Pro. Mgmt. 3 4 5 6 7 Monitoring 2 3 4 5 6 7 8 Post Closure Costs Subtotal Cate and Maintenance 4 3 1 Water Treatment | Reclamation Research and Planning Technical Studies and Investigations Engineering, Design, and Construction Plans Monitoring and Management Plans Permitting Water Ouality Monitoring Sediment Monitoring Biological Monitoring Geotechnical Monitoring Revegetation Monitoring Annual Inspection Reporting Active System Passive System (Cover/Reveg Repairs) 12% % of above costs 0% (Included in labour rates) 1.5% % of above costs 3% % of inplore. | \$38,797 0%
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Care and Maintenance
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6 Transportation Costs
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Other Add-on Costs
1 Contingency
2 Worker's compensation
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5 Contract Administration
Other Add-On Costs Subtotal</th><td>Reclamation Research and Planning Technical Studies and Investigations Engineering, Design, and Construction Plans Monitoring and Management Plans Permitting Water Coublity Monitoring Sediment Monitoring Biological Monitoring Gettechnical Monitoring Revegatation Monitoring Active System Passive System Passive System (Cover/Reveg Repairs) 12% % of above costs 0% (Included in labour rates) 1.5% % of above costs 3% % of Implem. & CAM costs \$ 10% % of above costs</td><td>\$38,797 0% \$25,661 0% \$25,661 0% \$108,478 0% \$108,478 0% \$108,478 0% \$118,339 0% \$118,339 0% \$739,172 3% \$502,636 2% \$2,071,653 8% \$305,210 1% \$305,210 1% \$305,210 1% \$305,210 1% \$305,210 1% \$305,210 1% \$305,210 1% \$34,6656 2% \$34,679 21% \$51,830,020 1% \$54,145,108 2% \$25,145,108 2% \$305,100 2% \$305,100 2% \$305,000 3% \$50,000 3% \$50,000 3% \$50,000 3% \$201,287 6% \$33,471,216
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Surface Infrastructure
Water Detention Structures
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Waste Disposal
Surface Water Conveyance
Water Treatment
Indirect Mobilization-Oemobilization
Transport Coats
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Construction Support.
(2A and Pro. Mymt.)
Subtotal - Closure Implementation Costs
Monitoring Costs
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9 Cost Closure Costs Subtotal
Care and Maintenance Costs
1 Water Treatment
2 Retamation Maintenance
5 On-site Management
6 Transportation Costs
9 Other Add-on Costs
1 Contingency
2 Worker's compensation
3 Insurance
4 Biology</th><td>Reclamation Research and Planning Technical Studies and Investigations Engineering, Design, and Construction Plans Monitoring and Management Plans Permitting Water Coublity Monitoring Sediment Monitoring Biological Monitoring Gettechnical Monitoring Revegatation Monitoring Active System Passive System Passive System (Cover/Reveg Repairs) 12% % of above costs 0% (Included in labour rates) 1.5% % of above costs 3% % of Implem. & CAM costs \$ 10% % of above costs</td><td>\$38,797 0%
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Other Add-on Costs
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Surface Infrastructure
Water Detention Structures
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Waste Disposal
Surface Water Conveyance
Water Treatment
Indirect Mobilization-Oemobilization
Transport Coats
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Construction Support.
(2A and Pro. Mymt.)
Subtotal - Closure Implementation Costs
Monitoring Costs
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2 Permitting
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9 Cost Closure Costs Subtotal
Care and Maintenance Costs
1 Water Treatment
2 Retamation Maintenance
5 On-site Management
6 Transportation Costs
9 Other Add-on Costs
1 Contingency
2 Worker's compensation
3 Insurance
4 Biology</th><td>Reclamation Research and Planning Technical Studies and Investigations Engineering, Design, and Construction Plans Monitoring and Management Plans Permitting Water Coublity Monitoring Sediment Monitoring Biological Monitoring Gettechnical Monitoring Revegatation Monitoring Active System Passive System Passive System (Cover/Reveg Repairs) 12% % of above costs 0% (Included in labour rates) 1.5% % of above costs 3% % of Implem. & CAM costs \$ 10% % of above costs</td><td>\$38,797 0%
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Waste Disposal
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Water Treatment
Indirect Molization-Demokilization
Transport Costs
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Construction Support
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Subtotal - Closure Implementation Costs
Monitoring Costs
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2 Permitting
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Other Add-on Costs
1 Contingency
2 Worker's compensation
3 Insurance
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Other Add-On Costs Subtotal | Reclamation Research and Planning Technical Studies and Investigations Engineering, Design, and Construction Plans Monitoring and Management Plans Permitting Water Coublity Monitoring Sediment Monitoring Biological Monitoring Gettechnical Monitoring Revegatation Monitoring Active System Passive System Passive System (Cover/Reveg Repairs) 12% % of above costs 0% (Included in labour rates) 1.5% % of above costs 3% % of Implem. & CAM costs \$ 10% % of above costs | \$38,797 0% \$25,661 0% \$25,661 0% \$108,478 0% \$108,478 0% \$108,478 0% \$118,339 0% \$118,339 0% \$739,172 3% \$502,636 2% \$2,071,653 8% \$305,210 1% \$305,210 1% \$305,210 1% \$305,210 1% \$305,210 1% \$305,210 1% \$305,210 1% \$34,6656 2% \$34,679 21% \$51,830,020 1% \$54,145,108 2% \$25,145,108 2% \$305,100 2% \$305,100 2% \$305,000 3% \$50,000 3% \$50,000 3% \$50,000 3% \$201,287 6% \$33,471,216 \$347,1247

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External Tailings Facilities
Roads
Demoiltion
Surface Infrastructure
Water Detention Structures
Yardx[Jaydown Areas
Waste Disposal
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(2A and Pro. Mymt.)
Subtotal - Closure Implementation Costs
Monitoring Costs
1 Planning and
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1 Monitoring
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9 Cost Closure Costs Subtotal
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4 Biology</th><td>Reclamation Research and Planning Technical Studies and Investigations Engineering, Design, and Construction Plans Monitoring and Management Plans Permitting Water Coublity Monitoring Sediment Monitoring Biological Monitoring Gettechnical Monitoring Revegatation Monitoring Active System Passive System Passive System (Cover/Reveg Repairs) 12% % of above costs 0% (Included in labour rates) 1.5% % of above costs 3% % of Implem. & CAM costs \$ 10% % of above costs</td><td>\$38,797 0%
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| Open Pits
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Surface Infrastructure
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Water Treatment
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(2A and Pro. Mymt.)
Subtotal - Closure Implementation Costs
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Care and Maintenance Costs
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2 Retamation Maintenance
5 On-site Management
6 Transportation Costs
9 Other Add-on Costs
1 Contingency
2 Worker's compensation
3 Insurance
4 Biology | Reclamation Research and Planning Technical Studies and Investigations Engineering, Design, and Construction Plans Monitoring and Management Plans Permitting Water Coublity Monitoring Sediment Monitoring Biological Monitoring Gettechnical Monitoring Revegatation Monitoring Active System Passive System Passive System (Cover/Reveg Repairs) 12% % of above costs 0% (Included in labour rates) 1.5% % of above costs 3% % of Implem. & CAM costs \$ 10% % of above costs | \$38,797 0%
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INFLATION FACTORED INTERIM CARE AND CLOSURE IMPLEMENTATION COSTS

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 | ear 28 Year 3 | Year 99 Year 1 | 107 Year 108 |
| Area
Direct Costs Waste Dumps | | ent Value % of Total Future Val
7,903,181 31% \$8,32 | | 2017 | 2018 201
\$3,288,988 \$5,03 | | 2021 | 2022 2

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| Overburden Dumps | | \$340,650 1% \$368 | ,730 | \$0 \$0 | \$0 | \$0 \$368,730 | , \$0
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| Ore Stockpiles
Open Pits | \$ | 1,114,877 4% \$1,159
\$38,797 0% \$44 | | \$0 \$0
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| Underground Openings | | \$25,661 0% \$26 | ,698 | \$0 \$0 | \$26,698 | \$0 \$0 | \$0 | \$0
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| External Tailings Facilities
Roads | | \$583,143 2% \$612
\$106,478 0% \$115 | | \$0 \$0
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| Demolition
Surface Infrastructure | \$* | 1,933,168 8% \$2,053
\$118,389 0% \$125 | ,626 | \$0 \$0 | \$201,127 \$1,53
\$30,793 \$6 | 88,620 \$313,879
2,817 \$32,037 | | \$0

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| Water Detention Structures | | \$739,172 3% \$792 | | \$0 \$0 | | 92,207 \$400,052 | | \$0

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| Yards/Laydown Areas
Waste Disposal | | \$703,988 3% \$750
\$502,536 2% \$546 | | \$0 \$0 | | 36,769 \$381,009
73,052 \$407,971 | | \$0
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| Surface Water Conveyance | \$2 | 2,071,653 8% \$2,21* | ,817 | \$0 \$0 | | 59,536 \$1,121,212 | 2 \$0 | \$12,405 \$

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| Water Treatment
Indirect Mobilization-Demobilization | | \$478,467 2% \$524
\$305,210 1% \$325 | | \$0 \$0
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| Transport Costs | | \$406,656 2% \$43 | ,518 | \$0 \$0 | \$143,849 \$14 | 12,410 \$145,259 | \$0 | \$0
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| Road Maintenance
Construction Support | | \$742,995 3% \$788
5,169,797 21% \$5,485 | | \$0 \$0
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| QA and Pro. Mgmt. | \$* | 1,860,889 7% \$1,974 | ,658 | \$0 \$0 | \$658,263 \$65 | 51,681 \$664,714 | \$0 | \$0

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| Subtotal - Closure Implementation Costs
Monitoring Costs | \$2 | 5,145,706 \$26,65 | ,271 | \$0 \$0 | \$8,677,501 \$11,13 | 39,902 \$6,684,058 | \$\$12,220 | \$12,465

 | \$12,714 | \$27,639 \$90 | ,772 \$0

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| ` | | ent Value % of Total Future Va | | 2017 | 2018 201 | 19 2020 | 2021 | 2022 2

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 | 2045 2046 | 2116 212 | 24 2125 |
| 1 Planning and permitting
2 | Reclamation Research and Planning
Technical Studies and Investigations | \$400,000 12% \$404
\$58,500 2% \$59 | | | \$0
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| 3 | Engineering, Design, and Construction Plans | \$833,008 24% \$855 | | | | 8,399 \$90,167 | \$0 | \$0

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| 4 5 | Monitoring and Management Plans
Permitting | \$95,000 3% \$95
\$0 0% | | 500 \$48,450
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| 1 Monitoring | Water Quality Monitoring | | ,122 \$43,4 | | | 62,412 \$63,660 | | \$0

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| 2 3 | Sediment Monitoring
Biological Monitoring | \$16,040 0% \$16
\$52,970 2% \$55 | | | | 3,404 \$3,472
1,242 \$11,467 | | \$0
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| 4 | Geotechnical Monitoring | \$61,582 2% \$64 | ,096 \$12,3 | 316 \$12,563 | \$12,814 \$1 | 3,070 \$13,332 | \$0 | \$0

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| 5 | Revegetation Monitoring
Annual Inspection Reporting | \$31,590 1% \$33
\$11,860 0% \$12 | | \$0 \$0
372 \$2,419 | | 1,175 \$11,398
2,517 \$2,568 | 8 \$0
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| Post Closure Costs Subtotal | \$ | 1,823,979 \$1,870 | ,954 \$598,6 | 639 \$695,579 | \$188,451 \$19 | 2,220 \$196,064 | \$0 | \$0

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| Care and Maintenance Costs | Prese | ent Value % of Total Future Va | ue 2016 | 2017 | 2018 201 | 19 2020 | 2021 | 2022 2

 | 2023 | 2024 202 | 5 2026

 | 2027 | 2028 20
 | 29 2030
 | 2031 20
 | 32 2033 | 3 2034
 | 2035
 | 2036 20 | 037 2038 | 3 2039 | 2040 | 2041 | 2042 | 2043 | 2044 2
 | 2045 2046 | 2116 212 | 4 2125 |
| 1 Water Treatment | Active System \$ | 3,434,267 16% \$3,574
\$0 0% | ,412 \$686,8 | 853 \$700,590
\$0 \$0 | | 28,894 \$743,472
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| 3 Reclamation Maintenance | (Cover/Reveg Repairs) | \$0 0% | \$0 | \$0 \$0 | | \$0 \$0 |) \$0
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| 4 Site Maintenance | | \$747,490 4% \$755
3 201 396 15% \$3 280 | | | | 31,836 \$32,473 | | \$0

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| 5 On-site Management
6 Transportation Costs | | 3,201,396 15% \$3,280
\$295,104 1% \$298 | ,699 \$1,140,2
,055 \$147,5 | 216 \$1,163,020
552 \$150,503 | \$319,391 \$32
\$0 | 25,778 \$332,294
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| Post Closure Costs Subtotal | \$ | 7,678,257 \$7,912 | ,752 \$2,303,3 | ,366 \$2,349,433 | \$1,065,205 \$1,08 | 86,509 \$1,108,239 | \$0 | \$0

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| Other Add-on Costs | Prese | ent Value % of Total Future Va | ue 2016 | 2017 | 2018 201 | 19 2020 | 2021 | 2022 2

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 | 2027 | 2028 20
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 | 2035
 | 2036 20 | 37 2038 | 3 2039 | 2040 | 2041 | 2042 | 2043 | 2044 2
 | 2045 2046 | 2116 212 | 4 2125 |
| 1 Contingency
2 Worker's compensation | 12% % of above costs \$4
0% (Included in labour rates) | 4,141,823 \$4,354
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| 3 Insurance | 2% % of above labour costs | \$139,371 \$146 | ,518 \$11,7 | 718 \$12,296 | \$40,102 \$5 | 50,146 \$32,257 | | \$0

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| 4 Bonding
5 Contractor Profit | | \$980,736 \$1,032
3,451,519 \$3,628 | | | | 6,792 \$233,769 | | \$0
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| 6 Contract Administration
Other Add-On Costs Subtotal | 5% % of above costs \$ | | | | | | |

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| Other Add-On Costs Subtotal | | 1,725,760 \$1,814 | | | \$496,558 \$62 | | | \$0

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| ΤΟΤΑΙ | • | 0,439,209 \$10,975 | ,939 \$864,3 | ,361 \$904,932 | \$496,558 \$62
\$3,013,795 \$3,76 | 9,968 \$2,422,883 | \$0 | \$0
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| NET PRESENT VALUE CALCULAT Monitoring Costs 1 Monitoring 2 A 5 B Post Closure Costs Subtotal Care and Maintenance Costs 1 Water Treatment 2 Reclamation Maintenance 5 On-site Management 6 Transportation Costs Post Closure Costs Subtotal Other Add-on Costs 1 Contingency 2 Worker's compensation 3 Insurance | \$44 IONS - LONG TERM MONITORING AND MAIN Water Quality Monitoring Sediment Monitoring Biological Monitoring Geotechnical Monitoring Annual Inspection Reporting Active System (Cover/Reveg Repairs) \$ Cover/Reveg Repairs) \$ S Undit 12% % of above costs 3% % of above costs 10% % of above costs \$ Soft % % % % % % % % % % % % % % % % % % % | 0.439,209 \$10,377 5,087,152 \$47,411 ITENANCE \$494,115 20% \$544,912 1% \$433,17 \$16,862,97% \$133 \$16,862,97% \$16,862,97% \$133 \$16,862,97% \$16,862,97% \$133 \$16,862,97% \$16,862,97% \$133 \$16,852,97% \$16,862,97% \$133 \$16,852,97% \$16,872,97% \$369 \$1,857,443,97% \$557,443,97% \$3,690 \$3,690 \$557,443,97% \$1,281 \$27,4760 \$1,842,451,77% \$57,643,97% \$1,281 \$550,200 4% \$3,691 \$1,842,451,77% \$9,622 \$36,902 \$502,202 \$4% \$1,281 \$502,203 \$41,2937 \$29,622 \$502,204 \$1,281 \$1,281 \$62,232 \$44 \$1,281 \$62,232 \$44 \$1,281 \$502,203 \$242,937 \$29,622 \$642,232 \$34,12,937 \$29,62 | 9:99 \$864,3 9:16 \$3,766,3 9:16 \$3,766,3 10:17 \$3,766,3 10:17 \$3,766,3 10:17 \$3,766,3 10:17 \$3,766,3 10:17 \$3,766,3 10:17 \$3,766,3 10:17 \$3,766,3 10:17 \$3,766,3 10:17 \$3,766,3 10:17 \$3,766,3 10:17 \$3,766,3 10:17 \$3,766,3 10:17 \$3,766,3 | 361 \$904,932 366 \$3,949,944 Year -1 2017 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 | \$496,558 \$62; \$3,013,795 \$3,76 \$12,944,952 \$16,18 Year 1 Yea 2018 20' \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 | \$9,968 \$2,422,883 \$8,599 \$10,411,244 r 2 Year 3 19 2020 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 | ¥ \$0 ¥ \$12,220 ¥ \$12,220 ¥ \$12,220 ¥ \$4,327 \$2,920 \$9,643 \$11,210 \$9,584 \$2,519 \$78,943 2021 \$202,165 \$202,1711 \$265,165 \$31,711 \$265,069 \$84,713 \$56,571 \$16,616,023 \$2021 2021 \$2021 \$2021 \$2021 \$84,713,973 \$84,713 | Year 5 Ye 2022 2 \$0 \$0 \$11,210 \$5 \$25,584 \$2,159 \$\$66,380 \$2 \$\$25,584 \$2,159 \$\$66,380 \$2 \$\$26,516 \$4 \$\$26,516 \$4 \$\$26,516 \$5 \$\$34,711 \$ \$\$265,651 \$ \$\$56,551 \$ \$\$16,616,023 \$1,1 \$\$2022 2 \$\$203,097 \$ \$\$0 \$ \$\$48,783 \$ \$\$14,873 \$ \$\$26,834 \$

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| NET PRESENT VALUE CALCULAT Monitoring Costs 1 Monitoring 2 3 4 5 5 6 Post Closure Costs Subtotal Care and Maintenance Costs 1 Water Treatment 2 3 4 5 5 On-site Management 6 Transportation Costs Post Closure Costs Subtotal Other Add-on Costs 1 Contingency 2 Worker's compensation 3 Insurance 4 Bonding 5 Contractor Profit | \$44 IONS - LONG TERM MONITORING AND MAIN Water Quality Monitoring Sediment Monitoring Biological Monitoring Geotechnical Monitoring Annual Inspection Reporting Active System (Cover/Reveg Repairs) \$ Cover/Reveg Repairs) \$ S Undit 12% % of above costs 3% % of above costs 10% % of above costs \$ Soft % % % % % % % % % % % % % % % % % % % | 0.439,209 \$10,97 5,087,152 \$47,411 ITENANCE scounted % of Total NPV - 20' \$694,115 20% \$43 \$15,105,105,105,105,105,105,105,105,105,1 | 9:99 \$864,3 9:16 \$3,766,3 6 2016 5:56 | 361 \$904,932 366 \$3,949,944 Year -1 2017 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 | \$496,558 \$62; \$3,013,795 \$3,76 \$12,944,952 \$16,18 Year 1 Yea 2018 20' \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 | \$9,968 \$2,422,883 \$8,599 \$10,411,244 r 2 Year 3 19 2020 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 | ¥ \$0 ¥ \$12,220 ¥ \$12,220 ¥ \$12,220 ¥ \$4,327 \$2,920 \$9,643 \$11,210 \$9,584 \$2,519 \$78,943 2021 \$202,165 \$202,1711 \$265,165 \$31,711 \$265,069 \$84,713 \$56,571 \$16,616,023 \$2021 2021 \$2021 \$2021 \$2021 \$84,713,973 \$84,713 | Year 5 Ye 2022 2 \$0 \$0 \$11,210 \$5 \$25,584 \$2,159 \$\$66,380 \$2 \$\$25,584 \$2,159 \$\$66,380 \$2 \$\$26,516 \$4 \$\$26,516 \$4 \$\$26,516 \$5 \$\$34,711 \$ \$\$265,651 \$ \$\$56,551 \$ \$\$16,616,023 \$1,1 \$\$2022 2 \$\$203,097 \$ \$\$0 \$ \$\$48,783 \$ \$\$14,873 \$ \$\$26,834 \$

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| Image: Net PRESENT VALUE CALCULAT Monitoring Costs 1 Monitoring 2 3 4 5 5 6 Post Closure Costs Subtotal Care and Maintenance Costs 1 Water Treatment 2 Reclamation Maintenance 4 Site Maintenance 5 On-site Management 6 Transportation Costs Post Closure Costs Subtotal Other Add-on Costs 1 Contingency 2 Worker's compensation 3 Insurance 4 Bonding 5 Contract Administration | \$44 IONS - LONG TERM MONITORING AND MAIN Water Quality Monitoring Sediment Monitoring Biological Monitoring Geotechnical Monitoring Annual Inspection Reporting Active System (Cover/Reveg Repairs) \$ Cover/Reveg Repairs) \$ S Undit 12% % of above costs 33% % of mbove costs 10% % of above costs \$ S% % % of above costs \$ S% % % % % % % % % % % % % % % % % % % | 0.439,209 \$10,377 5,087,152 \$47,411 ITENANCE \$494,115 20% \$544,912 1% \$433,17 \$16,862,97% \$133 \$16,862,97% \$16,862,97% \$133 \$16,862,97% \$16,862,97% \$133 \$16,862,97% \$16,862,97% \$133 \$16,852,97% \$16,862,97% \$133 \$16,852,97% \$16,872,97% \$369 \$1,857,443,97% \$557,443,97% \$3,690 \$3,690 \$557,443,97% \$1,281 \$27,4760 \$1,842,451,77% \$57,643,97% \$1,281 \$550,200 4% \$3,691 \$1,842,451,77% \$9,622 \$36,902 \$502,202 \$4% \$1,281 \$502,203 \$41,2937 \$29,622 \$502,204 \$1,281 \$1,281 \$62,232 \$44 \$1,281 \$62,232 \$44 \$1,281 \$502,203 \$242,937 \$29,622 \$642,232 \$34,12,937 \$29,62 | 9:99 \$864,3 9:16 \$3,766,3 6 2016 5:56 2016 7:78 | 361 \$904,932 366 \$3,949,944 Year -1 2017 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 | \$496,558 \$62; \$3,013,795 \$3,76 \$12,944,952 \$16,18 Year 1 Year 2018 20' \$0 \$0 2018 20' \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 | 99.968 \$2.422,883 88,599 \$10,411,244 r 2 r 2 Year 3 19 2020 \$0 \$0 \$0 \$0 19 2020 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 | ¥ \$0 ¥ \$12,220 ¥ \$12,220 ¥ \$12,220 \$34,327 \$52,920 \$9,643 \$51,1210 \$9,584 \$2,159 \$78,943 \$78,943 2021 \$2625,165 \$31,711 \$265,089 \$84,713 \$56,551 \$1,616,023 \$2021 \$2021 \$2021 \$2021 \$264,605 \$1,616,023 \$1,07,054 \$85,752 \$516,029 | Year 5 Ye 2022 2 \$0 \$0 \$11,210 \$5 \$25,584 \$2,159 \$\$66,380 \$2 \$\$25,564 \$2,2159 \$\$625,165 \$4 \$\$24,713 \$ \$\$25,564 \$\$55,794 \$\$55,671 \$\$ \$\$48,713 \$\$ \$\$56,561 \$\$ \$\$2022 2 \$\$203,097 \$\$ \$\$0 \$\$ \$\$2022 2 \$\$200,097 \$\$ \$\$0 \$\$ \$\$48,783 \$\$ \$\$14,616,023 \$\$1,1 \$\$25,03,097 \$\$ \$\$0 \$\$ \$\$10,248 \$\$ \$\$10,248 \$\$ \$\$14,624 \$\$ \$\$12,586 \$\$

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Worksheet 3 - Year 0 Estimate - Annual C&M Costs

Project:	Minto Mine Closure Cost Estimate - RCP Rev. 2016-01
Project No.:	1CM002.045
Client:	Minto Explorations Ltd.
Date of Submission:	August 5, 2016
File Location:	\\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\Cost Estimate\



Summary of Annual Care and Maintenance Costs

			Annual Co	ost Per Phase	9					Number of	f Years	
	1 - Interim	2 - Active	3 - PC 1	4 - PC 2	5 - Perpetual	n/a	Total Cost	1 - Interim	2 - Active	3 - PC 1	4 - PC 2	5 - Perpetual
1 Active Water Treatment System	\$686,853	\$686,853	\$686,853	\$88,509	\$0	\$0	\$7,753,625	2	3	5	10	0
2 Passive Treatment System	\$0	\$0	\$34,840	\$34,840	\$34,840	\$0	\$557,443	2	3	5	2	9
3 Reclamation Maintenance	\$0	\$0	\$291,247	\$0	\$0	\$0	\$1,456,236	2	3	5	2	9
4 Site Maintenance	\$328,745	\$30,000	\$93,072	\$93,072	\$98,994	\$0	\$2,289,941	2	3	5	2	9
5 On-site Management	\$1,140,216	\$306,988	\$607,341	\$80,156	\$178,791	\$0	\$8,007,528	2	3	5	2	9
6 Transportation Costs	\$147,552	\$0	\$62,131	\$20,000	\$66,617	\$0	\$1,245,310	2	3	5	2	9

NOTES: 1. This table is used as a check to the NPV calculation spreadsheet.

Phase 1 - Annual Care & Maintenance Costs - Prior to Closure

							Unit	Rates			Activ	ity Totals		Sub	totals	
						Material										
						Cost	Labour Rate	Equipment	Total Unit	Material		Equipmen				
	Facility/Area	Task	Activity	Qnty Unit	Hours	(\$/unit)	(\$/hr)	Rate (\$/hr)	Rate (\$/unit)	Cost	Cost	t Cost	Cost	WBS Level 2		Source / Comments
S1.1	Water Treatme														\$686,853	
S1.1.1	Active Treatme													\$686,853		
S1.1.1.1		Operation and maintenance		1 yr						\$496,900	\$63,744		\$598,344			See details on 'Water Treatment' worksheet.
S1.1.1.2			annual allowance	1 yr						\$84,400	\$4,109	\$0	\$88,509			See details on 'Water Treatment' worksheet.
	Onsite Manage														\$1,140,216	i
S1.2.1	Field Support S													\$750,335		
S1.2.1.1		Mine Manager		4 months			hours per month		\$23,366				\$81,781			(Notes: staffing costs include cross-shifts)
S1.2.1.2		Office/Camp manager		6 months			hours per month		\$22,227				\$133,364			
S1.2.1.3		Administrative Assistants/H		4 months			hours per month		\$16,214				\$56,749			
S1.2.1.4		Water Treatment Staff Ope		5 months			hours per month		\$18,491				\$92,457			
S1.2.1.5		Environmental/Safety Mana		4 months			hours per month		\$22,227				\$88,909			
S1.2.1.6		Environmental Technicians		7 months			hours per month		\$15,699				\$102,045			
S1.2.1.7		Mechanic		2 months			hours per month		\$17,349				\$34,697			
S1.2.1.8		Tradesmen		2 months			hours per month		\$18,491				\$41,606			
S1.2.1.9		General Labour/helpers		10 months	360	site working	hours per month		\$12,498				\$118,726			
S1.2.2	Field support V													\$122,281		
S1.2.2.1		Pick-up trucks (3 required)		12 months					\$4,518				\$54,214			
S1.2.2.2		Mechanic service vehicle		2 months					\$6,919				\$13,837			
S1.2.2.3		Emergency transport vehicl	e	12 months					\$4,519				\$54,229			
S1.2.3		quipment/Supplies												\$267,600		
S1.2.3.1		Office supplies		12 months					\$1,000				\$12,000			
S1.2.3.2		Communications		12 months					\$1,000				\$12,000			
S1.2.3.3		Misc. supplies		12 months					\$500				\$6,000			
S1.2.3		Camp Operation		1,995 man-day	s				\$80				\$159,600			
S1.2.3		Power, heat, fuel		12 months					\$6,500				\$78,000			
S1.3	Site Maintenar	nce												\$328,745	\$328,745	
S1.3.1		Equipment Maintenance		1 Is		\$20,000							\$20,000			Labour included in field support staff
S1.3.2		Road Maintenance	Grader (assume 80 hrs/month)	1 Is	960		\$43	\$92	\$136		\$41,613	\$88,525	\$130,138			Operator cost included in Field support staff
S1.3.3		Earthwork Repair allowance	e (assume 40 hrs per month)	1 Is	480	\$0	\$129	\$310	\$310			\$148,607	\$148,607			Task Code C.2.14
S1.3.4		Sundry equipment/consumation	ables allowance	1 Is					\$30,000				\$30,000			Allowance for pump maintenance/fuel etc.
S1.4	Transportation													\$147,552	\$147,552	
S1.4.1		Barge Operations		5 months					\$10,000				\$50,000			
S1.4.2		Staffing Bus trips during ba	rge operation period	20 ea					\$678				\$13,552			One per week
S1.4.3		Air transport and airstrip op	perations	8 flights					\$3,000				\$24,000			One flight per week
S1.4.4		Helicopter transport		20 flights					\$3,000				\$60,000			One flight per week
TOTAL													\$2,303,366	\$2,303,366	\$2,303,366	

Phase 2 - Annual Care & Maintenance Costs During Active Closure

								Unit I	ates			A at is	vity Totals		C	otals	
		2	-				Material	Unit i	ales			ACU	vity rotais		Subi	otais	
							Cost	Labour Rate	Equipment	Total Unit	Material	Labour	Equipmen				
WBS	Facility/Area	Task	Activity	Qnty	Unit	Hours	(\$/unit)	(\$/hr)	Rate (\$/hr)	Rate (\$/unit)	Cost	Cost	t Cost	Cost	WBS Level 2	WBS Level 1	Source / Comments
52.1	Water Treatme	nt	-													\$686,853	
52.1.1	Active Treatmer	nt System													\$686,853		
32.1.1.1		Operation and maintenance	3	1	yr						\$496,900	\$63,744	\$37,700	\$598,344			See details on 'Water Treatment' worksheet.
32.1.1.2		Capital Replacement	annual allowance	1	yr						\$84,400	\$4,109	\$0	\$88,509			See details on 'Water Treatment' worksheet.
2.2	Onsite Manage	ement														\$306,988	
2.2.1	Field Support Si	taff													\$244,163		
2.2.1.1		Water Treatment Staff Ope	rator	5	months	360	site working I	nours per month		\$18,491				\$92,457			
2.2.1.2		Environmental/Safety Mana	iger	4	months	360	site working I	nours per month		\$22,227				\$88,909			
2.2.1.3		Environmental Technicians		4	months	360	site working I	nours per month		\$15,699				\$62,797			
	Field support Ve	ehicles													\$31,625		
2.2.2.1		Pick-up trucks (1 required)		7	months					\$4,518				\$31,625			
2.2.3	Field Support E	quipment/Supplies													\$31,200		
32.2.3.1		Camp Operation		390	man-days					\$80				\$31,200			
2.3	Site Maintenan	ice													\$30,000	\$30,000	
2.3.1		Pumping equipment/consur	nables allowance	1	ls					\$30,000				\$30,000			Allowance for pump maintenance/fuel etc.
2.4	Transportation	Costs													\$0	\$0	
2.4.1		Barge Operations		0	months					\$10,000				\$0			Included in construction indirect costs
OTAL														\$1,023,842	\$1,023,842	\$1,023,842	

Phase 3 - Annual Care & Maintenance Costs - Post Closure I

							Unit	Rates			Activ	ity Totals		Sub	totals	
WBS	Facility/Area	Task	Activity	Qnty Unit	Hours or Cost Code Ref.	Material Cost (\$/unit)	Labour Rate (\$/hr)	Equipment Rate (\$/hr)	Total Unit Rate (\$/unit)	Material Cost	Labour Cost	Equipmen t Cost	Cost	WBS Level 2	WBS Level 1	Source / Comments
S3.1	Water Treatme	nt				1.1.1									\$721,694	1
S3.1.1	Active Treatment	nt System												\$686,853		
S3.1.1.1 S3.1.1.2		Operation and maintenance Capital Replacement	e annual allowance	1 yr 1 yr						\$496,900 \$84,400	\$63,744 \$4,109		\$598,344 \$88,509			See details on 'Water Treatment' worksheet. See details on 'Water Treatment' worksheet.
S3.1.1	Passive Treatm													\$34,840		
S3.1.1.1		Operation and maintenance	9	1 yr						\$10,000	\$11,706	\$13,134	\$34,840			See details on 'Water Treatment' worksheet.
S3.2	Onsite Manage														\$607,341	1
S3.2.1	Field Support S													\$372,340		
S3.2.1.1		Mine Manager		3 months			hours per month		\$23,366				\$58,415			(Notes: staffing costs include cross-shifts)
S3.2.1.2 S3.2.1.3		Office/Camp manager		3 months			hours per month		\$22,227				\$66,682			
		Administrative Assistants/H		1 months			hours per month		\$16,214				\$20,268			
S3.2.1.4		Water Treatment Staff Ope		2 months			hours per month		\$18,491				\$32,360			
S3.2.1.5 S3.2.1.6		Environmental/Safety Mana		3 months			hours per month		\$22,227				\$55,568			
S3.2.1.6 S3.2.1.7		Environmental Technicians Mechanic		3 months			hours per month		\$15,699				\$39,248			
S3.2.1.7 S3.2.1.8				2 months			hours per month		\$17,349				\$34,697			
		Tradesmen		2 months			hours per month		\$18,491				\$36,983			
S3.2.1.9	E . (1)	General Labour/helpers		2 months	360	site working	hours per month	1	\$12,498				\$28,119			
S3.2.2	Field support Ve													\$104,201		
S3.2.2.1 S3.2.2.2		Pick-up trucks (3 required)		15 months					\$4,518 \$6,919				\$67,768			
S3.2.2.2 S3.2.2.3		Mechanic service vehicle		2 months					\$6,919				\$13,837 \$22,596			
\$3.2.2.3 \$3.2.3	Field Owners of F	Emergency transport vehicl	le	5 months					\$4,519				\$22,596			
S3.2.3 S3.2.3.1	Field Support E	quipment/Supplies		5					64 000				6 5 000	\$130,800		
S3.2.3.1 S3.2.3.2		Office supplies		5 months					\$1,000				\$5,000			
S3.2.3.2 S3.2.3.3		Communications		5 months					\$1,000 \$500				\$5,000 \$2,500			
S3.2.3.3 S3.2.3		Misc. supplies		5 months												
		Camp Operation		1,073 man-day	'S				\$80				\$85,800			
S3.2.3		Power, heat, fuel		5 months					\$6,500				\$32,500			
S3.3 S3.3.1	Reclamation M	aintenance													\$291,247	
	Cover repairs						·							\$252,993		
S3.3.1.1		Cover Repair allowance	Load, haul, dump, spread (spoil lo	2% of total	1,098,885	m3 of cover	required replace	ment at:	\$4.96				\$108,956			Assumes 10% of area reseeded over 5 yr PC1 period
S3.3.1.2			Seed/Fertilize: broadcast seeding	55 ha					\$2,621.52	na			\$144,037			
S3.3.2.1	Revegetation													\$38,254		
S3.3.2.2		Reseeding allowance	Seed/Fertilize: broadcast seeding	5% of total	292	ha requires i	reseeding at		\$2,621.52	na			\$38,254			Assumes 25% of area reseeded over 5 yr PC1 peri
S3.3	Site Maintenan			4 14		600.000							600 000	\$93,072	\$93,072	
S3.3.1 S3.3.2		Equipment Maintenance	0	1 ls		\$20,000						640.470	\$20,000			Labour included in field support staff
		Road Maintenance	Grader (assume 40 hrs/month)	1 ls	200	s	\$43			\$0	\$8,669		\$27,112			Operator cost included in Field support staff
S3.3.3			e (assume 20 hrs per month)	1 ls	100	\$0	\$129	\$310				\$30,960	\$30,960			Task Code C.2.14
S3.3.4 S3.4		Sundry equipment/consuma	ables allowance	1 ls					\$15,000				\$15,000		£00.40	Allowance for pump maintenance/fuel etc.
	Transportation			0 mc-th-					610.000				£20.000	\$62,131	\$62,131	
S3.4.1 S3.4.2		Barge Operations	ran exerction period	3 months					\$10,000 \$678				\$30,000			One ner week
S3.4.2 S3.4.3		Staffing Bus trips during ba		12 ea 8 flights					\$678 \$3.000				\$8,131 \$24.000			One per week One flights per week
S3.4.3		Air transport and airstrip op	erations	8 riights		·			\$3,000			1			\$4 77E 40	
IOTAL													\$1,775,485	\$1,775,485	\$1,775,485	

Phase 4 - Annual Care & Maintenance Costs - Post Closure II

						ľ		Unit	Rates			Activ	ity Totals		Subt	otals	
						Hours or	Material										
						Cost Code	Cost	Labour Rate	Equipment	Total Unit	Material		Equipmen				
	Facility/Area	Task	Activity	Qnty	Unit	Ref.	(\$/unit)	(\$/hr)	Rate (\$/hr)	Rate (\$/unit)	Cost	Cost	t Cost	Cost	WBS Level 2		Source / Comments
S4.1	Water Treatme															\$123,349	
S4.1.1	Active Treatme														\$88,509		
S4.1.1.2			annual allowance	1	yr						\$84,400	\$4,109	\$0	\$88,509			See details on 'Water Treatment' worksheet.
S4.1.1	Passive Treatm														\$34,840		
S4.1.1.1		Operation and maintenance		1	yr						\$10,000	\$11,706	\$13,134	\$34,840			See details on 'Water Treatment' worksheet.
S4.2	Onsite Manage															\$80,156	5
S4.2.1	Field Support S														\$44,542		
S4.2.1.1		Project Manager			months			nours per month		\$23,366				\$11,683			(Notes: staffing costs include cross-shifts)
S4.2.1.2		Passive Treatment specialis	st		months			nours per month		\$42,120				\$21,060			
S4.2.1.3 S4.2.1.4		Mechanic			months			nours per month		\$17,349				\$8,674			
		General Labour/helpers		0.3	months	360	site working I	hours per month		\$12,498				\$3,124	\$17.014		
S4.2.2 S4.2.2.1	Field support V	Pick-up trucks (2 required)			months					\$4.518				\$9.036	\$17,014		
S4.2.2.1 S4.2.2.2		Mechanic service vehicle			months					\$4,518				\$9,036			
S4.2.2.2 S4.2.2.3		Emergency transport vehicle			months					\$6,919				\$4,519			
S4.2.2.3 S4.2.3		quipment/Supplies		1.0	monuns					\$4,519				\$4,519	\$18.600		
S4.2.3 S4.2.3.1		Office supplies			months					\$1,000				\$1.000	\$10,000		
S4.2.3.1 S4.2.3.2		Communications			months					\$1,000				\$1,000			
S4.2.3.2 S4.2.3.3		Misc. supplies			months					\$1,000				\$1,000			
S4.2.3		Camp Operation			man-davs					\$300				\$9,600			
S4.2.3		Power, heat, fuel			months					\$6,500				\$6,500			
	Reclamation M				monuna					φ0,000				φ0,000		\$0	
S4.3.1	Cover repairs														\$0		
S4.3.2	Revegetation														\$0		
S4.3	Site Maintenar	ice													\$28,903	\$28.903	
\$4.3.1		Equipment Maintenance (pa	arts, supplies)	1	ls		\$10.000							\$10.000	+======		Labour included in field support staff
\$4.3.2			Grader (assume 20 hrs/month)		ls	20		\$43	\$92	\$136	\$0	\$867	\$1,844	\$2,711			Operator cost included in Field support staff
S4.3.3		Earthwork Repair allowance	(assume 20 hrs per month)	1	Is	20	\$0		\$310			• • • •	\$6,192	\$6,192			Task Code C.2.14
S4.3.4		Sundry equipment/consuma		1	ls					\$10,000				\$10,000			Allowance for pump maintenance/fuel etc.
S4.4	Transportation														\$20,000	\$20,000	
\$4.4.1		Barge Operations		1	months					\$10,000				\$10,000			
S4.4.2		Staffing Bus trips during bar	ge operation period	0	ea					\$678				\$0			Pick-up trucks used (time included in labour rate)
S4.4.3		Barge mob/demob		1	LS					\$10,000				\$10,000			
TOTAL														\$252,408	\$252,408	\$252,408	

Phase 5 - Perpetual Care & Maintenance Event Year Annual Costs

						-		Unit	Rates			Activ	ity Totals		Sub	totals	
WBS	Facility/Area	Task	Activity	Qntv	Unit	Hours or Cost Code Ref.	Material Cost (\$/unit)	Labour Rate (\$/hr)	Equipment Rate (\$/hr)	Total Unit Rate (\$/unit)	Material Cost	Labour Cost	Equipmen t Cost	Cost	WBS Level 2	WBS Level 1	Source / Comments
S5.1	Water Treatme		Activity	any	Unit	Kei.	(ø/unit)	(\$/11)	Rate (\$/11)	Rate (ø/unit)	COSL	COSI	10051	COSI	WB3 Level 2	\$34.840	
S5.1.1	Passive Treatm														\$34.840		
S5.1.1.1		Operation and maintenance		1	vr			1			\$10.000	\$11.706	\$13,134	\$34.840	\$01,010		See details on 'Water Treatment' worksheet.
S5.2	Onsite Manage				<i>,</i> .											\$178.791	
S5.2.1	Field Support S														\$128,778		
S5.2.1.1		Project Manager		1.0	months	360 s	ite working l	hours per month		\$23,366				\$23.366	, ., .		(Notes: staffing costs include cross-shifts)
S5.2.1.2		Passive Treatment specialis	st	1.0	months	360 s	ite working I	hours per month		\$42,120				\$42,120			· · · · · · · · · · · · · · · · · · ·
S5.2.1.3		Site Engineer		1.0	months	360 s	ite working I	hours per month		\$42,120				\$42,120			
S5.2.1.4		HD mechanic		0.5	months	360 s	ite working I	hours per month		\$17,349				\$8,674			
S5.2.1.5		General Labour/helpers		1.0	months	360 s	ite working I	hours per month		\$12,498				\$12,498			
S5.2.2	Field support Ve	ehicles					-								\$17,013		
S5.2.2.1		Pick-up trucks (3 required)		3	months					\$4,518				\$13,554			
S5.2.2.2		Mechanic service vehicle		1	months					\$6,919				\$3,459			
S5.2.3	Field Support E	quipment/Supplies													\$33,000		
S5.2.3.1		Office supplies			months					\$1,000				\$1,000			
S5.2.3.2		Communications			months					\$1,000				\$1,000			
S5.2.3.3		Misc. supplies			months					\$500				\$500			
S5.2.3.4		Camp Operation			man-days					\$80				\$24,000			
S5.2.3.5		Power, heat, fuel		1	months					\$6,500				\$6,500			
S5.3	Reclamation M															\$0	
S5.4	Site Maintenan														\$98,994	\$98,994	
S5.4.1			Grader (assume 2 weeks, 10hrs/c		ls	140		\$43	\$92		\$0	\$6,069		\$18,978			Operator cost included in Field support staff
S5.4.2			e (assume 3 weeks, 10hrs/day)		ls	210	\$0	\$129	\$310				\$65,016	\$65,016			Task Code C.2.14
S5.4.3		Big Creek Bridge - Capital	replacement allowance		ls					\$15,000				\$15,000			Allowance for supplies, pumping, etc.
S5.4.4		Sundry allowance		1	ls					\$2,500				\$2,500			Allowance for supplies, pumping, etc.
S5.5	Transportation														\$66,617	\$66,617	
S5.5.1		Barge Operations	a dia di un		months					\$10,000				\$10,000			
S5.5.2 S5.5.3		Barge mobilization/demob a Camp Mob/demob	ina set up		ls					\$10,000				\$10,000 \$10,000			assumed
S5.5.3 S5.5.4		Camp Mob/demob Equipment mobilization and	demobilization		ls Is					\$10,000 \$18,308				\$10,000 \$36.616.67			assumed See details on 'mob-demob 'worksheet
S5.5.4 TOTAL	1	Equipment mobilization and	demobilization	2	IS	I I		1		\$18,308				\$36,616.67 \$381.742	\$379.242	\$379.242	
IUTAL														\$381,742	\$379,242	\$379,242	

Worksheet 4 - Year 0 Estimate - Implementation Costs

Minto Mine Closure Cost Estimate - RCP Rev. 2016-01 1CM002.045 Minto Explorations Ltd. August 5, 2016 WAN-SVR0/Projects/01_SITES/Winto/1CM002.045_Clo

Project: Project No.: Client: Date of Submission: File Location:

SITES\Minto\1CM002.045_ClosureCosts\Cost Estimate\

A2.3.1 A2.3.2	Location:	\\VAN-SVR0\Projects\01_S	ITES\Minto\1CM002.045_ClosureCosts\Cost Estimate\			Labour	E	quipment		Fuel		Mat	terial	Acti	vity Totals	S	ubtotals	
Net of the set of the					Cost					Consumed								
Model Model <t< th=""><th></th><th>n Task</th><th>Activity</th><th>Qnty Unit</th><th></th><th>Total Mhrs Unit Rate</th><th>Cost Unit Rate</th><th>e Cost</th><th></th><th></th><th>Cost L</th><th>Jnit Rate</th><th>Cost</th><th>Unit Rate</th><th>Cost</th><th>WBS Level 2</th><th>WBS Level 1</th><th>Source / Comments</th></t<>		n Task	Activity	Qnty Unit		Total Mhrs Unit Rate	Cost Unit Rate	e Cost			Cost L	Jnit Rate	Cost	Unit Rate	Cost	WBS Level 2	WBS Level 1	Source / Comments
Normal		ne															\$7 003 181	
No. No. <td></td> <td>\$1,508,793</td> <td></td> <td></td>																\$1,508,793		
Image: sector		Regrade											\$0 \$0					
1 1		Cover																
Image: model in the section of the sectin of the section of the section of the section of the s	.2.2		Slope area cover material: Load, haul, dump along crest	147,753 Cm3	R.046	2,411.9 \$0.70	\$103,623 \$1.8	4 \$271,766	\$0.80	122,577	\$117,674	\$0.00	\$0	\$3.34	\$493,063			
1000 Non-2000 Non-2000 <td< td=""><td></td><td>Revegetate</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>÷ -</td><td></td><td></td><td></td><td></td><td></td></td<>		Revegetate											÷ -					
No. Mark frame mark	.3.2		Tree seedling application (1,000 stems/ha)															
1 1				60 bro	C 2 12	60.4 \$42.25	\$2,610,22 \$105.1	1 \$11.700	\$67.01	1 210	\$4,040,07	\$0.00	\$0.00	\$205.46	¢10 /50	\$1,457,834		
		-			R.053													
Norw Norw <th< td=""><td></td><td>Revegetate</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>		Revegetate																
No.10 No.00 Reade Reade <th< td=""><td></td><td>ump High-Grade Waste</td><td>Tree seedling application (1,000 stems/na)</td><td>62.76 ha</td><td>C.6.06</td><td>3,216.6 \$1,789.95</td><td>\$112,340.90 \$9.0</td><td>2 \$566</td><td>\$15.00</td><td>981</td><td>\$941.43</td><td>\$460.50</td><td>\$28,901.93</td><td>\$2,274.47</td><td>\$142,751</td><td>\$1,255,412</td><td></td><td></td></th<>		ump High-Grade Waste	Tree seedling application (1,000 stems/na)	62.76 ha	C.6.06	3,216.6 \$1,789.95	\$112,340.90 \$9.0	2 \$566	\$15.00	981	\$941.43	\$460.50	\$28,901.93	\$2,274.47	\$142,751	\$1,255,412		
N 31 Conce Subsergent Mode of Subsergent Subse	5.1.1																	
1 22 2		Cover Surface preparation																
1311 Core Bitle - Say and risk - Sa	3.2.2			41,485 m2	C.2.06	128.5 \$0.11	\$4,461.32 \$0.0	6 \$2,595	\$0.03		\$1,274.84	\$0.00	\$0.00	\$0.20	\$8,331			
NA32 NA32 <th< td=""><td></td><td>Cover</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>		Cover																
Name Base was and manual generation was and main Top of the set		Cover			R.054													
Name																		
13-12 13-12 <th< td=""><td></td><td>Revegetate</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>		Revegetate																
Alter Package of Package o	3.4.2		Tree seedling application (1,000 stems/ha)															
H +1 1 Manual for Marketing APT				1 040 000 Cm	R 004	12 097 2 \$0 50	\$520.038.33 \$1.3	4 \$1 396 066	\$0.57	614 838	\$590 244 43	\$0.00	\$0.00	\$2 41	\$2 506 349	\$3,178,849		
M.4.2 M.2.2 M.2.2 M.2.2 M.2.3 M.2.3 <th< td=""><td></td><td></td><td></td><td></td><td>R.004</td><td>349.0 \$0.50</td><td></td><td>4 \$40,271</td><td>\$0.57</td><td></td><td></td><td></td><td>\$0.00</td><td></td><td></td><td></td><td></td><td></td></th<>					R.004	349.0 \$0.50		4 \$40,271	\$0.57				\$0.00					
M A13 Drow Fight message memory land hash, alway growth 65,488 0,70		Regrade																
M.A.2.3 Boy ensure		Cover																
M.4.4.6 Perspective Perspective C.6.0 G.6.0 S.0.00 S.0.																		
At 44.9 The solution (1.00) (0000000) 24.00 57.00 <		Revegetate																
Math Convex minipue minipue minipue minipue contraines Minipue minipue minipue contraines Minipue minipue minipue contraines Minipue minipue minipue minipue contraines Minipue minipue minipue minipue contraines Minipue minipue minipue minipue minipue contraines Minipue minipue minipue minipue contraines Minipue minipue minipue minipue minipue contraines Minipue minipue minipue minipue minipue contraines Minipue minipue minipue contraines Minipue minipue minipue contraines Minipue minipu	.4.2																	
Al.2.1 Regrate Rescanse lenges is term iming damage addresses Using is a 2,33 C/2.2 SUB_200 SUB_			Waste Rock fill: Load, haul, dump spread	0 m3	P 037	0.0 \$0.95	\$0.00 \$2.5	2 60	\$1.04	0	\$0.00	\$0.00	\$0.00	\$4.50	\$0	\$502,293		
A1.5.1 Oracle Prior score material Look Lung spread F/A2 min Roop and score material Look Lung spread F/A2 min Roop and score material Look Lung spread F/A2 min Roop and score material Look Lung spread F/A2 min Roop and score material Look Lung spread Roop and score material Look L	5.2.1		Flat areas: Re-grade to form tertiary drainage catchments		C.2.13		\$7,042.24 \$195.1			11,340				\$305.46	\$49,626			
11.5.2 Provinci Normalize Space and cover material: Loca hand, durpe along readers Space and cover		Cover																
N1.4.1 Revenue Sinter Funice transform (17,4) has 6,20 97,70,90 53,70 53,70 <t< td=""><td></td><td>Cover</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		Cover																
11.15.2 11.1																		
Act Overbruchen Dungs Neumanne		Revegetate																
V22.1.1 Re-grade Re-grade bit Pile areas: Re-grade to both other stray drainage catchments 0 hr C.2.13 0.00 94.335 95.000 950.00 95.000 95.00.6 95.00.6 95.00.6 95.00.6 950.00 95.00.6 9		Dumps	······································										, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	* _,			\$340,650	
Alg.1.2 March Berm, Regrade 13 411 vor fitter March O No. Status			Elatorada De grade to form tertion, drainage estelemente	0 hrs	0 2 4 2	0.0 \$42.25	\$0.00 \$105.1	1 60	\$67.01	0	\$0.00	£0.00	\$0.00	\$205 46	03	\$0		
Q2.12.1 Regrande magnetizes (model angle lices) (model starshift) Description (model starshift) Control (model starshift) Starshift <		Re-grade								0					• •			
Accord Low Month Low Month <thlow month<="" th=""> <thlow month<="" th=""> <thlow< td=""><td></td><td>Revegetate</td><td>Seed/Fertilize: broadcast seeding</td><td></td><td></td><td></td><td>\$0.00 \$397.1</td><td>1 \$0</td><td></td><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thlow<></thlow></thlow>		Revegetate	Seed/Fertilize: broadcast seeding				\$0.00 \$397.1	1 \$0		0								
V2.2.1.1 Parameter Parameter <th< td=""><td></td><td>burden Dump</td><td>Tree seedling application (1,000 stems/ha)</td><td>0 ha</td><td>C.6.06</td><td>0.0 \$1,789.95</td><td>\$0.00 \$9.0</td><td>2 \$0</td><td>\$15.00</td><td>0</td><td>\$0.00</td><td>\$460.50</td><td>\$0.00</td><td>\$2,274.47</td><td>\$0</td><td>\$13 505</td><td></td><td></td></th<>		burden Dump	Tree seedling application (1,000 stems/ha)	0 ha	C.6.06	0.0 \$1,789.95	\$0.00 \$9.0	2 \$0	\$15.00	0	\$0.00	\$460.50	\$0.00	\$2,274.47	\$0	\$13 505		
Q2.2.1 Redurgenate Seed/Feature baseding application (1.000 stems/ha) Q2.76 ha C.6.01 91.4 \$1.789.50 \$2.77.36 S00.5 \$2.77.36 \$2.77.36 \$2.77.36	2.1.1									0						\$10,000		
V2.2.2 V Tree seeding application (1,000 stems/ha) 2.76 ha C.6.06 141.4 \$1,789.65 \$4,937.22 \$51.00 43 \$41.37 \$460.50 \$1,270.20 \$2,274.47 \$58.274 \$52.774.85 \$50.00		Revegetate	5							0					÷-			WR Berm area included in Southwest Dump
Name Regrade Flat areas: Regrade to form tertiary drainage catchments 54 hrs C.2.13 593.6 \$43.35 \$25,729.80 \$195.11 \$57.01 41,432 \$39,774.35 \$0.00 \$30.06 \$30.00 \$50.00 <th< td=""><td></td><td>1.0vegetate</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>		1.0vegetate																
A2.1.2 Normal Super-Regrate to 3H-1V or flatter Assumes borrow removed in such a manner the resioning is not required. A2.3.2.1 Revegetate Steed/Fertilize: broadcast seeding application (1,000 stems/ha) 29.79 ha C.6.06 196.7 \$1005.46 \$22.948.38 \$397.11 \$11.828 \$232.24 7.228 \$6.398.40 \$586.00 \$20.376.4 \$57.70 7.00 \$2.671.52 \$77.00 H 70 \$10.838.40 \$98.00 \$2.42.12 \$4.46.79 </td <td>, reolandalon (</td> <td></td> <td>Elat prope: Do grado to form tertion: designed actabacets</td> <td>504 k</td> <td>0.0.40</td> <td>502 6 642 05</td> <td>\$25 720 PD \$405 4</td> <td>1 0115 014</td> <td>\$67.04</td> <td>44 400</td> <td>¢20 774 25</td> <td>¢0.00</td> <td>¢0.00</td> <td>\$205 AC</td> <td>\$404 04F</td> <td>\$327,145</td> <td></td> <td></td>	, reolandalon (Elat prope: Do grado to form tertion: designed actabacets	504 k	0.0.40	502 6 642 05	\$25 720 PD \$405 4	1 0115 014	\$67.04	44 400	¢20 774 25	¢0.00	¢0.00	\$205 AC	\$404 04F	\$327,145		
A23.1 Normal Mark Specific Mark O hrs C.13 0.0 \$43.35 \$50.00 \$11.28 \$50.00 \$5		re-grade	rial areas. Re-grade to form tertiary drainage catchments	594 nrs	0.2.13	ວ 9 3.0 \$43.35	ຈ∠ວ,7∠9.80 \$195.1	ຈາກ5,811	\$07.01	41,432	JJ9,774.35	ΦU.00	Φ 0.00	∂3∪5 .46	\$181,315			Assumes borrow removed in such a manner that significant
A2.3.2 N Tree seeding application (1,000 stems/ha) 29.79 h C.6.06 1,526.5 \$53,314.89 \$9.02 \$260 \$1.00 \$460.50 \$1,716.31 \$2,274.47 \$67,777 \$60,00 \$50,00 \$60,00<										0								
Alge top Number of the south Backfill Dump Nump Number of the south Backfill Dump <td></td> <td>Revegetate</td> <td></td>		Revegetate																
A3.1 High and Medium Grade Sulphide Ore Stockpile (South of Mill) Ore Load, haul, dump, spread into Main Pit 110,942 mask models ma	Ridgetop Sou		······································	20110110	5.0.00	.,	φ	\$200	÷.0.00		÷	+	÷,. 10.01	,_,_,	<i>401,141</i>	\$0		
X3.1.1 Relocate to Pit Ore: Load, haul, dump, spread into Main Pit 110,942 m3 R.039 1,305.1 \$0.51 \$56,149.51 \$1.40 \$\$155,596 \$0.57 66,336 \$63,682.94 \$0.00 \$2.48 \$275,428 \$2176,228 V3.1.1.2 Ore Pads (over-excavate): Load, haul, dump spread into Main Pit 71,007 m3 R.039 83.53 \$0.51 \$35,032.83 \$1.40 \$\$99,587 \$0.57 42,458 \$40,790.00 \$2.48 \$\$176,224 \$\$176,224 \$\$13,02.1 \$\$18,470.00 \$\$18,470.00 \$\$18,470.00 \$\$2.48 \$\$18,020 \$\$2.48 \$\$176,224 \$\$18,51.11 \$\$18,020 \$\$18,727 \$\$1,025.11 \$\$18,55,596 \$\$0.77 \$\$2,000 \$\$0.00 \$\$2.48 \$\$2,150.2 \$\$30,577 \$\$1,025.41 \$\$18,700.00 \$\$2.48 \$\$2,169.30 \$\$2.48 \$\$2,169.30 \$\$2.48 \$\$2,169.30 \$\$2.48 \$\$2,169.30 \$\$2.48 \$\$2,169.30 \$\$2.48 \$\$2,169.30 \$\$2.48 \$\$2,169.30 \$\$2.48 \$\$2,169.30 \$\$2.48 \$\$2,169.30 \$\$2.48 \$\$2,169.30 \$\$2.48 \$\$2,169.30 \$\$2.48 \$\$2,169.30 \$\$2.48 \$\$2,169.30 <td></td> <td></td> <td>almita (South of Mill)</td> <td></td> <td>¢007.0.10</td> <td></td> <td>(North West Fast and South Starling)</td>			almita (South of Mill)													¢007.0.10		(North West Fast and South Starling)
A3.1.1.2 A3.1.3 Ore Pads (over-excavate): Load, haul, dump spread into Main Pit 71,007 m3 R.039 835.3 \$0.51 \$35,937.83 \$1.40 \$99,587 \$0.57 42,458 \$40,759.51 \$0.00 \$2.48 \$176,284 \$176,284 A3.1.1.3 A3.1.21 Re-grade Flat areas: Re-grade to form tertiary drainage catchments 229 hrs \$2.30 \$31.43 \$1.25 \$17,776 \$0.00 \$10.00 \$10.00 \$31.47.00 \$22.48 \$31.47.00 \$22.48 \$31.47.00 \$22.48 \$31.47.00 \$22.48 \$31.47.00 \$22.48 \$31.47.00 \$21.52 \$30.00 \$31.00 \$30.00 \$31.00 \$30.00 \$31.47.00 \$20.48 \$30.00				110.942 m3	R.039	1,305.1 \$0.51	\$56,149.51 \$1.4	0 \$155.596	\$0.57	66.336	\$63,682.94	\$0.00	\$0.00	\$2.48	\$275.428	\$897,943		(North, West, East, and South Stockpiles)
A3.1.2.1 Re-grade Flat areas: Re-grade to form tertiary drainage catchments 289 hrs C.2.13 289.4 \$43.35 \$12,542.60 \$19,511 \$56,455 \$67.01 20,197 \$19,388.95 \$0.00 \$305.46 \$88,386 \$88,386 A3.1.3.1 Cover Cover material: Load, haul, dump spread (0.5m) 69,653 m3 R.049 1,264.9 \$0.76 \$14,006.76 \$23.24 \$305.46 \$20.00 \$50.00 \$51,77.97 \$90.00 \$305.46 \$88,386 \$259,062 \$259,062 \$31.41 \$31.42 \$31.43 \$60.67 \$13.93 ha C.6.01 461.5 \$1,005.46 \$14,006.76 \$397.11 \$5,532 \$23.249 \$3,800 \$13,735.65 \$2,621.52 \$36,612 \$34.40.57 \$90.00 \$13,93 \$1,89.95 \$90.01 \$13,78.65 \$2,621.52 \$36,612 \$34.40.67 \$90.01 \$13,78.95 \$20.01 \$21,789.95 \$10.05.46 \$14,006.76 \$91.11 \$5,532 \$23.24.91 \$21,89.00 \$13,735.65 \$2,21.24 \$31,680 \$2,61.52 \$31,680 \$2,61.52 \$31,680 \$2,61.52 \$31,680 \$2,61.52 \$31,680 <td>.1.2</td> <td></td> <td>Ore Pads (over-excavate): Load, haul, dump spread into Main Pit</td> <td>71,007 m3</td> <td>R.039</td> <td>835.3 \$0.51</td> <td>\$35,937.83 \$1.4</td> <td>0 \$99,587</td> <td>\$0.57</td> <td></td> <td>\$40,759.51</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$2.48</td> <td>\$176,284</td> <td></td> <td></td> <td></td>	.1.2		Ore Pads (over-excavate): Load, haul, dump spread into Main Pit	71,007 m3	R.039	835.3 \$0.51	\$35,937.83 \$1.4	0 \$99,587	\$0.57		\$40,759.51	\$0.00	\$0.00	\$2.48	\$176,284			
Value Cover Cover material: Load, haul, dump spread (0.5m) 69,653 m3 R.049 1,264.9 \$0.78 \$54,405.56 \$2.08 \$145,079 \$0.00 \$59,577.97 \$0.00 \$3.72 \$259,062 \$3.72 \$259,062 \$3.72 \$3.74.0 \$3.74.1 \$3.14.2 Tree seeding application (1,000 stems/ha) 13.93 ha C.6.01 461.5 \$1.005.46 \$397.11 \$5.532 \$232.94 3.38 \$3.245.07 \$986.00 \$13.735.65 \$2.621.52 \$36.520 \$36.72 \$36.520 <td></td> <td>Re-grade</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0 20 197</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		Re-grade								0 20 197								
A3.1.4.2 Tree seeding application (1,000 stems/ha) 13.93 ha C.6.06 713.9 \$1,789.95 \$24,935.21 \$9.02 \$126 \$15.00 218 \$208.96 \$460.50 \$6,415.08 \$2,274.47 \$31,685 \$216,934 A3.2.1.1 Low Grade Sulphide Ore Stockpile (Main Dump Area) Non-trian to the stockpile (Main Dump Area) Non-trian to the stockpile (Main Dump Area) Non-trian to the stockpile (Main Dump Area) \$216,934 </td <td>.3.1</td> <td></td> <td>Cover material: Load, haul, dump spread (0.5m)</td> <td>69,653 m3</td> <td>R.049</td> <td>1,264.9 \$0.78</td> <td>\$54,405.56 \$2.0</td> <td>8 \$145,079</td> <td>\$0.86</td> <td>62,060</td> <td>\$59,577.97</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$3.72</td> <td>\$259,062</td> <td></td> <td></td> <td></td>	.3.1		Cover material: Load, haul, dump spread (0.5m)	69,653 m3	R.049	1,264.9 \$0.78	\$54,405.56 \$2.0	8 \$145,079	\$0.86	62,060	\$59,577.97	\$0.00	\$0.00	\$3.72	\$259,062			
A3.2 Low Grade Sulphide Ore Stockpile (Main Dump Area) A Kall		Revegetate																
A3.2.1.1 Relocate to Pit Ore: Load, haul, dump, spread into Main Pit 46,329 m3 R.032 586.0 \$0.54 \$25,189.62 \$1.46 \$67,623 \$0.62 29,782 \$28,590.27 \$0.00 \$2.62 \$121,403 A3.2.1.2 Ore: Pad (over-excavate): Load, haul, dump spread into Main Pit 31,316 m3 R.032 396.1 \$0.54 \$17,026.77 \$1.46 \$45,709 \$0.00 \$20.01 \$10.00 \$2.62 \$82,061 A3.2.1.3 Complete confirmation testing 626 ea C.3.02 104.3 \$7.27 \$4,4549.87 \$1.25 \$783 \$0.00 \$0.00 \$8,138.00 \$21.52 \$13,470		Sulphide Ore Stockpile (Main L		13.93 na	0.6.06	13.9 \$1,789.95	φ∠4,935.∠1 \$9.0	2 \$126	ງ ຈາວ.00	218	\$∠U8.96	940U.5U	JU,415.08	₽∠,∠14.41	\$31,685	\$216,934		
A3.2.1.3 Complete confirmation testing 626 ea C.3.02 104.3 \$7.27 \$4,549.87 \$1.25 \$783 \$0.00 0 \$0.00 \$13.00 \$8,138.00 \$21.52 \$13,470	2.1.1		Ore: Load, haul, dump, spread into Main Pit															
										20,131 0								
X3.2.2.1 Re-grade Flat areas: Re-grade to form tertiary drainage catchments 0 hrs C.2.13 0.0 \$43.35 \$0.00 \$195.11 \$0 \$0.00 \$0.00 \$305.46 \$0 Included in Main Waste Dump Closure		Re-grade	Flat areas: Re-grade to form tertiary drainage catchments	0 hrs	C.2.13	0.0 \$43.35	\$0.00 \$195.1			0	\$0.00	\$0.00	\$0.00		\$0			Included in Main Waste Dump Closure



					Li	abour		Equi	oment		Fuel		Mat	terial	Activit	y Totals	Su	btotals	
				Cost						c	Consumed								
BS Facility/Area		Activity	Qnty Units	Code	Total Mhrs Unit			Unit Rate		Init Rate	(L)		Unit Rate		Unit Rate	Cost	WBS Level 2	WBS Level 1	Source / Comments
2.3.1 2.4.1	Cover Revegetate	Cover material: Load, haul, dump spread Seed/Fertilize: broadcast seeding	0 m3 0 ha	R.045 C.6.01	0.0 \$	\$0.80 05.46	\$0.00 \$0.00	\$2.14 \$397.11	\$0 \$0	\$0.88 \$232.94	0	\$0.00 \$0.00		\$0.00 \$0.00		\$0 \$0			Included in Main Waste Dump Closure Included in Main Waste Dump Closure
2.4.2	Revegetate	Tree seedling application (1,000 stems/ha)	0 ha	C.6.06	0.0 \$1,78		\$0.00	\$9.02	\$0 \$0	\$15.00	0	\$0.00		\$0.00		\$0 \$0			Included in Main Waste Dump Closure
Open Pits																		\$38,79	7
Main Pit	0		7.500	0.0.00	00.5	00.40	01 005 00	0 0 40	* 0.070	00.40	4.040	A4 005 07	6 0.00	* 0.00	* 0.70	6 5 04 4	\$14,595		
.1.1 .1.2	Secure Access	Safety Berm: Clear land around highwall perimeter (10m width) Safety Berm: Construct around highwall perimeter	7,500 m2 4,860 m3	C.2.03 C.2.02		\$0.16 \$0.41	\$1,235.88 \$1,987.42	\$0.49 \$0.77	\$3,673 \$3,720	\$0.13 \$0.25	1,048 1,267	\$1,005.87 \$1,215.92	\$0.00 \$0.00	\$0.00 \$0.00		\$5,914 \$6,924			
.1.2		Place large boulders across any pit access points	4,800 m3	R.001		\$1.36	\$70.51	\$2.70	\$141	\$0.23	49	\$46.76		\$0.00		\$258			
.1.4		Allowance: Install warning signs around pit perimeter at key locations	6 ea	C.5.13		39.33	\$235.97	\$9.61	\$58	\$5.57	35	\$33.39		\$1,172.12		\$1,499			
2 Area 2 Pit																	\$8,071		
2.1.1 2.1.2	Secure Access	Safety Berm: Clear land around highwall perimeter (10m width) Safety Berm: Construct around highwall perimeter	300 m2 4,357 m3	C.2.03 C.2.02		\$0.16 \$0.41	\$49.44 \$1,781.58	\$0.49 \$0.77	\$147 \$3,335	\$0.13	42 1,135	\$40.23 \$1,089.98		\$0.00 \$0.00	\$0.79 \$1.42	\$237 \$6,207			
2.1.2		Place large boulders across any pit access points	4,357 m3 26 m3	R.001		\$0.41 \$1.36	\$35.25	\$0.77	\$3,335 \$70	\$0.25 \$0.90	24	\$1,069.96 \$23.38		\$0.00		\$129			
2.1.4		Allowance: Install warning signs around pit perimeter at key locations	6 ea	C.5.13		39.33	\$235.97	\$9.61	\$58	\$5.57	35	\$33.39		\$1,172.12		\$1,499			
Area 118 Pit																	\$5,207		
3.1.1	Secure Access	Safety Berm: Clear land around highwall perimeter (10m width)	2,580 m2	C.2.03		\$0.16	\$425.14	\$0.49	\$1,263	\$0.13	360 374	\$346.02		\$0.00	\$0.79	\$2,035			
3.1.2 3.1.3		Safety Berm: Construct around highwall perimeter Place large boulders across any pit access points	1,435 m3 26 m3	C.2.02 R.001		\$0.41 \$1.36	\$586.76 \$35.25	\$0.77 \$2.70	\$1,098 \$70	\$0.25 \$0.90	24	\$358.99 \$23.38		\$0.00 \$0.00		\$2,044 \$129			
3.1.4		Allowance: Install warning signs around pit perimeter at key locations	4 ea	C.5.13		39.33	\$157.31	\$9.61	\$38	\$5.57	23	\$22.26		\$781.42		\$999			
Minto North	Pit																\$10,924		
l.1.1	Secure Access	Safety Berm: Clear land around highwall perimeter (10m width)	5,900 m2	C.2.03		\$0.16	\$972.22	\$0.49	\$2,889	\$0.13	824	\$791.29		\$0.00	\$0.79	\$4,653			
k.1.2 k.1.3		Safety Berm: Construct around highwall perimeter Place large boulders across any pit access points	3,610 m 26 m3	C.2.02 R.001		\$0.41 \$1.36	\$1,476.37 \$35.25	\$0.77 \$2.70	\$2,764 \$70	\$0.25 \$0.90	941 24	\$903.25 \$23.38		\$0.00 \$0.00		\$5,143 \$129			
l.1.4		Allowance: Install warning signs around pit perimeter at key locations	4 ea	C.5.13		39.33	\$157.31	\$9.61	\$38	\$5.57	24	\$23.36		\$781.42	\$249.86	\$999			
	nd Openings																	\$25,66	1
Minto South	i i i i i i i i i i i i i i i i i i i																\$15,185		
.1.1	Seal portal	Load, Haul, Dump backfill plug	2,588 m3	R.001		\$1.36	\$3,508.32	\$2.70	\$6,993	\$0.90	2,423	\$2,326.51	\$0.00	\$0.00		\$12,828			Material sourced from nearby laydown area rockfill
.1.2	Povogotato	Doze backfill plug into portal with small dozer	16 hrs	C.2.19	0.0 \$4	43.35	\$706.93	\$77.93	\$1,271	\$23.28	395	\$379.66	\$0.00	\$0.00	\$144.56	\$2,358			
2. Area 118 Ve	Revegetate	Included in Yards (WBS No. A11-10)														4 0	\$10,476		
2.1.1	Site Preparation	Removal of Heater/Fan included in Demolition														\$0	••••		
2.1.2		Excavate and clean perimeter around shaft to suitable material.	4 ea	C.8.01		82.07	\$328.29	\$15.83	\$63	\$6.83	28	\$27.33		\$0.00		\$419			
.2.1	Concrete Cap installation	Structural steel - Supply and install I-Beam structural support	8 m	C.8.02		49.04	\$392.34	\$16.11	\$129	\$6.05	50	\$48.37		\$126.16	\$86.97	\$696			
2.2.2 2.2.3		Formwork: Supply and install concrete ring-wall formwork Ringwall Rebar: supply and install	8 m2 32 m	C.8.03 C.8.05		02.50 \$1.24	\$2,419.98 \$39.84	\$0.00 \$0.00	\$0 \$0	\$0.00 \$0.00	0	\$0.00 \$0.00		\$27.76 \$105.71	\$305.97 \$4.55	\$2,448 \$146			
2.2.4		Concrete slab: supply and install	8.6 m3	C.8.06		21.82	\$2,780.48	\$10.75	\$93	\$3.50	31	\$30.21	\$378.65	\$3,271.53	\$714.72	\$6,175			Includes slab formwork, rebar, finishing.
2.2.5		Vent Raise Pipe Supply and install	1 ea.	C.8.07		17.36	\$17.36	\$0.00	\$0	\$0.00	0	\$0.00		\$451.59	\$468.95	\$469			,, j
2.3.1	Backfill cap area	Backfill: Load, haul, dump, place over concrete cap	25 m3	R.001	0.8	\$1.36	\$33.90	\$2.70	\$68	\$0.90	23	\$22.48	\$0.00	\$0.00	\$4.96	\$124			
	ailings Facilities																	\$583,14	3
Dry Stack Ta	ailings Storage Facility Waste Rock Shell	Regrade WR shell slopes to 4H:1V	13 hrs	C.2.13	13.2 \$4	43.35	\$574.19	\$195.11	\$2,584	\$67.01	925	\$887.61	\$0.00	\$0.00	\$305.46	\$4,046	\$583,143		
.1.2	Waste Rock Offen	Cover material: Load, haul, dump spread (0.5m)	26,479 m3	R.043		\$0.84	\$22,117.71	\$2.23	\$58,980	\$0.91	25,230	\$24,220.47		\$0.00		\$105,318			
.1.3		Scarify surface	0 m2	C.2.16		\$0.03	\$0.00	\$0.06	\$0	\$0.02	0	\$0.00		\$0.00		\$0			
.1.4		Seed/Fertilize: broadcast seeding	5.30 ha	C.6.01	175.4 \$1,00		\$5,324.64	\$397.11	\$2,103	\$232.94	1,285	\$1,233.61		\$5,221.58		\$13,883			
.1.5		Tree seedling application (1,000 stems/ha)	5.30 ha	C.6.06	271.4 \$1,78	89.95	\$9,479.06	\$9.02	\$48	\$15.00	83	\$79.44	\$460.50	\$2,438.68	\$2,274.47	\$12,045			
.2.1	Fill Area at south end of DS	S Load, haul, dump, spread	30,300 Cm3	R.001	954.9	\$1.36	\$41,082.96	\$2.70	\$81,887	\$0.90	28,379	\$27,243.79	\$0.00	\$0.00	\$4.96	\$150,214			Fill from TDD road and/or unsuitable DSTSF cover mate
.3.1	Tailings surface	Regrade tailings area south of the tailings	3 hrs	C.2.13		43.35	\$139.70	\$195.11	\$629	\$67.01	225	\$215.96		\$0.00		\$984			
.3.2	-	Regrade surface to form tertiary drainage catchments	0 hrs	C.2.13	0.0 \$4	43.35	\$0.00	\$195.11	\$0	\$67.01	0	\$0.00	\$0.00	\$0.00	\$305.46	\$0			
.3.3 .3.4		Cover: Excavate unsuitable temporary cover material	52,100 m3	R.003 R.043		\$0.50	\$26,052.05	\$1.34	\$69,938	\$0.57	30,801	\$29,569.12		\$0.00 \$0.00		\$125,559			
.3.4		Cover material: Load, haul, dump spread (0.5m) Seed/Fertilize: broadcast seeding	19,436 m3 19.16 ha	C.6.01	634.6 \$1,00	\$0.84 05.46	\$16,234.94 \$19,260.72	\$2.23 \$397.11	\$43,292 \$7,607	\$0.91 \$232.94	18,519 4,648	\$17,778.41 \$4,462.30		\$0.00 \$18,887.91	\$3.98 \$2,621.52	\$77,306 \$50,218			
.3.6		Tree seedling application (1,000 stems/ha)	19.16 ha	C.6.06	981.8 \$1,78		\$34,288.45	\$9.02	\$173	\$15.00	299	\$287.34		\$8,821.38		\$43,570			
Roads																		\$106,47	8
Exploration I												_					\$32,339		
.1.1 .2.1	Regrade/Scarify	Scarify road surface	54,285 m2	C.2.16		\$0.03	\$1,842.07 \$5,459.15	\$0.06 \$207.11	\$2,993 \$2,156	\$0.02	965 1,317	\$926.07 \$1.264.54	\$0.00	\$0.00 \$5.252.50	\$0.11 \$2,621.52	\$5,761 \$14,221			
.2.1	Revegetate	Seed/Fertilize: broadcast seeding Tree seedling application (1,000 stems/ha)	5.43 ha 5.43 ha	C.6.01 C.6.06	179.8 \$1,00 278.2 \$1,78		\$5,458.15 \$9,716.74	\$397.11 \$9.02	\$2,156 \$49	\$232.94 \$15.00	1,317	\$1,264.54 \$81.43		\$5,352.50 \$2,499.82		\$14,231 \$12,347			
	ds (excl. Main Site Access Ro		0.10	0.0.00	2.0.2 \$1,70		ψ0,1 10.7- 1	\$3.0L	ψ-3	÷.5.00	00	ψ01.40	\$.50.00	ψ_, 100.02	<i>~-</i> , <i>-</i> , <i>-</i> , <i>-</i> , <i>-</i> ,	ψ12,0 1 7	\$8,479		
2.1.1	Regrade/Scarify	Regrade side slopes	9 hrs	C.2.13		43.35	\$410.01	\$195.11	\$1,845	\$67.01	660	\$633.81		\$0.00		\$2,889			
2.1.2	Bouggstate	Scarify road surface	52,636 m2	C.2.16		\$0.03	\$1,786.12	\$0.06	\$2,902	\$0.02	935	\$897.94		\$0.00 \$0.73		\$5,586			
.2.1	Revegetate	Seed/Fertilize: broadcast seeding Tree seedling application (1,000 stems/ha)	0.00 ha 0.00 ha	C.6.01 C.6.06	0.0 \$1,00 0.0 \$1,78		\$0.75 \$1.33	\$397.11 \$9.02	\$0 \$0	\$232.94 \$15.00	0	\$0.17 \$0.01		\$0.73 \$0.34		\$2 \$2			
Main Site Ac	cess Road	The second approximation (1,000 stellionia)	0.00	0.0.00	0.0 91,70		ψ1.00	ψ 0.0 2	ψŪ	φ10.00	U	ψ0.01	φ-100.00	ψ0.04	Ψ <u></u> ,	φΖ	\$1,281		
.1.1		Regrade new access through MVFE	0 m3													\$0			
.2.1	Signage	Install large sign on east and west side of barge landing on Yukon River	2 ea.	C.5.14	1.9 \$3	39.33	\$78.66	\$9.61	\$19	\$5.57	12	\$11.13	\$586.06	\$1,172.12	\$640.56	\$1,281			
Haul Roads		Degrade side slapes	40	0.0.40	101	42.25	\$E04.04	\$105 44	60.050	\$67 OA	0.4.4	£040.04	¢0.00	* 0.00	\$205 4C	PO 000	\$44,917		
.1.1	Regrade/Scarify	Regrade side slopes Scarify road surface	12 hrs 61,404 m2	C.2.13 C.2.16		43.35 \$0.03	\$524.01 \$2,083.64	\$195.11 \$0.06	\$2,359 \$3,385	\$67.01 \$0.02	844 1,091	\$810.04 \$1,047.52		\$0.00 \$0.00		\$3,693 \$6,516			
.2.1	Revegetate	Seed/Fertilize: broadcast seeding	7.09 ha	C.6.01	234.8 \$1,00				\$2,815	\$232.94	1,720	\$1,651.36		\$6,989.84		\$18,584			
	-	Tree seedling application (1,000 stems/ha)	7.09 ha	C.6.06	363.3 \$1,78		\$12,689.10	\$9.02	\$64	\$15.00	111		\$460.50	\$3,264.52		\$16,124			
1.2.2				1	1 1	1											\$19,462		
5 Culvert Rem				07.01		00.40		0446 5-	-			A----		A	0040.07	A			
	Excavate culverts	Mobilization allowance for excavation fleet to various sites Load, haul, dump, spread (spoil locally)	6 hrs 18,020 m3	C.7.01 R.901		86.16 \$0.14	\$516.94 \$2,561.30	\$119.65 \$0.58	\$718 \$10,541	\$44.16 \$0.20	276 3,841	\$264.96 \$3,687.10		\$0.00 \$0.00		\$1,500 \$16,789			

		1			_	Labour		Equ	ipment	Fuel		Mate	erial	Activit	y Totals	Subtot	tals	
				0	Cost	T. () Market D. (Consumed	0							2
	Facility/Area Demolition	Task	Activity	Qnty Units	Code	Total Mhrs Unit Rate	Cost	Unit Rate	Cost Unit Ra	te (L)	Cost	Unit Rate	Cost L	Jnit Rate	Cost	WBS Level 2 W	VBS Level 1 \$1,933,168	Source / Comments
A8.1 A8.1.1.1	Airstrip Area	Remove tanks/equipment	Dismantle and prep for transport	7 hrs	C.1.13	28.0 \$164.14	\$1,149.00	\$87.08	\$610 \$14.	53 106	\$101.70	\$0.00	\$0.00	\$265.75	\$1,860	\$20,720		
A8.1.2.1 A8.1.2.2			Bedding Material: Load, haul dump bedding material to landfarm	47 Cm3 219 m2	R.001 C.1.15	1.5 \$1.36 2.5 \$0.42	\$64.19 \$92.63	\$2.70 \$0.20	\$128 \$0. \$43 \$0.	90 44	\$42.57 \$15.13	\$0.00	\$0.00 \$0.00	\$4.96 \$0.69	\$235 \$151			
A8.1.2.3			Cut and fold liner Regrade area to promote positive drainage	192 m2	C.2.11	1.9 \$0.43	\$83.23	\$1.29	\$247 \$0.	35 71	\$67.74	\$0.00	\$0.00	\$2.07	\$398			
A8.1.3.1 A8.1.3.2		Prepare for demolition	Remove hazardous materials/prep for transport offsite Disconnect services	10 hrs 4 hrs	C.1.22 C.1.09	40.0 \$155.59 12.0 \$86.08	\$1,555.87 \$344.32	\$97.38 \$7.75	\$974 \$26. \$31 \$4.		\$269.28 \$19.20		\$0.00 \$0.00	\$279.90 \$98.63	\$2,799 \$395			
A8.1.4.1 A8.1.4.2		Demolition	Structural building demolition: wooden buildings/tents	1,149 m3 530 m3	C.1.08 C.1.07	87.7 \$2.82 52.5 \$3.65	\$3,233.87 \$1,934.55	\$1.61 \$2.09	\$1,849 \$0. \$1,106 \$0.	57 680	\$652.51 \$390.34	\$0.00	\$0.00 \$0.00	\$4.99 \$6.48	\$5,736 \$3,431			
A8.1.5.1		Waste disposal	Other demolition: covered storage, debris, etc. On-site disposal (demolition debris, etc.)	379 m3	R.006	12.8 \$1.45	\$548.89	\$2.56	\$971 \$0.	92 361	\$346.89	\$0.00	\$0.00	\$4.92	\$1,867			
A8.1.5.2 A8.2	Airport Laydow	wn Area	Off-site disposal (re-usable equipment, etc.)	4 m3	C.7.07	34.6 \$346.78	\$1,500.89	\$429.22	\$1,858 \$113.	33 511	\$490.50	\$0.00	\$0.00	\$889.33	\$3,849	\$32,681		
A8.2.1.1 A8.2.2.1		Remove tanks/equipment	Dismantle and prep for transport	2 hrs	C.1.13	8.0 \$164.14	\$328.29	\$87.08	\$174 \$14.		\$29.06 \$53.86		\$0.00	\$265.75 \$279.90	\$532	* ,•••		
A8.2.2.1 A8.2.2.2		Prepare for demolition	Remove hazardous materials/prep for transport offsite Disconnect services	2 hrs 4 hrs	C.1.22 C.1.09	8.0 \$155.59 12.0 \$86.08	\$311.17 \$344.32	\$97.38 \$7.75	\$195 \$26. \$31 \$4.	80 20	\$53.86 \$19.20		\$0.00 \$0.00	\$98.63	\$560 \$395			
A8.2.3.1 A8.2.3.2		Demolition	Structural building demolition: steel structures Other demolition: covered storage etc.	96 tonnes 560 m3	C.1.05 C.1.07	191.3 \$67.73 55.5 \$3.65	\$6,477.52 \$2,045.31	\$136.09 \$2.09	\$13,015 \$33. \$1,170 \$0.		\$3,236.25 \$412.69		\$0.00 \$0.00	\$237.66 \$6.48	\$22,729 \$3,628			
A8.2.4.1		Waste disposal	On-site disposal (demolition debris, etc.)	393 Lm3	R.005	15.8 \$1.72	\$676.99	\$3.01	\$1,182 \$1.	08 441	\$423.19	\$0.00	\$0.00	\$5.81	\$2,282			
A8.2.4.2 A8.3	Camp Area		Off-site disposal (re-usable equipment, etc.)	3 trips	C.7.07	23.0 \$346.78	\$996.98	\$429.22	\$1,234 \$113.	33 339	\$325.82	\$0.00	\$0.00	\$889.33	\$2,557	\$370,330		
A8.3.1.1 A8.3.2.1		Equipment Removal Remove modular buildings	Remove salvageable equipment Dismantle and prep for transport	48 hrs 92 ea.	C.1.13 C.1.20	192.0 \$164.14 1,794.0 \$831.26	\$7,878.86 \$76,475.46	\$87.08 \$737.86	\$4,180 \$14. \$67,883 \$166.		\$697.34 \$15,314.69		\$0.00 \$0.00	\$265.75 \$1,735.58	\$12,756 \$159,673			
A8.3.2.2		-	Transport structures off-site (Whitehorse)	92 ea.	C.7.04	736.0 \$343.01	\$31,557.04	\$309.18	\$28,445 \$113.	33 10,861	\$10,426.18	\$0.00	\$0.00	\$765.52	\$70,428			
A8.3.3.1 A8.3.3.2		Prepare for demolition	Remove hazardous materials/prep for transport offsite Disconnect services	1 hrs 8 hrs	C.1.22 C.1.09	4.0 \$155.59 24.0 \$86.08	\$155.59 \$688.64	\$97.38 \$7.75	\$97 \$26. \$62 \$4.		\$26.93 \$38.40		\$0.00 \$0.00	\$279.90 \$98.63	\$280 \$789			
A8.3.4.1		Demolition	Structural building demolition: Steel	175 tonnes	C.1.05	350.7 \$67.73	\$11,875.46	\$136.09	\$23,861 \$33.	6,180	\$5,933.13	\$0.00	\$0.00	\$237.66	\$41,669			
A8.3.4.2 A8.3.4.4			Structural building demolition: Wood/misc. structures Other demolition: Utilidors, etc.	10,959 m3 466 m3	C.1.08 C.1.07	836.7 \$2.82 46.1 \$3.65	\$30,850.94 \$1,701.64	\$1.61 \$2.09	\$17,644 \$0. \$973 \$0.	74 358	\$6,224.86 \$343.34	\$0.00	\$0.00 \$0.00	\$4.99 \$6.48	\$54,720 \$3,018			
A8.3.5.1 A8.3.5.2		Waste disposal	On-site disposal (demolition debris, etc.) Off-site disposal (re-usable equipment, etc.)	3,867 m3 1 trips	R.007 C.7.07	175.3 \$1.95 8.0 \$346.78	\$7,528.19 \$346.78	\$3.40 \$429.22	\$13,146 \$1. \$429 \$113.		\$4,705.86 \$113.33		\$0.00 \$0.00	\$6.56 \$889.33	\$25,380 \$889			
A8.3.6.1		Demolish foundations	Break in place concrete foundations	51 m3	C.1.01	4.1 \$2.33	\$119.29	\$9.40	\$481 \$2.		\$126.81	\$0.00	\$0.00	\$14.22	\$727	* ***		
A8.4 A8.4.1.1	Explosives Pla	ant and Storage Areas Remove equipment	Small equipment: dismantle and prep for transport	37 hrs	C.1.13	149.3 \$164.14	\$6,128.00	\$87.08	\$3,251 \$14.	53 565	\$542.38	\$0.00	\$0.00	\$265.75	\$9,921	\$30,166		
A8.4.2.1 A8.4.2.2		Remove modular buildings	Dismantle and prep for transport Transport structures off-site (Whitehorse)	1 ea. 1 ea.	C.1.20 C.7.04	19.5 \$831.26 8.0 \$343.01	\$831.26 \$343.01	\$737.86 \$309.18	\$738 \$166. \$309 \$113.		\$166.46 \$113.33		\$0.00 \$0.00	\$1,735.58 \$765.52	\$1,736 \$766			
A8.4.3.1		Prepare for demolition	Remove hazardous materials/prep for transport offsite	4 hrs	C.1.22	16.0 \$155.59	\$622.35	\$97.38	\$390 \$26.	93 112	\$107.71	\$0.00	\$0.00	\$279.90	\$1,120			
A8.4.3.2 A8.4.4.1		Demolition	Disconnect services Structural building demolition: Steel	2 hrs 47 tonnes	C.1.09 C.1.05	6.0 \$86.08 94.2 \$67.73	\$172.16 \$3,189.69	\$7.75 \$136.09	\$15 \$4. \$6,409 \$33.		\$9.60 \$1,593.61		\$0.00 \$0.00	\$98.63 \$237.66	\$197 \$11,192			
A8.4.5.1 A8.4.5.2		Waste disposal	On-site disposal (demolition debris, etc.) Off-site disposal (re-usable equipment, etc.)	103 m3 5 trips	R.008 C.7.07	5.4 \$2.27 40.0 \$346.78	\$233.62 \$1,733.88	\$3.96 \$429.22	\$408 \$1. \$2,146 \$113.		\$146.04 \$566.64		\$0.00 \$0.00	\$7.65 \$889.33	\$788 \$4,447			
A8.5	Fuel Storage A															\$113,164		
A8.5.1.1 A8.5.1.2		Remove equipment/dismar	Small equipment: dismantle and prep for transport Large equipment (crane req'd): dismantle and prep for transport	24 hrs 192 hrs	C.1.13 C.1.14	96.0 \$164.14 1,153.4 \$263.70	\$3,939.43 \$50,693.54	\$87.08 \$168.95	\$2,090 \$14. \$32,479 \$20.		\$348.67 \$3,946.31	\$0.00 \$0.00	\$0.00 \$0.00	\$265.75 \$453.18	\$6,378 \$87,119			
A8.5.2.1 A8.5.2.2		Prepare for demolition	Hazardous materials: Gather and prep for transport offsite	2 hrs 8 hrs	C.1.22 C.1.09	8.0 \$155.59 24.0 \$86.08	\$311.17 \$688.64	\$97.38 \$7.75	\$195 \$26. \$62 \$4.		\$53.86 \$38.40		\$0.00 \$0.00	\$279.90 \$98.63	\$560 \$789			
A8.5.2.3			Disconnect services Clean out tanks, pressure wash, remove sludge	10 hrs	C.1.04	10.3 \$34.72	\$356.69	\$17.70	\$182 \$2.	00 21	\$20.55	\$0.00	\$0.00	\$54.42	\$559			
A8.5.3.1 A8.5.4.1		Demolish structures Remove secondary contair	Misc. debris/scraps (tanks included in dismantling above) Bedding Material: Load, haul dump bedding material to landfarm	75 m3 623 Cm3	C.1.08 R.009	5.7 \$2.82 32.8 \$2.26	\$211.13 \$1,408.92	\$1.61 \$3.95	\$121 \$0. \$2,460 \$1.		\$42.60 \$880.71	\$0.00 \$0.00	\$0.00 \$0.00	\$4.99 \$7.63	\$374 \$4,750			
A8.5.4.2		,	Cut and fold liner	1,747 m2	C.1.15	20.3 \$0.42	\$740.64	\$0.20	\$343 \$0.	07 126	\$120.97	\$0.00	\$0.00	\$0.69	\$1,204			
A8.5.4.3 A8.5.5.1		Waste disposal	Regrade area to promote positive drainage On-site disposal (demolition debris, etc.)	1,666 m2 229 m3	C.2.11 R.009	16.7 \$0.43 12.1 \$2.26	\$722.16 \$518.73	\$1.29 \$3.95	\$2,146 \$0. \$906 \$1.	41 338	\$587.76 \$324.26		\$0.00 \$0.00	\$2.07 \$7.63	\$3,456 \$1,749			
A8.5.5.2 A8.6	Mill Area		Off-site disposal (re-usable equipment, etc.)	7 trips	C.7.07	56.0 \$346.78	\$2,427.44	\$429.22	\$3,005 \$113.	33 826	\$793.30	\$0.00	\$0.00	\$889.33	\$6,225	\$1,243,185		Excludes WTP
A8.6.1.1		Remove equipment	Small equipment: dismantle and prep for transport	379 hrs	C.1.13	1,515.0 \$164.14	\$62,167.87	\$87.08	\$32,982 \$14.		\$5,502.37	\$0.00	\$0.00	\$265.75	\$100,652	\$1,210,100		
A8.6.1.2 A8.6.2.1		Prepare for demolition	Large equipment (crane req'd): dismantle and prep for transport Hazardous materials: Gather and prep for transport offsite	466 hrs 65 hrs	C.1.14 C.1.22	2,796.5 \$263.70 260.0 \$155.59	\$122,905.21 \$10,113.15	\$168.95 \$97.38	\$78,746 \$20. \$6,330 \$26.		\$9,567.74 \$1,750.32		\$0.00 \$0.00	\$453.18 \$279.90	\$211,219 \$18,193			Off-site disposal included in 'Waste Disposal'
A8.6.2.6 A8.6.2.7			Reagents: Disposal and tipping fees Decontaminate buildings: wash equipment/structures, etc.	1.0 ls 38 hrs	n/a C.1.04	0.0 \$0.00 37.8 \$34.72	0.00\$ \$1,311.88	\$0.00 \$17.70	\$0 \$0. \$669 \$2.		\$0.00 \$75.58		\$0.00 \$0.00	\$0.00 \$54.42	\$0 \$2,056			
A8.6.2.8			Decontaminate buildings: Wash floors etc.	4,732 m2	C.1.03	40.8 \$0.30	\$1,414.68	\$0.15	\$721 \$0.	02 85	\$81.50	\$0.00	\$0.00	\$0.47	\$2,217			
A8.6.3.1 A8.6.3.2		Demolition	Structural building demolition: Steel Structural building demolition: Wood/misc. structures	2,660 tonnes 960 m3	C.1.05 C.1.08	5,319.1 \$67.73 73.3 \$2.82	\$180,139.34 \$2,702.52	\$136.09 \$1.61	\$361,944 \$33. \$1,546 \$0.		\$89,999.96 \$545.29		\$0.00 \$0.00	\$237.66 \$4.99	\$632,083 \$4,793			
A8.6.3.3 A8.6.3.4			Other demolition: Steel Other demolition: concrete	526 tonnes 602 m3	C.1.05 C.1.06	1,052.7 \$67.73 323.7 \$15.55	\$35,649.79 \$9,354.72	\$136.09 \$62.69	\$71,629 \$33. \$37,723 \$16.		\$17,811.10 \$9.944.51		\$0.00 \$0.00	\$237.66 \$94.77	\$125,090 \$57,022			
A8.6.3.5			Other demolition: miscellaneous	244 m3	C.1.07	24.1 \$3.65	\$889.64	\$2.09	\$509 \$0.	74 187	\$179.50	\$0.00	\$0.00	\$6.48	\$1,578			
A8.6.4.1 A8.6.4.2		Waste disposal	On-site disposal (demolition debris, etc.) Off-site disposal (re-usable equipment, etc.)	5,985 m3 33 trips	R.033 C.7.07	255.1 \$1.83 266.0 \$346.78	\$10,954.37 \$11,529.45	\$3.20 \$429.22	\$19,129 \$1. \$14,271 \$113.		\$6,847.56 \$3,767.87		\$0.00 \$0.00	\$6.17 \$889	\$36,931 \$29,568			
A8.6.5.1	Mill Valley Eill I	Demolish foundations Extension (Stage 1 and 2)	Break in place concrete foundations	1,532 m3	C.1.01	123.7 \$2.33	\$3,573.27	\$9.40	\$14,409 \$2.		\$3,798.55		\$0.00	\$14.22	\$21,781	\$27,640		
A8.7.1.1	wini vancy Fill E	Prepare for demolition	Hazardous materials: Gather and prep for transport offsite	8 hrs	C.1.22	30.0 \$155.59	\$1,166.90	\$97.38	\$730 \$26.		\$201.96		\$0.00	\$279.90	\$2,099	ψ21,04U		
A8.7.1.2 A8.7.2.1		Demolish buildings	Reagents: Disposal and tipping fees Structural building demolition: Wood/misc. structures (Reagent tent)	1 ls 1,800 m3	n/a C.1.08	0.0 \$0.00 137.4 \$2.82	\$0.00 \$5,067.22	\$0.00 \$1.61	\$0 \$0. \$2,898 \$0.		\$0.00 \$1,022.42		\$0.00 \$0.00	\$0.00 \$4.99	\$0 \$8,988			
A8.7.3.1 A8.7.3.2		Haul waste to landfill	Demolition debris	594 m3 10 trips	R.033 C.7.07	25.3 \$1.83 78.8 \$346.78	\$1,087.16 \$3,413.58	\$3.20	\$1,898 \$1.	14 708	\$679.58 \$1,115.57	\$0.00	\$0.00	\$6.17 \$889.33	\$3,665 \$8,754			
A8.7.3.3			Remove tires off-site for disposal Misc. debris/scraps	652 m3	R.033	27.8 \$1.83	\$1,193.32	\$429.22 \$3.20	\$4,225 \$113. \$2,084 \$1.	14 777	\$745.94	\$0.00	\$0.00 \$0.00	\$6.17	\$4,023			
A8.7.4.1 A8.8	Minto South Po	Demolish foundations	Break and bury concrete foundations	8 m3	C.1.01	0.6 \$2.33	\$18.05	\$9.40	\$73 \$2.	48 20	\$19.19	\$0.00	\$0.00	\$14.22	\$110	\$8,169		
A8.8.1.1		Remove equipment	Small equipment: dismantle and prep for transport	6 hrs	C.1.13	24.0 \$164.14	\$984.86	\$87.08	\$522 \$14.		\$87.17	\$0.00	\$0.00	\$265.75	\$1,595	+1,100		
A8.8.2.1 A8.8.3.1		Prepare for demolition Demolition	Hazardous materials: Gather and prep for transport offsite Other demolition: miscellaneous	2 hrs 462 m3	C.1.22 C.1.07	8.0 \$155.59 45.7 \$3.65	\$311.17 \$1,686.94	\$97.38 \$2.09	\$195 \$26. \$965 \$0.	74 355	\$53.86 \$340.38		\$0.00 \$0.00	\$279.90 \$6.48	\$560 \$2,992			
A8.8.4.1 A8.9	Pelly Lavdown	Waste disposal (Includes propane tanks by	On-site disposal (demolition debris, etc.)	462 m3	R.038	20.9 \$1.94	\$896.67	\$3.39	\$1,566 \$1.		\$560.51	\$0.00	\$0.00	\$6.54	\$3,023	\$81,791		
A8.9.1.1	. Sily Layuowii		t Dismantle and prep for transport	7 ea.	C.1.20	136.5 \$831.26	\$5,818.79	\$737.86	\$5,165 \$166.		\$1,165.25		\$0.00	\$1,735.58	\$12,149	ψ01,731		
A8.9.1.2 A8.9.2.1		Prepare for demolition	Transport structures off-site (Whitehorse) Hazardous materials: Gather and prep for transport offsite	7 ea. 2 hrs	C.7.04 C.1.22	56.0 \$343.01 8.0 \$155.59	\$2,401.08 \$311.17	\$309.18 \$97.38	\$2,164 \$113. \$195 \$26.		\$793.30 \$53.86		\$0.00 \$0.00	\$765.52 \$279.90	\$5,359 \$560			
A8.9.3.1 A8.9.3.2		Demolish buildings	Structural building demolition: Steel	80 tonnes 5,672 m3	C.1.05 C.1.08	159.4 \$67.73 433.1 \$2.82	\$5,397.94 \$15,968.45	\$136.09 \$1.61	\$10,846 \$33. \$9,132 \$0.	84 2,809	\$2,696.88 \$3,221.99	\$0.00	\$0.00 \$0.00	\$237.66 \$4.99	\$18,941 \$28,323			
A8.9.4.1		Waste disposal	Structural building demolition: Wood/misc. structures On-site disposal (demolition debris, etc.)	2,165 m3	R.040	100.0 \$1.98	\$4,292.80	\$3.46	\$7,496 \$1.	24 2,795	\$2,683.42	\$0.00	\$0.00	\$6.69	\$14,473			
A8.9.4.2 A8.9.5.1		Demolish foundations	Off-site disposal (re-usable equipment, etc.) Break and bury concrete foundations	2 trips 23 m3	C.7.07 C.1.01	15.0 \$346.78 1.8 \$2.33	\$650.21 \$52.47	\$429.22 \$9.40	\$805 \$113. \$212 \$2.		\$212.49 \$55.78		\$0.00 \$0.00	\$889.33 \$14.22	\$1,667 \$320			
A8.10	Vent Raise - A	Area 118														\$5,322		
A8.10.1.1		Remove equipment	Small equipment: dismantle and prep for transport	20 hrs	C.1.13	80.0 \$164.14	\$3,282.86	\$87.08	\$1,742 \$14.	53 303	\$290.56	\$0.00	\$0.00	\$265.75	\$5,315	I I	l	I

						Labour		Equi	ipment		Fuel		Mate	erial	Activi	y Totals	Su	ototals	
WDC	Task / Assa	A sticitu	0-4-	Cost	Total Missa		Cart	Unit Data	Cast		Consumed	Gast	Unit Data	Cast	Unit Data	Cast		WDC Louis 14	C
WBS A8.10.2.1	Facility/Area Task Waste disposal Waste disposal	Activity Off-site disposal (re-usable equipment, etc.)	Qnty Units 1 trips	Code R.038	Total Mhrs 0.0		Cost \$1.94	Unit Rate \$3.39	Cost L	Jnit Rate \$1.21	(L) 1	Cost \$1.21	Unit Rate \$0.00	Cost \$0.00	Unit Rate \$6.54	Cost \$7	WBS Level 2		Source / Comments
A9 A9.1	Surface Infrastructure Tailings and Water Conveyance Pipelines																\$49,547	\$118,389	
A9.1.1.1 A9.1.1.2	Dismantle piping systems	Flush and clean tailings pipeline systems Cut pipelines and prep for transport (6 to 8" HDPE pipes)	6 ls 2,968 m	C.1.21 C.1.17	24.0 467.4	\$199.11 \$7.05	\$1,194.67 \$20,919.48	\$0.00 \$0.00	\$0 \$0	\$0.00 \$0.00	0	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$199.11 \$7.05	\$1,195 \$20,919			
A9.1.1.3 A9.1.1.4		Cut pipelines and prep for transport (10 to 18" HDPE pipes)	278 m 1,283 m	C.1.18 C.1.19	73.0 505.1		\$3,265.73 \$22,607.56	\$0.00	\$0 \$0	\$0.00 \$0.00	0	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$11.75 \$17.62	\$3,266 \$22,608			
A9.2.2.1	Waste disposal	Cut pipelines and prep for transport (20 to 36" HDPE pipes) Haul pipes lines and debris to landfill	253 m3	R.033	10.8		\$22,607.56 \$462.44		\$808	\$0.00 \$1.14	301	\$0.00 \$289.07	\$0.00	\$0.00		\$22,608			
A9.2 A9.2.1.1	Conveyance Pipeline Equipment Dismantle piping systems	Remove pumps and prep for transport	5 ea.	C.1.24	66.0	\$589.10	\$2,945.50	\$8.66	\$43	\$14.40	75	\$72.00	\$0.00	\$0.00	\$612.16	\$3,061	\$5,682		
A9.2.1.2 A9.2.2.1	Waste disposal	Remove barges/Support Equipment prep for transport Transport pumps, barge and support equip. offsite (Whitehorse)	2 ea. 4.5 tonnes	C.1.23 C.7.02	52.8 1.8	\$1,178.20 \$17.15	\$2,356.40 \$77.18	\$17.32 \$15.46	\$35 \$70	\$28.80 \$5.67	60 27	\$57.60 \$25.50	\$0.00 \$0.00	\$0.00 \$0.00	\$1,224.33 \$38.28	\$2,449 \$172			
A9.3	Powerlines																\$63,160		
A9.3.1.1 A9.3.1.2	Dismantle	Dismantle and collect powerlines Remove power poles and load for transport off-site	3.2 km 60 ea.	C.1.10 C.1.11	217.9 548.6	\$2,579.57 \$414.04	\$8,151.44 \$24,842.65		\$2,317 \$5,126	\$251.90 \$18.29	829 1,143	\$795.99 \$1,097.14	\$0.00 \$0.00	\$0.00 \$0.00	\$3,564.68 \$517.76	\$11,264 \$31,065			
A9.3.1.3 A9.3.2.1	Waste disposal	Disconnect transformers and load for transport Transport powerlines, poles and transformers off-site	4 ea. 18 trips	C.1.12 C.7.07	93.3 144.0	\$872.46 \$346.78	\$3,489.86 \$6,241.98		\$992 \$7,726	\$85.20 \$113.33	355 2,125	\$340.78 \$2,039.90	\$0.00 \$0.00	\$0.00 \$0.00	\$1,205.65 \$889.33	\$4,823 \$16,008			
A10	Water Detention Structures						+- , - · · · - ·	•	• •••••	•	_,	+_,				••••	A 1 A 2	\$739,172	
A10.1 A10.1.1.1	W15 Sump Remove secondary contai	n Cut and fold liner	1,310 m2	C.1.15	15.2	\$0.42	\$555.32		\$257	\$0.07	94	\$90.70	\$0.00	\$0.00	\$0.69	\$903	\$1,026		
A10.1.1.2 A10.2	Mill Water Pond	Haul liner to landfill	20 Lm3	R.059	0.8	\$1.86	\$36.48	\$3.24	\$64	\$1.16	24	\$22.80	\$0.00	\$0.00	\$6.26	\$123	\$0		
A10.3	Sewage Lagoon (near IROD)		4 400	D 004		¢4.00	\$C 005 40	¢0.70	¢40.400	¢0.00	4 000	\$4.005.00	¢0.00	¢0.00	¢4.00	¢00.040	\$22,249		
A10.3.1 A10.4	Remove pond Water Storage Pond Dam	Backfill pond	4,488 m3	R.001	141.4	\$1.36	\$6,085.16		\$12,129	\$0.90	4,203	\$4,035.32	\$0.00	\$0.00		\$22,249	\$715,896		
A10.4.1.1 A10.4.1.2	Water Management	Install pump and pump around system Pump pond water to discharge	4 hrs 400,000 m3	C.4.14 C.4.12	16.0 146.8	\$117.62 \$0.01	\$470.48 \$5,095.45		91\$ \$21,929	\$6.80 \$0.01	28 3,058	\$27.20 \$2,935.56	\$0.00 \$0.00	\$0.00 \$0.00	\$147.11 \$0.07	\$588 \$29,960			
A10.4.1.3		Maintain pump around system during WSP closure activities	103 days	C.4.13	10.3	\$3.47	\$355.89	\$14.94	\$1,532	\$2.00	214	\$205.03	\$0.00	\$0.00	\$20.41	\$2,092			Duration calculated as sum of associated tasks plus 20% contingency
A10.4.2.1	Breach dam	Granular zones/gen. fill: Load, haul, dump, spread in upstream North ab	62,301 m3	R.001	1,963.4	\$1.36	\$84,472.81	\$2.70	\$168,372	\$0.90	58,351	\$56,017.38	\$0.00	\$0.00	\$4.96	\$308,862			
A10.4.2.2 A10.4.2.3		Dam Core: Load, haul, dump in temporary stockpile Rip-rap: Sort and stockpile durable rip-rap for reuse	23,617 m3 19,285 m3	R.001 R.001	744.3 607.8	\$1.36 \$1.36	\$32,021.27 \$26,148.62	\$2.70 \$2.70	\$63,825 \$52,120	\$0.90 \$0.90	22,119 18,063	\$21,234.62 \$17,340.22	\$0.00 \$0.00	\$0.00 \$0.00	\$4.96 \$4.96	\$117,081 \$95,609			
A10.4.2.4 A10.4.3.1	Channel restoration	Rip-rap: Load haul, dump unsuitable rip-rap in upstream North abutmen Excavate stream channel	19,285 m3 5,584 m3	R.001 R.902	607.8 97.1	\$1.36 \$0.75	\$26,148.62 \$4,207.57	\$2.70 \$1.41	\$52,120 \$7,876	\$0.90 \$0.46	18,063 2,681	\$17,340.22 \$2,574.22	\$0.00 \$0.00	\$0.00 \$0.00	\$4.96 \$2.62	\$95,609 \$14,658			
A10.4.3.2	Chamerrestoration	Bedding layer: Load haul, dump, place granular bedding layer along cha	726 m3	R.001	22.9	\$1.36	\$984.97	\$2.70	\$1,963	\$0.90	680	\$653.17	\$0.00	\$0.00	\$4.96	\$3,601			
A10.4.3.3 A10.4.3.4		Rip-rap: Load, haul dump from temporary stockpile Rip-rap: place and secure	964 m3 964 m3	R.001 R.904	30.4 10.5	\$0.47	\$1,306.42 \$454.19		\$2,604 \$884	\$0.90 \$0.32	902 325	\$866.34 \$311.83	\$0.00 \$0.00	\$0.00 \$0.00	\$4.96 \$1.71	\$4,777 \$1,650			
A10.4.4.1 A10.4.5.1	Cover Revegetate	Cover material: Load, haul, dump spread (1m) Seed/Fertilize: broadcast seeding	6,975 m3 1.4 ha	R.001 C.6.01	219.8 46.2	\$1.36 \$1,005.46	\$9,457.22 \$1,402.62		\$18,850 \$554	\$0.90 \$232.94	6,533 338	\$6,271.47 \$324.96	\$0.00 \$986.00	\$0.00 \$1,375.47	\$4.96 \$2,621.52	\$34,579 \$3,657			Cover sourced from dam core material
A10.4.5.2		Tree seedling application (1,000 stems/ha)	1.4 ha	C.6.06		\$1,789.95	\$2,496.98		\$13	\$15.00	22	\$20.93	\$460.50	\$642.40		\$3,173		¢700.000	
A11 A11.1	Yards/Laydown Areas Airstrip Area																\$38,351	\$703,988	
A11.1.1.1 A11.1.1.2	Re-grade	Re-grade slopes to be 3H:1V or flatter Scarify surface	0 hrs 64.378 m2	C.2.13 C.2.16	0.0 0.0	\$43.35 \$0.03	\$0.00 \$2,184.55		\$0 \$3,549	\$67.01 \$0.02	0 1.144	\$0.00 \$1,098.24	\$0.00 \$0.00	\$0.00 \$0.00	\$305.46 \$0.11	\$0 \$6.832			
A11.1.2.1 A11.1.2.2	Revegetate	Seed/Fertilize: broadcast seeding	6.4 ha 6.4 ha	C.6.01 C.6.06	213.3	\$1,005.46 \$1,789.95	\$6,472.91	\$397.11	\$2,557 \$58	\$232.94	1,562 101	\$1,499.64	\$986.00	\$6,347.62	\$2,621.52	\$16,877			
A11.2	Airport Laydown Area	Tree seedling application (1,000 stems/ha)					\$11,523.25			\$15.00		\$96.57	\$460.50	\$2,964.58		\$14,642	\$12,675		
A11.2.1.1 A11.2.2.1	Re-grade Revegetate	Scarify surface Seed/Fertilize: broadcast seeding	21,277 m2 2.1 ha	C.2.16 C.6.01	0.0 70.5	\$0.03 \$1,005.46	\$722.00 \$2,139.32		\$1,173 \$845	\$0.02 \$232.94	378 516	\$362.97 \$495.64	\$0.00 \$986.00	0.00\$ \$2,097.91	\$0.11 \$2,621.52	\$2,258 \$5,578			
A11.2.2.2 A11.3	Camp Area	Tree seedling application (1,000 stems/ha)	2.1 ha	C.6.06	109.0	\$1,789.95	\$3,808.47	\$9.02	\$19	\$15.00	33	\$31.92	\$460.50	\$979.81	\$2,274.47	\$4,839	\$106,867		
A11.3.1.1	Re-grade	Flat areas: Re-grade to form tertiary drainage catchments	7 hrs	C.2.13	6.9	\$43.35	\$299.02		\$1,346	\$67.01	481	\$462.24	\$0.00	\$0.00	\$305.46	\$2,107	\$100,007		
A11.3.1.2 A11.3.1.3		Re-grade slopes to be 3H:1V or flatter Scarify surfaces	24 hrs 20,626 m2	C.2.13 C.2.16	24.5 0.0	\$0.03	\$1,061.11 \$699.92	\$195.11 \$0.06	\$4,776 \$1,137	\$67.01 \$0.02	1,709 367	\$1,640.31 \$351.87	\$0.00 \$0.00	\$0.00 \$0.00	\$305.46 \$0.11	\$7,478 \$2,189			Slope between camp and main access road
A11.3.2.1 A11.3.2.2	Cover	Flat area cover material: Load, haul, dump spread Slope area cover material: Load, haul, dump along crest	10,313 Cm3 9,349 Cm3	R.041 R.042	198.2 157.2		\$8,524.90 \$6,754.61	\$2.20 \$1.89	\$22,733 \$17,715	\$0.91 \$0.82	9,724 7,990	\$9,335.37 \$7,670.53	\$0.00 \$0.00	\$0.00 \$0.00	\$3.94 \$3.44	\$40,593 \$32,140			
A11.3.2.3 A11.3.3.1	Povogotato	Slope area cover material: Spread down slope	10 hrs 3.93 ha	C.2.13 C.6.01	10.2	\$43.35 \$1,005.46	\$440.87 \$3,953.95	\$195.11	\$1,984 \$1,562	\$67.01 \$232.94	710 954	\$681.52 \$916.05	\$0.00 \$986.00	\$0.00 \$2 877 42	\$305.46 \$2,621.52	\$3,107 \$10,309			
A11.3.3.2		Seed/Fertilize: broadcast seeding Tree seedling application (1,000 stems/ha)	3.93 ha	C.6.06		\$1,789.95	\$7,038.93		\$35	\$15.00	61	\$58.99	\$980.00 \$460.50		\$2,274.47	\$8,944			
A11.2.1.1	Crusher Area Re-grade	Flat areas: Re-grade to form tertiary drainage catchments	9 hrs	C.2.13	9.0			\$195.11	\$1,759	\$67.01	629	\$604.27	\$0.00	\$0.00		\$2,755	\$66,100		
A11.2.2.1 A11.2.3.1	Cover Revegetate	Load, haul, dump spread 0.5 m overburden cover Seed/Fertilize: broadcast seeding	13,482 m3 2.70 ha	R.049 C.6.01	244.8 89.3	\$0.78 \$1,005.46	\$10,530.65 \$2,711.13		\$28,081 \$1,071	\$0.86 \$232.94	12,012 654	\$11,531.82 \$628.11	\$0.00 \$986.00	\$0.00 \$2,658.65		\$50,144 \$7,069			
A11.2.3.2 A11.5	Exploration Disturbances	Tree seedling application (1,000 stems/ha)	3 ha	C.6.06		\$1,789.95	\$4,826.42		\$24	\$15.00	42	\$40.45	\$460.50	\$1,241.69		\$6,133			
A11.5.1.1	Ridgetop Area	Scarify surfaces	34,778 m2	C.2.16	0.0		\$1,180.13		\$1,917	\$0.02	618	\$593.29	\$0.00	\$0.00		\$3,691			
A11.5.1.2 A11.5.1.3		Seed/Fertilize: broadcast seeding Tree seedling application (1,000 stems/ha)	3 ha 3 ha	C.6.01 C.6.06		\$1,005.46 \$1,789.95	\$3,496.79 \$6,225.09		\$1,381 \$31	\$232.94 \$15.00	844 54	\$810.13 \$52.17	\$986.00 \$460.50	\$3,429.11 \$1,601.53	\$2,621.52 \$2,274.47	\$9,117 \$7,910			
A11.6 A11.6.1.1	Explosives Plant and Storage Areas Re-grade	Flat areas: Re-grade to ensure positive drainage	30 hrs	C.2.13	29.6	\$43.35	\$1,283.58	\$195.11	\$5,777	\$67.01	2,067	\$1,984.22	\$0.00	\$0.00	\$305.46	\$9,045	\$41,877		
A11.6.1.2 A11.6.1.3		Re-grade slopes to be 3H:1V or flatter	0 hrs 55,113 m2	C.2.13 C.2.16	0.0	\$43.35	\$0.00	\$195.11 \$0.06	\$0 \$3,038	\$67.01 \$0.02	0 979	\$0.00 \$940.20	\$0.00 \$0.00	\$0.00 \$0.00	\$305.46	\$0 \$0 \$5,849			
A11.6.2.1	Revegetate	Scarify surfaces Seed/Fertilize: broadcast seeding	5.5 ha	C.6.01	182.6	\$1,005.46	\$5,541.44	\$397.11	\$2,189	\$232.94	1,337	\$1,283.83	\$986.00	\$5,434.18	\$2,621.52	\$14,448			
A11.6.2.2 A11.7	Fuel Storage Areas	Tree seedling application (1,000 stems/ha)	5.5 ha	C.6.06	282.5	\$1,789.95	\$9,865.02	\$9.02	\$50	\$15.00	86	\$82.67	\$460.50	\$2,537.97	\$2,274.47	\$12,535	\$22,246		
A11.7.1.1 A11.7.2.1	Re-grade Cover	Flat areas: Re-grade to ensure positive drainage Load, haul, dump spread 0.5 m overburden cover	5 hrs 4,200 m3	C.2.13 R.044	4.5 81.8		\$195.63 \$3,518.75	\$195.11 \$2.23	\$881 \$9,383	\$67.01 \$0.92	315 4,014	\$302.42 \$3,853.28	\$0.00 \$0.00	\$0.00 \$0.00		\$1,379 \$16,755			
A11.7.3.1	Revegetate	Seed/Fertilize: broadcast seeding	0.84 ha	C.6.01	27.8	\$1,005.46	\$844.59	\$397.11	\$334	\$232.94	204 13	\$195.67	\$986.00	\$828.24	\$2,621.52	\$2,202			
A11.7.3.2 A11.8	IROD Laydown Area	Tree seedling application (1,000 stems/ha)	1 ha	C.6.06		\$1,789.95	\$1,503.56		\$8	\$15.00	_	\$12.60		\$386.82		\$1,911	\$17,813		
A11.8.1.1 A11.8.1.2	Re-grade	Flat areas: Re-grade to ensure positive drainage Re-grade slopes to be 3H:1V or flatter	15 hrs 0 hrs	C.2.13 C.2.13	14.8 0.0			\$195.11 \$195.11	\$2,879 \$0	\$67.01 \$67.01	1,030 0	\$988.72 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00		\$4,507 \$0			
A11.8.1.3 A11.8.2.1	Revegetate	Scarify surface Seed/Fertilize: broadcast seeding	18,106 m2 2.33 ha	C.2.16 C.6.01	0.0		\$614.40 \$2,338.00	\$0.06	\$998 \$923	\$0.02 \$232.94	322 564	\$308.88 \$541.67	\$0.00 \$986.00	\$0.00 \$2,292.75	\$0.11	\$1,921 \$6,096			
A11.8.2.2		Tree seedling application (1,000 stems/ha)	2.33 ha	C.6.06		\$1,789.95		\$9.02	\$923 \$21	\$232.94 \$15.00	36	\$34.88	\$988.00 \$460.50	\$2,292.75 \$1,070.80		\$5,289			
A11.9 A11.9.1.1	Mill Area Re-grade	Flat areas: Re-grade to ensure positive drainage	60 hrs	C.2.13	59.9		\$2,597.60		\$11,692	\$67.01	4,183	\$4,015.50	\$0.00	\$0.00		\$18,305	\$122,326		
A11.9.1.2 A11.9.2.1	Cover	Scarify surface Load, haul, dump spread 0.5 m overburden cover	42,365 m2 21,182 m3	C.2.16 R.049	0.0 384.7		\$1,437.58 \$16,545.32		\$2,335 \$44,120	\$0.02 \$0.86	753 18,873	\$722.72 \$18,118.30	\$0.00 \$0.00	\$0.00 \$0.00		\$4,496 \$78,784			
A11.9.3.1 A11.9.3.2	Revegetate	Seed/Fertilize: broadcast seeding	4.24 ha 4.24 ha	C.6.01 C.6.06	140.3	\$1,005.46 \$1,789.95	\$4,259.61 \$7,583.07	\$397.11	\$1,682 \$38	\$232.94 \$15.00	1,028	\$986.86 \$63.55	\$986.00	\$4,177.16		\$11,106 \$9,636			
ATT.9.3.2	I I	Tree seedling application (1,000 stems/ha)	4.24 IId	0.0.00	217.1	ψ1,103.90	φ1,303.07	φ9.0Z	დან	φ13.00	00	400.0D	φ+00.00	φ1,900.69	φ∠,∠14.41	\$9,03b	1		

				_	Labour		Equi	pment		Fuel		Mat	terial	Activit	ty Totals	Sı	ubtotals]
WBS	Facility/Area Task	Activity	Qnty Units	Cost Code	Total Mhrs Unit Rate	Cost	Unit Rate	Cost Uni	it Rate	nsumed (L)	Cost	Unit Rate	Cost	Unit Rate	Cost	WBS Level 2	WBS Level 1	Source / Comments
.10	Mill Valley Fill Extension (Stage 1 and 2)		unty onits	Code	Total Mill's Onit Nate	0031	onicitate	0031 011	it Nate	(=)	0031	onit itate	0031	Unit Nate	0031	\$0	WEG Level 1	Source / Comments
1.10.1 1.11	Costs included in Waste Ro Minto South Portal	ock Dump Section (WBS#: A1.5)	- hrs													\$85,111		
1.11.1.1	Re-grade	Flat areas: Re-grade to ensure positive drainage	51 hrs	C.2.13	51.5 \$43.35	\$2,231.14			\$67.01	3,593	\$3,449.00	\$0.00	\$0.00	\$305.46	\$15,723			
.11.1.2 .11.1.3		Re-grade slopes to be 3H:1V or flatter Scarify surface	28 hrs 62,765 m2	C.2.13 C.2.16	28.0 \$43.35 0.0 \$0.03	\$1,215.40 \$2,129.82			\$67.01 \$0.02	1,957 1,115	\$1,878.82 \$1,070.73	\$0.00 \$0.00	\$0.00 \$0.00	\$305.46 \$0.11	\$8,565 \$6,661			
.11.2.	Revegetate	Seed/Fertilize: broadcast seeding	11.1 ha	C.6.01	366.5 \$1,005.46	\$11,123.13	\$397.11	\$4,393 \$	\$232.94	2,684	\$2,576.99	\$986.00	\$10,907.83	\$2,621.52	\$29,001			
.11.2.2 .12	elly Laydown Area	Tree seedling application (1,000 stems/ha)	11.1 ha	C.6.06	567.0 \$1,789.95	\$19,801.68	\$9.02	\$100	\$15.00	173	\$165.94	\$460.50	\$5,094.38	\$2,274.47	\$25,162	\$137,020		
.12.1.'	Re-grade	Flat areas: Re-grade to form tertiary drainage catchments	107 hrs	C.2.13	107.4 \$43.35	\$4,655.75	\$195.11		\$67.01	7,497	\$7,197.08	\$0.00	\$0.00	\$305.46	\$32,808	ψ157,020		
.12.2.	Cover	Load, haul, dump spread 0.5 m overburden cover	25,855 m3 5.17 ha	R.052 C.6.01	380.7 \$0.63 171.3 \$1,005.46	\$16,386.19 \$5,199.24		\$44,667	\$0.69 \$232.94	18,585	\$17,841.31 \$1,204.55	\$0.00	\$0.00	\$3.05 \$2,621.52	\$78,894 \$13,556			
.12.3.	Revegetate	Seed/Fertilize: broadcast seeding Tree seedling application (1,000 stems/ha)	5.17 ha	C.6.01 C.6.06	265.0 \$1,789.95	\$9,255.83			\$15.00	1,255 81	\$1,204.55 \$77.57	\$986.00 \$460.50	\$5,098.61 \$2,381.25	\$2,621.52 \$2,274.47	\$13,556 \$11,761			
.13	W15 Sump Area Laydown															\$32,883		
.13.1.	Re-grade	Flat areas: Re-grade to ensure positive drainage Slopes: Re-grade to 3H:1V	9 hrs 1 hrs	C.2.13 C.2.13	8.8 \$43.35 1.2 \$43.35	\$380.98 \$53.86			\$67.01 \$67.01	613 87	\$588.94 \$83.26	\$0.00 \$0.00	\$0.00 \$0.00	\$305.46 \$305.46	\$2,685 \$380			
.13.1.3	3	Scarify surface	9,484 m2	C.2.16	0.0 \$0.03	\$321.81		\$523	\$0.02	169	\$161.79	\$0.00	\$0.00	\$0.11	\$1,006			
.13.2.	Cover	Load, haul, dump spread 0.5 m overburden cover	6,974 m3	R.056 C.6.01	106.1 \$0.65	\$4,565.96 \$1,402.44		\$12,446	\$0.71	5,179	\$4,971.43	\$0.00	\$0.00	\$3.15	\$21,984			
.13.3.	Revegetate	Seed/Fertilize: broadcast seeding Tree seedling application (1,000 stems/ha)	1.39 ha 1.39 ha	C.6.01 C.6.06	46.2 \$1,005.46 71.5 \$1,789.95	\$1,402.44			\$232.94 \$15.00	338 22	\$324.92 \$20.92	\$986.00 \$460.50	\$1,375.30 \$642.32	\$2,621.52 \$2,274.47	\$3,657 \$3,172			
2	Waste Disposal										• • •	• • • • •		• /			\$502,536	
1	Hydrocarbon contaminated soils	Complete testing for contaminated soils	27 tost pits	C 2 02	19.5 \$21.74	\$804.34	\$3.49	\$120	\$2.92	112	\$107.89	\$200.00	\$7 400 00	\$229.14	\$8,441	\$61,130		
1.1.1 1.1.2		Complete testing for contaminated soils Excavate and haul contaminated soils to on-site landfarm facility	37 test pits 554 m3	C.3.03 R.034	18.5 \$21.74 19.9 \$1.54	\$804.34 \$853.07		\$129 \$1,478	\$2.92 \$0.96	112 552	\$107.89 \$529.72	\$200.00 \$0.00	\$7,400.00 \$0.00	\$228.14 \$5.16	\$8,441 \$2,861			
1.2.1	Construct landfarm	Existing Facility assumed to have sufficient capacity	0 m3											1 0 1 1 1	\$0			
1.3.1 1.3.2	Operate landfarm	Aerate contaminated soils (mix) Annual confirmation sampling	12 event 3 years	C.3.04 C.3.05	270.0 \$976.58 48.0 \$695.65	\$11,719.01 \$2,086.95			\$333.60 \$93.31	4,170 292	\$4,003.20 \$279.94	\$0.00 \$1,200.00	\$0.00 \$3,600.00	\$2,241.95 \$2,100.57	\$26,903 \$6,302			
1.4.1	Close landfarm	Remove soils and collect liner	554 m3	R.001	17.5 \$1.36	\$751.29	\$2.70	\$1,497	\$0.90	519	\$498.21	\$0.00	\$0.00	\$4.96	\$2,747			
.1.4.2		Cut/fold liner and place into waste disposal container Regrade area	4,265 m2 4,265 m2	C.1.15 C.2.11	49.6 \$0.42 42.7 \$0.43	\$1,807.96 \$1,848.75		\$837 \$5,494	\$0.07 \$0.35	308 1,567	\$295.29 \$1,504.69	\$0.00 \$0.00	\$0.00 \$0.00	\$0.69 \$2.07	\$2,940 \$8,848			
.1.4.3		Revegetation: Seed/Fertilizer: broadcast seeding	4,265 m2 0.43 ha	C.2.11 C.6.01	42.7 \$0.43	\$1,848.75 \$428.83			\$0.35 \$232.94	1,567	\$1,504.69 \$99.35	\$0.00 \$986.00	\$0.00 \$420.53	\$2.07 \$2,621.52	\$8,848 \$1,118			
.1.4.5		Tree seedling application (1,000 stems/ha)	0.43 ha	C.6.06	21.9 \$1,789.95	\$763.41			\$15.00	7	\$6.40	\$460.50	\$196.40	\$2,274.47	\$970			
.2.1.1	Metal Contaminated soils Crusher area	Delineate contaminated soil areas	197 test pits	C.3.01	98.5 \$21.74	\$4,282.59	\$3.49	\$687	\$2.92	598	\$574.45	\$260.00	\$51,220.00	\$288.14	\$56,764	\$154,581		
.2.1.2		Load, haul, dump contaminated soils to underground	2,949 m3	R.035	102.1 \$1.49	\$4,394.19	\$2.97	\$8,759	\$0.99	3,035	\$2,913.97	\$0.00	\$0.00	\$5.45	\$16,067			
.2.1.3		Complete confirmation testing	197 ea	C.3.02 C.3.01	32.8 \$7.27 99.0 \$21.74	\$1,431.83 \$4,304.33		\$246 \$691	\$0.00	0 601	\$0.00 \$577.37	\$13.00 \$260.00	\$2,561.00 \$51,480.00	\$21.52 \$288.14	\$4,239 \$57,052			
.2.2.1 .2.2.2	Mill Area	Delineate contaminated soil areas Load, haul, dump contaminated soils to underground	198 test pits 2,973 m3	R.035	99.0 \$21.74 103.0 \$1.49	\$4,304.33		\$8,830	\$2.92 \$0.99	3,060	\$577.37 \$2,937.83	\$260.00 \$0.00	\$51,480.00 \$0.00	\$288.14 \$5.45	\$57,052 \$16,198			
.2.2.3		Complete confirmation testing	198 ea	C.3.02	33.0 \$7.27	\$1,439.10		\$248	\$0.00	0	\$0.00	\$13.00	\$2,574.00	\$21.52	\$4,261			
.3 .3.1.1	Solid Waste Landfill Construction landfill	Place waste from site facilities	12,920 LCM	C.2.07	550.6 \$1.85	\$23,867.81	\$8.31	\$107,430	\$2.86	38,433	\$36,895.99	\$0.00	\$0.00	\$13.02	\$168,193	\$213,770		
.3.1.2		Place fill to minimize voids in the debris	3,371 m3	R.001	106.2 \$1.36	\$4,569.99		\$9,109	\$0.90	3,157	\$3,030.55	\$0.00	\$0.00	\$4.96	\$16,710			
.3.2.1 .3.2.2	Close landfill	Soil Cover: Load haul, dump spread, compact (0.6m)	5,024 m3 0.55 ha	R.002 C.6.01	190.0 \$1.57	\$7,911.01		\$14,536 \$217 \$	\$0.99	5,196 132	\$4,988.33 \$127.18	\$0.00	\$0.00 \$538.31	\$5.46 \$2,621.52	\$27,436			
.3.2.2 .4	Hazardous Material Off-Site Disposal	Revegetation: Seed/Fertilizer: broadcast seeding	0.55 na	0.6.01	18.1 \$1,005.46	\$548.93	\$397.11	\$217 \$	\$232.94	132	\$127.18	\$986.00	\$538.31	\$2,621.52	\$1,431	\$73,055		
2.4.1.1	Hazardous Waste	From Building Demo: Transport off-site for disposal	2 trip	C.7.04	14.5 \$343.01	\$620.06			\$113.33	213	\$204.86	\$0.00	\$0.00	\$765.52	\$1,384	,		
.4.3.3 .4.2.1	Reagents	Hazardous materials: Disposal and Tipping fees. Reagents: Transport to Whitehorse	1 ls 25 hrs	n/a C.1.22	0.0 \$0.00 99.3 \$155.59	\$0.00 \$3,863.74		\$0 \$2,418	\$0.00 \$26.93	0 697	\$0.00 \$668.71	\$0.00 \$0.00	\$0.00 \$0.00	\$63,000 \$279.90	\$63,000 \$6,951			
.4.2.2	ricugente	Reagents: Disposal and tipping fees	2.2 trips	C.7.04	18.0 \$343.01	\$771.00			\$113.33	265	\$254.73	\$0.00	\$0.00	\$765.52	\$1,721			
	Surface Water Conveyance															A	\$2,071,653	
5.1 5.1.1.1	W-15 to Main Pit (Ditch A3) Excavate channel	Load, haul, dump locally	40,300 m3	R.902	700.5 \$0.75	\$30,364.10	\$1.41	\$56,839	\$0.46	19,351	\$18,576.93	\$0.00	\$0.00	\$2.62	\$105,780	\$167,817		
.1.2.1	Place channel materials	Bedding layer: Screen and stockpile	1,872 m3	C.2.01	38.1 \$0.94	\$1,751.95	\$2.08	\$3,898	\$0.44	860	\$825.55	\$0.00	\$0.00	\$3.46	\$6,475			
.1.2.2 .1.2.3		Bedding layer: Load, haul, dump and place Rip-rap (angular, high quality): Screen and stockpile	1,872 m3 2,700 m3	R.016 C.2.15	69.6 \$1.60 0.0 \$2.48	\$2,996.40 \$6,689.06		\$6,464 \$16,447	\$1.10 \$1.86	2,149 5,227	\$2,062.79 \$5,018.29	\$0.00 \$0.00	\$0.00 \$0.00	\$6.15 \$10.43	\$11,523 \$28,155			
.1.2.4		Rip-rap: Load, haul, dump	2,700 m3	R.015	71.6 \$1.14	\$3,079.56		\$6,138	\$0.76	2,127	\$2,042.18	\$0.00	\$0.00	\$4.17	\$11,260			
.1.2.5 .2	W-35 to Area 2 Pit (Ditch B)	Rip-rap: Place and secure	2,700 m3	R.904	29.4 \$0.47	\$1,272.97	\$0.92	\$2,477	\$0.32	910	\$873.96	\$0.00	\$0.00	\$1.71	\$4,624	\$89.892		
.2 .2.1.1	Excavate channel	Load, haul, dump locally	3,800 m3	R.902	66.1 \$0.75	\$2,863.23	\$1.41	\$5,360	\$0.46	1,825	\$1,751.74	\$0.00	\$0.00	\$2.62	\$9,975	\$09,09Z		
.2.2.1	Place channel materials	Surface preparation: remove sharp objects, place fill as required	2,616 m2	C.2.18	89.4 \$1.28	\$3,345.38		\$0	\$0.00	0	\$0.00	\$0.00	\$0.00	\$1.28	\$3,345			
.2.2.2 .2.2.3		BGM Liner: Supply and install Bedding layer: Screen and stockpile	2,616 m2 646 m3	C.5.01 C.2.01	124.0 \$1.88 13.1 \$0.94	\$4,930.27 \$604.56		\$2,091 \$1,345	\$0.28 \$0.44	769 297	\$737.84 \$284.88	\$17.86 \$0.00	\$46,705.04 \$0.00	\$20.82 \$3.46	\$54,464 \$2,235			
.2.2.4		Bedding layer: Load, haul, dump and place	646 m3	R.018	27.3 \$1.82	\$1,176.49	\$3.93	\$2,538	\$1.25	844	\$809.92	\$0.00	\$0.00	\$7.00	\$4,524			
.2.2.5 .2.2.6		Rip-rap (angular, high quality): Screen and stockpile	912 m3 912 m3	C.2.15 R.017	0.0 \$2.48 27.2 \$1.28	\$2,258.42 \$1,170.96		\$5,553 \$2,334	\$1.86 \$0.85	1,765 809	\$1,694.32 \$776.51	\$0.00 \$0.00	\$0.00 \$0.00	\$10.43 \$4.70	\$9,506 \$4,281			
.2.2.7		Rip-rap: Load, haul, dump Rip-rap: Place and secure	912 m3 912 m3	R.017 R.904	27.2 \$1.28 9.9 \$0.47	\$1,170.96 \$429.79		\$2,334 \$836	\$0.85 \$0.32	809 307	\$776.51 \$295.07	\$0.00 \$0.00	\$0.00 \$0.00	\$4.70 \$1.71	\$4,281 \$1,561			
.3	Main Pit to Main Access Road (Ditch C1)	Land have been land.	40.000	D 000	000 0 00					0.445	Ø7 700 65	60.00	A 0 C 2	\$ 0.00	A 4 4 0	\$165,579		
.3.2.1 .3.3.1	Excavate channel Intake structure	Load, haul, dump locally Excavate soils to competent foundation materials	16,900 m3 2,450 Bm3	R.902 R.902	293.8 \$0.75 42.6 \$0.75	\$12,733.33 \$1,845.76		\$23,836 \$3,455	\$0.46 \$0.46	8,115 1,176	\$7,790.32 \$1,129.25	\$0.00 \$0.00	\$0.00 \$0.00	\$2.62 \$2.62	\$44,359 \$6,430			
.3.3.2		Supply an install precast-concrete intake wingwall intake structure	1 Is	C.5.12	140.0 \$5,808	\$5,807.91	\$3,658	\$3,658 \$	643.84	671	\$643.84	\$30,763	\$30,762.50	\$40,872	\$40,872			
.3.3.6 .3.4.1	Diago phone al materia la	Backfill and compact around structure	2,450 Cm3 1,573 m3	C.2.04 C.2.01	237.3 \$2.52 32.0 \$0.94	\$6,175.91 \$1,471.64		\$7,422 \$3,274	\$1.03 \$0.44	2,638 722	\$2,532.57 \$693.46	\$0.00 \$0.00	\$0.00 \$0.00	\$6.58 \$3.46	\$16,131 \$5,430			
.3.4.1 .3.4.2	Place channel materials	Bedding layer: Screen and stockpile Bedding layer: Load, haul, dump and place	1,573 m3 1,573 m3	C.2.01 R.020	32.0 \$0.94 77.3 \$2.12	\$1,471.64 \$3,327.39			\$0.44 \$1.43	722 2,345	\$693.46 \$2,250.91	\$0.00 \$0.00	\$0.00 \$0.00	\$3.46 \$7.97	\$5,439 \$12,530			
.3.4.3		Rip-rap (angular, high quality): Screen and stockpile	2,268 m3	C.2.15	0.0 \$2.48	\$5,618.81	\$6.09	\$13,816	\$1.86	4,391	\$4,215.36	\$0.00	\$0.00	\$10.43	\$23,650			
.3.4.4 .3.4.5		Rip-rap: Load, haul, dump Rip-rap: Place and secure	2,268 m3 2,268 m3	R.019 R.904	79.5 \$1.51 24.7 \$0.47	\$3,417.24 \$1,069.30		\$6,633 \$2,081	\$0.98 \$0.32	2,326 765	\$2,232.77 \$734.13	\$0.00 \$0.00	\$0.00 \$0.00	\$5.41 \$1.71	\$12,283 \$3,884			
4	Area 2 Pit to Main Pit Channel (Ditch D-1)															\$146,234		
4.1.1 4.2.1	Excavate channel Intake structure	Load, haul, dump locally Excavate soils to competent foundation materials	7,200 m3 4,453 Bm3	R.902 R.902	125.1 \$0.75 77.4 \$0.75	\$5,424.85 \$3,354.94		\$10,155 \$6,280	\$0.46 \$0.46	3,457 2,138	\$3,318.95 \$2,052.57	\$0.00 \$0.00	\$0.00 \$0.00	\$2.62 \$2.62	\$18,899 \$11,688			
4.2.1		Supply an install precast-concrete intake wingwall intake structure	4,453 Bm3 1 Is	R.902 C.5.12	140.0 \$5,808	\$3,354.94 \$5,807.91			\$0.46 \$643.84	2,138	\$2,052.57 \$643.84	\$0.00 \$30,763	\$0.00 \$30,762.50	\$2.62 \$40,872	\$11,688 \$40,872			
4.2.6		Backfill and compact around structure	4,453 Cm3	C.2.04	431.4 \$2.52	\$11,225.62	\$3.03	\$13,491	\$1.03	4,795	\$4,603.31	\$0.00	\$0.00	\$6.58	\$29,320			
.4.3.1 .4.3.2	Place channel materials	Bedding layer: Screen and stockpile Bedding layer: Load, haul, dump and place	1,309 m3 1,309 m3	C.2.01 R.018	26.6 \$0.94 55.3 \$1.82	\$1,224.30 \$2,382.52		\$2,724 \$5,140	\$0.44 \$1.25	601 1,709	\$576.91 \$1,640.18	\$0.00 \$0.00	\$0.00 \$0.00	\$3.46 \$7.00	\$4,525 \$9,163			
.4.3.3		Rip-rap (angular, high quality): Screen and stockpile	1,887 m3	C.2.15	0.0 \$2.48	\$4,674.47	\$6.09	\$11,494	\$1.86	3,653	\$3,506.90	\$0.00	\$0.00	\$10.43	\$19,675			
.4.3.4 .4.3.5		Rip-rap: Load, haul, dump	1,887 m3 1,887 m3	R.017 R.904	56.3 \$1.28 20.5 \$0.47	\$2,423.65 \$889.58		\$4,831 \$1,731	\$0.85 \$0.32	1,674 636	\$1,607.22 \$610.74		\$0.00 \$0.00	\$4.70 \$1.71	\$8,862 \$3,231			
6.4.3.5 6.5	Main Access Road to confluence with TDD	Rip-rap: Place and secure	1,007 [[]]3	1304	20.5 \$0.47	\$889.58	\$0.92	φ1,731	φ υ. 32	030	\$610.74	φU.UU	φU.U0	φ1./1	⊅ 3,∠31	\$234,152		
.5.1.1	Excavate channel	Load, haul, dump locally	25,896 m3	R.902	450.1 \$0.75	\$19,511.23		\$36,523	\$0.46	12,434	\$11,937.08	\$0.00	\$0.00	\$2.62	\$67,971			
5.2.1 5.2.2	Place channel materials	Bedding layer: Screen and stockpile Bedding layer: Load, haul, dump and place	4,141 m3 4,141 m3	C.2.01 R.022	84.2 \$0.94 220.4 \$2.29	\$3,874.90 \$9,481.55		\$8,621 \$19,326	\$0.44 \$1.53	1,902 6,593	\$1,825.92 \$6,328.98	\$0.00 \$0.00	\$0.00 \$0.00	\$3.46 \$8.48	\$14,322 \$35,137			
		Rip-rap (angular, high quality): Screen and stockpile	5,973 m3	C.2.15	0.0 \$2.48	\$14,794.63	\$6.09	\$36,378	\$1.86	11,562	\$11,099.27	\$0.00	\$0.00	\$10.43	\$62,272			
.5.2.3 .5.2.4		Rip-rap: Load, haul, dump	5,973 m3	R.021	245.7 \$1.77	\$10,562.39	\$3.43	\$20,502	\$1.16	7,189	\$6,901.30	\$0.00	\$0.00	\$6.36	\$37,966			

						Labo	ır	Equ	uipment		Fuel		Ма	aterial	Activ	vity Totals	Su	ubtotals	1
					Cost						Consumed								
WBS 13.5.2.5	acility/Area	Task	Activity Rip-rap: Place and secure	Qnty Units 5,973 m3	Code R.904	Total Mhrs Unit Rate 65.0 \$0.4		Unit Rate \$0.92	Cost \$5,479	Unit Rate \$0.32	(L) 2,014	Cost \$1,933.00	Unit Rate \$0.00		nit Rate \$1.71	Cost V \$10,227	WBS Level 2	WBS Level 1	Source / Comments
13.5.3.1		Stilling basin/Energy Dissi	paExcavate basin (spoil locally)	645 m3	R.902	11.2 \$0.7	\$486.20	\$1.41	\$910	\$0.46	310	\$297.46	\$0.00	\$0.00	\$2.62	\$1,694			
13.5.3.2			Geotextile: Supply and place Bedding layer: Screen and stockpile	540 m2 131 m3	C.5.07 C.2.01	7.7 \$0.5 2.7 \$0.9			\$36 \$272	\$0.06 \$0.44	31 60	\$29.86 \$57.55			\$2.77 \$3.46	\$1,497 \$451			
13.5.3.4			Bedding layer: Load, haul, dump and place	131 m3	R.024	7.7 \$2.5			\$672	\$1.69	229	\$220.12			\$9.36	\$1,222			
13.5.3.5			Rip-rap (at inlet and outlet): Screen and stockpile Rip-rap (at inlet and outlet): Load, haul, dump	75 m3 75 m3	C.2.15 R.023	0.0 \$2.4 3.2 \$1.8			\$457 \$259	\$1.86 \$1.17	145 91	\$139.37 \$87.84			\$10.43 \$6.43	\$782 \$482			
13.5.3.7			Rip-rap (at inlet and outlet): Place and secure	75 m3	R.904	0.8 \$0.4			\$69	\$0.32	25	\$24.27			\$1.71	\$128			
13.6 /		Vetland By-Pass Channel Excavate channel	Load, haul, dump locally	19,986 m3	R.902	347.4 \$0.7	\$15,058.23	\$1.41	\$28,188	\$0.46	9,597	\$9,212.71	\$0.00	\$0.00	\$2.62	\$52,458	\$202,344		
13.6.2.1		Place channel materials	Geotextile: Supply and place	12,402 m2	C.5.08	352.7 \$1.0	\$13,257.86	\$0.13	\$1,640	\$0.11	1,428	\$1,371.19	\$2.12	\$26,243.29	\$3.43	\$42,512			
13.6.2.2			Bedding layer: Screen and stockpile Bedding layer: Load, haul, dump and place	3,161 m3 3,161 m3	C.2.01 R.001	64.3 \$0.9 99.6 \$1.3			\$6,580 \$8,543	\$0.44 \$0.90		\$1,393.69 \$2,842.24			\$3.46 \$4.96	\$10,932 \$15,671			Assumes WSP fill can be re-used
13.6.2.4			Rip-rap (angular, high quality): Screen and stockpile	4,725 m3	C.2.15	0.0 \$2.4	\$11,702.71	\$6.09	\$28,775	\$1.86	9,145	\$8,779.64	\$0.00	\$0.00	\$10.43	\$49,258			
13.6.2.5			Rip-rap: Load, haul, dump Rip-rap: Place and secure	4,725 m3 4,725 m3	R.001 R.904	148.9 \$1.3 51.4 \$0.4			\$12,768 \$4,334	\$0.90 \$0.32		\$4,248.05 \$1,529.02			\$4.96 \$1.71	\$23,422 \$8,090			Assumes WSP rip-rap can be re-used
	Secondary Ca	tchment Channels		4,7231113	11.304		ψ2,227.10	ψ0.32	ψ+,00+	ψ0.52	1,555	ψ1,028.02	ψ0.00	φ0.00	ψ1.71	40,030	\$717,240		
13.7.1.1 13.7.1.2		Southwest Dump	Excavate mild-graded channels (good access), spoil locally	10,787 Bm3	R.902 R.903	187.5 \$0.7			\$15,214	\$0.46	5,180	\$4,972.55			\$2.62	\$28,314			
13.7.1.2			Excavate steep-graded channels (poor access), spoil locally Geotextile: Supply and place	6,640 Bm3 25,206 m2	C.5.07	131.0 \$0.8 358.4 \$0.5			\$10,631 \$1,667	\$0.52 \$0.06		\$3,474.49 \$1,393.36			\$2.98 \$2.77	\$19,784 \$69,867			
13.7.1.4			Bedding layer: Screen and stockpile	2,054 Cm3	C.2.01	41.8 \$0.9	\$1,922.03	\$2.08	\$4,276	\$0.44	943	\$905.70	\$0.00	\$0.00	\$3.46	\$7,104			
13.7.1.5			Bedding layer: Load, haul, dump and place in steep areas Rip-rap (angular, high quality): Screen and stockpile	2,054 Cm3 6,806 Cm3	R.028 C.2.15	72.2 \$1.5 0.0 \$2.4			\$6,021 \$41,455	\$0.99 \$1.86	2,111 13,175	\$2,026.92 \$12,648.20			\$5.43 \$10.43	\$11,151 \$70,962			
13.7.1.7			Rip-rap: Load, haul, dump	6,806 m3	R.027	223.5 \$1.4	\$9,616.00	\$2.82	\$19,167	\$0.94	6,642	\$6,376.76	\$0.00	\$0.00	\$5.17	\$35,159			
13.7.1.8 13.7.1.9			Rip-rap: Place in mild-graded channels (good access) Rip-rap: Place in steep-graded channels (poor access)	3,787 m3 3,019 m3	R.904 R.905	41.2 \$0.4 74.5 \$1.0			\$3,474 \$6,048	\$0.32 \$0.65	1,277 2,059	\$1,225.66 \$1,976.75			\$1.71 \$3.73	\$6,485 \$11,256			
13.7.2.1		Main Waste Dump	Excavate mild-graded channels (good access)	6,477 Bm3	R.902	112.6 \$0.7	\$4,879.85	\$1.41	\$9,135	\$0.46	3,110	\$2,985.52	\$0.00	\$0.00	\$2.62	\$17,000			
13.7.2.2			Excavate steep-graded channels (poor access), spoil locally	3,986 Bm3	R.903 C.5.07	78.6 \$0.8			\$6,381	\$0.52	2,172	\$2,085.55			\$2.98	\$11,875			
13.7.2.3			Geotextile: Supply and place Bedding layer: Screen and stockpile	15,132 m2 1,233 Cm3	C.5.07 C.2.01	215.1 \$0.5 25.1 \$0.9			\$1,000 \$2,567	\$0.06 \$0.44	871 566	\$836.50 \$543.64		\$32,019.54 \$0.00	\$2.77 \$3.46	\$41,945 \$4,264			
13.7.2.5			Bedding layer: Load, haul, dump and place in steep areas	1,233 Cm3	R.026	34.8 \$1.2	\$1,499.66	\$2.52	\$3,106	\$0.82	1,059	\$1,016.39	\$0.00	\$0.00	\$4.56	\$5,622			
13.7.2.6			Rip-rap (angular, high quality): Screen and stockpile Rip-rap: Load, haul, dump	4,086 Cm3 4,086 m3	C.2.15 R.025	0.0 \$2.4 101.4 \$1.0			\$24,887 \$9,048	\$1.86 \$0.72		\$7,593.11 \$2,960.56			\$10.43 \$4.01	\$42,601 \$16,377			
13.7.2.8			Rip-rap: Place in mild-graded channels (good access)	2,274 m3	R.904	24.7 \$0.4	\$1,071.86	\$0.92	\$2,086	\$0.32	767	\$735.89	\$0.00	\$0.00	\$1.71	\$3,894			
13.7.2.9		De alementina Ouertundea	Rip-rap: Place in steep-graded channels (poor access)	1,812 m3	R.905	44.7 \$1.0			\$3,630	\$0.65		\$1,186.53			\$3.73	\$6,756			
13.7.3.1		Reclamation Overburden	D Excavate mild-graded channels (good access), spoil locally Excavate steep-graded channels (poor access), spoil locally	4,886 Bm3 3,007 Bm3	R.902 R.903	84.9 \$0.7 59.3 \$0.8			\$6,891 \$4,814	\$0.46 \$0.52	2,346 1,639	\$2,252.36 \$1,573.40			\$2.62 \$2.98	\$12,825 \$8,959			
13.7.3.3			Geotextile: Supply and place	11,416 m2	C.5.07	162.3 \$0.5	\$6,101.82	\$0.07	\$755	\$0.06	657	\$631.08	\$2.12	\$24,156.52	\$2.77	\$31,644			
13.7.3.4 13.7.3.5			Bedding layer: Screen and stockpile Bedding layer: Load, haul, dump and place in steep areas	930 Cm3 930 Cm3	C.2.01 R.030	18.9 \$0.9 34.7 \$1.6			\$1,936 \$2,973	\$0.44 \$1.06	427 1,030	\$410.14 \$989.17	\$0.00 \$0.00	\$0.00 \$0.00	\$3.46 \$5.86	\$3,217 \$5,454			
13.7.3.6			Rip-rap (angular, high quality): Screen and stockpile	3,083 Cm3	C.2.15	0.0 \$2.4			\$18,775	\$1.86	5,967	\$5,728.47			\$10.43	\$32,139			
13.7.3.7			Rip-rap: Load, haul, dump	3,083 m3	R.029	97.0 \$1.3			\$8,315	\$0.90	2,882	\$2,766.52			\$4.95	\$15,254			
A13.7.3.8 A13.7.3.9			Rip-rap: Place in mild-graded channels (good access) Rip-rap: Place in steep-graded channels (poor access)	1,715 m3 1,367 m3	R.904 R.905	18.7 \$0.4 33.8 \$1.0			\$1,574 \$2,739	\$0.32 \$0.65	578 932	\$555.18 \$895.16	\$0.00 \$0.00		\$1.71 \$3.73	\$2,937 \$5,097			
13.7.4.1		DSTSF & MVFE	Excavate mild-graded channels (good access), spoil locally	7,378 Bm3	R.902	128.3 \$0.7	\$5,559.32	\$1.41	\$10,406	\$0.46	3,543	\$3,401.22	\$0.00	\$0.00	\$2.62	\$19,367			
A13.7.4.2 A13.7.4.3			Excavate steep-graded channels (poor access), spoil locally Geotextile: Supply and place	4,541 Bm3 17,239 m2	R.903 C.5.07	89.6 \$0.8 245.1 \$0.5			\$7,270 \$1,140	\$0.52 \$0.06	2,475 993	\$2,375.94 \$952.97			\$2.98 \$2.77	\$13,529 \$47,785			
13.7.4.4			Bedding layer: Screen and stockpile	1,405 Cm3	C.2.01	28.6 \$0.9			\$2,924	\$0.44	645	\$619.34			\$3.46	\$4,858			
13.7.4.5			Bedding layer: Load, haul, dump and place in steep areas	1,405 Cm3	R.024	82.5 \$2.5			\$7,233	\$1.69		\$2,368.79			\$9.36	\$13,151			
A13.7.4.6 A13.7.4.7			Rip-rap (angular, high quality): Screen and stockpile Rip-rap: Load, haul, dump	4,655 Cm3 4,655 m3	C.2.15 R.023	0.0 \$2.4 196.3 \$1.8			\$28,352 \$16,056	\$1.86 \$1.17	9,011 5,679	\$8,650.38 \$5,451.80			\$10.43 \$6.43	\$48,533 \$29,942			
13.7.4.8			Rip-rap: Place in mild-graded channels (good access)	2,590 m3	R.904	28.2 \$0.4	\$1,221.11	\$0.92	\$2,376	\$0.32	873	\$838.35	\$0.00	\$0.00	\$1.71	\$4,436			
13.7.4.9 13.8	Tailings Divers	sion Ditch	Rip-rap: Place in steep-graded channels (poor access)	2,065 m3	R.905	51.0 \$1.0	\$2,209.44	\$2.00	\$4,136	\$0.65	1,408	\$1,351.75	\$0.00	\$0.00	\$3.73	\$7,697	\$348,393		
13.8.1.2	-	Regrade	Slopes: Re-grade to 3H:1V	28 hrs	C.2.13	28 \$43.3		\$195.11	\$5,388	\$67.01	1,928	\$1,850		\$0	\$305.46	\$8,435	φ040,000		
13.8.2.1		Cover	Flat area cover material: Load, haul, dump spread Slope area cover material: Load, haul, dump along crest	25,182 Cm3 18,049 Cm3	R.057 R.058	562.3 \$0.9 352.6 \$0.8			\$64,487 \$39,732	\$1.05 \$0.95	27,585 17,921	\$26,482 \$17,204	-		\$4.57 \$3.99	\$115,152 \$72,086			
13.8.2.3			Slope area cover material: Spread down slope	14 hrs	C.2.13	14.0 \$43.3			\$2,730	\$67.01	977	\$937			\$305.46	\$4,274			
13.8.3.1		Revegetate	Seed/Fertilize: tractor application	9 ha	C.6.01	286.4 \$1,005.4			\$3,434	\$232.94	2,098	\$2,014	\$986.00	\$8,525	\$2,622	\$22,666			
A13.8.3.2 A13.8.4.1		Extend Channel to WSP	Tree seedling application (1,000 stems/ha) Clear and grub footprint	9 ha 7,645 m2	C.6.06 C.2.03	443.1 \$1,789.9 29.1 \$0.1			\$78 \$3,744	\$15.00 \$0.13	135 1,068	\$130 \$1,025		\$3,982 \$0	\$2,274 \$0.79	\$19,666 \$6,029			
13.8.4.2			Geotextile: Supply and place	7,645 m2	C.5.07	108.7 \$0.5	\$4,086	\$0.07	\$505	\$0.06	440	\$423	\$2.12		\$2.77	\$21,191			
13.8.4.3 13.8.4.4			Rip-rap (angular, high quality): Screen and stockpile Rip-rap: Load, haul, dump	3,701 m3 3,701 m3	C.2.15 R.031	0.0 \$2.4 173.8 \$2.0			\$22,542 \$14,215	\$1.86 \$1.30	7,164 5,028	\$6,878 \$4,827			\$10.43 \$7.16	\$38,587 \$26,509			
13.8.4.5			Rip-rap: Place in steep-graded channels (poor access)	3,701 m3	R.905	91.4 \$1.0			\$7,414	\$0.65		\$2,423			\$3.73	\$13,798			
	Nater Treatn Passive Treatr	nent ment Svstem - Minto Creek	Valley														\$389,129	\$478,467	
14.1.1.1		Water Management	Install pump and pump around system	8 hrs	C.4.14	32.0 \$117.6			\$182	\$6.80	57	\$54.40			\$147.11	\$1,177	4000,120		Assumed
14.1.1.2		Vallov Fill placers at	Maintain pump around system during wetland construction activities	1,440 hrs	C.4.13	144.0 \$3.4		\$14.94	\$21,514	\$2.00	3,000	\$2,880.00	\$0.00	\$0.00	\$20.41	\$29,393			Assumes wetlands constructed over 2 months
14.1.2.1 14.1.2.1		Valley Fill placement	Load, haul, dump material from the WSP excavation Load, haul dump valley fill material	85,918 m3 0 m3	n/a - cos n/a	ted as part of dam decom 0.0 \$0.0		\$0.00	\$0	\$0.00	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0			Fill from WSP excavation exceeds the required amount.
14.1.3.1		Construct wetlands	Excavate cells: Load, haul dump, spoil locally	14,459 m3	R.902	251.3 \$0.7	\$10,894.08	\$1.41	\$20,393	\$0.46		\$6,665.06	\$0.00	\$0.00	\$2.62	\$37,952			
14.1.3.2			Subgrade preparation: remove sharp objects, place fill as required Geotextile: Supply and install	9,273 m2 10,201 m2	C.2.18 C.5.08	317.0 \$1.2 290.1 \$1.0			\$0 \$1,349	\$0.00 \$0.11	0 1,175	0.00\$ \$1,127.78\$			\$1.28 \$3.43	\$11,860 \$34,966			
14.1.3.4			HDPE liner: Supply and install	10,201 m2	C.5.11	1,187.0 \$4.6	\$47,209.53	\$0.32	\$3,312	\$0.27	2,884	\$2,769.07	\$9.20	\$93,846.11	\$14.42	\$147,137			
14.1.3.5			Organics: Mulch organics, produce and stockpile	5,122 Cm3 5,122 Cm3	C.2.10 R.001	577.1 \$4.3 161.4 \$1.3			\$23,834 \$13,842	\$1.82 \$0.90	9,720 4,797	\$9,331.25 \$4,605,36			\$10.87 \$4.96	\$55,653 \$25,393			
14.1.3.6			Organics: Load, haul, dump, place in cell Plant wetland vegetation	5,122 Cm3 0.9 ha	C.6.05	161.4 \$1.3 40.6 \$1,409.7			\$13,842 \$129			\$4,605.36 \$166.92	\$0.00 \$1,136.50		\$4.96 \$2,864.89	\$25,393 \$2,657			
14.1.4.1		Conveyance channels	Excavate channels: Load, haul, dump locally	1,402 m3	R.902	24.4 \$0.7	\$1,056.54	\$1.41	\$1,978	\$0.46	673	\$646.39	\$0.00	\$0.00	\$2.62	\$3,681			
14.1.4.2			Surface preparation: remove sharp objects, place fill as required Geotextile: Supply and place	1,858 m2 1,858 m2	C.2.18 C.5.08	63.5 \$1.2 52.8 \$1.0			\$0 \$246	\$0.00 \$0.11	0 214	\$0.00 \$205.39			\$1.28 \$3.43	\$2,376 \$6,368			
14.1.4.4			HDPE Liner: Supply and install	1,858 m2	C.5.11	216.2 \$4.6	\$8,597.84	\$0.32	\$603	\$0.27	525	\$504.31	\$9.20	\$17,091.33	\$14.42	\$26,797			
14.1.4.5			Bedding/Protection layer: Screen and stockpile Bedding/Protection layer: Load, haul, dump and place	442 m3 442 m3	C.2.01 R.001	9.0 \$0.9 13.9 \$1.3			\$921 \$1,195	\$0.44 \$0.90	203 414	\$194.99 \$397.65			\$3.46 \$4.96	\$1,529 \$2,193			Assumes WSP fill can be re-used
14.1.4.6		Operation and maintenand	se System to be started Yr. 1 post-closure	442 m3 0 yr	n/a	0.0 \$0.0			\$1,195 \$0	\$0.90 \$0.00		\$397.65 \$0.00			\$4.96 \$0.00	\$2,193 \$0			
14.2	Southwest We	etlands			D cot				00.100							A11070	\$29,873		A second
14.2.1		Berm construction Outlet structures	Construct 3 berms across valley Excavate outlet channels through berms	3,000 m3 1 ls	R.001	94.5 \$1.3	\$4,067.62	\$2.70	\$8,108	\$0.90	2,810	\$2,697.41	\$0.00	\$0.00	\$4.96	\$14,873 \$15,000			Assumed Allowance
14.3	Decommission	n/demolish Water Treatmer	at System														\$59,465		
14.3.1.1 14.3.1.2		Remove equipment	Small equipment: dismantle and prep for transport Large equipment (crane req'd): dismantle and prep for transport	17 hrs 29 hrs	C.1.13 C.1.14	67.1 \$164.1 175.7 \$263.7			\$1,461 \$4,948	\$14.53 \$20.53	254 626	\$243.80 \$601.18			\$265.75 \$453.18	\$4,460 \$13,272			
14.3.1.2		Prepare for demolition	Reagents: Load for transport	29 hrs 0 hrs	C.1.14 C.1.22	0.0 \$155.5			\$4,948 \$0	\$20.53 \$26.93		\$601.18 \$0.00			\$453.18 \$279.90	\$13,272 \$0			
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							Labour		Equ	ipment		Fuel		Mat	erial	Activ	ity Totals	Si	ubtotals	
					Cost							Consumed								
S Facility/Area	Task	Activity	Qntv	Units	Code	Total Mhrs L	Init Rate	Cost	Unit Rate	Cost	Unit Rate	(L)	Cost	Unit Rate	Cost	Unit Rate	Cost	WBS Level 2	WBS Level 1	Source / Comments
2.2	Tusk	Reagents: Transport to Whitehorse		0.0 trips	C.7.04	0.0	\$343.01	\$0.00		\$0		0	\$0.00		\$0.00	\$765.52	\$0	HEO Level 2	NBO Level 1	oouroe / oonments
3.2.3		Reagents: Disposal and tipping fees		.0 ls	n/a	0.0	\$0.00	\$0.00		\$0	\$0.00	ő	\$0.00		\$0.00	\$0.00	\$0			
3.3.1	Demolition	Structural building demolition			C.1.05	325.0	\$67.73	\$11,007.90		\$22,118		5,729	\$5,499.69		\$0.00	\$237.66	\$38,625			
3.3.2		Other demolition: miscellaneous		15 m3	C.1.07	1.5	\$3.65	\$54.78		\$31	\$0.74	12	\$11.05		\$0.00	\$6.48	\$97			
3.4.1	Waste disposal	Off-site disposal (re-usable equipment, etc.)		3 trips	C.7.07	27.1	\$346.78	\$1,174.13	\$429.22	\$1,453		400	\$383.71		\$0.00	\$889	\$3,011			
total Direct Cost	ts - Active Closure																			
						109,936		\$4,463,861		\$7,476,591			\$2,764,110)	\$1,877,596				\$16,660,159	
RECT COSTS																				
Mobilization	-Demobilization																		\$305,210	
	Mobilization	Year 0		1 LS												\$152,605	\$152,605.16			
	Demobilization	Year 3 (end of Active Closure)		1 LS												\$136,116	\$136,116.00			
	Demobilization	End of Passive closure		1 LS												\$16,489	\$16,489.16			
Transportati	ion Costs																		\$406,656	6
1	Barge Operations		1	15 month												\$10,000	\$150,000			
	Staffing Bus trips during			60 ea (one j	per week)											\$678	\$40,656			Turnaround labour costs included in labour build-up
2	Air transport and airstrip	operations	7	72 flights												\$3,000	\$216,000			Three flights per week
Site/Road Ma	laintenance																		\$742,995	5
Road Mainten	ance																	\$682,358		
1	Water Truck	Assume needed 150 hrs per month	2	21 month												\$12,159	\$255,344			
2	Grader	Assume needed 150 hrs per month (16H + Operator)	2	21 month												\$20,334	\$427,015			Includes Main Access Road throughout closure peri
Soil Erosion																	• • • •	\$60,637		. .
1	Erosion control allowanc	ce Silt fencing: supply, install remove at strategic locations	7023.	.7 m	C.2.17	283.5	\$3.15	\$22,133.92	\$1.70	\$11,961	\$0.68	4,941	\$4,743.08	\$0.91	\$6,358.42	\$6.43	\$45,197			
2		Supply and install erosion control matting	1000	00 m2	C.2.09	175.4	\$0.65	\$6,468.99	\$0.03	\$317		548	\$526.32		\$8,128.20	\$1.54	\$15,440			
Construction	n Support																		\$5,169,797	7
Field Support																		\$3,198,878		Turnaround labour costs included in labour build-up
1	Mine Manager		2	21 month		(360.)	site working hou	rs per month							\$23,366	\$490,685	\$0,100,010		
	Office/Camp manager			21 month		í		site working hou								\$22,227	\$466,773			
3	Security/Administrative A	Assistant		21 month		í		site working hou								\$16,214	\$340,496			
4	Foreman	No o change and a		21 month		ì		site working hou								\$17,349	\$364,320			
5	Mechanic			21 month		í		site working hou								\$17,349	\$364,320			
6	Surveyor			21 month		í		site working hou								\$17,349	\$364,320			
7	Engineering technician	Material & QA/QC testing		.5 month		í		site working hou								\$42,120	\$442,260			Assumed needed 1/2 of time
	Medic/H&S supervisor	Material & QAVQO testing		21 month		(site working hou								\$ 17 ,414	\$365,703			Assumed needed 1/2 of time
Field support \			2			(500) 3	site working nou	is per monu							ψ17,+14	ψ303,703	\$774,669		
1	Pick-up trucks (4 require	ad)	g	84 month												\$4,518	\$379,500	\$774,003		
2	Fuel truck	50)		21 month												\$5,121	\$107,540			
3	Mechanic service vehicle			21 month												\$6,919	\$145,293			
4	Emergency transport vel			21 month												\$4,519	\$94,901			
5	Passenger bus	a licie		21 month												\$2,259	\$47,436			
	Equipment/Supplies		2													φ2,209	φ 4 7,430	\$1,196,249		
1	Light Towers		0	21 month			2 #	of Units								\$3,894	\$81,764	ψ1,150,249		
2	Material/Laboratory testi			21 month			∠ #									\$3,894 \$1,000	\$21,000			
2		ental, and H&S Management Plans		1 LS												\$25,000	\$21,000			
	Office supplies	ental, and had wallagement rians		21 month												\$25,000 \$1,000	\$25,000			
	Communications			21 month 21 month												\$1,000 \$1,000	\$21,000			
	Misc. supplies			21 month 21 month												\$1,000 \$500	\$21,000 \$10,500			
	Camp costs	Includes catering and housekeeping		94 man-day												\$500 \$80	\$10,500			
	Power and heat	includes catering and nousekeeping		21 month												\$6,500	\$136,500			
OA and Brok	ject Management		2													ψ0,000	φ130,300		\$1,860,889	
QA and Proj			~	21 mo-th			400.5	aite workin - h								¢0.070	P007 455		φ1,000,885	
	Project Manager			21 month		(site working hou								\$9,879	\$207,455			
	Design Engineer			21 month		(site working hou								\$54,000	\$1,134,000			
	Environmental Monitor		2	21 month		(360)s	site working hou	rs per month							\$15,699	\$329,684			
		nd Construction plans (included in Planning and Permitting Costs)														\$0.00	\$0			
	Field support vehicles (2		4	42 month												\$4,518	\$189,750			
otal Indirect Co	osts - Active Closure	•																		
																			\$8,485,547	7
SURE IMPLEME	ENTATION COSTS -	TOTAL																		
																			\$25,145,706	and the second

Worksheet 5 - Year 0 Estimate - Schedule Details

Project: Project No.: Client: Date of Submission: File Location:

Minto Mine Closure Cost Estimate - RCP Rev. 2016-01 1CM002.045 Minto Explorations Ltd. August 5, 2016 \\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\Cost Estimate\



A: Year 0 Site Access Schedule

										Mon	ith						
Stage	Flight Months	Helicopter Months	Barge Months	Total Months	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Comments/Notes
Interim Care	2	5	5	12	Н	Н	Н	F	F	В	В	В	В	В	Н	Н	
SUB-TOTAL INTERIM CARE	2	5	5	12													
Active Closure 1	2	0	5	7				F	F	В	В	В	В	В			
Active Closure 2	2	0	5	7				F	F	В	В	В	В	В			
Active Closure 3	2	0	5	7				F	F	В	В	В	В	В			
SUB-TOTAL ACTIVE CLOSURE	6	0	15	21													
Post-Closure 1	2	0	3	5				F	F	В	В	В					
SUB-TOTAL POST-CLOSURE 1	2	0	3	5													
Post-Closure 2	0	0	1	1						В							
SUB-TOTAL POST-CLOSURE 2	0	0	1	1													

B: Annual C&M Staffing Schedule - Interim Operations

								М	onth							
			Months									-			_	
	Role		Required	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Comments/Notes
Months Active a	at Site		12	1	1	1	1	1	1	1	1	1	1	1	1	
Administration/																
	Mine Manager		4				0.5	0.5	0.5	0.5	0.5	0.5	0.5			
	Office/Camp Mgr		6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
	Payroll/Accounting/HR		4				0.5	0.5	0.5	0.5	0.5	0.5	0.5			
Water Treatmen	nt/Environmental Staffing															
1	Warehouse/Water Treatment 0	Operator	5				1.0	1.0	1.0	1.0	1.0					
	Environmental Manager		4				1.0	0.5	0.5	0.5	0.5	0.5	0.5			
3	Environmental Technician		7	0.5	0.5	0.5	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Operations																
4	Barge Operator		10						2.0	2.0	2.0	2.0	2.0			
5	Equipment operators		13				2.0	3.0	1.5	1.5	1.5	1.5	1.5			
6	HD Mechanic		2				0.5	0.3	0.3	0.3	0.25	0.25	0.25			
7	Tradesmen		2				0.5	0.3	0.3	0.3	0.25	0.25	0.5			
8	Labour/Helpers		10	1	1	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0	1.0	
Camp/Support																
1	Cooks/Housecleaning etc.		0				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		Contract (accounted for in camp costs)
Other																
1	Visitors		2				0.25	0.25		0.25		0.25				
TOTAL			66.5	2.0	2.0	2.0	8.8	8.3	8.3	8.3	8.3	7.3	7.5	2.0	2.0	
	Annual m	nan-days:	1,995													

Notes:

0.5 personnel indicates staff on site 50% of time (i.e. no cross shift)
 Orange highlighted cells are used for camp-man day calculations only.

C: Annual C&M Staffing Schedule - During Active Phase

								М	onth							
			Months													
#	Role		Required	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Comments/Notes
Months Active			7				1	1	1	1	1	1	1			
Water Treatme	ent/Environmental Staffing															
1	Warehouse/Water Treatment	Operator	5				1.0	1.0	1.0	1.0	1.0					
2	Environmental Manager		4				1.0	0.5	0.5	0.5	0.5	0.5	0.5			
3	Environmental Technician		4				1.0	0.5	0.5	0.5	0.5	0.5	0.5			
TOTAL			13	0	0	0	3	2	2	2	2	1	1	0	0	
	Annual r	nan-davs:	390													

Notes: 1. 0.5 personnel indicates staff on site 50% of time (i.e. no cross shift)

D: Annual C&M Staffing Schedule - Post Closure 1

							Μ	onth							1
#	Role	Months Required	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Comments/Notes
Months Active	e at Site	5				1	1	1	1	1					
Administratio	n/Office														
1	Mine Manager	3				0.5	0.5	0.5	0.5	0.5					
2	Office/Camp Mgr	3				1.0	0.5	0.5	0.5	0.5					
3	Payroll/Accounting/HR	1				0.25	0.25	0.25	0.25	0.25					
Water Treatme	ent/Environmental Staffing														
1	Passive treatment specialist	2				0.5	0.5	0.3	0.3	0.3					
2	Environmental Manager	3				0.5	0.5	0.5	0.5	0.5					
3	Environmental Technician	3				0.5	0.5	0.5	0.5	0.5					
Operations															
4	Barge Operator	6						2.0	2.0	2.0					
5	Equipment operators	10				2.0	3.0	1.5	1.5	1.5					
6	HD Mechanic	2				1.0	0.25	0.25	0.25	0.25					
7	Tradesmen	2				1.0	0.25	0.25	0.25	0.25					
8	Labour/Helpers	2				1.0	0.25	0.25	0.25	0.5					
Camp/Suppor	t														
1	Cooks/Housecleaning etc.	0				0.0	0.0	0.0	0.0	0.0					Contract (accounted for in camp costs)
Other															
1	Visitors	1				0.25				0.25					
TOTAL		36	0	0	0	9	7	7	7	7	0	0	0	0	
	Annual r	nan-days: 1,073													

Notes:

0.5 personnel indicates staff on site 50% of time (i.e. no cross shift)
 Orange highlighted cells are used for camp-man day calculations only.

E: Annual C&M Staffing Schedule - Post Closure 2

							М	onth							
#	Role	Months Required	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Comments/Notes
Months Active	e at Site	1						1							
Administratio	n/Office														
1	Mine Manager	1						0.5							
2	Office/Camp Mgr	0						0.0							
3	Payroll/Accounting/HR	0						0.00							
Water Treatm	ent/Environmental Staffing														
1	Passive Treatment Scientist	1						0.5							
2	Environmental Manager	0													
3	Environmental Technician	0													
Operations															
4	Barge Operator	1						1.0							
5	Equipment operators	1						1.0							
6	HD Mechanic	1						0.50							
7	Tradesmen	0													
8	Labour/Helpers	0						0.25							
Camp/Suppor															
1	Cooks/Housecleaning etc.	0						0.0							Contract (accounted for in camp costs)
Other															
1	Visitors	0						0.25							
TOTAL		4	0	0	0	0	0	4	0	0	0	0	0	0	
	Annual n	nan-days: 120													

Notes:

0.5 personnel indicates staff on site 50% of time (i.e. no cross shift)
 Orange highlighted cells are used for camp-man day calculations only.

E: Annual C&M Staffing Schedule - Long-term perpetual maintenance year

							М	onth							
#	Role	Months Required	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Comments/Notes
Months Active	at Site	1							1						
Administration	/Office														
1	Project Manager/Foreman	1							1.0						
Water Treatme	nt/Engineering Staffing														
1	Passive Treatment Scientist	1							1.0						
2	Site Engineer	1							1.0						
3	Environmental Technician	0													
Operations															
4	Barge Operator	1							1.0						Assumed required 1/2 the time (near mob and demob)
5	Equipment operators	4							4.0						
6	HD Mechanic	1							0.50						
7	Tradesmen	0													
8	Labour/Helpers	1							1.00						
Camp/Support															
1	Cooks/Housecleaning etc.	0													Contract (accounted for in camp costs)
Other															
1	Visitors	1							0.50						
TOTAL		10	0	0	0	0	0	0	10	0	0	0	0	0	
	Annual r	nan-days: 300													

Notes:

0.5 personnel indicates staff on site 50% of time (i.e. no cross shift)
 Orange highlighted cells are used for camp-man day calculations only.

Worksheet 6- Year 0 Estimate - Planning and Permitting Costs Project: Minto Mine Closure Cost Estimate - RCP Rev. 2016-01 Project No.: 1CM002.045 Client: Minto Explorations Ltd. Date of Submission: August 5, 2016 File Location: WAN-SVR0/Projects/01_SITES/Minto/1CM002.045_ClosureCosts/Cost Estimate/



Versiting

Planning And Permitting

WBS	Facility/Area	Task	Activity	Qnty	Unit	Total Unit Rate (\$/unit)	Activity Total	Subtotal	Source / Comments
M1	Planning and P	ermitting							
M1.1	Reclamation Re	esearch/Planning						\$400,000	
M1.1.1		Complete reclamation closu	ire and research plan	2	yr	\$200,000	\$400,000		
M1.2	Technical studie	es and investigations						\$58,500	
M1.2.1		Tailings and WR materials t	esting and monitoring program	1	ls	\$36,000	\$36,000		
M1.2.2		Pit lake water quality model		1	ls	\$22,500	\$22,500		
M1.3	Monitoring and	Management Plans						\$95,000	
M1.3.1		Adaptive Mgmt Plans	Physcial, water quality, etc	1	ls	\$15,000	\$15,000		
M1.3.2		Revegetation plan		1	ls	\$30,000	\$30,000		
M1.3.3		Waste Management Plan	Water treatment, sludge, landfarm, etc.	1	ls	\$50,000	\$50,000		
M1.4	Engineering, De	esign, and Construction Plan	S					\$833,008	
M1.4.1		Percentage of direct implem	nentation costs	5%	of	\$16,660,159	\$833,008		
M1.5	Permitting							\$0	
M1.5.1.1		Permit Staffing	Permitting Manager	0	ls	\$0	\$0		Staffing costs included in tasks above
M1.5.1.2			Environmental Manager	0	ls	\$0	\$0		
M1.5.1.3			Technical Consultants	0	ls	\$0	\$0		
TOTAL								\$1,386,508	

Worksheet 7 - EOM Estimate - Cashflow Calculations

Worksheet 7 - EOM Estimate - Cashflow Calculations Project: Minto Mine Closure Cost Estimate - RCP Rev. 2016-01	Ccapstone
Project No.: 1CM002.045	BANK CTANK
Client: Minto Explorations Ltd.	
Date of Submission: August 5, 2016	💎 srk consulting
File Location: \\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\Cost Estimate\	v seriesiterig
NPV CALCULATION INPUTS	

NOTE: Columns between Years 2046 and 2116 are hidden for printing purposes.

NOTE: Columns between Years 2046 and 2116	are hidden	for printing purposes.	Short-Term	Interest Rate (Inte	rim Care/Implem	entation Cos	ts)
			##	Inflation Rate	Years in effect	Start Year	End Year
			1	2.0%	100	2016	2116
Input Parameters	FOM Closure		Long-Term	Monitoring/Mainte	nance NPV Disco Years in effect	ount Rates Start Year	End Year
Current Year:	2016	Year that the estimate is costed	1	1.75%	2	2016	2018
Closure Year 1:	2018		2	2.0%	3	2019	2022
Closure Period:	3	yrs	3	2.5%	-	2023	
Post-Closure Year 1:	2021						

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27 | Year 28 | Year | r 29 Y |
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1			\$142,995 47 \$4,832,506 279	% \$742,995 % \$4,832,506	\$0) \$0) \$0		245,189 \$245, 594.727 \$1.594.7		au \$0	\$0	\$0	\$0	\$0	\$U	\$0	<u>م</u>	3U	¢۵	<u>۵</u> 0	3U	φU ©0	ου \$ 60 6	u \$0	5	u \$U	\$	pu \$0	\$	iu \$0	\$0	3U	υ¢	3U 60
	Construction Support QA and Pro. Mgmt.		\$4,632,506 277 \$1.860.889 109	% \$4,832,506 % \$1.860.889	\$U \$0) 50) 60	\$1,010,00L \$1,	.594,727 \$1,594,1 614.093 \$614.0		\$U \$U	\$0	\$U	\$U	30	\$U	\$0	\$U	\$U 60	\$U \$0	\$U 60	\$0	\$U ©0	ას ა რი რ	0 \$0	3	0 \$0	\$	90 QU	3	0 50	\$U	\$0		
Subtotal - C	losure Implementation Costs		\$1,000,009 107 \$17.906.885	\$1,000,009	30 \$0) 50 N \$0		544.355 \$6.034.4		50 50 68 \$11.068	\$0 \$11.068	\$23.590	\$0 \$75.954	\$0 \$0	\$U \$0	\$U \$0	ֆՍ \$0	30 \$0	\$U \$0	\$U \$0	30 \$0	\$0 \$0	ຈ∪ ຈ ¢n ¢	0 \$0 0 \$0	ې د	0 \$0 0 \$0	ې د	50 \$0 50 \$0	ې د	0 \$0 0 \$0	3U \$0	\$0 \$0	\$0 \$0	30 \$0
oubtotal - C	loadre implementation coata		\$17,300,003	\$17,300,005	ψU	φυ	40,100,001 40,	,544,555 \$0,054,	τ <u>2</u> 5 φ11,0	00 \$11,000	\$11,000	<i>4</i> 23,330	\$13,334	40	ψŪ	ŞU	ψŪ	ψŪ	ΨŪ	ΨŪ	ψŪ	ψŪ	40 4	φ φυ	4	φ φυ		φ υ φυ	ų	i0 40	ψŪ	40	40	40
Monitorin	g Costs																																	
			Total % of Total	Check Sum	2016	2017	2018 2	2019 2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032 2	033 20	34 2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2124 212
1	Planning and	Reclamation Research and Planning	\$200,000 7%	\$200,000	\$100,000		\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$	0 \$0	\$	0 \$0	\$	\$0 \$0	\$	0 \$0	\$0	\$0	\$0	\$0
2	Permitting	Technical Studies and Investigations	\$58,500 29	\$58,500	\$29,250				\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$	0 \$0	\$	0\$0	\$	\$0 \$0	\$	0 \$0	\$0	\$0	\$0	\$0
3		Engineering, Design, and Construction Plans	\$487,931 18%	\$487,931	\$146,379	\$195,173	\$48,793	\$48,793 \$48,7	793	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$	0\$0	\$1	0 \$0	\$	\$0 \$0	\$	0 \$0	\$0	\$0	\$0	\$0
4		Monitoring and Management Plans	\$95,000 3%	\$95,000	\$47,500	\$47,500	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$	0 \$0	\$1	0 \$0	\$	\$0 \$0	\$	0 \$0	\$0	\$0	\$0	\$0
5		Permitting	\$0 0%	% \$0	\$0) \$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$	0 \$0	\$	0 \$0	\$	\$0 \$0	\$	0 \$0	\$0	\$0	\$0	\$0
1	Monitoring	Water Quality Monitoring	\$870,551 319	\$870,551	\$0	\$0	\$58,812	\$58,812 \$58,8	312 \$47,7	12 \$47,712	\$47,712	\$47,712	\$47,712	\$23,763	\$23,763	\$23,763	\$23,763	\$23,763	\$23,763	\$23,763 \$	\$23,763 \$2	3,763 \$23,7	63 \$	0 \$0	\$1	0 \$0	\$	\$0 \$0	\$	0 \$0	\$0	\$24,214	\$0	\$0 \$24,3
2	-	Sediment Monitoring	\$54,536 2%	\$54,536	\$0) \$0	\$3,208	\$3,208 \$3,2	208 \$3,2	08 \$0	\$3,208	\$0	\$3,208	\$0	\$0	\$0	\$0	\$3,208	\$0	\$0	\$0	\$0 \$3,2	08 \$	0 \$0	ŞI	0 \$0	S	\$0 \$0	\$	0 \$0	\$0	\$3,208	\$0	\$0 \$3,3
3		Biological Monitoring	\$180,099 6%	\$180,099	\$0) \$0	\$10,594	\$10,594 \$10,5	594 \$10,5	94 \$0	\$10,594	\$0	\$10,594	\$0	\$0	\$0	\$0	\$10,594	\$0	\$0	\$0	\$0 \$10,5	94 \$	0 \$0	SI	0 \$0	S	\$0 \$0	\$	0 \$0	\$0	\$10,594	\$0	\$0 \$10,
4		Geotechnical Monitoring	\$353,601 13%	\$353,601	\$0) \$0	\$12.316	\$12.316 \$12.3	316 \$12.3	16 \$12,316	\$12,316	\$12,316	\$12,316	\$0	\$0	\$0	\$0	\$23,188	\$0	\$0	\$0	\$0 \$23.1	88 \$	0 \$0	S	0 \$0	S	50 \$O	S	0 \$0	\$0	\$23,188	\$0	\$0 \$23,
5		Revegetation Monitoring	\$200,071 7%	\$200,071	\$0) \$0	\$10,530	\$10,530 \$10,5	530 \$10,5					\$0	\$0	\$0	\$0	\$10,530	\$0	\$0	\$0	\$0 \$10.5	30 \$	0 \$0	SI	0 \$0	S	50 \$ 0	Ś	0 \$0	\$0	\$10,530	\$0	\$0 \$10,
6		Annual Inspection Reporting	\$281.876 10%	\$281,876	\$0	\$0	\$2,372	\$2.372 \$2.3						\$0	\$0	\$0	\$0	\$23,900	\$0	\$0	\$0	\$0 \$23.9	00 \$	0 \$0	S	0 \$0	s	50 \$0	ŝ	0 \$0	\$0		\$0	\$0 \$23,
Post Closur	e Costs Subtotal	· · · · · · · · · · · · · · · · · · ·	\$2,782,166	\$2,782,166	\$323,129	\$371,923	\$146,626 \$	146,626 \$146,0						\$23,763	\$23,763	\$23,763	\$23,763	\$95,183	\$23,763	\$23,763 \$	\$23,763 \$2	3,763 \$95,1	83 \$	0 \$0	\$	0 \$0	ŝ	\$0 \$0	ŝ	0 \$0	\$0	\$95,635	\$0	\$0 \$95,
Care and	Maintenance Costs																																	
oure und			Total % of Total	Check Sum	2016	2017	2018 2	2019 2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032 2	033 20	34 2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2124 212
1	Water Treatment	Active System	\$6,379,919 399		\$0) \$0	\$686,853 \$	686,853 \$686,8	\$686,8	53 \$686,853	\$686,853	\$686,853	\$686,853	\$88,509	\$88,509	\$88,509	\$88,509	\$88,509	\$88,509	\$88,509 \$	\$88,509 \$8	8,509 \$88,5	09 \$	0 \$0	\$	0 \$0	\$	\$0 \$0	\$	0 \$0	\$0	\$0	\$0	\$0
2		Passive System	\$557,443 3%	\$557,443	\$0	\$0	\$0	\$0	\$0 \$34,8	40 \$34,840	\$34,840	\$34,840	\$34,840	\$0	\$0	\$0	\$0	\$34,840	\$0	\$0	\$0	\$0 \$34,8	40 \$	0 \$0	\$1	0 \$0	\$	\$0 \$0	\$	0 \$0	\$0	\$34,840	\$0	\$0 \$34,
3	Reclamation Maintenance	(Cover/Reveg Repairs)	\$1,107,338 7%	\$1,107,338	\$0	\$0	\$0	\$0	\$0 \$221,4	68 \$221,468	\$221,468	\$221,468	\$221,468	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$	0 \$0	\$	0 \$0	\$	\$0 \$0	\$	0 \$0	\$0	\$0	\$0	\$0
4	Site Maintenance		\$1,632,451 10%	\$1,632,451	\$0) \$0	\$30,000	\$30,000 \$30,0	000 \$93,0	72 \$93,072	\$93,072	\$93,072	\$93,072	\$0	\$0	\$0	\$0	\$93,072	\$0	\$0	\$0	\$0 \$93,0	72 \$	0 \$0	\$	0 \$0	\$	\$0 \$0	\$	0 \$0	\$0	\$98,994	\$0	\$0 \$98,
5	On-site Management		\$5,736,697 359	\$5,736,697	\$0) \$0	\$306,988 \$	306,988 \$306,9	988 \$607,3	41 \$607,341	\$607,341	\$607,341	\$607,341	\$0	\$0	\$0	\$0	\$84,956	\$0	\$0	\$0	\$0 \$84,9	56 \$	0 \$0	S	0 \$0	S	\$0 \$0	\$	0 \$0	\$0	\$178,791	\$0	\$0 \$178,
6	Transportation Costs		\$1,100,206 79	\$1,100,206	\$0) \$0	\$50,000	\$50,000 \$50,0	\$62,1	31 \$62,131	\$62,131	\$62,131	\$62,131	\$0	\$0	\$0	\$0	\$20,000	\$0	\$0	\$0	\$0 \$20,0	00 \$	0 \$0	ŞI	0 \$0	S	\$0 \$0	\$	0 \$0	\$0		\$0	\$0 \$66,
Post Closur	e Costs Subtotal		\$16,514,054	\$16,514,054	\$0	\$0	\$1,073,842 \$1,	073,842 \$1,073,8	\$42 \$1,705,7	05 \$1,705,705	\$1,705,705	\$1,705,705	\$1,705,705	\$88,509	\$88,509	\$88,509	\$88,509	\$321,377	\$88,509	\$88,509 \$	\$88,509 \$8	8,509 \$321,3	77 \$	0 \$0	\$1	0 \$0	\$	\$0 \$0	\$	i0 \$0	\$0	\$379,242	\$0	\$0 \$379,
Other Add	I-on Costs																																	
			Total % of Total	Check Sum	2016	2017	2018 2	2019 2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032 2	033 20	34 2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2124 212
1	Contingency	12% % of above costs	\$4,464,373	\$4,464,373	\$38,776	\$44,631	\$769,899 \$	931,779 \$870,5	587 \$216,4	21 \$214,764	\$216,421	\$216,267	\$224,207	\$13,473	\$13,473	\$13,473	\$13,473	\$49,987	\$13,473	\$13,473 \$	\$13,473 \$1	3,473 \$49,9	87 \$	0 \$0	\$1	0 \$0	\$	\$0 \$0	\$	60 \$0	\$0	\$56,985	\$0	\$0 \$56,
2	Worker's compensation	0% (Included in labour rates)	\$0	\$0	\$0) \$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$	0 \$0	\$	0 \$0	\$	\$0 \$0	\$	0 \$0	\$0	\$0	\$0	\$0
3	Insurance	1.5% % of above labour costs	\$150,224.26	\$150,224	\$1,305	\$1,502	\$25,907	\$31,354 \$29,2	295 \$7,2	82 \$7,227	\$7,282	\$7,277	\$7,544	\$453	\$453	\$453		\$1,682	\$453	\$453	\$453	\$453 \$1,6	82 \$	0 \$0	\$0	0 \$0	\$	\$0 \$0	\$	0 \$0	\$0	\$1,918	\$0	\$0 \$1,
4	Bonding	3% % of Implem. & C&M costs	\$1,032,628.17	\$1,032,628	\$0.00	\$0	\$188,076 \$	228,546 \$213,2	248 \$51,5	03 \$51,503	\$51,503	\$51,879	\$53,450	\$2,655	\$2,655	\$2,655		\$9,641	\$2,655			2,655 \$9,6	41 \$	0 \$0	\$1	0 \$0	\$	\$0 \$0	\$	0 \$0	\$0		\$0	\$0 \$11,3
5	Contractor Profit	10% % of above costs	\$3,720,310	\$3,720,310	\$32,313			776,482 \$725,4				\$180,223	\$186,839	\$11,227	\$11,227	\$11,227		\$41,656				1,227 \$41,6		0 \$0	\$	0 \$0	\$	\$0 \$0	\$	60 \$0	\$0		\$0	\$0 \$47,-
6	Contract Administration	5% % of above costs	\$1,860,155	\$1,860,155	\$16,156			388,241 \$362,3				\$90,111	\$93,420	\$5,614		\$5,614		\$20,828	\$5,614			5,614 \$20,8		0 \$0	\$	0 \$0	\$	\$0 \$0	\$	0 \$0		\$23,744	\$0	\$0 \$23,
Other Add-0	In Costs Subtotal		\$11,227,691	\$11,227,691	\$88,550	\$101,921	\$1,946,255 \$2,	356,402 \$2,201,3	363 \$545,7	32 \$541,950	\$545,732	\$545,757	\$565,460	\$33,422	\$33,422	\$33,422	\$33,422	\$123,795	\$33,422	\$33,422 \$	\$33,422 \$3	3,422 \$123,7	95 \$	0 \$0	\$	0 \$0	\$	\$0 \$0	\$	0 \$0	\$0	\$141,511	\$0	\$0 \$141,
TOTAL			\$48,430,795	\$48,430,795	\$411,679	\$473,843	\$8,362,079 \$10,	121,224 \$9,456,3	254 \$2,349,2	38 \$2,331,654	\$2,349,238	\$2,347,983	\$2,433,852	\$145,694	\$145,694	\$145,694	\$145,694	\$540,355	\$145,694	\$145,694 \$1	45,694 \$14	5,694 \$540,3	55 \$	0 \$0	\$	0 \$0	\$	\$0 \$0	\$	i0 \$0	\$0	\$616,388	\$0	\$0 \$616,
			,,	1.14.144	. ,	,,		,,	. ,,-							,							•	**			-		+	**	**			

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INFLATION FACTORED INTERIM CARE AND CLOSURE IMPLEMENTATION COSTS

Area		Present Value % of Total	Euture Value	Year -2 2016		ear 1 Year 2 018 2019		Year 4	Year 5	Year 6 2023	Year 7 2024		ar 9 Year 10	Year 11 2028	Year 12 2029	Year 13 '		ear 15 Year 1	6 Year 17	Year 18 2035	Year 19 Ye	r 20 Year		2 Year 2	3 Year 24	Year 25	Year 26	Year 27		Year 29 Yea 2046 2
Costs Waste Dumps		\$1,860,150 10%	\$1,958,524	\$0		\$774,120 \$1,184,		0 \$0	\$0	\$0	\$0	\$0	\$0 \$	i0 \$0) \$0	\$0	\$0	\$0	\$0 \$	2035	\$0	\$0	\$0	\$0	\$0 \$	\$0 \$	2043 30 \$C	<u></u> ວ \$0	\$0	\$0
Overburden Dumps		\$340,650 2%	\$368,730	\$0	\$0		\$0 \$368,730	0 \$0	\$0	\$0	\$0	\$0	\$0 \$	60 \$0) \$0	\$0	\$0	\$0	\$0 \$	D \$0	\$0	\$0	\$0	\$0	\$0 \$	\$0 \$	0\$0	J \$0	\$0	\$0
Ore Stockpiles		\$718,046 4%	\$747,055	\$0	\$0 \$	\$747,055 \$0 \$21.	\$0 \$0	0 \$0	\$0	\$0	\$0	\$0	\$0 \$	0 \$0) \$0	\$0	\$0	\$0	\$0 \$	0 \$0	\$0	\$0	\$0	\$0	\$0 \$	¢0 \$/	.0 \$0	J \$0	\$0	\$0
Open Pits Underground Openings		\$39,929 0% \$25,661 0%	\$42,797 \$26,698	\$0	\$0		187 \$21,610 \$0 \$0	0 \$0	\$0	\$0	\$0	\$0	\$0 \$ \$0 \$	0 \$L :0 \$C) \$0) \$0	\$0	\$0	\$0	\$0 \$1 \$0 \$1	D \$0	\$0	\$0	\$0	\$0	\$0 3 \$0 9	20 \$F	.0 \$0 \$0 \$(/ \$U	\$0	\$0
External Tailings Facilities		\$150,214 1%	\$157,845	\$0		\$78,141 \$79,		0 \$0	\$0	\$0	\$0	\$0	\$0 \$	i0 \$0) \$0	\$0	\$0	\$0	\$0 \$	D \$0	\$0	\$0	\$0	\$0	\$0 \$	\$0 \$	¢0 \$0	J \$0	\$0	\$0 \$0
Roads		\$106,478 1%	\$115,255	\$0	\$0	\$0	\$0 \$115,255		\$0	\$0	\$0	\$0	\$0 \$	i0 \$0) \$0	\$0	\$0	\$0	\$0 \$	D \$0	\$0	\$0	\$0	\$0	\$0 \$	\$0 \$	0\$0	ງ \$0	\$0	\$0
Demolition		\$1,933,168 11%	\$2,053,626	\$0		\$201,127 \$1,538,			\$0	\$0	\$0	\$0	\$0 \$	0 \$0) \$0	\$0	\$0	\$0	\$0 \$	D \$0	\$0	\$0	\$0	\$0	\$0 \$	\$0 \$ ⁷	,0 \$0	J \$0	\$0	\$0
Surface Infrastructure		\$118,389 1%	\$125,647	\$0	\$0	\$30,793 \$62, \$0 \$392.			\$0	\$0	\$0	\$0	\$0 \$	i0 \$0) \$0	\$0	\$0	\$0	\$0 \$	0 \$0	\$0	\$0	\$0	\$0	\$0 \$	<u>نان (0</u>	.0 \$0	J \$0	\$0	\$0
Water Detention Structures Yards/Laydown Areas		\$739,172 4% \$703,988 4%	\$792,259 \$750,886	\$0	\$0 \$0 \$	\$0 \$392, \$183,107 \$186,			\$0	\$0	\$0	\$0	\$0 \$ \$0 \$	10 SC 10 SC) \$0) \$0	\$0 \$0	\$0	\$0	\$0 \$1 \$0 \$1	J \$0 D \$0	\$0	\$0	\$0	\$0	\$0 3 \$0 9	,0 5 \$0 f	0 \$0 \$0 \$C	, 50 0 \$0	\$0	\$0
Waste Disposal		\$502,536 3%	\$546,062	\$0	\$0	\$0 \$73,			\$12,465	\$12,714	\$27,639	\$0	\$0 \$	i0 \$0	\$0	\$0	\$0	\$0	\$0 \$	D \$0	\$0	\$0	\$0	\$0	\$0 \$	\$0 \$	¢۵ \$۵	ა \$0	\$0	\$0
Surface Water Conveyance		\$2,071,653 12%	\$2,211,817	\$0	\$0 \$		536 \$1,121,212	2 \$0	\$0	\$0	\$0	\$0	\$0 \$	i0 \$0) \$0	\$0	\$0	\$0	\$0 \$	D \$0	\$0	\$0	\$0	\$0	\$0 \$	\$0 \$	0\$0	ງ \$0	\$0	\$0
Water Treatment		\$448,594 3%	\$492,272	\$0	\$0		\$0 \$421,206		\$0	\$0	\$0	\$71,066	\$0 \$	i0 \$0) \$0	\$0	\$0	\$0	\$0 \$	D \$0	\$0	\$0	\$0	\$0	\$0 \$	\$0 \$ [']	,0 \$0	J \$0	\$0	\$0
t Mobilization-Demobilization Transport Costs		\$305,210 2% \$406,656 2%	\$325,813 \$431,518	\$0		\$158,770 \$143,849 \$142,	\$0 \$147,336 410 \$145,259	6 \$0	\$0	\$0	\$0	\$19,706	\$0 \$	0 \$0) \$0	\$0	\$0	\$0	\$0 \$	D \$0	\$0	\$0	\$0	\$0	\$0 \$	⁄\$ 00	.0 \$0	J \$0	\$0	\$0
Road Maintenance		\$742,995 4%	\$788.420	\$0		\$262,824 \$260,			\$0	\$0	\$0 \$0	\$0	\$0 \$ \$0 \$	10 SC 10 SC) \$0) \$0	\$0 \$0	\$0	\$0	\$0 \$1 \$0 \$1	J \$U D \$0	\$0	\$0	\$0 \$0	\$0 \$0	\$0 3 \$0 9	10 5 \$0 9	0 \$0 \$0 \$C	, 50 0 \$0	\$0	
Construction Support		\$4,832,506 27%	\$5,127,952	\$0		,709,431 \$1,692,			\$0	\$0	\$0	\$0	\$0 \$	i0 \$0) \$0	\$0	\$0	\$0	\$0 \$	0 \$0	\$0	\$0	\$0	\$0	\$0 9	\$0 \$	۵0 SC	ა \$0	\$0	\$0
QA and Pro. Mgmt.		\$1,860,889 10%	\$1,974,658	\$0	\$0 \$	\$658,263 \$651,	681 \$664,714	4 \$0	\$0	\$0	\$0	\$0	\$0 \$	i0 \$0) \$0	\$0	\$0	\$0	\$0 \$	0 \$0	\$0	\$0	\$0	\$0	\$0 \$	\$0 \$	0 \$0	ງ \$0	\$0	\$0
al - Closure Implementation Costs		\$17,906,885	\$19,037,836	\$0	\$0 \$5	,405,249 \$6,944,	922 \$6,531,854	4 \$12,220	\$12,465	\$12,714	\$27,639	\$90,772	\$0 \$	i0 \$0) \$0	\$0	\$0	\$0	\$0 \$	D \$0	\$0	\$0	\$0	\$0	\$0 \$	<u>\$0 \$</u>	,0 \$0	\$0	\$0	\$0
toring Costs																														
	la		Future Value	2016	2017 2	018 2019	2020	2021	2022	2023	2024	2025 20	26 2027	2028	2029	2030	2031 2	2032 2033	2034	2035	2036 2	37 203	8 2039	2040	2041	2042	2043	2044	2045	2046 2
Planning and permitting	Reclamation Research and Planning	\$200,000 7%	\$202,000		\$102,000	\$0	\$0 \$0	0 \$0	\$0	\$0	\$0	\$0	\$0 \$	0 \$0	\$0	\$0	\$0	\$0	\$0 \$	0 \$0	\$0	\$0	\$0	\$0	\$0 9	/0 \$.0 \$0	J \$0	\$0	\$0
	Technical Studies and Investigations Engineering, Design, and Construction Plans	\$58,500 2% \$487,931 18%	\$59,085 \$500,815	\$29,250 \$146,379	\$29,835 \$199.076	\$0 \$50,764 \$51,	\$0 \$0 780 \$52.815	5 \$0	50 \$0	3U \$0	ას \$0	ას \$0	د ند ۲ (20	iu \$0 10 ¢r	ን	06 0	ა∪ \$∩	ອບ \$0	30 \$1 \$0 \$1	ມ 30) \$0	ວບ \$0	ა∪ \$0	\$0 \$0	\$0	30 SO SO	50 ¢	0 \$0 \$0 ¢r	, 3U 0 \$0	0¢	3U \$0
	Monitoring and Management Plans	\$95,000 3%	\$95,950	\$47,500	\$48,450	\$0,704 \$51,	\$0 \$0		\$0 \$0	\$0	\$0	\$0	\$0 \$			\$0	\$0	\$0	\$0 \$i	0 D \$0	\$0	\$0	\$0	\$0	\$0 9	\$0 \$	نې <u>د</u> ۱۸ ۵۰	ູ ບ ປີ \$0	\$0	\$0
i	Permitting	\$0 0%	\$0	\$0	\$0	\$0	\$0 \$0	0 \$0	\$0	\$0	\$0	\$0	\$0 \$	i0 \$0) \$0	\$0	\$0	\$0	\$0 \$	0 \$0	\$0	\$0	\$0	\$0	\$0 \$	\$0 \$	پې ۵ \$C	J \$0	\$0	\$0
Monitoring	Water Quality Monitoring	\$176,435 6%	\$187,259	\$0	\$0	\$61,188 \$62,	412 \$63,660	0 \$0	\$0	\$0	\$0	\$0	\$0 \$	i0 \$0) \$0	\$0	\$0	\$0	\$0 \$	D \$0	\$0	\$0	\$0	\$0	\$0 \$	\$0 \$	ر ۵۵ ا	J \$0	\$0	\$0
	Sediment Monitoring	\$9,624 0%	\$10,214	\$0	\$0	\$3,338 \$3,	404 \$3,472		\$0	\$0	\$0	\$0	\$0 \$	i0 \$0	\$0	\$0	\$0	\$0	\$0 \$	D \$0	\$0	\$0	\$0	\$0	\$0 \$	\$0 \$	¢0 \$0	ງ \$0	\$0	\$0
3	Biological Monitoring	\$31,782 1%	\$33,732	\$0		\$11,022 \$11,			\$0	\$0	\$0	\$0	\$0 \$	i0 \$0) \$0	\$0	\$0	\$0	\$0 \$	D \$0	\$0	\$0	\$0	\$0	\$0 \$	¢0 \$,0 \$0	\$0	\$0	\$0
•	Geotechnical Monitoring	\$36,949 1%	\$39,216	\$0		\$12,814 \$13,			\$0	\$0	\$0	\$0	\$0 \$	i0 \$0	\$0	\$0	\$0	\$0	\$0 \$	D \$0	\$0	\$0	\$0	\$0	\$0 \$	¢0 \$.0 \$0	J \$0	\$0	\$0
	Revegetation Monitoring	\$31,590 1% \$7,116 0%	\$33,528 \$7,553	\$0		\$10,955 \$11, \$2,468 \$2.			\$0	\$0	\$0	\$0	\$0 \$	iu \$0	\$0	\$0	\$0	\$0	\$0 \$	ບ \$0	\$0	\$0	\$0	\$0 \$0	\$0 \$	¢0 \$	U \$0	› \$0	\$0	\$0
osure Costs Subtotal	Annual Inspection Reporting	\$7,116 0% \$1,134,928	\$7,553 \$1,169,352	\$0 \$323,129	\$0 \$379,361 \$	\$2,468 \$2, \$152,549 \$155,			\$0 \$0	\$0 \$0	\$0 \$0	\$U \$0	\$0 \$ \$0 \$	iu \$0 10 \$0) \$0) \$0	\$0 \$0	\$U \$0	\$0 \$0	\$0 \$1 \$0 \$1	0 \$0 0 \$0	\$U \$0	\$0 \$0	\$0 \$0	\$U \$0	30 S	30 \$ \$0 \$	0 \$0 30 \$0	0 \$0 0 \$0	\$0	\$0 \$0
nd Maintenance Costs							1					1.			6		1.				1.							· · · · ·		
		Present Value % of Total		2016		018 2019		2021	2022	2023	2024	2025 20	26 2027	2028	2029	2030	2031 2	2032 2033	2034	2035	2036 2	37 203	8 2039	2040	2041	2042	2043	2044	2045	2046 2
Water Treatment	Active System Passive System	\$2,060,560 12%	\$2,186,969	\$0	\$0 \$	\$714,602 \$728, \$0	894 \$743,472 \$0 \$0	2 \$0	\$0	\$0	\$0	\$0	\$0 \$	iu \$0	J \$0	\$0	\$0	\$0	\$U \$1 \$0	ບ \$0	\$0	\$0	\$0	\$0 \$0	\$0 SO	2U \$/ \$0	U \$0	/ \$0 0 \$0	\$0	\$0
Reclamation Maintenance	(Cover/Reveg Repairs)	\$0 0%	\$U ¢0	\$U \$U	ას იჭ	ου \$0	φυ \$L \$0 ¢r	0 \$0 0 \$0	\$U ¢∩	\$U \$0	\$U \$0	\$U \$0	30 \$ \$0 ¢	ທ \$0 ເດ ແ) ¢∩	\$U \$U	¢0	ο \$0	φυ \$4 \$0 ¢	ມ 30 ກ ແກ	ېں د0	≎U \$0	\$0 \$0	\$0 \$0	au 3 \$0 4	<u>so s</u> i	u \$0 \$0 °r			\$U
Site Maintenance	(Coverineveg Repairs)	\$90.000 1%	\$95,521	φ0 \$0	φυ \$0	\$31,212 \$31,	\$0 \$0 836 \$32.473	3 \$0	50 \$0	\$0 \$0	οφ \$0	30 \$0	30 3 \$0 ¢	io \$1. 10 ¢r	γ φυ) \$0	90 \$0	φυ \$0	\$0	\$0 \$1 \$0 \$1	0 \$0 0 \$0	\$0	\$0	\$0	\$0	\$0 9	50 ¢	50 ¢r	0. 0.		
On-site Management		\$920,965 6%	\$977,463	\$0		\$319,391 \$325,			φ0 \$0	\$0	\$0	\$0	\$0 \$	ə. 0 sr		\$0	\$0	\$0	\$0 \$	 D\$0	\$0	\$0	\$0	\$0	\$0 9		 60 \$r	0 \$0	\$0	\$0
Transportation Costs		\$150,000 1%	\$159,202	\$0	\$0	\$52,020 \$53,	060 \$54,122	2 \$0	\$0	\$0	\$0	\$0	\$0 \$	i0 \$0	\$0	\$0	\$0	\$0	\$0 \$	D \$0	\$0	\$0	\$0	\$0	\$0 \$	\$0 \$	پر ۵ ((ວ \$0	\$0	\$0
losure Costs Subtotal		\$3,221,525	\$3,419,155	\$0		,117,225 \$1,139,	569 \$1,162,361		\$0	\$0	\$0	\$0	\$0 \$	io \$0	\$0	\$0	\$0	\$0	\$0 \$	0 \$0	\$0	\$0	\$0	\$0	\$0 \$	\$ 00	,0 \$0	J \$0	\$0	\$0
Add-on Costs																														
1 Contingency	12% % of above costs	Present Value % of Total F \$2,655,671	Future Value \$2,816,464	2016 \$38,776		018 2019 \$801,003 \$988,		2021 1 ©0	2022	2023 \$0	2024	2025 20 \$0	26 2027	2028	2029 \$0	2030 \$0	2031 2 \$0	2032 2033 \$0	2034 \$0 \$	2035	2036 2 \$0	37 203	8 2039 \$0	2040 \$0	2041 \$0	2042 \$0 \$(2043 \$0 \$0	2044 0 \$0	2045 SO	2046 2 \$0
2 Worker's compensation	0% (Included in labour rates)	\$0	\$0	\$0	\$0		\$0 \$0		\$0	\$0	\$0	\$0	\$0 \$	0 \$0) \$0	\$0	\$0	\$0	\$0 \$	0 \$0	\$0	\$0	\$0	\$0	\$0 \$	\$0 \$	۵۵ \$C	J \$0	\$0	\$0
3 Insurance	2% % of above labour costs	\$89,362	\$94,773	\$1,305		\$26,953 \$33,	273 \$31,710	0 \$0	\$0	\$0	\$0	\$0	\$0 \$	i0 \$0) \$0	\$0	\$0	\$0	\$0 \$	0\$0	\$0	\$0	\$0	\$0	\$0 \$	\$0 \$	¢\$ 00	ງ \$0	\$0	\$0
4 Bonding	3% % of Implem. & C&M costs	\$629,870	\$669,035	\$0		\$195,674 \$242,			\$0	\$0	\$0	\$0	\$0 \$	i0 \$0) \$0	\$0	\$0	\$0	\$0 \$	0 \$0	\$0	\$0	\$0	\$0	\$0 \$	\$0 \$	0 \$0	ງ \$0	\$0	\$0
5 Contractor Profit 6 Contract Administration	10% % of above costs 5% % of above costs	\$2,213,059 \$1,106,529	\$2,347,053 \$1,173,527	\$32,313 \$16,156	\$37,936 \$	\$667,502 \$824, \$333.751 \$412.	009 \$785,293		\$0	\$0	\$0	\$0	\$0 \$	i0 \$0) \$0	\$0	\$0	\$0	\$0 \$	0 \$0	\$0	\$0	\$0	\$0	\$0 \$	<u>i0 \$/</u>	.0 \$0	J \$0	\$0	\$0
Add-On Costs Subtotal	5 % % 01 above costs	\$6,694,491	\$7,100,852			,024,884 \$2,500,			\$0 \$0	\$0	\$0	\$0	\$0 \$	io și io \$0) \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$	0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$	\$0 \$	ه ۵۵	J \$0	\$0	\$0
TAL		\$28,957,829	\$30,727,195	\$411,679	\$483,320 \$8	,699,908 \$10,740,	724 \$10,235,753	3 \$12,220	\$12,465	\$12,714	\$27,639	\$90,772	\$0 \$	i0 \$0) \$0	\$0	\$0	\$0	\$0 \$	0 \$0	\$0	\$0	\$0	\$0	\$0 \$	\$0 \$1	\$0 \$0	0 \$0	\$0	\$0
RESENT VALUE CALCULATION	ONS - LONG TERM MONITORING AND	MAINTENANCE																												
ring Costs				Year -2	Year -1 Ye	ear 1 Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8 Ye	ar 9 Year 10	Year 11	Year 12	Year 13	Year 14 Ye	ear 15 Year 1	6 Year 17	Year 18	Year 19 Ye	r 20 Year	21 Year 2	2 Year 2	3 Year 24	Year 25	Year 26	Year 27	Year 28 Y	Year 29 Ye
_	Weter Overlite Maritani		NPV - 2016	2016	2017 2	018 2019	2020	2021	2022	2023	2024	2025 20	26 2027	2028	2029	2030	2031 2	2032 2033	2034	2035	2036 2	37 203	8 2039	2040	2041	2042	2043	2044	2045 2	2046 2
Monitoring	Water Quality Monitoring	\$694,115 25%	\$437,556					\$43,427	\$43,427	\$42,367	\$41,334		19,594 \$19,11	ь \$18,650) \$18,195) \$0	\$17,751	\$17,319	\$16,896 \$16, \$0	184 \$16,08 \$0 \$1		\$0	\$0	\$0	\$0 \$0	\$U \$	2U \$/	U \$0	<u>/ \$0</u>	\$12,490	\$0
*****	Sediment Monitoring Biological Monitoring	\$44,912 2% \$148,317 5%	\$19,738 \$65,181					\$2,920 \$9,643	\$0 \$0	\$2,849 \$9.407	\$0 \$0	\$2,711 \$8.954	ວບ \$ ເດ ຕ	iu \$(:0 **) \$0) \$0	\$2,396 \$7,914	\$U ¢0	ο Φ	\$0 \$ \$0 \$	φ2,110	\$U ¢0	3U \$0	φU \$0	φU \$0	φυ \$ \$0	so \$	υ \$0 εο εν	0 \$0 0 \$0	\$1,655 \$5,464	\$0 \$0
*****	Geotechnical Monitoring	\$148,317 5% \$316,652 11%	\$65,181		******			\$9,643		\$9,407 \$10,937	\$0	\$8,954	ې کې ۵ (\$	n∪ \$l i0 ¢r) \$0) \$0	\$7,914 \$17,322	ېن ۵2	\$0 \$0	\$0 \$ \$0 \$		۵۵ ۵۵	\$0 \$0	\$0	\$0	s0 4	50 v	50 ¢r	0 \$0 0 \$0		<u>پو</u>
	Revegetation Monitoring	\$168,481 6%	\$83,494					\$9,584	\$9,584	\$9,351	\$9,122	\$8,900	\$0 \$) \$0) \$0	\$7,866	\$0	\$0	\$0 \$ \$0 \$		\$0	\$0	\$0	\$0	\$0 9	\$0 \$	نې <u>د</u> ۱۸ ۵۰	0 \$0	\$5,431	\$0
	Annual Inspection Reporting	\$274,760 10%	\$94,355					\$2,159	\$2,159	\$2,106	\$2,055	\$2,005	\$0 \$	i0 \$0) \$0	\$17,854	\$0	\$0	\$0 \$	0 \$15,780	\$0	\$0	\$0	\$0	\$0 9	\$0 \$	پې ۵ \$C	0 \$0	\$12,328	\$0
osure Costs Subtotal		\$1,647,237	\$836,135	\$0	\$0	\$0	\$0 \$0		\$66,380	\$77,017	\$63,182		19,594 \$19,11	6 \$18,650	\$18,195	\$71,105	\$17,319	\$16,896 \$16,	484 \$16,08	2 \$62,846	\$0	\$0	\$0	\$0	\$0 \$	<u>ن</u> 0 \$,0 \$C	J \$0	\$49,328	\$0
nd Maintenance Costs																														
Water Treatment	Active System		NPV - 2016 \$3,690,540	2016	2017 2	018 2019	2020	2021 \$625,165	2022 \$625,165		2024 \$595,041		26 2027 72,983 \$71,20	2028 3 \$69.467	2029 7 \$67,772	2030 \$66.119		2032 2033 \$62.933 \$61.	2034 398 \$59.90	2035 1 \$58.440	2036 2 \$0	37 203	8 2039	2040	2041	2042	2043	2044 0 \$0	2045 2 \$0	2046 2 \$0
water freatment	Passive System	\$4,319,359 26% \$557,443 3%	\$3,690,540 \$276,253					\$625,165 \$31,711	\$625,165 \$31,711	\$609,917 \$30,938	\$595,041 \$30,183	\$29,447	72,983 \$71,20 \$0 \$		(\$67,772) \$0	\$26,027	904,507 S	\$62,933 \$61, \$0	398 \$59,90 \$0 \$		ას \$0	ου \$0	90 \$0	\$0 \$0	ου 3 \$0 4	ېې ۲۵ ۵ د	ບ \$0 ໂດ ແ	, au 0 ¢0	\$0 \$17,971	ას \$0
Reclamation Maintenance	(Cover/Reveg Repairs)	\$1,107,338 7%	\$978,863					\$201,577	\$201,577		\$191,864	\$187,184	\$0 \$	0 \$0) \$0	\$0	\$0	\$0	\$0 \$	0 \$0	\$0	\$0	\$0	\$0	\$0 9	\$0 \$1 \$0 \$1	2 \$0 20 \$0	J \$0	\$0	\$0
Site Maintenance		\$1,542,451 9%	\$750,429					\$84,713		\$82,647	\$80,631	\$78,664	\$0 \$	i0 \$0		\$69,528	\$0	\$0	\$0 \$	0 \$61,452	\$0	\$0	\$0	\$0		\$0 \$1	¢0 \$0	0 \$0		\$0
On-site Management		\$4,815,732 29%	\$3,179,748					\$552,794	\$552,794	\$539,311	\$526,157	\$513,324	\$0 \$	i0 \$0) \$0	\$63,465	\$0	\$0	\$0 \$	0 \$56,094	\$0	\$0	\$0	\$0	\$0 \$	\$0 \$1	\$0 \$0		\$92,220	\$0
Transportation Costs		\$950,206 6%	\$442,784		*			\$56,551	\$56,551	\$55,172	\$53.826	\$52.513	\$0 \$	0 \$0) \$0	\$14,941	\$0	\$0	\$0 \$	0 \$13,205	\$0	\$0	\$0	\$0	\$0 \$	<u>\$0 \$</u>	,0 \$0	J \$0	\$34,361	\$0
osure Costs Subtotal		\$13,292,529	\$9,318,616	\$0	\$0	\$0	\$0 \$0	0 \$1,552,511	\$1,552,511	\$1,514,645 \$	51,477,702	\$1,441,661 \$	72,983 \$71,20	13 \$69,467	\$67,772	\$240,079	\$64,507	\$62,933 \$61,	398 \$59,90	1 \$212,195	\$0	\$0	\$0	\$0	\$0 \$	\$0 \$1	\$0 \$0	<u>, \$0</u>	\$195,613	\$0
		Undiscounted % of Total	NPV - 2016	2016	2017 2	018 2019	2020	2021	2022	2023	2024	2025 20	26 2027	2028	2029	2030	2031 2	2032 2033	2034	2035	2036 2	37 203	8 2039	2040	2041	2042	2043	2044	2045	2046 2
	12% % of above costs	\$1,808,702	\$1,232,323		4			\$196,983	\$195,476	\$192,179	\$187,358	\$189,500 \$	11,109 \$10,83	\$10,574	\$10,316	\$37,342	\$9,819	\$9,580 \$9,	346 \$9,11	8 \$33,005	\$0	\$0	\$0	\$0	\$0 \$	\$0 \$	0 \$0	5 \$0	\$29,393	\$0
Add-on Costs	0% (Included in labour rates)	\$0	\$0					\$0	\$0	\$0	\$0	\$0	\$0 \$			\$0	\$0		\$0 \$		\$0	\$0	\$0	\$0	\$0 \$	¢0 \$.0 \$0	J \$0	\$0	\$0
Add-on Costs Contingency Worker's compensation	001.01.1	\$60,862	\$41,467					\$6,628		\$6,467	\$6,305	\$6,377	\$374 \$36			\$1,257	\$330		314 \$30 [°]		\$0	\$0	\$0	\$U \$0	\$0 \$	\$0 \$0	U \$0	0 \$0	\$989	\$0
Add-on Costs Contingency Worker's compensation Insurance	2% % of above labour costs		\$282,997					\$46,878 \$164,153		\$45,734 \$160,149	\$44,944 \$156,132	\$45,176 \$157,916	\$2,189 \$2,13 \$9,258 \$9,03	6 \$2,084 2 \$8,812		\$7,202 \$31,118	\$1,935 \$8,183		342 \$1,79 788 \$7,59		\$0 ¢∩	\$0 \$0	\$U \$0	ას \$0	ο \$0 0	,υ \$/ \$0 ¢	ບ \$0 ເດ ¢r	0 \$0 0 \$0	\$5,868 \$24,494	\$0 \$0
Add-on Costs Contingency Worker's compensation Insurance Bonding	3% % of Implem. & C&M costs	\$402,758 \$1 507 252	\$1.026.036					ψι04,103	ψ102,091	φ100,1 4 9	ψ100,102	9101,010	ಳಲ,∠ರರ ಭಶ,03								φU	ψυ	ΨU							φu
Add-on Costs Contingency Worker's compensation Insurance Bonding Contractor Profit	3% % of Implem. & C&M costs 10% % of above costs	\$1,507,252	\$1,026,936 \$513,468					\$82.076	\$81,448	\$80,075	\$78,066	\$78,958	\$4,629 \$4.51	6 \$4.406	5 \$4.298	\$15,559	\$4,091	\$3,991 \$3,	394 \$3.79	9 \$13,752	\$0	\$0	\$0	\$0	\$0 9	50 Si	0 \$0) \$0	\$12,247	\$0
Add-on Costs Contingency Worker's compensation Insurance Bonding	3% % of Implem. & C&M costs		\$1,026,936 \$513,468 \$3,097,192	\$0	\$0	\$0	\$0 \$0	\$82,076 0 \$496,718	\$81,448 \$493,276		\$78,066 \$472,805		\$4,629 \$4,51 27,559 \$26,88	6 \$4,406 7 \$26,23 1	5 \$4,298 1 \$25,592			\$3,991 \$3, \$23,764 \$23,		9 \$13,752 9 \$81,738	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$ \$0 \$	\$0 \$ \$0 \$	30 \$0 0 \$0	0 \$0 1 \$0		\$0 \$0
Add-on Costs Contingency Worker's compensation Insurance Bonding Contractor Profit Contract Administration	3% % of Implem. & C&M costs 10% % of above costs	\$1,507,252		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0 \$0 \$0	0 \$496,718	\$493,276	\$484,603	\$472,805	\$477,926 \$	\$4,629 \$4,51 27,559 \$26,88 20,137 \$117,20	\$7 \$26,231	\$25,592	\$92,479	\$24,358	\$23,764 \$23,	185 \$22,61	9 \$81,738	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$ \$0 \$ \$0 \$	\$0 \$1 \$0 \$1 \$0 \$1 \$0 \$1	\$0 \$0 \$0 \$0 \$0 \$0	0 \$0 0 \$0	\$12,247	\$0 \$0 \$0

Worksheet 8 - EOM Estimate - Annual C&M Costs

Project:	Minto Mine Closure Cost Estimate - RCP Rev. 2016-01
Project No.:	1CM002.045
Client:	Minto Explorations Ltd.
Date of Submission:	August 5, 2016
File Location:	\\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\Cost Estimate\



Summary of Annual Care and Maintenance Costs

			Annual C	ost Per Phase)				1	Number of \	rears	
	1 - Interim	2 - Active	3 - PC 1	4 - PC 2	5 - Perpetual	n/a	Total Cost	1 - Interim	2 - Active	3 - PC 1	4 - PC 2	5 - Perpetual
1 Active Water Treatment System	\$686,853	\$686,853	\$686,853	\$88,509	\$0	\$0	\$6,379,919	0	3	5	10	0
2 Passive Treatment System	\$0	\$0	\$34,840	\$34,840	\$34,840	\$0	\$557,443	0	3	5	2	9
3 Reclamation Maintenance	\$0	\$0	\$221,468	\$0	\$0	\$0	\$1,107,338	0	3	5	2	9
4 Site Maintenance	\$0	\$30,000	\$93,072	\$93,072	\$98,994	\$0	\$1,632,451	0	3	5	2	9
5 On-site Management	\$0	\$306,988	\$607,341	\$84,956	\$178,791	\$0	\$5,736,697	0	3	5	2	9
6 Transportation Costs	\$0	\$50,000	\$62,131	\$20,000	\$66,617	\$0	\$1,100,206	0	3	5	2	9

NOTES: 1. This table is used as a check to the NPV calculation spreadsheet.

Phase 1 - Annual Care & Maintenance Costs - Prior to Closure

						[Unit I	Rates			Activit	ty Totals		Sub	totals	
WBS	Facility/Area	Task	Activity	Qnty	Unit	Hours	Material Cost (\$/unit)	Labour Rate (\$/hr)	Equipment Rate (\$/hr)	Total Unit Rate (\$/unit)	Material Cost	Labour Cost	Equipmen t Cost	Cost	WBS Level 2	WBS Level 1	Source / Comments
S1.1	Water Treatme	nt														\$686,853	
S1.1.1	Active Treatment	nt System													\$686,853		
S1.1.1.1		Operation and maintenance	e	1	yr						\$496,900	\$63,744	\$37,700	\$598,344			See details on 'Water Treatment' worksheet.
S1.1.1.2		Capital Replacement	annual allowance	1	yr						\$84,400	\$4,109	\$0	\$88,509			See details on 'Water Treatment' worksheet.
S1.2	Onsite Manage	ment														\$0	
S1.2.1	Field Support S	taff													\$0		
S1.2.1.1		Mine Manager		0	months	360	site working h	hours per month		\$23,366				\$0			(Notes: staffing costs include cross-shifts)
S1.2.1.2		Office/Camp manager		0	months	360	site working h	hours per month		\$22,227				\$0			
S1.2.1.3		Administrative Assistants/H	IR/Accounting	0	months	360	site working h	hours per month		\$16,214				\$0			
S1.2.1.4		Water Treatment Staff Open	rator	0	months	360	site working h	hours per month		\$18,491				\$0			
S1.2.1.5		Environmental/Safety Mana	ager	0	months	360	site working h	hours per month		\$22,227				\$0			
S1.2.1.6		Environmental Technicians	-	0	months	360	site working h	hours per month		\$15,699				\$0			
S1.2.1.7		Mechanic		0	months	360	site working h	hours per month		\$17,349				\$0			
S1.2.1.8		Tradesmen		0	months	360	site working h	hours per month		\$18,491				\$0			
S1.2.1.9		General Labour/helpers		0	months	360	site working h	hours per month		\$12,498				\$0			
S1.2.2	Field support Ve	ehicles .													\$0		
S1.2.2.1		Pick-up trucks (3 required)		0	months					\$4,518				\$0			
S1.2.2.2		Mechanic service vehicle		0	months					\$6,919				\$0			
S1.2.2.3		Emergency transport vehicle	le	0	months					\$4,519				\$0			
S1.2.3		quipment/Supplies													\$0		
S1.2.3.1		Office supplies		0	months					\$1,000				\$0			
S1.2.3.2		Communications		0	months					\$1,000				\$0			
S1.2.3.3		Misc. supplies		0	months					\$500				\$0			
S1.2.3		Camp Operation		0	man-days					\$80				\$0			
S1.2.3		Power, heat, fuel		0	months					\$6,500				\$0			
S1.3	Site Maintenan	ice													\$0	\$0	
S1.3.1		Equipment Maintenance		1	ls		\$0							\$0			Labour included in field support staff
S1.3.2		Road Maintenance	Grader (assume 80 hrs/month)	1	ls	0		\$43	\$92	\$136	\$0	\$0	\$0	\$0			Operator cost included in Field support staff
S1.3.3		Earthwork Repair allowance	e (assume 40 hrs per month)	1	ls	0	\$0	\$129	\$310	\$310			\$0	\$0			Task Code C.2.14
S1.3.4		Sundry equipment/consuma		1	ls	-	•			\$0				\$0			Allowance for pump maintenance/fuel etc.
S1.4	Transportation	Costs													\$0	\$0	
S1.4.1		Barge Operations		0	months					\$10,000				\$0			
S1.4.2		Staffing Bus trips during bar	rge operation period	0	ea					\$678				\$0			One per week
S1.4.3		Air transport and airstrip op		0	flights					\$3,000				\$0			1 flight per week
TOTAL													·	\$686.853	\$686.853	\$686.853	

Phase 2 - Annual Care & Maintenance Costs During Active Closure

								Unit F	Rates			Activit	ty Totals		Sub	ototals	
WBS	Facility/Area	Task	Activity	Qnty	Unit	Hours	Material Cost (\$/unit)	Labour Rate (\$/hr)	Equipment Rate (\$/hr)		Material Cost	Labour Cost	Equipmen t Cost	Cost	WBS Level 2	WBS Level 1	Source / Comments
S2.1	Water Treatme	nt														\$686,853	1
S2.1.1	Active Treatment	nt System													\$686,853		
S2.1.1.1		Operation and maintenance			1 yr						\$496,900	\$63,744		\$598,344			See details on 'Water Treatment' worksheet.
S2.1.1.2			annual allowance		1 yr						\$84,400	\$4,109	\$0	\$88,509			See details on 'Water Treatment' worksheet.
	Onsite Manage															\$306,988	
S2.2.1	Field Support Si														\$244,163		
S2.2.1.1		Water Treatment Staff Ope			5 months			hours per month		\$18,491				\$92,457			
S2.2.1.2		Environmental/Safety Mana		4	1 months			hours per month		\$22,227				\$88,909			
S2.2.1.3		Environmental Technicians		4	1 months	360	site working I	hours per month		\$15,699				\$62,797			
	Field support Ve	ehicles													\$31,625		
S2.2.2.1		Pick-up trucks (1 required)		1	7 months					\$4,518				\$31,625			
S2.2.3		quipment/Supplies													\$31,200		
S2.2.3.1		Camp Operation		390) man-days					\$80				\$31,200			
	Site Maintenan														\$30,000	\$30,000	
S2.3.1		Pumping equipment/consur	nables allowance		1 Is					\$30,000				\$30,000			Allowance for pump maintenance/fuel etc.
	Transportation														\$50,000	\$50,000	
S2.4.1		Barge Operations			5 months					\$10,000				\$50,000			Included in construction indirect costs
TOTAL														\$1,073,842	\$1,073,842	\$1,073,842	

Phase 3 - Annual Care & Maintenance Costs - Post Closure I

					[Unit	Rates			Activit	y Totals		Sub	ototals	
					Hours or	Material						_				
					Cost Code	Cost	Labour Rate	Equipment		Material	Labour	Equipmen				
WBS S3.1	Facility/Area Water Treatme	Task	Activity	Qnty Unit	Ref.	(\$/unit)	(\$/hr)	Rate (\$/hr)	Rate (\$/unit)	Cost	Cost	t Cost	Cost	WBS Level 2	WBS Level 1 \$721.694	Source / Comments
S3.1.1	Active Treatme													\$686,853		•
S3.1.1	Acuve meaune	Operation and maintenance		1 vr						\$496.900	\$63,744	\$37,700	\$598.344			See details on 'Water Treatment' worksheet.
S3.1.1.2			annual allowance	1 yr						\$84,400	\$4,109	\$07,700 \$0	\$88,509			See details on 'Water Treatment' worksheet.
S3.1.1	Passive Treatm			. ,.						φ01,100	\$ 1,100	ψũ	400,000	\$34.840		
S3.1.1.1		Operation and maintenance		1 yr						\$10.000	\$11,706	\$13,134	\$34.840			See details on 'Water Treatment' worksheet.
S3.2	Onsite Manage	ement													\$607,341	
S3.2.1	Field Support S	Staff												\$372,340		
S3.2.1.1		Mine Manager		3 months			ours per month		\$23,366				\$58,415			(Notes: staffing costs include cross-shifts)
S3.2.1.2		Office/Camp manager		3 months			nours per month		\$22,227				\$66,682			
\$3.2.1.3		Administrative Assistants/H		1 months			nours per month		\$16,214				\$20,268			
S3.2.1.4		Water Treatment Staff Oper		2 months			nours per month		\$18,491				\$32,360			
S3.2.1.5		Environmental/Safety Mana	iger	3 months			nours per month		\$22,227				\$55,568			
S3.2.1.6		Environmental Technicians		3 months			nours per month		\$15,699				\$39,248			
\$3.2.1.7		Mechanic		2 months			nours per month		\$17,349				\$34,697			
S3.2.1.8		Tradesmen		2 months			nours per month		\$18,491				\$36,983			
S3.2.1.9	Eletet en en en el br	General Labour/helpers		2 months	360	site working r	ours per month		\$12,498				\$28,119			
S3.2.2 S3.2.2.1	Field support V	Pick-up trucks (3 required)		15 months					\$4,518				\$67.768	\$104,201		
S3.2.2.1 S3.2.2.2		Mechanic service vehicle		2 months					\$6,919				\$13.837			
S3.2.2.3		Emergency transport vehicle	9	5 months					\$4,519				\$22,596			
S3.2.3	Field Support F	quipment/Supplies	0	5 11011013					φ4,013				φ22,000	\$130.800		
\$3.2.3.1	r iold Gapport E	Office supplies		5 months					\$1.000				\$5.000			
S3.2.3.2		Communications		5 months					\$1,000				\$5,000			
\$3.2.3.3		Misc. supplies		5 months					\$500				\$2,500			
S3.2.3		Camp Operation		1,073 man-days					\$80				\$85,800			
S3.2.3		Power, heat, fuel		5 months					\$6,500				\$32,500			
S3.3	Reclamation N	laintenance													\$221,468	
S3.3.1	Cover repairs													\$198,515		
S3.3.1.1		Cover Repair allowance	Load, haul, dump, spread (spoil lo	1% of total	1,098,885	m3 of cover r	equired replace	ment at:	\$4.96 /				\$54,478			Assumes 5% of area reseeded over 5 yr PC1 period.
\$3.3.1.2			Seed/Fertilize: broadcast seeding	55 ha					\$2,621.52 /	'ha			\$144,037			
S3.3.2.1	Revegetation													\$22,953		
S3.3.2.2	Olto Malatana	Reseeding allowance	Seed/Fertilize: broadcast seeding	3% of total	292	ha requires re	eseeding at		\$2,621.52 /	na			\$22,953		£00.070	Assumes 15% of area reseeded over 5 yr PC1 period
S3.3 S3.3.1	Site Maintenar	Equipment Maintenance		1 10		\$20,000							\$20.000	\$93,072	\$93,072	Labour included in field support staff
S3.3.1 S3.3.2			Grader (assume 40 hrs/month)	1 ls 1 ls	200	⇒20,000	\$43	\$92	\$136	\$0	\$8.669	\$18,443	\$20,000 \$27.112			Operator cost included in Field support staff
S3.3.2 S3.3.3			e (assume 20 hrs per month)	1 ls	200	\$0		\$92 \$310		φU	40,009	\$10,443	\$27,112			Task Code C.2.14
S3.3.4		Sundry equipment/consuma		1 Is	100	φŪ	φ12 3	\$310	\$15,000			\$30,900	\$15,000			Allowance for pump maintenance/fuel etc.
S3.4	Transportation			1 13					\$10,000				\$15,000	\$62,131	\$62,131	
S3.4.1		Barge Operations		3 months					\$10,000				\$30,000		\$02,101	
S3.4.2		Staffing Bus trips during bar	rge operation period	12 ea					\$678				\$8,131			One per week
\$3.4.3		Air transport and airstrip ope		8 flights					\$3,000				\$24,000			One flight per week
TOTAL					• • •								\$1,705,705	\$1,705,705	\$1,705,705	

Phase 4 - Annual Care & Maintenance Costs - Post Closure II

							Unit Rates				Activit	ty Totals		Sub	totals	
WBS	Facility/Area	Task	Activity	Qntv U	Hours Cost Co nit Ref.		t Labour Rate	Equipment Rate (\$/hr)		Material Cost	Labour Cost	Equipmen t Cost	Cost	WBS Level 2	WBS Level 1	Source / Comments
4.1	Water Treatme	nt					/								\$123,349	
4.1.1	Active Treatment	nt Svstem												\$88,509		
4.1.1.2			annual allowance	1 vr						\$84,400	\$4,109	\$0	\$88,509			See details on 'Water Treatment' worksheet.
	Passive Treatm	ent System		'										\$34,840		
1.1.1.1		Operation and maintenance		1 yr						\$10,000	\$11,706	\$13,134	\$34,840			See details on 'Water Treatment' worksheet.
.2	Onsite Manage	ment													\$84,956	
.2.1	Field Support S	taff												\$44,542		
.2.1.1		Project Manager		0.5 mon			king hours per mon		\$23,366				\$11,683			(Notes: staffing costs include cross-shifts)
.2.1.2		Passive Treatment specialis	t	0.5 mon	ths	60 site wor	king hours per mon	h	\$42,120				\$21,060			
2.1.3		Mechanic		0.5 mon	ths	60 site wor	king hours per mon	h	\$17,349				\$8,674			
2.1.4		General Labour/helpers		0.3 mon	ths	60 site wor	king hours per mon	h	\$12,498				\$3,124			
.2.2	Field support Ve	ehicles												\$17,014		
.2.2.1		Pick-up trucks (2 required)		2.0 mon	ths				\$4,518				\$9,036			
.2.2.2		Mechanic service vehicle		0.5 mon	ths				\$6,919				\$3,459			
.2.2.3		Emergency transport vehicle	3	1.0 mon	ths				\$4,519				\$4,519			
	Field Support E	quipment/Supplies												\$23,400		
.2.3.1		Office supplies		1 mon	ths				\$1,000				\$1,000			
.2.3.2		Communications		1 mon	ths				\$1,000				\$1,000			
.2.3.3		Misc. supplies		1 mon	ths				\$500				\$500			
.2.3		Camp Operation		180 man					\$80				\$14,400			
.2.3		Power, heat, fuel		1 mon	ths				\$6,500				\$6,500			
	Reclamation M	aintenance													\$0	
	Cover repairs													\$0		
	Revegetation													\$0		
	Site Maintenan													\$28,903	\$28,903	
.3.1		Equipment Maintenance (pa		1 ls			0,000						\$10,000			Labour included in field support staff
.3.2			Grader (assume 20 hrs/month)	1 ls		20	\$4			\$0	\$867	\$1,844	\$2,711			Operator cost included in Field support staff
.3.3		Earthwork Repair allowance		1 ls		20	\$0 \$12	\$310				\$6,192	\$6,192			Task Code C.2.14
.3.4		Sundry equipment/consuma	bles allowance	1 Is					\$10,000				\$10,000			Allowance for pump maintenance/fuel etc.
	Transportation													\$20,000	\$20,000	
1.4.1		Barge Operations		1 mon	ths	1			\$10,000				\$10,000			

\$4.4.2 \$4.4.3	Staffing Bus trips during barge operation period Barge mob/demob	0 ea 1 LS	\$678 \$10,000	\$0 \$10,000		Pick-up trucks used (time included in labour rate)
TOTAL				\$257,208	\$257,208	\$257,208

Phase 5 - Perpetual Care & Maintenance Event Year Annual Costs

					1		Unit	Rates			Activi	tv Totals		Sub	ototals		
WBS	Facility/Area	Task	Activity	Qntv	Unit	Hours or Cost Code Ref.	Material Cost (\$/unit)	Labour Rate (\$/hr)		Total Unit Rate (\$/unit)	Material Cost	Labour Cost	Equipmen t Cost	Cost	WBS Level 2	WBS Level 1	Source / Comments
S5.1	Water Treatmen	nt					(1)	/								\$34,840	
S5.1.1	Passive Treatme	ent System													\$34,840		
S5.1.1.1		Operation and maintenance	3	1	1 yr						\$10,000	\$11,706	\$13,134	\$34,840			See details on 'Water Treatment' worksheet.
S5.2	Onsite Manage	ment														\$178,791	
S5.2.1	Field Support St	aff													\$128,778		
S5.2.1.1		Project Manager		1.0	0 months	360	site working h	ours per month		\$23,366				\$23,366			(Notes: staffing costs include cross-shifts)
S5.2.1.2		Passive Treatment specialis	st	1.0	0 months			nours per month		\$42,120				\$42,120			
S5.2.1.3		Site Engineer		1.0	0 months			nours per month		\$42,120				\$42,120			
S5.2.1.4		HD mechanic		0.5	5 months			nours per month		\$17,349				\$8,674			
S5.2.1.5		General Labour/helpers		1.0	0 months	360	site working h	nours per month		\$12,498				\$12,498			
S5.2.2	Field support Ve														\$17,013		
S5.2.2.1		Pick-up trucks (3 required)		3	3 months					\$4,518				\$13,554			
S5.2.2.2		Mechanic service vehicle		1	1 months					\$6,919				\$3,459			
S5.2.3		quipment/Supplies													\$33,000		
S5.2.3.1		Office supplies		1	1 months					\$1,000				\$1,000			
S5.2.3.2		Communications		1	1 months					\$1,000				\$1,000			
S5.2.3.3		Misc. supplies		1	1 months					\$500				\$500			
S5.2.3.4		Camp Operation			0 man-days					\$80				\$24,000			
S5.2.3.5		Power, heat, fuel		1	1 months					\$6,500				\$6,500			
S5.3	Reclamation M															\$0	
S5.4	Site Maintenan														\$98,994		
S5.4.1			Grader (assume 2 weeks, 10hrs/c	1	1 Is	140		\$43			\$0	\$6,069		\$18,978			Operator cost included in Field support staff
S5.4.2			e (assume 3 weeks, 10hrs/day)		1 Is	210	\$0	\$129	\$310				\$65,016	\$65,016			Task Code C.2.14
S5.4.3		Big Creek Bridge - Capital	replacement allowance		1 Is					\$15,000				\$15,000			Allowance for supplies, pumping, etc.
S5.4.4		Sundry allowance		1	1 Is					\$2,500				\$2,500			Allowance for supplies, pumping, etc.
	Transportation														\$66,617	\$66,617	
S5.5.1		Barge Operations			1 months					\$10,000				\$10,000			
S5.5.2		Barge mobilization/demob a	and set up		1 Is					\$10,000				\$10,000			assumed
S5.5.3		Camp Mob/demob			1 Is					\$10,000				\$10,000			assumed
S5.5.4		Equipment mobilization and	demobilization	2	2 Is					\$18,308				\$36,616.67			See details on 'mob-demob' worksheet
TOTAL														\$381,742	\$379,242	\$379,242	

Worksheet 9 - EOM Estimate - Implementation Costs

 Project:
 Minto Mine Closure Cost Estimate - RCP Rev. 2016-01

 Project No.:
 1CM002.045

 Client:
 Minto Explorations Ltd.

 Date of Submis: August 5, 2016
 File Location:

 File Location:
 \\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\Cost Estimate\

	-					Labour	Equ	ipment		Fuel		Material Ac		vity Totals	Subtotals		
				Cor					Consumed								
WBS	Facili Task	Activity	Qnty U	Los Jnits Cod		s Unit Rate	Cost Unit Rate	Cost	Unit Rate	Consumed (L)	Cost Unit Rat	e Cost	Unit Rate	Cost	WBS Level 2	WBS Level 1	Source / Comments
	COSTS																
A1	Waste Dumps															\$1,860,150	
A1.1	Main Waste Dump (inc. MWDE)														\$0	.,,,	
A1.1.1.1	Regrade	Flat areas: Re-grade to form tertiary drainage catchments	0 h			0 \$43.35	\$0 \$195.11	\$0	\$67.01	0	\$0 \$0.0		\$305.46	\$0			
A1.1.1.2		Slopes: Re-grade to 3H:1V	0 h			0 \$43.35	\$0 \$195.11	\$0	\$67.01	0	\$0 \$0.0		\$305.46	\$0			
A1.1.2.1 A1.1.2.2	Cover	Flat area cover material: Load, haul, dump spread	0 C 0 C		0.		\$0 \$2.14 \$0 \$1.84	\$0 \$0		0	\$0 \$0.0 \$0 \$0.0		\$3.82 \$3.34	\$0 \$0			
A1.1.2.2 A1.1.2.3		Slope area cover material: Load, haul, dump along crest Slope area cover material: Spread down slope	0 C				\$0 \$1.64	\$0 \$0		0	\$0 \$0.0			\$0 \$0			
A1.1.3.1	Revegetate	Seed/Fertilize: tractor application	0 h			0 \$1,005.46	\$0 \$397.11	\$0	\$232.94	ŏ	\$0 \$986.0			\$0			
A1.1.3.2		Tree seedling application (1,000 stems/ha)	0 h	a C.6.06	0.	0 \$1,789.95	\$0 \$9.02	\$0	\$15.00	0	\$0 \$460.5	50 \$0	\$2,274	\$0			
A1.2	Southwest Dump (excluding high									_					\$0		
A1.2.1	Re-grade	Slopes: Re-grade to 3H:1V	0 h				\$0.00 \$195.11	\$0		0	\$0.00 \$0.0			\$0 ©			
A1.2.2.1 A1.2.3.1	Cover Revegetate	Load, haul, dump spread Seed/Fertilize: tractor application	0 m 0.00 h		0.	0 \$0.75 0 \$1,005.46	\$0.00 \$2.04 \$0.00 \$397.11	\$0 \$0		0	\$0.00 \$0.0 \$0.00 \$986.0			\$0 \$0			
A1.2.3.2	revegetate	Tree seedling application (1,000 stems/ha)	0.00 h			.0 \$1,789.95	\$0.00 \$9.02	\$0 \$0		0	\$0.00 \$460.			\$0 \$0			
A1.3	Southwest Dump High-Grade W														\$1,255,412		
A1.3.1.1	Regrade	Flat areas: Re-grade to form tertiary drainage catchments	12 h				\$510.98 \$195.11	\$2,300		823	\$789.90 \$0.0			\$3,601			
A1.3.1.2		Slopes: Re-grade to 5H:1V	109 h				\$4,744.65 \$195.11	\$21,356		7,640	\$7,334.51 \$0.0			\$33,435			
A1.3.2.1	Cover Surface preparation	Proof-roll flat areas with vibratory roller	5,915 m				\$254.45 \$0.03	\$148		76	\$72.71 \$0.0			\$475			
A1.3.2.2 A1.3.2.3		Proof-roll slope areas with vibratory roller Bedding: Load, haul, dump, spread, compact	41,485 m 7.110 m		128. 103.		\$4,461.32 \$0.06 \$4,365.11 \$1.56	\$2,595 \$11,063		1,328 4,641	\$1,274.84 \$0.0 \$4,455.00 \$0.0			\$8,331 \$19,883			
A1.3.3.1	Cover	BGM Liner: Supply and install	47,400 m		2,246		\$89,345.02 \$0.80	\$37,898		13,928	\$13,370.88 \$17.8			\$986,991			
A1.3.3.2		Flat area cover material: Load, haul, dump spread	5,915 C		97		\$4,212.11 \$1.94	\$11,482		4,777	\$4,586.16 \$0.0			\$20,280			
A1.3.3.3		Slope area cover material: Load, haul, dump along base of slope	41,485 C		574		\$24,697.30 \$1.60	\$66,301		29,199	\$28,031.47 \$0.0			\$119,030			
A1.3.3.4		Slope area cover material: Spread up slope	132 h				\$5,701.70 \$195.11	\$25,664		9,181	\$8,813.96 \$0.0			\$40,179			
A1.3.4.1	Revegetate	Seed/Fertilize: broadcast seeding	4.74 h			0 \$1,005.46	\$4,765.90 \$397.11	\$1,882		1,150 74	\$1,104.16 \$986.0			\$12,426			
A1.3.4.2 A1.4	Main Pit Dump (Incl. SWB) (EOI	Tree seedling application (1,000 stems/ha)	4.74 h	a C.6.06	242.	.9 \$1,789.95	\$8,484.38 \$9.02	\$43	\$15.00	74	\$71.10 \$460.5	50 \$2,182.78	\$2,274.47	\$10,781	\$604,739		
A1.4 A1.4.1.1		er Load, haul, dump, spread in pit	0 0	Cm3 R.004	0.	0 \$0.50	\$0.00 \$1.34	\$0	\$0.57	0	\$0.00 \$0.0	\$0.00	\$2.41	\$0	φυυ 4 ,739		
A1.4.2.1	Regrade	Flat areas: Re-grade to form tertiary drainage catchments	104 h				\$4,499.93 \$195.11	\$20,254		7,246	\$6,956.20 \$0.0			\$31,710			
A1.4.2.2		Slopes: Re-grade to 3H:1V	141 h			6 \$43.35	\$6,094.73 \$195.11	\$27,433		9,814	\$9,421.52 \$0.0	\$0.00	\$305.46	\$42,949			
A1.4.3.1	Cover	Flat area cover material: Load, haul, dump spread	72,135 m		1,166		\$50,204.42 \$1.90	\$136,851		56,940	\$54,662.66 \$0.0			\$241,718			
A1.4.3.2		Slope area cover material: Load, haul, dump along crest	52,465 m		727.		\$31,261.11 \$1.60	\$83,922		36,960	\$35,481.42 \$0.0			\$150,664			
A1.4.3.3	Deve estate	Slope area cover material: Spread down slope	51 h				\$2,226.34 \$195.11	\$10,021		3,585	\$3,441.59 \$0.0			\$15,689			
A1.4.4.1 A1.4.4.2	Revegetate	Seed/Fertilize: broadcast seeding Tree seedling application (1,000 stems/ha)	24.9 h 24.9 h		825.	.5 \$1,005.46 .2 \$1,789.95	\$25,056.17 \$397.11 \$44,605.66 \$9.02	\$9,896 \$225		6,047 389	\$5,804.98 \$986.0 \$373.80 \$460.5			\$65,328 \$56,680			
A1.4.4.2 A1.5.0.0	Mill Valley Fill Extension (Stage		24.511	ia 0.00	1,277	.2 \$1,705.55	\$ 9.02	φΖΖΟ	φ13.00	309	φ373.00 φ400.	φ11,473.0 3	\$2,274.47	\$50,000	\$0		
A1.5.1.1	Complete Fill Placement	Waste Rock fill: Load, haul, dump spread	0 m	n3 R.037	0.	0 \$0.95	\$0.00 \$2.52	\$0	\$1.04	0	\$0.00 \$0.0	\$0.00	\$4.50	\$0	ψu		
A1.5.2.1	Re-grade	Flat areas: Re-grade to form tertiary drainage catchments	0 h		0.		\$0.00 \$195.11	\$0	\$67.01	0	\$0.00 \$0.0			\$0			
A1.5.2.2	-	Slopes: Re-grade to 3H:1V	0 h		0.	.0 \$43.35	\$0.00 \$195.11	\$0	\$67.01	0	\$0.00 \$0.0			\$0			
A1.5.3.1	Cover	Flat area cover material: Load, haul, dump spread	0 m		0.		\$0.00 \$2.34	\$0	\$0.96	0	\$0.00 \$0.0			\$0			
A1.5.3.2		Slope area cover material: Load, haul, dump along crest	0 m		0.		\$0.00 \$2.01	\$0		0	\$0.00 \$0.0			\$0 \$0			
A1.5.3.3 A1.5.4.1	Revegetate	Slope area cover material: Spread down slope Seed/Fertilize: broadcast seeding	0 h 0.00 h			.0 \$43.35 .0 \$1,005.46	\$0.00 \$195.11 \$0.00 \$397.11	\$0 \$0	\$67.01 \$232.94	0	\$0.00 \$0.0 \$0.00 \$986.0			\$0 \$0			
A1.5.4.1	Revegetate	Tree seedling application (1,000 stems/ha)	0.00 h			0 \$1,789.95	\$0.00 \$9.02	\$0 \$0	\$15.00	0	\$0.00 \$460.5			\$0 \$0			
A2	Overburden Dumps		0.001	0.0.00		\$1,100.00	\$0.00 \$0.02	ψũ	<i><i><i></i></i></i>		\$0.00 \$ 100M	¢0.00	<i>Q</i> 2,27	φu		\$340,650	
A2.1	Area 118 Pit Backfill Dump														\$0	••••	
A2.1.1.1	Re-grade	Flat areas: Re-grade to form tertiary drainage catchments	0 h				\$0.00 \$195.11	\$0	\$67.01	0	\$0.00 \$0.0	\$0.00	\$305.46	\$0			
A2.1.1.2		Berm: Regrade to 3H:1V or flatter	0 h				\$0.00 \$195.11	\$0		0	\$0.00 \$0.0			\$0			
A2.1.2.1	Revegetate	Seed/Fertilize: broadcast seeding	0 h			0 \$1,005.46	\$0.00 \$397.11	\$0		0	\$0.00 \$986.0			\$0			
A2.1.2.2 A2.2	loo rich Overburden Dump	Tree seedling application (1,000 stems/ha)	0 h	a C.6.06	0.	.0 \$1,789.95	\$0.00 \$9.02	\$0	\$15.00	0	\$0.00 \$460.5	\$0.00	\$2,274.47	\$0	\$13,505		
A2.2 A2.2.1.1	Ice-rich Overburden Dump Re-grade	Flat areas: Re-grade to form tertiary drainage catchments	0 h	rs C.2.13	0.	.0 \$43.35	\$0.00 \$195.11	\$0	\$67.01	0	\$0.00 \$0.0	\$0.00	\$305.46	\$0	φ13,305		
A2.2.1.1		Berm: Regrade to 3H:1V or flatter	0 h				\$0.00 \$195.11	\$0 \$0	\$67.01	ő	\$0.00 \$0.0			\$0 \$0			WR Berm area included in Southwest Dump
A2.2.3.1	Revegetate	Seed/Fertilize: broadcast seeding	2.76 h	a C.6.01	91.	4 \$1,005.46	\$2,773.36 \$397.11	\$1,095	\$232.94	669	\$642.53 \$986.0	\$2,719.68	\$2,621.52	\$7,231			· · · · · · · · · · · · · · · · · · ·
A2.2.3.2		Tree seedling application (1,000 stems/ha)	2.76 h			4 \$1,789.95	\$4,937.22 \$9.02	\$25		43	\$41.37 \$460.5			\$6,274			
A2.3	Reclamation Overburden Dump						005 700 00 0105 ···	6 //= 0	6 07.0.1	4	000 774 05	a	0005	6 • • • • • •	\$327,145		
A2.3.1.1	Re-grade	Flat areas: Re-grade to form tertiary drainage catchments	594 h	rs C.2.13	593.	.6 \$43.35	\$25,729.80 \$195.11	\$115,811	\$67.01	41,432	\$39,774.35 \$0.0	\$0.00	\$305.46	\$181,315			Assumes horrow removed in such a manage that
A2.3.1.2		Slopes: Regrade to 3H:1V or flatter	0 h	rs C.2.13	0	.0 \$43.35	\$0.00 \$195.11	\$0	\$67.01	0	\$0.00 \$0.0	\$0.00	\$305.46	\$0			Assumes borrow removed in such a manner that significant resloping is not required.
A2.3.1.2 A2.3.2.1	Revegetate	Seed/Fertilize: broadcast seeding	29.79 h			.0 \$43.35	\$29,948.38 \$397.11	₄₀ \$11,828		7,228	\$6,938.40 \$986.0			\$0 \$78,084			Signmeant recipping is not required.
A2.3.2.2		Tree seedling application (1,000 stems/ha)	29.79 h			5 \$1,789.95	\$53,314.89 \$9.02	\$269		465	\$446.79 \$460.5		\$2,274.47	\$67,747			
A2.4	Ridgetop South Backfill Dump														\$0		
A3	Ore Stockpiles															\$718,046	
A3.1	High and Medium Grade Sulphic														\$622,515		(North, West, East, and South Stockpiles)
A3.1.1.1	Relocate to Pit	Ore: Load, haul, dump, spread into Main Pit	n 0		0.		\$0.00 \$1.40	\$0		0	\$0.00 \$0.0			\$0			
A3.1.1.2 A3.1.1.3		Ore Pads (Over-excavate 2m): Load, haul, dump spread into Main Pit	71,007 m		835.		\$35,937.83 \$1.40 \$10,328,07 \$1,25	\$99,587		42,458	\$40,759.51 \$0.0			\$176,284			
A3.1.1.3 A3.1.2.1	Re-grade	Complete confirmation testing Flat areas: Re-grade to form tertiary drainage catchments	1,421 e 289 h				\$10,328.07 \$1.25 \$12,542.60 \$195.11	\$1,776 \$56,455		0 20,197	\$0.00 \$13.0 \$19,388.95 \$0.0			\$30,577 \$88,386			
A3.1.2.1 A3.1.3.1	Cover	Cover material: Load, haul, dump spread (1m)	69,653 m		1,264		\$54,405.56 \$2.08	\$145,079		62,060	\$59,577.97 \$0.0			\$259,062			
A3.1.4.1	Revegetate	Seed/Fertilize: broadcast seeding	13.93 h			5 \$1,005.46	\$14,006.76 \$397.11	\$5,532		3,380	\$3,245.07 \$986.0			\$36,520			
A3.1.4.2		Tree seedling application (1,000 stems/ha)	13.93 h			9 \$1,789.95	\$24,935.21 \$9.02	\$126		218	\$208.96 \$460.5			\$31,685			
A3.2	Low Grade Sulphide Ore Stockp	ile (Main Dump Area)													\$95,532		
A3.2.1.1	Relocate to Pit	Ore: Load, haul, dump, spread into Main Pit	m 0		0.		\$0.00 \$1.46	\$0		0	\$0.00 \$0.0			\$0			
A3.2.1.2 A3.2.1.3		Ore Pad (Over-excavate 2m): Load, haul, dump spread into Main Pit	31,316 m		396.		\$17,026.77 \$1.46 \$4,540,87 \$1.25	\$45,709		20,131	\$19,325.41 \$0.0			\$82,061 \$12,470			
A3.2.1.3 A3.2.2.1	Re-grade	Complete confirmation testing Flat areas: Re-grade to form tertiary drainage catchments	626 e 0 h				\$4,549.87 \$1.25 \$0.00 \$195.11	\$783 \$0		U	\$0.00 \$13.0 \$0.00 \$0.0			\$13,470 \$0			Included in Main Waste Dump Closure
A3.2.2.1 A3.2.3.1	Cover	Cover material: Load, haul, dump spread (1m)	0 m		0.		\$0.00 \$195.11	\$0 \$0		0	\$0.00 \$0.0			\$0 \$0			Included in Main Waste Dump Closure
A3.2.4.1	Revegetate	Seed/Fertilize: broadcast seeding	0 h			0 \$1,005.46	\$0.00 \$397.11	\$0		Ō	\$0.00 \$986.0			\$0			Included in Main Waste Dump Closure
A3.2.4.2		Tree seedling application (1,000 stems/ha)	0 h	a C.6.06		0 \$1,789.95	\$0.00 \$9.02	\$0		0	\$0.00 \$460.5	50 \$0.00	\$2,274.47	\$0			Included in Main Waste Dump Closure



		11		-	Labour		Equi	ipment	Fuel		Mat	terial	Activ	vity Totals	Subto	otals	
				Cost					Consumed								
	acili Task Open Pits	Activity	Qnty Units	Code	Total Mhrs Unit Rate	Cost	Unit Rate	Cost Unit Rate	(L)	Cost	Unit Rate	Cost	Unit Rate	Cost	WBS Level 2	WBS Level 1 \$39,929	Source / Comments
A4.1 M	lain Pit														\$14,595	\$00,020	
A4.1.1.1 A4.1.1.2	Secure Access	Safety Berm: Clear land around highwall perimeter (10m width) Safety Berm: Construct around highwall perimeter	7,500 m2 4,860 m3	C.2.03 C.2.02	28.5 \$0.16 45.8 \$0.41	\$1,235.88 \$1,987.42	\$0.49 \$0.77	\$3,673 \$0.13 \$3,720 \$0.25	1,048 1,267	\$1,005.87 \$1,215.92	\$0.00 \$0.00	\$0.00 \$0.00		\$5,914 \$6,924			
A4.1.1.2 A4.1.1.3		Place large boulders across any pit access points	4,860 m3	R.001	1.6 \$1.36	\$70.51	\$0.77	\$141 \$0.90	49	\$46.76	\$0.00	\$0.00	\$1.42	\$258			
A4.1.1.4		Allowance: Install warning signs around pit perimeter at key locations	6 ea	C.5.13	5.6 \$39.33	\$235.97	\$9.61	\$58 \$5.57	35	\$33.39	\$195.35	\$1,172.12	\$249.86	\$1,499	* 2 222		
A4.2 A/ A4.2.1.1	rea 2 Pit (incl. Stage 3 Pit) Secure Access	Safety Berm: Clear land around highwall perimeter (10m width)	0 m2	C.2.03	0.0 \$0.16	\$0.00	\$0.49	\$0 \$0.13	0	\$0.00	\$0.00	\$0.00	\$0.79	\$0	\$9,203		
A4.2.1.2		Safety Berm: Construct around highwall perimeter	5,317 m3	C.2.02	50.2 \$0.41	\$2,174.34	\$0.77	\$4,070 \$0.25	1,386	\$1,330.27	\$0.00	\$0.00	\$1.42	\$7,575			
A4.2.1.3 A4.2.1.4		Place large boulders across any pit access points Allowance: Install warning signs around pit perimeter at key locations	26 m3 6 ea	R.001 C.5.13	0.8 \$1.36 5.6 \$39.33	\$35.25 \$235.97	\$2.70 \$9.61	\$70 \$0.90 \$58 \$5.57	24 35	\$23.38 \$33.39	\$0.00 \$195.35	0.00\$ \$1,172.12		\$129 \$1,499			
A4.3 AI	rea 118 Pit														\$5,207		
A4.3.1.1 A4.3.1.2	Secure Access	Safety Berm: Clear land around highwall perimeter (10m width) Safety Berm: Construct around highwall perimeter	2,580 m2 1,435 m3	C.2.03 C.2.02	9.8 \$0.16 13.5 \$0.41	\$425.14 \$586.76	\$0.49 \$0.77	\$1,263 \$0.13 \$1,098 \$0.25	360 374	\$346.02 \$358.99	\$0.00 \$0.00	\$0.00 \$0.00		\$2,035 \$2,044			
A4.3.1.3		Place large boulders across any pit access points	26 m3	R.001	0.8 \$1.36	\$35.25	\$2.70	\$70 \$0.90	24	\$23.38	\$0.00	\$0.00	\$4.96	\$129			
A4.3.1.4 A4.4 M	linto North Pit	Allowance: Install warning signs around pit perimeter at key locations	4 ea	C.5.13	3.7 \$39.33	\$157.31	\$9.61	\$38 \$5.57	23	\$22.26	\$195.35	\$781.42	\$249.86	\$999	\$10,924		
A4.4.1.1	Secure Access	Safety Berm: Clear land around highwall perimeter (10m width)	5,900 m2	C.2.03	22.4 \$0.16	\$972.22	\$0.49	\$2,889 \$0.13	824	\$791.29	\$0.00	\$0.00	\$0.79	\$4,653	\$10,524		
A4.4.1.2		Safety Berm: Construct around highwall perimeter	3,610 m	C.2.02	34.1 \$0.41	\$1,476.37	\$0.77	\$2,764 \$0.25	941	\$903.25	\$0.00	\$0.00		\$5,143			
A4.4.1.3 A4.4.1.4		Place large boulders across any pit access points Allowance: Install warning signs around pit perimeter at key locations	26 m3 4 ea	R.001 C.5.13	0.8 \$1.36 3.7 \$39.33	\$35.25 \$157.31	\$2.70 \$9.61	\$70 \$0.90 \$38 \$5.57	24 23	\$23.38 \$22.26	\$0.00 \$195.35	\$0.00 \$781.42	\$4.96 \$249.86	\$129 \$999			
A5 U	Inderground Openings															\$25,661	
A5.1 M A5.1.1.1	finto South Portal Seal portal	Load, Haul, Dump backfill plug	2.588 m3	R.001	81.5 \$1.36	\$3,508.32	\$2.70	\$6,993 \$0.90	2,423	\$2,326.51	\$0.00	\$0.00	\$4.96	\$12,828	\$15,185		Material sourced from nearby laydown area rockfill
A5.1.1.2		Doze backfill plug into portal with small dozer	2,566 m5 16 hrs	C.2.19	0.0 \$43.35	\$3,506.52 \$706.93	\$77.93	\$1,271 \$23.28	2,423	\$379.66	\$0.00	\$0.00		\$2,358			Matchar Sourcea non nearby laydown area IUCKIII
A5.1.2.1 A5.2 A	Revegetate rea 118 Vent Raise	Included in Yards (WBS No. A11-10)												\$0	\$10,476		
A5.2 AI A5.2.1.1	Site Preparation	Removal of Heater/Fan included in Demolition												\$0	φ10,47b		
A5.2.1.2	Conorota Can in tallati	Excavate and clean perimeter around shaft to suitable material.	4 ea	C.8.01	8.0 \$82.07	\$328.29	\$15.83	\$63 \$6.83	28	\$27.33	\$0.00	\$0.00	\$104.73	\$419 \$606			
A5.2.2.1 A5.2.2.2	Concrete Cap installation	Structural steel - Supply and install I-Beam structural support Formwork: Supply and install concrete ring-wall formwork	8 m 8 m2	C.8.02 C.8.03	9.8 \$49.04 51.3 \$302.50	\$392.34 \$2,419.98	\$16.11 \$0.00	\$129 \$6.05 \$0 \$0.00	50 0	\$48.37 \$0.00	\$15.77 \$3.47	\$126.16 \$27.76	\$86.97 \$305.97	\$696 \$2,448			
A5.2.2.3		Ringwall Rebar: supply and install	32 m	C.8.05	0.8 \$1.24	\$39.84	\$0.00	\$0 \$0.00	Ó	\$0.00	\$3.30	\$105.71	\$4.55	\$146			to device which former and the first state
A5.2.2.4 A5.2.2.5		Concrete slab: supply and install Vent Raise Pipe Supply and install	8.6 m3 1 ea.	C.8.06 C.8.07	61.1 \$321.82 0.5 \$17.36	\$2,780.48 \$17.36	\$10.75 \$0.00	\$93 \$3.50 \$0 \$0.00	31 0	\$30.21 \$0.00	\$378.65 \$451.59	\$3,271.53 \$451.59	\$714.72 \$468.95	\$6,175 \$469			Includes slab formwork, rebar, finishing.
A5.2.3.1	Backfill cap area	Backfill: Load, haul, dump, place over concrete cap	25 m3	R.001	0.8 \$1.36	\$33.90	\$2.70	\$68 \$0.90	23	\$22.48	\$0.00	\$0.00		\$124			
	xternal Tailings Facilities														¢450-044	\$150,214	
A6.1 D	ry Stack Tailings Storage Facili Waste Rock Shell	Regrade WR shell slopes to 4H:1V	0 hrs	C.2.13	0.0 \$43.35	\$0.00	\$195.11	\$0 \$67.01	0	\$0.00	\$0.00	\$0.00	\$305.46	\$0	\$150,214		
A6.1.1.2		Cover material: Load, haul, dump spread (0.5m)	0 m3	R.043	0.0 \$0.84	\$0.00	\$2.23	\$0 \$0.91	0	\$0.00	\$0.00	\$0.00		\$0			
A6.1.1.3 A6.1.1.4		Scarify surface Seed/Fertilize: broadcast seeding	0 m2 0.00 ha	C.2.16 C.6.01	0.0 \$0.03 0.0 \$1,005.46	\$0.00 \$0.00	\$0.06 \$397.11	\$0 \$0.02 \$0 \$232.94	0	\$0.00 \$0.00	\$0.00 \$986.00	\$0.00 \$0.00		\$0 \$0			
A6.1.1.5		Tree seedling application (1,000 stems/ha)	0.00 ha	C.6.06	0.0 \$1,789.95	\$0.00	\$9.02	\$0 \$15.00	0	\$0.00	\$460.50	\$0.00		\$0			
A6.1.2.1	Fill Area at south and of DS	Load, haul, dump, spread	30,300 Cm3	R.001	954.9 \$1.36	\$41,082.96	\$2.70	\$81,887 \$0.90	28,379	\$27,243.79	\$0.00	\$0.00	\$4.96	\$150,214			Fill from TDD road and/or unsuitable DSTSF cover material
A6.1.3.1	Tailings surface	Regrade tailings area south of the tailings	0 hrs	C.2.13	0.0 \$43.35	\$0.00	\$195.11	\$0 \$67.01	20,379	\$0.00	\$0.00	\$0.00		\$150,214			material
A6.1.3.2		Regrade surface to form tertiary drainage catchments	0 hrs	C.2.13 R.003	0.0 \$43.35	\$0.00	\$195.11	\$0 \$67.01	0	\$0.00	\$0.00 \$0.00	\$0.00		\$0 \$0			
A6.1.3.3 A6.1.3.4		Cover: Excavate unsuitable temporary cover material Cover material: Load, haul, dump spread (0.5m)	0 m3 0 m3	R.003 R.043	0.0 \$0.50 0.0 \$0.84	\$0.00 \$0.00	\$1.34 \$2.23	\$0 \$0.57 \$0 \$0.91	0	\$0.00 \$0.00	\$0.00	\$0.00 \$0.00		\$0 \$0			
A6.1.3.5		Seed/Fertilize: broadcast seeding	0.00 ha	C.6.01	0.0 \$1,005.46	\$0.00	\$397.11	\$0 \$232.94	0	\$0.00	\$986.00	\$0.00	\$2,621.52	\$0			
A6.1.3.6	loads	Tree seedling application (1,000 stems/ha)	0.00 ha	C.6.06	0.0 \$1,789.95	\$0.00	\$9.02	\$0 \$15.00	0	\$0.00	\$460.50	\$0.00	\$2,274.47	\$0		\$106,478	
A7.1 E	xploration Roads														\$32,339	¢100,110	
A7.1.1.1 A7.1.2.1	Regrade/Scarify Revegetate	Scarify road surface Seed/Fertilize: broadcast seeding	54,285 m2 5.43 ha	C.2.16 C.6.01	0.0 \$0.03 179.8 \$1,005.46	\$1,842.07 \$5,458.15	\$0.06 \$397.11	\$2,993 \$0.02 \$2,156 \$232.94	965 1,317	\$926.07 \$1,264.54	\$0.00 \$986.00	\$0.00 \$5,352.50		\$5,761 \$14,231			
A7.1.2.2	revegetate	Tree seedling application (1,000 stems/ha)	5.43 ha	C.6.06	278.2 \$1,789.95	\$9,716.74	\$9.02	\$49 \$15.00	85	\$81.43		\$2,499.82		\$12,347			
A7.2 A0 A7.2.1.1	ccess Roads (excl. Main Site A	ccess Road) Regrade side slopes	9 hrs	C 2 12	9.5 \$43.35	\$410.01	\$195.11	\$1,845 \$67.01	660	¢600.04	\$0.00	\$0.00	\$305.46	¢0.000	\$8,479		
A7.2.1.1 A7.2.1.2	Regrade/Scarify	Regrade side sides Scarify road surface	9 nrs 52,636 m2	C.2.13 C.2.16	9.5 \$43.35 0.0 \$0.03	\$410.01 \$1,786.12	\$195.11 \$0.06	\$1,845 \$67.01 \$2,902 \$0.02	935	\$633.81 \$897.94	\$0.00 \$0.00	\$0.00 \$0.00		\$2,889 \$5,586			
A7.2.2.1	Revegetate	Seed/Fertilize: broadcast seeding	0.00 ha	C.6.01	0.0 \$1,005.46	\$0.75	\$397.11	\$0 \$232.94	0	\$0.17	\$986.00	\$0.73		\$2			
A7.2.2.2 A7.3 M	lain Site Access Road	Tree seedling application (1,000 stems/ha)	0.00 ha	C.6.06	0.0 \$1,789.95	\$1.33	\$9.02	\$0 \$15.00	0	\$0.01	\$460.50	\$0.34	\$2,274.47	\$2	\$1,281		
A7.3.1.1	New Access over MVFE	Regrade new access through MVFE	0 m3	0.5.1							05	• ···-		\$0	, .,		
A7.3.2.1 A7.4 H	Signage laul Roads	Install large sign on east and west side of barge landing on Yukon River	2 ea.	C.5.14	1.9 \$39.33	\$78.66	\$9.61	\$19 \$5.57	12	\$11.13	\$586.06	\$1,172.12	\$640.56	\$1,281	\$44,917		
A7.4.1.1	Regrade/Scarify	Regrade side slopes	12 hrs	C.2.13	12.1 \$43.35	\$524.01	\$195.11	\$2,359 \$67.01	844	\$810.04		\$0.00		\$3,693	φ τ-1,0 1 <i>1</i>		
A7.4.1.2 A7.4.2.1	Revenetate	Scarify road surface	61,404 m2 7.09 ha	C.2.16 C.6.01	0.0 \$0.03 234.8 \$1,005.46	\$2,083.64 \$7,127.80	\$0.06 \$397.11	\$3,385 \$0.02 \$2,815 \$232.94	1,091 1,720	\$1,047.52 \$1,651.36	\$0.00 \$986.00	\$0.00 \$6,989.84		\$6,516 \$18,584			
A7.4.2.1 A7.4.2.2	Revegetate	Seed/Fertilize: broadcast seeding Tree seedling application (1,000 stems/ha)	7.09 ha	C.6.06	363.3 \$1,789.95	\$12,689.10	\$9.02	\$2,815 \$232.94 \$64 \$15.00	1,720	\$1,651.36 \$106.34	\$986.00 \$460.50		\$2,621.52 \$2,274.47	\$18,584 \$16,124			
A7.5 Ci A7.5.1.1	Culvert Removal	Mohilization allowance for execution fleet to verious sites	6 hrs	C.7.01	12.0 \$86.16	\$516.94	\$119.65	\$718 \$44.16	276	\$264.96	\$0.00	\$0.00		\$1,500	\$19,462		
A7.5.1.1 A7.5.1.2	Excavate culverts	Mobilization allowance for excavation fleet to various sites Load, haul, dump, spread (spoil locally)	18,020 m3	R.901	59.1 \$0.14	\$516.94 \$2,561.30	\$0.58	\$10,541 \$0.20	3,841	\$264.96 \$3,687.10	\$0.00	\$0.00 \$0.00		\$1,500			
A7.5.1.2	Waste disposal	On-site disposal (demolition debris, etc.)	190 Lm3	R.033	8.1 \$1.83	\$348.01	\$3.20	\$608 \$1.14	227	\$217.54	\$0.00	\$0.00	\$6.17	\$1,173		¢4 000 400	
	emolition irstrip Area														\$20,720	\$1,933,168	
A8.1.1.1	Remove tanks/equipment	Dismantle and prep for transport	7 hrs	C.1.13	28.0 \$164.14	\$1,149.00	\$87.08	\$610 \$14.53	106	\$101.70	\$0.00	\$0.00		\$1,860	<i>\\\</i> 20,720		
A8.1.2.1 A8.1.2.2	Waste Oil Tanker Seconda	Bedding Material: Load, haul dump bedding material to landfarm Cut and fold liner	47 Cm3 219 m2	R.001 C.1.15	1.5 \$1.36 2.5 \$0.42	\$64.19 \$92.63	\$2.70 \$0.20	\$128 \$0.90 \$43 \$0.07	44 16	\$42.57 \$15.13	\$0.00 \$0.00	\$0.00 \$0.00		\$235 \$151			
A8.1.2.2 A8.1.2.3		Regrade area to promote positive drainage	192 m2	C.1.15 C.2.11	2.5 \$0.42 1.9 \$0.43	\$92.63 \$83.23	\$0.20 \$1.29	\$247 \$0.35	71	\$15.13	\$0.00	\$0.00 \$0.00		\$398			
A8.1.3.1	Prepare for demolition	Remove hazardous materials/prep for transport offsite	10 hrs	C.1.22	40.0 \$155.59	\$1,555.87	\$97.38	\$974 \$26.93	281	\$269.28	\$0.00	\$0.00	\$279.90	\$2,799			
A8.1.3.2 A8.1.4.1	Demolition	Disconnect services Structural building demolition: wooden buildings/tents	4 hrs 1,149 m3	C.1.09 C.1.08	12.0 \$86.08 87.7 \$2.82	\$344.32 \$3,233.87	\$7.75 \$1.61	\$31 \$4.80 \$1,849 \$0.57	20 680	\$19.20 \$652.51	\$0.00 \$0.00	\$0.00 \$0.00		\$395 \$5,736			
A8.1.4.2		Other demolition: covered storage, debris, etc.	530 m3	C.1.07	52.5 \$3.65	\$1,934.55	\$2.09	\$1,106 \$0.74	407	\$390.34	\$0.00	\$0.00	\$6.48	\$3,431			
A8.1.5.1 A8.1.5.2	Waste disposal	On-site disposal (demolition debris, etc.) Off-site disposal (re-usable equipment, etc.)	379 m3 4 m3	R.006 C.7.07	12.8 \$1.45 34.6 \$346.78	\$548.89 \$1,500.89	\$2.56 \$429.22	\$971 \$0.92 \$1,858 \$113.33	361 511	\$346.89 \$490.50	\$0.00 \$0.00	\$0.00 \$0.00		\$1,867 \$3,849			
A8.2 Ai	irport Laydown Area		+ 1115	0.1.01		ψ1,500.09	Ψ723.22	φι,000 φι13.33	511	\$ 4 50.30	ψ0.00	φ0.00	ψ009.33	43,049	\$32,681		
A8.2.1.1		Dismantle and prep for transport Remove hazardous materials/prep for transport offsite	2 hrs	C.1.13	8.0 \$164.14	\$328.29	\$87.08	\$174 \$14.53	30	\$29.06	\$0.00	\$0.00		\$532 \$560			
48.2.2.1		INCOME DAZAROUS MALENAIS/DIED TOF ITANSDOTLOUSILE	2 hrs	C.1.22	8.0 \$155.59	\$311.17	\$97.38	\$195 \$26.93	56	\$53.86	\$0.00	\$0.00	\$279.90	\$560			

				Labour	Equi	pment	Fuel		Materia	ial	Activi	ty Totals	Subt	totals	
Facili Task	Activity	Qnty Units	Cost Code	Total Mhrs Unit Rate	Cost Unit Rate	Cost Unit	Consumed	Cost Un	it Rate	Cost U	nit Rate	Cost	WBS Level 2	WBS Level 1	Source / Comments
	Disconnect services	4 hrs	C.1.09	12.0 \$86.08	\$344.32 \$7.75	\$31	4.80 20	\$19.20	\$0.00	\$0.00	\$98.63	\$395			
	Structural building demolition: steel structures Other demolition: covered storage etc.	96 tonnes 560 m3	C.1.05 C.1.07	191.3 \$67.73 55.5 \$3.65	\$6,477.52 \$136.09 \$2,045.31 \$2.09		3.84 3,371 0.74 430	\$3,236.25 \$412.69	\$0.00 \$0.00	\$0.00 \$0.00	\$237.66 \$6.48	\$22,729 \$3,628			
Waste disposal	On-site disposal (demolition debris, etc.)	393 Lm3	R.005	15.8 \$1.72	\$676.99 \$3.01	\$1,182	1.08 441	\$423.19	\$0.00	\$0.00	\$5.81	\$2,282			
Camp Area	Off-site disposal (re-usable equipment, etc.)	3 trips	C.7.07	23.0 \$346.78	\$996.98 \$429.22	\$1,234 \$1	3.33 339	\$325.82	\$0.00	\$0.00	\$889.33	\$2,557	\$370,330		
	Remove salvageable equipment	48 hrs	C.1.13	192.0 \$164.14	\$7,878.86 \$87.08	\$4,180 \$	4.53 726	\$697.34	\$0.00	\$0.00	\$265.75	\$12,756	4010,000		
-	Dismantle and prep for transport	92 ea.	C.1.20	1,794.0 \$831.26	\$76,475.46 \$737.86		6.46 15,953	\$15,314.69	\$0.00	\$0.00	\$1,735.58	\$159,673			
	Transport structures off-site (Whitehorse) Remove hazardous materials/prep for transport offsite	92 ea. 1 hrs	C.7.04 C.1.22	736.0 \$343.01 4.0 \$155.59	\$31,557.04 \$309.18 \$155.59 \$97.38		3.33 10,861 6.93 28	\$10,426.18 \$26.93	\$0.00 \$0.00	\$0.00 \$0.00	\$765.52 \$279.90	\$70,428 \$280			
	Disconnect services	8 hrs	C.1.09	24.0 \$86.08	\$688.64 \$7.75	\$62	4.80 40	\$38.40	\$0.00	\$0.00	\$98.63	\$789			
	Structural building demolition: Steel Structural building demolition: Wood/misc. structures	175 tonnes 10,959 m3	C.1.05 C.1.08	350.7 \$67.73 836.7 \$2.82	\$11,875.46 \$136.09 \$30,850.94 \$1.61		3.84 6,180 0.57 6,484	\$5,933.13 \$6,224.86	\$0.00 \$0.00	\$0.00 \$0.00	\$237.66 \$4.99	\$41,669 \$54,720			
	Other demolition: Utilidors, etc.	466 m3	C.1.07	46.1 \$3.65	\$1,701.64 \$2.09		0.74 358	\$343.34	\$0.00	\$0.00	\$6.48	\$3,018			
	On-site disposal (demolition debris, etc.)	3,867 m3	R.007	175.3 \$1.95	\$7,528.19 \$3.40		1.22 4,902	\$4,705.86	\$0.00	\$0.00	\$6.56	\$25,380			
	Off-site disposal (re-usable equipment, etc.) Break in place concrete foundations	1 trips 51 m3	C.7.07 C.1.01	8.0 \$346.78 4.1 \$2.33	\$346.78 \$429.22 \$119.29 \$9.40		3.33 118 2.48 132	\$113.33 \$126.81	\$0.00 \$0.00	\$0.00 \$0.00	\$889.33 \$14.22	\$889 \$727			
Explosives Plant and Storage Are	eas												\$30,166		
	Small equipment: dismantle and prep for transport Dismantle and prep for transport	37 hrs 1 ea.	C.1.13 C.1.20	149.3 \$164.14 19.5 \$831.26	\$6,128.00 \$87.08 \$831.26 \$737.86		4.53 565 6.46 173	\$542.38 \$166.46	\$0.00 \$0.00	\$0.00 \$0.00	\$265.75 \$1,735.58	\$9,921 \$1,736			
-	Transport structures off-site (Whitehorse)	1 ea.	C.7.04	8.0 \$343.01	\$343.01 \$309.18		3.33 118	\$113.33	\$0.00	\$0.00	\$765.52	\$766			
	Remove hazardous materials/prep for transport offsite	4 hrs	C.1.22	16.0 \$155.59	\$622.35 \$97.38		6.93 112		\$0.00	\$0.00	\$279.90	\$1,120			
	Disconnect services Structural building demolition: Steel	2 hrs 47 tonnes	C.1.09 C.1.05	6.0 \$86.08 94.2 \$67.73	\$172.16 \$7.75 \$3,189.69 \$136.09		4.80 10 3.84 1,660	\$9.60 \$1,593.61	\$0.00 \$0.00	\$0.00 \$0.00	\$98.63 \$237.66	\$197 \$11,192			
	On-site disposal (demolition debris, etc.)	103 m3	R.008	5.4 \$2.27	\$233.62 \$3.96	\$408	1.42 152	\$146.04	\$0.00	\$0.00	\$7.65	\$788			
Fuel Storage Area	Off-site disposal (re-usable equipment, etc.)	5 trips	C.7.07	40.0 \$346.78	\$1,733.88 \$429.22	\$2,146 \$1	3.33 590	\$566.64	\$0.00	\$0.00	\$889.33	\$4,447	\$113,164		
	Small equipment: dismantle and prep for transport	24 hrs	C.1.13	96.0 \$164.14	\$3,939.43 \$87.08	\$2,090 \$	4.53 363	\$348.67	\$0.00	\$0.00	\$265.75	\$6,378	\$115,104		
	Large equipment (crane req'd): dismantle and prep for transport	192 hrs	C.1.14	1,153.4 \$263.70	\$50,693.54 \$168.95		0.53 4,111	\$3,946.31	\$0.00 \$0.00	\$0.00	\$453.18	\$87,119			
-	Hazardous materials: Gather and prep for transport offsite Disconnect services	2 hrs 8 hrs	C.1.22 C.1.09	8.0 \$155.59 24.0 \$86.08	\$311.17 \$97.38 \$688.64 \$7.75		6.93 56 4.80 40	\$53.86 \$38.40	\$0.00 \$0.00	\$0.00 \$0.00	\$279.90 \$98.63	\$560 \$789			
	Clean out tanks, pressure wash, remove sludge	10 hrs	C.1.04	10.3 \$34.72	\$356.69 \$17.70	\$182	2.00 21	\$20.55	\$0.00	\$0.00	\$54.42	\$559			
	Misc. debris/scraps (tanks included in dismantling above) Bedding Material: Load, haul dump bedding material to landfarm	75 m3 623 Cm3	C.1.08 R.009	5.7 \$2.82 32.8 \$2.26	\$211.13 \$1.61 \$1,408.92 \$3.95		0.57 44 1.41 917	\$42.60 \$880.71	\$0.00 \$0.00	\$0.00 \$0.00	\$4.99 \$7.63	\$374 \$4,750			
	Cut and fold liner	1,747 m2	C.1.15	20.3 \$0.42	\$740.64 \$0.20		0.07 126	\$120.97	\$0.00 \$0.00	\$0.00	\$0.69	\$1,204			
	Regrade area to promote positive drainage	1,666 m2	C.2.11	16.7 \$0.43	\$722.16 \$1.29	\$2,146	0.35 612	\$587.76	\$0.00	\$0.00	\$2.07	\$3,456			
	On-site disposal (demolition debris, etc.) Off-site disposal (re-usable equipment, etc.)	229 m3 7 trips	R.009 C.7.07	12.1 \$2.26 56.0 \$346.78	\$518.73 \$3.95 \$2,427.44 \$429.22		1.41 338 3.33 826	\$324.26 \$793.30	\$0.00 \$0.00	\$0.00 \$0.00	\$7.63 \$889.33	\$1,749 \$6,225			
Mill Area		7 11-10	0.1.01	00.0 00.00	ψ2,127.11 ψ120.22	φ0,000 φ1	0.00 020	¢700.00	ψ0.00	ψ0.00	φ000.00	ψ0,220	\$1,243,185		Excludes WTP
	Small equipment: dismantle and prep for transport	379 hrs	C.1.13	1,515.0 \$164.14	\$62,167.87 \$87.08		4.53 5,732	\$5,502.37	\$0.00	\$0.00	\$265.75	\$100,652			
	Large equipment (crane req'd): dismantle and prep for transport Hazardous materials: Gather and prep for transport offsite	466 hrs 65 hrs	C.1.14 C.1.22	2,796.5 \$263.70 260.0 \$155.59	\$122,905.21 \$168.95 \$10,113.15 \$97.38		0.53 9,966 6.93 1,823	\$9,567.74 \$1,750.32	\$0.00 \$0.00	\$0.00 \$0.00	\$453.18 \$279.90	\$211,219 \$18,193			Off-site disposal included in 'Waste Dispos
-	Reagents: Disposal and tipping fees	1.0 ls	n/a	0.0 \$0.00	\$0.00 \$0.00	\$0	0.00 0	\$0.00	\$0.00	\$0.00	\$0.00	\$0			
	Decontaminate buildings: wash equipment/structures, etc.	38 hrs 4,732 m2	C.1.04 C.1.03	37.8 \$34.72 40.8 \$0.30	\$1,311.88 \$17.70 \$1,414.68 \$0.15		2.00 79 0.02 85	\$75.58 \$81.50	\$0.00 \$0.00	\$0.00 \$0.00	\$54.42 \$0.47	\$2,056 \$2,217			
	Decontaminate buildings: Wash floors etc. Structural building demolition: Steel	2,660 tonnes	C.1.03 C.1.05	5,319.1 \$67.73	\$180,139.34 \$136.09		3.84 93,750		\$0.00 \$0.00	\$0.00	\$0.47	\$632,083			
	Structural building demolition: Wood/misc. structures	960 m3	C.1.08	73.3 \$2.82	\$2,702.52 \$1.61		0.57 568	\$545.29	\$0.00	\$0.00	\$4.99	\$4,793			
	Other demolition: Steel Other demolition: concrete	526 tonnes 602 m3	C.1.05 C.1.06	1,052.7 \$67.73 323.7 \$15.55	\$35,649.79 \$136.09 \$9,354.72 \$62.69		3.84 18,553 6.53 10,359	\$17,811.10 \$9,944.51	\$0.00 \$0.00	\$0.00 \$0.00	\$237.66 \$94.77	\$125,090 \$57,022			
	Other demolition: miscellaneous	244 m3	C.1.07	24.1 \$3.65	\$889.64 \$2.09		0.74 187	\$179.50	\$0.00	\$0.00	\$6.48	\$1,578			
	On-site disposal (demolition debris, etc.) Off-site disposal (re-usable equipment, etc.)	5,985 m3 33 trips	R.033 C.7.07	255.1 \$1.83 266.0 \$346.78	\$10,954.37 \$3.20 \$11,529.45 \$429.22		1.14 7,133 3.33 3,925	\$6,847.56 \$3,767.87	\$0.00 \$0.00	\$0.00 \$0.00	\$6.17 \$889	\$36,931 \$29,568			
	Break in place concrete foundations	1,532 m3	C.1.07	123.7 \$2.33	\$3,573.27 \$9.40		2.48 3,957	\$3,798.55	\$0.00 \$0.00	\$0.00	\$009 \$14.22	\$29,568			
Mill Valley Fill Extension (Stage 1	and 2)												\$27,640		
-	Hazardous materials: Gather and prep for transport offsite Reagents: Disposal and tipping fees	8 hrs 1 ls	C.1.22 n/a	30.0 \$155.59 0.0 \$0.00	\$1,166.90 \$97.38 \$0.00 \$0.00		6.93 210 0.00 0	\$201.96 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$279.90 \$0.00	\$2,099 \$0			
Demolish buildings	Structural building demolition: Wood/misc. structures (Reagent tent)	1,800 m3	C.1.08	137.4 \$2.82	\$5,067.22 \$1.61	\$2,898	0.57 1,065	\$1,022.42	\$0.00	\$0.00	\$4.99	\$8,988			
	Demolition debris Remove tires off-site for disposal	594 m3 10 trips	R.033 C.7.07	25.3 \$1.83 78.8 \$346.78	\$1,087.16 \$3.20 \$3,413.58 \$429.22		1.14 708 3.33 1,162	\$679.58 \$1,115.57	\$0.00 \$0.00	\$0.00 \$0.00	\$6.17 \$889.33	\$3,665 \$8,754			
	Misc. debris/scraps	652 m3	R.033	27.8 \$1.83	\$3,413.58 \$429.22 \$1,193.32 \$3.20		1.14 777	\$745.94	\$0.00 \$0.00	\$0.00 \$0.00	\$889.33 \$6.17	\$8,754 \$4,023			
	Break and bury concrete foundations	8 m3	C.1.01	0.6 \$2.33	\$18.05 \$9.40		2.48 20		\$0.00	\$0.00	\$14.22	\$110	* •		
Minto South Portal Remove equipment	Small equipment: dismantle and prep for transport	6 hrs	C.1.13	24.0 \$164.14	\$984.86 \$87.08	\$522 \$	4.53 91	\$87.17	\$0.00	\$0.00	\$265.75	\$1,595	\$8,169		
Prepare for demolition	Hazardous materials: Gather and prep for transport offsite	2 hrs	C.1.22	8.0 \$155.59	\$311.17 \$97.38	\$195 \$	6.93 56	\$53.86	\$0.00	\$0.00	\$279.90	\$560			
	Other demolition: miscellaneous On-site disposal (demolition debris, etc.)	462 m3 462 m3	C.1.07 R.038	45.7 \$3.65 20.9 \$1.94	\$1,686.94 \$2.09 \$896.67 \$3.39		0.74 355 1.21 584	\$340.38 \$560.51	\$0.00 \$0.00	\$0.00 \$0.00	\$6.48 \$6.54	\$2,992 \$3,023			
Pelly Laydown (Includes propane		102 1115	11.050	20.3 φ1.94	φυσυ.υτ φυ.38	ψ1,300		ψ300.31	ψ0.00	ψ0.00	ψ0.04	φ0,020	\$81,791		
Remove modular buildings/t	Dismantle and prep for transport	7 ea.	C.1.20	136.5 \$831.26	\$5,818.79 \$737.86		6.46 1,214		\$0.00		\$1,735.58	\$12,149			
	Transport structures off-site (Whitehorse) Hazardous materials: Gather and prep for transport offsite	7 ea. 2 hrs	C.7.04 C.1.22	56.0 \$343.01 8.0 \$155.59	\$2,401.08 \$309.18 \$311.17 \$97.38		3.33 826 6.93 56	\$793.30 \$53.86	\$0.00 \$0.00	\$0.00 \$0.00	\$765.52 \$279.90	\$5,359 \$560			
Demolish buildings	Structural building demolition: Steel	80 tonnes	C.1.05	159.4 \$67.73	\$5,397.94 \$136.09	\$10,846 \$	3.84 2,809	\$2,696.88	\$0.00	\$0.00	\$237.66	\$18,941			
	Structural building demolition: Wood/misc. structures	5,672 m3 2,165 m3	C.1.08 R.040	433.1 \$2.82 100.0 \$1.98	\$15,968.45 \$1.61 \$4,292.80 \$3.46		0.57 3,356 1.24 2,795	\$3,221.99 \$2,683.42	\$0.00 \$0.00	\$0.00 \$0.00	\$4.99 \$6.69	\$28,323 \$14,473			
	On-site disposal (demolition debris, etc.) Off-site disposal (re-usable equipment, etc.)	2,165 m3 2 trips	R.040 C.7.07	15.0 \$346.78	\$4,292.80 \$3.46 \$650.21 \$429.22		3.33 2,795	\$2,683.42 \$212.49	\$0.00 \$0.00	\$0.00 \$0.00	\$6.69 \$889.33	\$14,473 \$1,667			
Demolish foundations	Break and bury concrete foundations	23 m3	C.1.01	1.8 \$2.33	\$52.47 \$9.40		2.48 58		\$0.00	\$0.00	\$14.22	\$320	-		
Vent Raise - Area 118 Remove equipment	Small equipment: dismantle and prep for transport	20 hrs	C.1.13	80.0 \$164.14	\$3,282.86 \$87.08	\$1,742 \$	4.53 303	\$290.56	\$0.00	\$0.00	\$265.75	\$5,315	\$5,322		
	Off-site disposal (re-usable equipment, etc.)	1 trips	R.038	0.0 \$1.94	\$1.94 \$3.39		4.55 503	\$290.56 \$1.21	\$0.00 \$0.00	\$0.00	\$205.75 \$6.54	\$5,315 \$7			
Surface Infrastructure														\$118,389	
Tailings and Water Conveyance F Dismantle piping systems	Pipelines Flush and clean tailings pipeline systems	6 le	C.1.21	24.0 \$199.11	\$1,194.67 \$0.00	\$0	0.00 0	\$0.00	\$0.00	\$0.00	\$199.11	\$1,195	\$49,547		
	Cut pipelines and prep for transport (6 to 8" HDPE pipes)	2,968 m	C.1.21 C.1.17	467.4 \$7.05	\$20,919.48 \$0.00		0.00 0	\$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$7.05	\$20,919			
1 1 1		278 m	C.1.18	73.0 \$11.75	\$3,265.73 \$0.00		0.00 0	\$0.00	\$0.00	\$0.00	\$11.75	\$3,266			
	Cut pipelines and prep for transport (10 to 18" HDPE pipes)							-							
	Cut pipelines and prep for transport (10 to 18" HDPE pipes) Cut pipelines and prep for transport (20 to 36" HDPE pipes) Haul pipes lines and debris to landfill	1,283 m 253 m3	C.1.19 R.033	505.1 \$17.62 10.8 \$1.83	\$22,607.56 \$0.00 \$462.44 \$3.20	\$0	0.00 0 1.14 301	\$0.00 \$289.07	\$0.00 \$0.00	\$0.00 \$0.00	\$17.62 \$6.17	\$22,608 \$1,559			

Image: Image:<					1	Labour		Equip	oment		Fuel		Mat	terial	Activ	vity Totals	Subt	otals	
Northold Marked matrix Joint Matrix <th>WD0 5-</th> <th></th> <th>A - 19-29-</th> <th>Outra Halta</th> <th></th> <th></th> <th>0</th> <th></th> <th>0</th> <th></th> <th></th> <th>0</th> <th>Unit Data</th> <th>0</th> <th></th> <th>Quart</th> <th>WD0 Louis 0</th> <th>WD0 1</th> <th>0</th>	WD0 5-		A - 19-29-	Outra Halta			0		0			0	Unit Data	0		Quart	WD0 Louis 0	WD0 1	0
	A9.2.1.2		Remove barges/Support Equipment prep for transport	2 ea.	C.1.23	52.8 \$1,178.20	\$2,356.40	\$17.32	\$35	\$28.80	60	\$57.60	\$0.00	\$0.00	\$1,224.33	\$2,449	WBS Level 2	WBS Level 1	Source / Comments
	A9.3 Po	verlines .															\$63,160		
Image: 10 market in the submarket		Dismantle																	
No. No. <td></td> <td>Waste disposal</td> <td>•</td> <td></td>		Waste disposal	•																
Name Name <th< td=""><td>A10 Wa</td><td>ter Detention Structures</td><td></td><td>i c mpo</td><td>0.1.101</td><td></td><td>\$0,211100</td><td>¢ 120122</td><td>¢1,120</td><td>¢110.00</td><td>2,120</td><td>\$2,000.00</td><td>\$0.00</td><td>¢0.00</td><td>\$000.00</td><td>\$10,000</td><td></td><td>\$739,172</td><td></td></th<>	A10 Wa	ter Detention Structures		i c mpo	0.1.101		\$0,211100	¢ 120122	¢1,120	¢110.00	2,120	\$2,000.00	\$0.00	¢0.00	\$000.00	\$10,000		\$739,172	
No. No. <td></td> <td></td> <td>Cut and fold liner</td> <td></td> <td></td> <td>15.2 \$0.42</td> <td></td> <td></td> <td></td> <td>\$0.07</td> <td></td> <td>\$90.70</td> <td>\$0.00</td> <td></td> <td>\$0.69</td> <td></td> <td>\$1,026</td> <td></td> <td></td>			Cut and fold liner			15.2 \$0.42				\$0.07		\$90.70	\$0.00		\$0.69		\$1,026		
No. 1000000000000000000000000000000000000		Water Pond	Haul liner to landfill	20 Lm3	R.059	0.8 \$1.86	\$36.48	\$3.24	\$64	\$1.16	24	\$22.80	\$0.00	\$0.00	\$6.26	\$123	\$0		
	A10.3 Se	wage Lagoon (near IROD)	Rockfill pood	4 499 m2	P 001	141 4 \$1.26	\$6.095.16	\$2.70	\$12,120	\$0.00	4 202	\$4.025.22	00.02	\$0.00	\$4.96	\$22.240	* *		
Control Control <t< td=""><td>A10.4 Wa</td><td>ter Storage Pond Dam</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>\$715,896</td><td></td><td></td></t<>	A10.4 Wa	ter Storage Pond Dam															\$715,896		
No.1 No.2		Water Management		400,000 m3							3,058								
	A10.4.1.3		Maintain pump around system during WSP closure activities	103 days	C.4.13	10.3 \$3.47	\$355.89	\$14.94	\$1,532	\$2.00	214	\$205.03	\$0.00	\$0.00	\$20.41	\$2,092			Duration calculated as sum of associated tasks plus 20% contingency
No. 50 No. 50<		Breach dam																	
Norther Norther <t< td=""><td>A10.4.2.3</td><td></td><td></td><td>19,285 m3</td><td>R.001</td><td>607.8 \$1.36</td><td>\$26,148.62</td><td>\$2.70</td><td>\$52,120</td><td>\$0.90</td><td>18,063</td><td>\$17,340.22</td><td>\$0.00</td><td>\$0.00</td><td>\$4.96</td><td>\$95,609</td><td></td><td></td><td></td></t<>	A10.4.2.3			19,285 m3	R.001	607.8 \$1.36	\$26,148.62	\$2.70	\$52,120	\$0.90	18,063	\$17,340.22	\$0.00	\$0.00	\$4.96	\$95,609			
Name Partial partial balance partin balance partial balance partial balance partial ba		Channel restoration																	
NAMA Property biology contraction Off Mathematical State St	A10.4.3.2		Bedding layer: Load haul, dump, place granular bedding layer along cha	726 m3	R.001	22.9 \$1.36	\$984.97	\$2.70	\$1,963	\$0.90	680	\$653.17	\$0.00	\$0.00	\$4.96	\$3,601			
Note:: Index Mark Index Mark<	A10.4.3.4		Rip-rap: place and secure	964 m3	R.904	10.5 \$0.47	\$454.19	\$0.92	\$884	\$0.32	325	\$311.83	\$0.00	\$0.00	\$1.71	\$1,650			
N1 Product dyson Areas Produ																			Cover sourced from dam core material
11-10 More and books and b		rds/l avdown Areas	Tree seedling application (1,000 stems/ha)	1.4 ha	C.6.06	71.5 \$1,789.95	\$2,496.98	\$9.02	\$13	\$15.00	22	\$20.93	\$460.50	\$642.40	\$2,274.47	\$3,173		\$703 988	
N11-12 N11-12	A11.1 Air:	strip Area			_												\$38,351	<i>\$103,300</i>	
N11.2 The canding spectra in JAX bench in J		Re-grade	•								0 1,144								
11.2 Appel Logismi Alea Section Alea Sec		Revegetate																	
1212 2 Biological Bi	A11.2 Aiŋ																\$12,675		
N110 Corp. Am Corp. Am Corp. Am Corp. Am State State State	A11.2.2.1			2.1 ha	C.6.01		\$2,139.32				516								
N11.1.1 is gods is space sequence to own entry catalogues They C.2.13 G.2.13 G.2.14 G.2.14 G.2.13 G.2.14 G.2.14 <thg.2.14< th=""> <</thg.2.14<>		mp Area	Tree seedling application (1,000 stems/ha)	2.1 ha	C.6.06	109.0 \$1,789.95	\$3,808.47	\$9.02	\$19	\$15.00	33	\$31.92	\$460.50	\$979.81	\$2,274.47	\$4,839	\$106.867		
Alt13.1 Concerned on Series websites in the concerned on the c	A11.3.1.1	- 11															• • • • • • •		Slope between comp and main cosess read
All 3.2.3 Stype and cover manufact look, hundring datege set from a statege set for an advert look, hundring date grades Stype and cover manufact look, hundring datege set for a statege	A11.3.1.3		•	20,626 m2	C.2.16	0.0 \$0.03	\$699.92	\$0.06	\$1,137	\$0.02	367	\$351.87	\$0.00	\$0.00	\$0.11	\$2,189			Slope between camp and main access road
h11.2.2 Bigs and construction Special dots signer (1) model 5.13 Model 5.10 <		Cover																	
M11.3.2 The sample application (1,00 demohs) 3.0 ba C.000 5.0 ba 5.0 ba 6.0 ba 5.0 b	A11.3.2.3	Reveretate	Slope area cover material: Spread down slope			10.2 \$43.35	\$440.87		\$1,984	\$67.01	710	\$681.52	\$0.00			\$3,107			
A11.4.1 Perguade Plat areas: Reguade to form transmiss Dims C.2.0 9.0 9.3.3.5 \$17.00 \$17.00 \$0.00 \$30.0.6 \$30.7.6 \$30.7.6 A11.4.2.1 Coreer Core	A11.3.3.2	-	-							-							0 00 (00		
Alt1.4.1 Revengence Self-entitie: translass sensing 2.70 hs C.6.0 93.2 (1.6) 93.71 93.21.61 932.26.40 \$32.26.40 <td></td> <td>1</td> <td>Flat areas: Re-grade to form tertiary drainage catchments</td> <td>9 hrs</td> <td></td> <td>9.0 \$43.35</td> <td>\$390.90</td> <td>\$195.11</td> <td>\$1,759</td> <td>\$67.01</td> <td></td> <td>\$604.27</td> <td>\$0.00</td> <td>\$0.00</td> <td>\$305.46</td> <td>\$2,755</td> <td>\$66,100</td> <td></td> <td></td>		1	Flat areas: Re-grade to form tertiary drainage catchments	9 hrs		9.0 \$43.35	\$390.90	\$195.11	\$1,759	\$67.01		\$604.27	\$0.00	\$0.00	\$305.46	\$2,755	\$66,100		
Alt1-1.5 Constraints The seading application (10:00 starmshar) 3 ha C.6.0 13:2 </td <td></td>																			
A11.5.1.1 Rógaros Area Scampt surfaces 94.778 n.2 C. 6.16 0.0 9.0.03 9.1.18/1.3 9.0.00 9.0.01 9.0.01 9.0.11 9.0.02 9.0.11 9.0.02 9.0.11 9.0.02 9.0.11 9.0.02 9.0.11 9.0.02 9.0.11 9.0.02 9.0.11 9.0.02 9.0.11 9.0.02 9.0.11 9.0.02 9.0.11 9.0.02 9.0.11 9.0.02 9.0.11 9.0.02 9.0.11 9.0.02 9.0.11 9.0.02 9.0.11 9.0.02 9.0.11 9.0.02 9.0.11 9.0.02 9.0.11 9.0.02 9.0.01 <	A11.4.3.2		8														\$20.719		
A11.6.12 The seeding application (1,000 stems/ha) 3 ha C.C.00 17.2.2 17.78.05 58.22.60 98.02 53.1 55.00 64 52.2.17 5400.05 51.01.13 52.27.47 75.79.10 54.01.23 52.77.4 75.79.10 54.01.23 52.77.4 75.79.10 55.00	, A11.5.1.1																\$20,710		
A11.6.1 Explosives Flat rates: Regrade to ensure positive drainage 0 C 0 0 0 0 <td></td>																			
A116.12 Construction C2.13 0.0 \$33.35 \$30.00 \$195.11 \$00 \$00.00 \$00.00 \$00.00 \$30.05.46 \$00 A116.12 Construction Scarify surfaces				30 hrs	C.2.13	29.6 \$43.35	\$1,283.58	\$195.11	\$5.777	\$67.01	2.067	\$1,984.22	\$0.00			\$9.045	\$41,877		
A116.21 Revegetate SeedFerilize: troadcast seeding 5.5 ha C.6.01 192.6 \$1005.4 \$39.71 \$32.183 \$398.00 \$5.43.18 \$22.242 \$31.337 \$21.283.33 \$398.00 \$5.43.18 \$22.252 \$31.448 \$31.235 A11.7.2 Fue Storage Areas Fue rade Fue rade Fue rade Fue rade Fue rade \$12.435 \$398.00 \$5.0.0 \$5.0.0 \$30.00 \$30.2.42 \$30.00 \$30.5.46 \$31.757 \$22.24 \$31.257 \$22.24 \$30.00 \$30.00 \$30.5.46 \$31.757 \$22.24 \$30.00 \$30.00 \$30.5.46 \$31.757 \$22.24 \$30.00 \$30.00 \$30.5.46 \$31.757 \$22.24 \$30.00 \$30.00 \$30.24 \$10.757 \$22.24 \$30.00 \$30.00 \$30.245 \$31.757 \$22.24 \$30.00 \$30.00 \$30.24 \$31.757 \$22.24 \$30.00 \$30.00 \$30.24 \$31.757 \$22.24 \$30.00 \$30.00 \$30.24 \$30.00 \$30.24 \$30.24 \$30.24 \$30.24 \$30.86.0 \$20.274.77 \$31.731 \$31.731 \$31.731 \$30.8	A11.6.1.2		Re-grade slopes to be 3H:1V or flatter	0 hrs	C.2.13	0.0 \$43.35	\$0.00	\$195.11	\$0	\$67.01	0	\$0.00	\$0.00	\$0.00	\$305.46	\$0			
Air 7 Fuer Storage Areas Number of the second	A11.6.2.1	Revegetate	Seed/Fertilize: broadcast seeding	5.5 ha	C.6.01	182.6 \$1,005.46	\$5,541.44	\$397.11	\$2,189	\$232.94	1,337	\$1,283.83	\$986.00	\$5,434.18	\$2,621.52	\$14,448			
A11.7.1 Re-grade Filt areas: Re-grade to ensure positive drainage 5 ms C.2.13 4.5 \$43.35 \$195.13 \$195.15 \$202.42 \$0.00 \$0.00 \$305.46 \$13.79 \$195.55 \$11.72.14 \$100 m And, dung mys pread 0.5 m overhuden cover \$200 m 3 \$4.8 \$4.04 \$3.51.75 \$2.22 \$3.33 \$202.42 \$0.00 \$3.00		el Storage Areas	Tree seedling application (1,000 stems/ha)				\$9,865.02	\$9.02	\$50	\$15.00		\$82.67	\$460.50	\$2,537.97	\$2,274.47	\$12,535	\$22,246		
A11.7.1 Revegetate SeedFertilize: broadcast seeding 0.84 ha C.6.01 27.8 \$1,05.05 \$397.11 \$334 \$232.24 204 \$195.67 \$986.00 \$282.24 \$2,21.52 \$2,201 A11.7.2 If ce seeding application (1,000 stems/ha) 1 ha C.6.06 43.1 \$1,050.56 \$10.03 \$195.67 \$986.70 \$36.00 \$22,21.52 \$2,21.5	A11.7.1.1	Re-grade																	
A11.8 <i>IROD Laydown Area</i> Flat areas: Re-grade to ensure positive drainage 15 hrs C.2.13 14.8 \$43.35 \$639.60 \$195.11 \$2,879 \$67.01 0 \$0.00 \$305.46 \$4,507 A11.8.1.1 Re-grade slopes to be 3H:1V or flatter 10 hrs C.2.13 14.8 \$43.35 \$639.60 \$195.11 \$2,879 \$67.01 0 \$0.00 \$300.6 \$305.46 \$4,507 A11.8.1.3 Scarify surface 18,106 lm2 C.2.16 0.0 \$0.03 \$614.40 \$0.06 \$998.72 \$0.00 \$0.00 \$0.00 \$0.00 \$105.16 \$4,305 A11.8.2.1 Revegetate Seed/Fertilizer Tree seeding application (1,000 stems/ha) 2.33 ha C.6.06 119.2 \$1,779.95 \$4,162.18 \$9.02 \$21 \$15.00 36 \$34.88 \$400.50 \$2,027.5 \$2,621.57 \$2,621.47 \$5,686 \$1,070.40 \$1,070.40 \$1,070.40 \$1,070.40 \$1,070.40 \$1,070.40 \$1,070.40 \$1,070.40 \$1,070.40 \$1,070.40 \$1,070.40 \$1,070.40 \$1,070.40 \$1,070.40 \$1,070.40 \$1,070.40 <td>A11.7.3.1</td> <td></td> <td>Seed/Fertilize: broadcast seeding</td> <td>0.84 ha</td> <td>C.6.01</td> <td>27.8 \$1,005.46</td> <td>\$844.59</td> <td>\$397.11</td> <td>\$334</td> <td>\$232.94</td> <td>204</td> <td>\$195.67</td> <td>\$986.00</td> <td>\$828.24</td> <td>\$2,621.52</td> <td>\$2,202</td> <td></td> <td></td> <td></td>	A11.7.3.1		Seed/Fertilize: broadcast seeding	0.84 ha	C.6.01	27.8 \$1,005.46	\$844.59	\$397.11	\$334	\$232.94	204	\$195.67	\$986.00	\$828.24	\$2,621.52	\$2,202			
A11.8.1.1 Re-grade Flat areas: Re-grade to ensure positive drainage 15 hrs C.2.13 14.8 \$43.35 \$639.60 \$195.11 \$2,879 \$67.01 1,030 \$988.72 \$0.00 \$0.00 \$305.46 \$4,507 A11.8.1.2 Re-grade to ba 91:1V or flatter 0 hrs C.2.16 0.0 \$43.35 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.01 \$0.01 \$1.921 A11.8.1.3 Scarify surface Seed/Fertilize: broadcast seeding C.2.16 0.0 \$0.01 \$0.00 \$0.00 \$0.00 \$0.01 \$0.01 \$1.921 A11.8.2.1 Revegetate Seed/Fertilize: broadcast seeding C.6.01 77.0 \$1.006.46 \$2.338.00 \$397.11 \$9.02 \$22.44 \$564 \$541.67 \$986.00 \$2.292.75 \$2.62.15.2 \$5.086 \$4.118.1.2 \$4.118.21 Revegetate Seed/Fertilize: broadcast seeding C.6.06 119.2 \$1.708.95 \$2.292.76 \$2.292.76 \$2.297.65 \$2.621.52 \$5.006 \$2.338.00 \$30.11 \$4.199.12 \$1.010 \$1.010 \$1.010.40 \$2.297.65 \$2.127.47		DD Laydown Area	I ree seedling application (1,000 stems/ha)	1 ha	C.6.06	43.1 \$1,789.95	\$1,503.56	\$9.02	\$8	\$15.00	13	\$12.60	\$460.50	\$386.82	\$2,274.47	\$1,911	\$17,813		
A11.8.1.3 M Carify surface 18,106 m2 C.2.16 0.0 \$0.03 \$614.40 \$0.06 \$998 \$0.02 322 \$308.88 \$0.00 \$0.01 \$1,921 A11.8.2.1 Revegetate Seed/Fertilize: broadcast seeding application (1,000 stems/ha) 2.33 ha C.6.01 177.0 \$1,005.46 \$2,338.00 \$397.11 \$923 \$232.94 564 \$541.67 \$980.00 \$2,202.75 \$2,621.52 \$6,006 \$6,006 \$100.00 \$100.00 \$100.00 \$100.00 \$90.00 \$31.80 \$2,000		Re-grade									1,030 0								
A11.8.2.2 Tree seeding application (1,000 stems/ha) 2.33 ha C.6.06 119.2 \$1,789.95 \$4,162.18 \$9.02 \$212,326 \$1,000 \$1,070.80 \$2,274.47 \$5,289 \$122,326 A11.9 Mill Area Re-grade Flat areas: Re-grade to ensure positive drainage 60 hrs C.2.13 59.9 \$43.35 \$2,597.60 \$195.11 \$11.692 \$67.01 418 \$40.050 \$0.00 \$305.46 \$18,436 \$18,437.58 \$0.00 \$0.01 \$41.92.1 \$11.92.1 Re-grade Flat areas: Re-grade to ensure positive drainage 60 hrs C.2.16 50.00 \$19.51.1 \$11.692 \$67.01 47.83 \$40.050 \$0.00 \$305.46 \$18,436 \$18.437 \$1.02.1 \$10.00 \$10.01 \$10.01 \$10.02 \$10.01 \$10.82 \$2.294.73 \$5.000 \$0.00 \$305.46 \$18.436 \$10.01 \$10.01 \$10.02 \$10.01 \$10.82 \$2.274.73 \$0.00 \$0.01 \$10.01 \$10.02 \$10.01 \$10.83 \$10.02 \$10.01 \$10.02 \$10.01 \$10.01 \$10.02 \$10.01 \$10.05.46 <t< td=""><td>A11.8.1.3</td><td>Povogototo</td><td>Scarify surface</td><td>18,106 m2</td><td>C.2.16</td><td>0.0 \$0.03</td><td>\$614.40</td><td>\$0.06</td><td>\$998</td><td>\$0.02</td><td></td><td>\$308.88</td><td>\$0.00</td><td>\$0.00</td><td>\$0.11</td><td>\$1,921</td><td></td><td></td><td></td></t<>	A11.8.1.3	Povogototo	Scarify surface	18,106 m2	C.2.16	0.0 \$0.03	\$614.40	\$0.06	\$998	\$0.02		\$308.88	\$0.00	\$0.00	\$0.11	\$1,921			
A11.9.1.1 Re-grade Flat areas: Re-grade to ensure positive drainage 60 hrs C.2.13 59.9 \$43.35 \$2,597.60 \$11,692 \$67.01 4,183 \$4,015.50 \$0.00 \$305.46 \$18,805 A11.9.1.2 Cover Load, haul, dump spread 0.5 m overburden cover 42,365 m2 C.2.16 0.0 \$0.03 \$14,37.58 \$0.06 \$2,335 \$0.02 753 \$722.72 \$0.00 \$0.01 \$4,496 A11.9.2.1 Cover Load, haul, dump spread 0.5 m overburden cover 21,182 m3 R.049 384.7 \$0.78 \$16,545.32 \$2.08 \$44,120 \$0.86 18,873 \$18,118.30 \$0.00 \$3.72 \$78,784 A11.9.3.1 Revgetate Seed/Fretilize: broadcast seeding 4.24 A C.6.01 140.3 \$1,054.66 \$397.11 \$1,682 \$233.94 1,028 \$986.66 \$986.00 \$4,177.16 \$2,621.52 \$11,100 A11.0.2 Mill Valley Fill Extension (Stage 1 and 2) - - - - - - - - - - - - - -	A11.8.2.2	Revegetate																	
A11.9.1.2 Scarify surface 42,365 m2 C.2.16 0.0 \$0.03 \$1,437.58 \$0.06 \$2,335 \$72.72 \$0.00 \$0.11 \$4,496 A11.9.2.1 Cover Load, haul, dump spread 0.5 m overburden cover 21,182 m3 R.049 384.7 \$0.78 \$16,545.32 \$2.08 \$44,120 \$0.86 18,873 \$18,118.30 \$0.00 \$3.72 \$78,784 A11.9.3.1 Revegetate Seed/Fertilize: broadcast seeding 4.24 ha C.6.01 140.3 \$1,005.46 \$42,59.61 \$397.11 \$1,682 \$232.94 1,028 \$986.86 \$986.00 \$4,177.16 \$2,621.52 \$11,10.6 A11.0.1 Mill Valley Fill Extension (Stage 1 and 2) C.6.06 217.1 \$1,789.95 \$7,583.07 \$9.02 \$38 \$15.00 66 \$63.55 \$460.50 \$1,950.89 \$2,274.47 \$9,636 \$9,606 \$1,950.89 \$2,274.47 \$9,636 \$9,606 \$1,950.89 \$2,274.47 \$9,636 \$1,950.89 \$2,274.47 \$9,636 \$1,950.89 \$2,274.47 \$9,636 \$1,950.89 \$2,274.47 \$9,636 \$1,950.89 \$2,274.47			Flat areas: Re-grade to ensure positive drainage	60 hrs	C.2.13	59.9 \$43.35	\$2,597.60	\$195.11	\$11,692	\$67.01	4,183	\$4,015.50	\$0.00	\$0.00	\$305.46	\$18,305	\$122,326		
A11.9.3.1 Revegetate Seed/Fertilize: broadcast seeding 4.24 ha C.6.01 140.3 \$1,005.46 \$4,259.61 \$397.11 \$1,682 \$232.94 1,028 \$986.86 \$986.00 \$4,177.16 \$2,621.52 \$11,106 A11.9.3.2 Image: Tree seeding application (1,000 stems/ha) 6.6.06 217.1 \$1,789.95 \$7,583.07 \$9.02 \$38 \$15.00 66 \$465.55 \$460.50 \$1,950.89 \$2,274.47 \$9,636 \$9,636 \$9,600 \$1,950.89 \$2,274.47 \$9,636 \$9,636 \$9,600 \$1,950.89 \$2,274.47 \$9,636 \$9,636 \$9,600 \$1,950.89 \$2,274.47 \$9,636 \$9,600 \$1,950.89 \$2,274.47 \$9,636 \$9,600 \$1,950.89 \$2,274.47 \$9,636 \$9,600 \$1,950.89 \$2,274.47 \$9,636 \$9,600 \$1,950.89 \$2,274.47 \$9,600 \$1,000	A11.9.1.2	_	Scarify surface	42,365 m2	C.2.16	0.0 \$0.03	\$1,437.58	\$0.06	\$2,335	\$0.02	753	\$722.72	\$0.00	\$0.00	\$0.11	\$4,496			
A11.10 Mill Valley Fill Extension (Stage 1 and 2) \$0 A11.10.1 Costs included in Waste Rock Dump Section (WBS#: A1.5) - hrs	A11.9.3.1		Seed/Fertilize: broadcast seeding	4.24 ha	C.6.01	140.3 \$1,005.46	\$4,259.61	\$397.11	\$1,682	\$232.94	1,028	\$986.86	\$986.00	\$4,177.16	\$2,621.52	\$11,106			
	A11.10 Mil		1 and 2)	4.24 ha	0.6.06	217.1 \$1,789.95	\$7,583.07	\$9.02	\$38	\$15.00	66	\$63.55	\$460.50	\$1,950.89	\$2,274.47	\$9,636	\$0		
A11.11 Minto South Portal \$85,111			ock Dump Section (WBS#: A1.5)	- hrs													\$85.111		
A11.11.1.1 Re-grade to ensure positive drainage 51 hrs C.2.13 51.5 \$43.35 \$2,231.14 \$195.11 \$10,042 \$67.01 3,593 \$3,449.00 \$0.00 \$305.46 \$15,723	A11.11.1.1																400,111		
A11.11.2 Re-grade slopes to be 3H:1V or flatter 28 hrs C.2.13 28.0 \$43.35 \$1,215.40 \$195.11 \$67.01 1,957 \$1,878.82 \$0.00 \$305.46 \$8,565 A11.11.3 Scarify surface 62,765 m2 C.2.16 0.0 \$0.00 \$3,460 \$0.00 \$1,015 \$1,070.73 \$0.00 \$0.10 \$6,661																			

				· · · · ·			Labour		Ec	uipment		Fuel		Mat	terial	Acti	vity Totals	Subto	tals	
WBS	Facili Task	Activity	Ontre	Unito	Cost Code	Total Mhrs	Unit Rate	Cost	Unit Data	Cost	Unit Data	Consumed	Cost	Unit Data	Cost	Unit Rate	Cost	WBS Level 2	WBS Level 1	Source / Comments
A11.11.2.1	Revegetate	Seed/Fertilize: broadcast seeding	11.1		C.6.01	366.5	\$1,005.46	Cost \$11,123.13	Unit Rate \$397.11	\$4,393	\$232.94	(L) 2,684	\$2,576.99		\$10,907.83	\$2,621.52	\$29,001	WBS Level 2	WBS Level 1	Source / Comments
	Pelly Laydown Area	Tree seedling application (1,000 stems/ha)	11.1		0.6.06		\$1,789.95	\$19,801.68		\$100	\$15.00	173	\$165.94	\$460.50	\$5,094.38		\$25,162	\$137,020		
A11.12.1.1 A11.12.2.1	Re-grade Cover	Flat areas: Re-grade to form tertiary drainage catchments Load, haul, dump spread 0.5 m overburden cover	107 25,855	5 m3 F	C.2.13 R.052	107.4 380.7		\$4,655.75 \$16,386.19	\$195.11 \$1.73	\$20,956 \$44,667	\$67.01 \$0.69	7,497 18,585	\$7,197.08 \$17,841.31	\$0.00 \$0.00	\$0.00 \$0.00	\$305.46 \$3.05	\$32,808 \$78,894			
A11.12.3.1 A11.12.3.2	Revegetate	Seed/Fertilize: broadcast seeding Tree seedling application (1,000 stems/ha)	5.17 5.17		C.6.01 C.6.06		\$1,005.46 \$1,789.95	\$5,199.24 \$9,255.83	\$397.11 \$9.02	\$2,053 \$47	\$232.94 \$15.00	1,255 81	\$1,204.55 \$77.57	\$986.00 \$460.50	\$5,098.61 \$2,381.25		\$13,556 \$11,761			
1 1	W15 Sump Area Laydown Re-grade	Flat areas: Re-grade to ensure positive drainage			0.2.13	8.8		\$380.98	\$195.11	\$1,715	\$67.01	613	\$588.94	\$0.00	\$0.00	\$305.46	\$2,685	\$32,883		
A11.13.1.2	ite-glade	Slopes: Re-grade to 3H:1V	1	hrs (C.2.13	1.2	\$43.35	\$53.86	\$195.11	\$242	\$67.01	87	\$83.26	\$0.00	\$0.00	\$305.46	\$380			
A11.13.1.3 A11.13.2.1	Cover	Scarify surface Load, haul, dump spread 0.5 m overburden cover	9,484 6,974	1 m3 F	C.2.16 R.056	0.0 106.1	\$0.65	\$321.81 \$4,565.96	\$0.06 \$1.78	\$523 \$12,446	\$0.02 \$0.71	169 5,179	\$161.79 \$4,971.43	\$0.00 \$0.00	\$0.00 \$0.00	\$0.11 \$3.15	\$1,006 \$21,984			
A11.13.3.1 A11.13.3.2	Revegetate	Seed/Fertilize: broadcast seeding Tree seedling application (1,000 stems/ha)	1.39 1.39		C.6.01 C.6.06		\$1,005.46 \$1,789.95	\$1,402.44 \$2,496.66	\$397.11 \$9.02	\$554 \$13	\$232.94 \$15.00	338 22	\$324.92 \$20.92	\$986.00 \$460.50	\$1,375.30 \$642.32		\$3,657 \$3,172			
A12 A12.1	Waste Disposal																	\$61,130	\$502,536	
A12.1.1.1	Excavate HC contaminated	Complete testing for contaminated soils		test pits		18.5		\$804.34	\$3.49	\$129	\$2.92	112	\$107.89	\$200.00	\$7,400.00	\$228.14	\$8,441	φ01,130		
A12.1.1.2 A12.1.2.1	Construct landfarm	Excavate and haul contaminated soils to on-site landfarm facility Existing Facility assumed to have sufficient capacity		1 m3 F) m3	R.034	19.9	\$1.54	\$853.07	\$2.67	\$1,478	\$0.96	552	\$529.72	\$0.00	\$0.00	\$5.16	\$2,861 \$0			
A12.1.3.1 A12.1.3.2	Operate landfarm	Aerate contaminated soils (mix) Annual confirmation sampling			C.3.04 C.3.05	270.0 48.0		\$11,719.01 \$2,086.95	\$931.77 \$111.61	\$11,181 \$335	\$333.60 \$93.31	4,170 292	\$4,003.20 \$279.94		\$0.00 \$3,600.00		\$26,903 \$6,302			
A12.1.4.1 A12.1.4.2	Close landfarm	Remove soils and collect liner Cut/fold liner and place into waste disposal container		1 m3 F	R.001 C.1.15	17.5 49.6	\$1.36	\$751.29 \$1,807.96	\$2.70 \$0.20	\$1,497 \$837	\$0.90 \$0.07	519 308	\$498.21 \$295.29	\$0.00 \$0.00	\$0.00 \$0.00	\$4.96 \$0.69	\$2,747 \$2,940			
A12.1.4.3		Regrade area	4,265	5 m2 0	C.2.11	42.7	\$0.43	\$1,848.75	\$1.29	\$5,494	\$0.35	1,567	\$1,504.69	\$0.00	\$0.00	\$2.07	\$8,848			
A12.1.4.4 A12.1.4.5		Revegetation: Seed/Fertilizer: broadcast seeding Tree seedling application (1,000 stems/ha)	0.43 0.43		C.6.01 C.6.06		\$1,005.46 \$1,789.95	\$428.83 \$763.41	\$397.11 \$9.02	\$169 \$4	\$232.94 \$15.00	103 7	\$99.35 \$6.40	\$986.00 \$460.50	\$420.53 \$196.40		\$1,118 \$970			
A12.2 A12.2.1.1	Metal contaminated soils Crusher area	Delineate contaminated soil areas	197	test pits	0.3.01	98.5	\$21.74	\$4,282.59	\$3.49	\$687	\$2.92	598	\$574.45	\$260.00	\$51,220.00	\$288.14	\$56,764	\$154,581		
A12.2.1.2 A12.2.1.3		Load, haul, dump contaminated soils to underground Complete confirmation testing	2,949	9 m 3 . F	R.035 C.3.02	102.1 32.8	\$1.49	\$4,394.19 \$1,431.83	\$2.97 \$1.25	\$8,759 \$246	\$0.99 \$0.00	3,035	\$2,913.97 \$0.00	\$0.00 \$13.00	\$0.00 \$2,561.00	\$5.45 \$21.52	\$16,067 \$4,239			
A11.2.2.1	Mill area	Delineate contaminated soil areas	198	B test pits	0.3.01	99.0	\$21.74	\$4,304.33	\$3.49	\$691	\$2.92	601	\$577.37	\$260.00	\$51,480.00	\$288.14	\$57,052			
A11.2.2.2 A11.2.2.3		Load, haul, dump contaminated soils to underground Complete confirmation testing	2,973 198		R.035 D.3.02	103.0 33.0		\$4,430.17 \$1,439.10	\$2.97 \$1.25	\$8,830 \$248	\$0.99 \$0.00	3,060 0	\$2,937.83 \$0.00	\$0.00 \$13.00	\$0.00 \$2,574.00	\$5.45 \$21.52	\$16,198 \$4,261			
A12.3 A12.3.1.1	Solid Waste Landfill Construction landfill	Place waste from site facilities	12,920		0.2.07	550.6	\$1.85	\$23,867.81	\$8.31	\$107,430	\$2.86	38,433	\$36,895.99	\$0.00	\$0.00	\$13.02	\$168,193	\$213,770		
A12.3.1.2 A12.3.2.1	Close landfill	Place fill to minimize voids in the debris Soil Cover: Load haul, dump spread, compact (0.6m)	3,371 5,024	lm3 F	R.001 R.002	106.2 190.0	\$1.36	\$4,569.99 \$7,911.01	\$2.70 \$2.89	\$9,109 \$14,536	\$0.90 \$0.99	3,157 5,196	\$3,030.55 \$4,988.33	\$0.00 \$0.00	\$0.00 \$0.00	\$4.96 \$5.46	\$16,710 \$27,436			
A12.3.2.2		Revegetation: Seed/Fertilizer: broadcast seeding	0.55		C.6.01		\$1,005.46	\$548.93	\$2.69 \$397.11	\$14,536 \$217	\$0.99 \$232.94	132	\$4,988.33 \$127.18	\$986.00	\$538.31	\$5.46 \$2,621.52	\$27,430			
A12.4 A12.4.1.1	Hazardous Material Off-Site Disp Hazardous Waste	oosal From Building Demo: Transport off-site for disposal	2	2 trip 0	C.7.04	14.5	\$343.01	\$620.06	\$309.18	\$559	\$113.33	213	\$204.86	\$0.00	\$0.00	\$765.52	\$1,384	\$73,055		
A12.4.1.2 A12.4.2.1	Reagents	Hazardous materials: Disposal and Tipping fees. Reagents: Transport to Whitehorse			n/a 0.1.22	0.0 99.3		\$0.00 \$3,863.74	\$0.00 \$97.38	\$0 \$2,418	\$0.00 \$26.93	0 697	\$0.00 \$668.71	\$0.00 \$0.00	\$0.00 \$0.00	\$63,000 \$279.90	\$63,000 \$6,951			
A12.4.2.2		Reagents: Disposal and tipping fees			C.7.04	18.0		\$771.00	\$309.18	\$695	\$113.33	265	\$254.73	\$0.00	\$0.00	\$765.52	\$1,721		\$0.074.0F0	
A13.1	Surface Water Conveyance W-15 to Main Pit (Ditch A3)																	\$167,817	\$2,071,653	
A13.1.1.1 A13.1.2.1	Excavate channel Place channel materials	Load, haul, dump locally Bedding layer: Screen and stockpile	40,300 1,872		R.902 C.2.01	700.5 38.1	\$0.75 \$0.94	\$30,364.10 \$1,751.95	\$1.41 \$2.08	\$56,839 \$3,898	\$0.46 \$0.44	19,351 860	\$18,576.93 \$825.55	\$0.00 \$0.00	\$0.00 \$0.00	\$2.62 \$3.46	\$105,780 \$6,475			
A13.1.2.2 A13.1.2.3		Bedding layer: Load, haul, dump and place Rip-rap (angular, high guality): Screen and stockpile	1,872 2,700	2 m3 F	R.016 C.2.15	69.6 0.0	\$1.60	\$2,996.40 \$6,689.06	\$3.45 \$6.09	\$6,464 \$16,447	\$1.10 \$1.86	2,149 5,227	\$2,062.79 \$5,018.29	\$0.00 \$0.00	\$0.00 \$0.00	\$6.15 \$10.43	\$11,523 \$28,155			
A13.1.2.4		Rip-rap: Load, haul, dump	2,700) m3 F	R.015	71.6	\$1.14	\$3,079.56	\$2.27	\$6,138	\$0.76	2,127	\$2,042.18	\$0.00	\$0.00	\$4.17	\$11,260			
A13.1.2.5 A13.2	W-35 to Area 2 Pit (Ditch B)	Rip-rap: Place and secure	2,700) m3 F	R.904	29.4	\$0.47	\$1,272.97	\$0.92	\$2,477	\$0.32	910	\$873.96	\$0.00	\$0.00	\$1.71	\$4,624	\$89,892		
A13.2.1.1 A13.2.2.1	Excavate channel Place channel materials	Load, haul, dump locally Surface preparation: remove sharp objects, place fill as required	3,800 2,616		R.902 C.2.18	66.1 89.4	\$0.75 \$1.28	\$2,863.23 \$3,345.38	\$1.41 \$0.00	\$5,360 \$0	\$0.46 \$0.00	1,825 0	\$1,751.74 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$2.62 \$1.28	\$9,975 \$3,345			
A13.2.2.2		BGM Liner: Supply and install	2,616	6 m2 🛛 🗘	C.5.01	124.0	\$1.88	\$4,930.27	\$0.80	\$2,091	\$0.28	769	\$737.84	\$17.86	\$46,705.04	\$20.82	\$54,464			
A13.2.2.3 A13.2.2.4		Bedding layer: Screen and stockpile Bedding layer: Load, haul, dump and place	646	6 m3 F	C.2.01 R.018	13.1 27.3	\$1.82	\$604.56 \$1,176.49	\$2.08 \$3.93		\$0.44 \$1.25	297 844	\$284.88 \$809.92	\$0.00 \$0.00	\$0.00 \$0.00	\$3.46 \$7.00	\$2,235 \$4,524			
A13.2.2.5 A13.2.2.6		Rip-rap (angular, high quality): Screen and stockpile Rip-rap: Load, haul, dump	912 912		C.2.15 R.017	0.0 27.2		\$2,258.42 \$1,170.96			\$1.86 \$0.85	1,765 809	\$1,694.32 \$776.51	\$0.00 \$0.00	\$0.00 \$0.00	\$10.43 \$4.70	\$9,506 \$4,281			
A13.2.2.7 A13.3	Main Pit to Main Access Road ([Rip-rap: Place and secure	912	2 m3 F	R.904	9.9	\$0.47	\$429.79			\$0.32	307	\$295.07	\$0.00	\$0.00		\$1,561	\$165,579		
A13.3.2.1 A13.3.3.1	Excavate channel Intake structure	Load, haul, dump locally	16,900 2,450		R.902 R.902	293.8 42.6		\$12,733.33 \$1,845.76	\$1.41 \$1.41	\$23,836 \$3,455	\$0.46 \$0.46	8,115 1,176	\$7,790.32 \$1,129.25	\$0.00 \$0.00	\$0.00 \$0.00	\$2.62 \$2.62	\$44,359 \$6,430	¢.30,010		
A13.3.3.2	IIIIane Siluciule	Excavate soils to competent foundation materials Supply an install precast-concrete intake wingwall intake structure	1	l Is C	C.5.12	140.0	\$5,808	\$5,807.91	\$3,658	\$3,658	\$643.84	671	\$643.84	\$30,763	\$30,762.50	\$40,872	\$40,872			
A13.3.3.3 A13.3.4.1	Place channel materials	Backfill and compact around structure Bedding layer: Screen and stockpile	2,450 1,573	3 m3 0	C.2.04 C.2.01	237.3 32.0		\$6,175.91 \$1,471.64	\$3.03 \$2.08	\$7,422 \$3,274	\$1.03 \$0.44	2,638 722	\$2,532.57 \$693.46	\$0.00 \$0.00	\$0.00 \$0.00	\$6.58 \$3.46	\$16,131 \$5,439			
A13.3.4.2 A13.3.4.3		Bedding layer: Load, haul, dump and place Rip-rap (angular, high quality): Screen and stockpile	1,573 2,268		R.020 C.2.15	77.3 0.0		\$3,327.39 \$5,618.81	\$4.42 \$6.09	\$6,952 \$13,816	\$1.43 \$1.86	2,345 4,391	\$2,250.91 \$4,215.36	\$0.00 \$0.00	\$0.00 \$0.00	\$7.97 \$10.43	\$12,530 \$23,650			
A13.3.4.4		Rip-rap: Load, haul, dump	2,268	3 m3 F	R.019	79.5	\$1.51	\$3,417.24	\$2.92	\$6,633	\$0.98	2,326	\$2,232.77	\$0.00	\$0.00	\$5.41	\$12,283			
A13.3.4.5 A13.4	Area 2 Pit to Main Pit Channel (L	Rip-rap: Place and secure Ditch D-1)	2,268	3 m3 F	R.904	24.7	\$0.47	\$1,069.30	\$0.92	\$2,081	\$0.32	765	\$734.13	\$0.00	\$0.00	\$1.71	\$3,884	\$146,234		
A13.4.1.1 A13.4.2.1	Excavate channel Intake structure	Load, haul, dump locally Excavate soils to competent foundation materials	7,200 4,453		R.902 R.902	125.1 77.4		\$5,424.85 \$3,354.94	\$1.41 \$1.41	\$10,155 \$6,280	\$0.46 \$0.46	3,457 2,138	\$3,318.95 \$2,052.57	\$0.00 \$0.00	\$0.00 \$0.00	\$2.62 \$2.62	\$18,899 \$11,688			
A13.4.2.2		Supply an install precast-concrete intake wingwall intake structure		l Is C	C.5.12	140.0 431.4	\$5,808	\$5,807.91	\$3,658 \$3.03	\$3,658	\$643.84	671	\$643.84 \$4,603.31	\$30,763 \$0.00	\$30,762.50 \$0.00		\$40,872			
A13.4.2.6 A13.4.3.1	Place channel materials	Backfill and compact around structure Bedding layer: Screen and stockpile	1,309	9 m3 (C.2.04 C.2.01	26.6	\$0.94	\$11,225.62 \$1,224.30	\$2.08	\$13,491 \$2,724	\$1.03 \$0.44	4,795 601	\$576.91	\$0.00	\$0.00	\$3.46	\$29,320 \$4,525			
A13.4.3.2 A13.4.3.3		Bedding layer: Load, haul, dump and place Rip-rap (angular, high quality): Screen and stockpile	1,309 1,887		R.018 C.2.15	55.3 0.0		\$2,382.52 \$4,674.47	\$3.93 \$6.09	\$5,140 \$11,494	\$1.25 \$1.86	1,709 3,653	\$1,640.18 \$3,506.90	\$0.00 \$0.00	\$0.00 \$0.00	\$7.00 \$10.43	\$9,163 \$19,675			
A13.4.3.4 A13.4.3.5		Rip-rap: Load, haul, dump Rip-rap: Place and secure	1,887 1,887		R.017 R.904	56.3 20.5		\$2,423.65 \$889.58	\$2.56 \$0.92	\$4,831 \$1,731	\$0.85 \$0.32	1,674 636	\$1,607.22 \$610.74	\$0.00 \$0.00	\$0.00 \$0.00	\$4.70 \$1.71	\$8,862 \$3,231			
A13.5	Main Access Road to confluence	e with TDD																\$234,152		
A13.5.1.1 A13.5.2.1	Excavate channel Place channel materials	Load, haul, dump locally Bedding layer: Screen and stockpile	25,896 4,141	l m3 (R.902 C.2.01	450.1 84.2	\$0.94	\$19,511.23 \$3,874.90			\$0.46 \$0.44	12,434 1,902	\$11,937.08 \$1,825.92	\$0.00 \$0.00	\$0.00 \$0.00	\$3.46	\$67,971 \$14,322			
A13.5.2.2 A13.5.2.3		Bedding layer: Load, haul, dump and place Rip-rap (angular, high quality): Screen and stockpile	4,141 5,973		R.022 C.2.15	220.4 0.0		\$9,481.55 \$14,794.63		\$19,326 \$36,378	\$1.53 \$1.86	6,593 11,562	\$6,328.98 \$11,099.27	\$0.00 \$0.00	\$0.00 \$0.00	\$8.48 \$10.43	\$35,137 \$62,272			
A13.5.2.4		Rip-rap: Load, haul, dump	5,973	3 m3 F	R.021 R.904	245.7	\$1.77	\$10,562.39	\$3.43	\$20,502	\$1.16	7,189	\$6,901.30	\$0.00	\$0.00	\$6.36	\$37,966			
A13.5.2.5	I	Rip-rap: Place and secure	5,973	oluna	1.904	65.0	\$0.47	\$2,815.52	\$0.92	\$5,479	\$0.32	2,014	\$1,933.00	\$0.00	\$0.00	\$1.71	\$10,227	I I	I	

	-				Labour		Equip	oment		Fuel		Mat	erial	Activi	ty Totals	Subto	tals	1
BS Fac	ili Task	Activity	Qnty Units	Cost Code	Total Mhrs Unit Rate	Cost	Jnit Rate	Cost	Unit Rate	Consumed (L)	Cost I	Jnit Rate	Cost l	Jnit Rate	Cost	WBS Level 2	WBS Level 1	Source / Comments
5.3.1 5.3.2		Excavate basin (spoil locally) Geotextile: Supply and place	645 m3 540 m2	R.902 C.5.07	11.2 \$0.75 7.7 \$0.53	\$486.20 \$288.66	\$1.41 \$0.07	\$910 \$36	\$0.46 \$0.06	310 31	\$297.46 \$29.86	\$0.00 \$2.12	\$0.00 \$1,142.80	\$2.62 \$2.77	\$1,694 \$1,497			
5.3.3		Bedding layer: Screen and stockpile	131 m3	C.2.01	2.7 \$0.94	\$122.14	\$2.08	\$272	\$0.44	60	\$57.55	\$0.00	\$0.00	\$3.46	\$451			
5.3.4 5.3.5		Bedding layer: Load, haul, dump and place Rip-rap (at inlet and outlet): Screen and stockpile	131 m3 75 m3	R.024 C.2.15	7.7 \$2.53 0.0 \$2.48	\$329.77 \$185.77	\$5.15 \$6.09	\$672 \$457	\$1.69 \$1.86	229 145	\$220.12 \$139.37	\$0.00 \$0.00	\$0.00 \$0.00	\$9.36 \$10.43	\$1,222 \$782			
5.3.6 5.3.7		Rip-rap (at inlet and outlet): Load, haul, dump	75 m3 75 m3	R.023 R.904	3.2 \$1.81	\$135.89	\$3.45 \$0.92	\$259 \$69	\$1.17 \$0.22	91 25	\$87.84 \$24.27	\$0.00 \$0.00	\$0.00	\$6.43 \$1.71	\$482 \$128			
	to Creek Wetland By-Pass Cl	Rip-rap (at inlet and outlet): Place and secure hannel	75 m3	R.904	0.8 \$0.47	\$35.35	φ0.92	Ф ОА	\$0.32	20	φ 24. 27	\$0.00	\$0.00	\$1.71	\$128	\$202,344		
6.1.1 6.2.1	Excavate channel Place channel materials	Load, haul, dump locally Geotextile: Supply and place	19,986 m3 12,402 m2	R.902 C.5.08	347.4 \$0.75 352.7 \$1.07	\$15,058.23 \$13,257.86	\$1.41 \$0.13	\$28,188 \$1,640	\$0.46 \$0.11	9,597 1,428	\$9,212.71 \$1,371.19	\$0.00 \$2.12	\$0.00 \$26,243.29	\$2.62 \$3.43	\$52,458 \$42,512			
6.2.2		Bedding layer: Screen and stockpile	3,161 m3	C.2.01	64.3 \$0.94	\$2,957.64	\$2.08	\$6,580	\$0.44	1,452	\$1,393.69	\$0.00	\$0.00	\$3.46	\$10,932			
6.2.3 6.2.4		Bedding layer: Load, haul, dump and place Rip-rap (angular, high quality): Screen and stockpile	3,161 m3 4,725 m3	R.001 C.2.15	99.6 \$1.36 0.0 \$2.48	\$4,286.02 \$11,702.71	\$2.70 \$6.09	\$8,543 \$28,775	\$0.90 \$1.86	2,961 9,145	\$2,842.24 \$8,779.64	\$0.00 \$0.00	\$0.00 \$0.00	\$4.96 \$10.43	\$15,671 \$49,258			Assumes WSP fill can be re-used
6.2.5		Rip-rap: Load, haul, dump	4,725 m3	R.001	148.9 \$1.36	\$6,405.95	\$2.70	\$12,768	\$0.90	4,425	\$4,248.05	\$0.00	\$0.00	\$4.96	\$23,422			Assumes WSP rip-rap can be re-used
6.2.6 7 Sec	condary Catchment Channels	Rip-rap: Place and secure	4,725 m3	R.904	51.4 \$0.47	\$2,227.10	\$0.92	\$4,334	\$0.32	1,593	\$1,529.02	\$0.00	\$0.00	\$1.71	\$8,090	\$717,240		
7.1.1 7.1.2	Southwest Dump	Excavate mild-graded channels (good access), spoil locally Excavate steep-graded channels (poor access), spoil locally	10,787 Bm3 6,640 Bm3	R.902 R.903	187.5 \$0.75 131.0 \$0.86	\$8,127.66 \$5,679.08	\$1.41 \$1.60	\$15,214 \$10,631	\$0.46 \$0.52	5,180 3,619	\$4,972.55 \$3.474.49	\$0.00 \$0.00	\$0.00 \$0.00	\$2.62 \$2.98	\$28,314 \$19,784			
.1.3		Geotextile: Supply and place	25,206 m2	C.5.07	358.4 \$0.53	\$13,472.20	\$0.07	\$1,667	\$0.06	1,451	\$3,474.49 \$1,393.36	\$2.12	\$53,335.12	\$2.77	\$69,867			
7.1.4 7.1.5		Bedding layer: Screen and stockpile Bedding layer: Load, haul, dump and place in steep areas	2,054 Cm3 2,054 Cm3	C.2.01 R.028	41.8 \$0.94 72.2 \$1.51	\$1,922.03 \$3,102.18	\$2.08 \$2.93	\$4,276 \$6,021	\$0.44 \$0.99	943 2,111	\$905.70 \$2,026.92	\$0.00 \$0.00	\$0.00 \$0.00	\$3.46 \$5.43	\$7,104 \$11,151			
.1.6		Rip-rap (angular, high quality): Screen and stockpile	6,806 Cm3	C.2.15	0.0 \$2.48	\$16,859.25	\$6.09	\$41,455	\$1.86	13,175	\$12,648.20	\$0.00	\$0.00	\$10.43	\$70,962			
.1.7 .1.8		Rip-rap: Load, haul, dump Rip-rap: Place in mild-graded channels (good access)	6,806 m3 3,787 m3	R.027 R.904	223.5 \$1.41 41.2 \$0.47	\$9,616.00 \$1,785.25	\$2.82 \$0.92	\$19,167 \$3,474	\$0.94 \$0.32	6,642 1,277	\$6,376.76 \$1,225.66	\$0.00 \$0.00	\$0.00 \$0.00	\$5.17 \$1.71	\$35,159 \$6,485			
.1.9		Rip-rap: Place in steep-graded channels (poor access)	3,019 m3	R.905	74.5 \$1.07	\$3,231.01	\$2.00	\$6,048	\$0.65	2,059	\$1,976.75	\$0.00	\$0.00	\$3.73	\$11,256			
7.2.1 7.2.2	Main Waste Dump	Excavate mild-graded channels (good access), spoil locally Excavate steep-graded channels (poor access), spoil locally	6,477 Bm3 3,986 Bm3	R.902 R.903	112.6 \$0.75 78.6 \$0.86	\$4,879.85 \$3,408.84	\$1.41 \$1.60	\$9,135 \$6,381	\$0.46 \$0.52	3,110 2,172	\$2,985.52 \$2,085.55	\$0.00 \$0.00	\$0.00 \$0.00	\$2.62 \$2.98	\$17,000 \$11,875			
.2.3		Geotextile: Supply and place	15,132 m2	C.5.07	215.1 \$0.53	\$8,087.98	\$0.07	\$1,000	\$0.06	871	\$836.50	\$2.12	\$32,019.54	\$2.77	\$41,945			
7.2.4 7.2.5		Bedding layer: Screen and stockpile Bedding layer: Load, haul, dump and place in steep areas	1,233 Cm3 1,233 Cm3	C.2.01 R.026	25.1 \$0.94 34.8 \$1.22	\$1,153.69 \$1,499.66	\$2.08 \$2.52	\$2,567 \$3,106	\$0.44 \$0.82	566 1,059	\$543.64 \$1,016.39	\$0.00 \$0.00	\$0.00 \$0.00	\$3.46 \$4.56	\$4,264 \$5,622			
.2.6		Rip-rap (angular, high quality): Screen and stockpile	4,086 Cm3	C.2.15	0.0 \$2.48	\$10,121.14	\$6.09	\$24,887	\$1.86	7,909	\$7,593.11	\$0.00	\$0.00	\$10.43	\$42,601			
7.2.7 7.2.8		Rip-rap: Load, haul, dump Rip-rap: Place in mild-graded channels (good access)	4,086 m3 2,274 m3	R.025 R.904	101.4 \$1.07 24.7 \$0.47	\$4,368.25 \$1,071.86	\$2.21 \$0.92	\$9,048 \$2,086	\$0.72 \$0.32	3,084 767	\$2,960.56 \$735.89	\$0.00 \$0.00	\$0.00 \$0.00	\$4.01 \$1.71	\$16,377 \$3,894			
7.2.9		Rip-rap: Place in steep-graded channels (poor access)	1,812 m3	R.905	44.7 \$1.07	\$1,939.40	\$2.00	\$3,630	\$0.65	1,236	\$1,186.53	\$0.00	\$0.00	\$3.73	\$6,756			
.3.1 .3.2	Reclamation Overburden D	Excavate mild-graded channels (good access), spoil locally Excavate steep-graded channels (poor access), spoil locally	4,886 Bm3 3,007 Bm3	R.902 R.903	84.9 \$0.75 59.3 \$0.86	\$3,681.50 \$2,571.73	\$1.41 \$1.60	\$6,891 \$4,814	\$0.46 \$0.52	2,346 1,639	\$2,252.36 \$1,573.40	\$0.00 \$0.00	\$0.00 \$0.00	\$2.62 \$2.98	\$12,825 \$8,959			
.3.3		Geotextile: Supply and place	11,416 m2	C.5.07	162.3 \$0.53	\$6,101.82	\$0.07	\$755	\$0.06	657	\$631.08	\$2.12	\$24,156.52	\$2.77	\$31,644			
.3.4 .3.5		Bedding layer: Screen and stockpile Bedding layer: Load, haul, dump and place in steep areas	930 Cm3 930 Cm3	C.2.01 R.030	18.9 \$0.94 34.7 \$1.60	\$870.38 \$1,491.64	\$2.08 \$3.20	\$1,936 \$2,973	\$0.44 \$1.06	427 1,030	\$410.14 \$989.17	\$0.00 \$0.00	\$0.00 \$0.00	\$3.46 \$5.86	\$3,217 \$5,454			
7.3.6		Rip-rap (angular, high quality): Screen and stockpile	3,083 Cm3	C.2.15	0.0 \$2.48	\$7,635.69	\$6.09	\$18,775	\$1.86	5,967	\$5,728.47	\$0.00	\$0.00	\$10.43	\$32,139			
7.3.7 7.3.8		Rip-rap: Load, haul, dump Rip-rap: Place in mild-graded channels (good access)	3,083 m3 1,715 m3	R.029 R.904	97.0 \$1.35 18.7 \$0.47	\$4,171.85 \$808.64	\$2.70 \$0.92	\$8,315 \$1,574	\$0.90 \$0.32	2,882 578	\$2,766.52 \$555.18	\$0.00 \$0.00	\$0.00 \$0.00	\$4.95 \$1.71	\$15,254 \$2,937			
.3.9 .4.1	DSTSF & MVFE	Rip-rap: Place in steep-graded channels (poor access)	1,367 m3 7,378 Bm3	R.905 R.902	33.8 \$1.07 128.3 \$0.75	\$1,463.14 \$5,559.32	\$2.00 \$1.41	\$2,739 \$10,406	\$0.65 \$0.46	932 3,543	\$895.16 \$3,401.22	\$0.00 \$0.00	\$0.00 \$0.00	\$3.73 \$2.62	\$5,097 \$19,367			
.4.1	DSTSF & MVFE	Excavate mild-graded channels (good access), spoil locally Excavate steep-graded channels (poor access), spoil locally	4,541 Bm3	R.902 R.903	89.6 \$0.86	\$3,883.49	\$1.41 \$1.60	\$10,406 \$7,270	\$0.46 \$0.52	3,543 2,475	\$3,401.22 \$2,375.94	\$0.00 \$0.00	\$0.00 \$0.00	\$2.62 \$2.98	\$13,529			
.4.3 .4.4		Geotextile: Supply and place	17,239 m2 1,405 Cm3	C.5.07 C.2.01	245.1 \$0.53 28.6 \$0.94	\$9,214.16 \$1,314.33	\$0.07 \$2.08	\$1,140	\$0.06	993 645	\$952.97 \$619.34	\$2.12 \$0.00	\$36,477.96 \$0.00	\$2.77 \$3.46	\$47,785 \$4,858			
4.4 4.5		Bedding layer: Screen and stockpile Bedding layer: Load, haul, dump and place in steep areas	1,405 Cm3	R.024	82.5 \$2.53	\$3,548.72	\$2.08 \$5.15	\$2,924 \$7,233	\$0.44 \$1.69	2,467	\$019.34 \$2,368.79	\$0.00 \$0.00	\$0.00 \$0.00	\$3.46 \$9.36	\$4,858 \$13,151			
.4.6 .4.7		Rip-rap (angular, high quality): Screen and stockpile	4,655 Cm3 4,655 m3	C.2.15 R.023	0.0 \$2.48 196.3 \$1.81	\$11,530.41 \$8,434.03	\$6.09 \$3.45	\$28,352 \$16,056	\$1.86	9,011 5,679	\$8,650.38	\$0.00 \$0.00	\$0.00 \$0.00	\$10.43 \$6.43	\$48,533			
.4.7		Rip-rap: Load, haul, dump Rip-rap: Place in mild-graded channels (good access)	2,590 m3	R.904	28.2 \$0.47	\$1,221.11	\$0.92	\$2,376	\$1.17 \$0.32	873	\$5,451.80 \$838.35	\$0.00	\$0.00	\$1.71	\$29,942 \$4,436			
.4.9 <i>Tail</i> i	ings Diversion Ditch	Rip-rap: Place in steep-graded channels (poor access)	2,065 m3	R.905	51.0 \$1.07	\$2,209.44	\$2.00	\$4,136	\$0.65	1,408	\$1,351.75	\$0.00	\$0.00	\$3.73	\$7,697	\$348,393		
1.2	Regrade	Slopes: Re-grade to 3H:1V	28 hrs	C.2.13	28 \$43.35	\$1,197	\$195.11	\$5,388	\$67.01	1,928	\$1,850	\$0.00	\$0	\$305.46	\$8,435	\$ 3 40,393		
2.1 2.2	Cover	Flat area cover material: Load, haul, dump spread Slope area cover material: Load, haul, dump along crest	25,182 Cm3 18.049 Cm3	R.057 R.058	562.3 \$0.96 352.6 \$0.84	\$24,183 \$15,150	\$2.56 \$2.20	\$64,487 \$39,732	\$1.05 \$0.95	27,585 17,921	\$26,482 \$17,204	\$0.00 \$0.00	\$0 \$0	\$4.57 \$3.99	\$115,152 \$72,086			
2.3		Slope area cover material: Spread down slope	14 hrs	C.2.13	14.0 \$43.35	\$606	\$195.11	\$2,730	\$67.01	977	\$937	\$0.00	\$0 \$0	\$305.46	\$4,274			
3.1 3.2	Revegetate	Seed/Fertilize: tractor application Tree seedling application (1,000 stems/ha)	9 ha 9 ha	C.6.01 C.6.06	286.4 \$1,005.46 443.1 \$1,789.95	\$8,694 \$15,476	\$397.11 \$9.02	\$3,434 \$78	\$232.94 \$15.00	2,098 135	\$2,014 \$130	\$986.00 \$460.50	\$8,525 \$3,982	\$2,622 \$2,274	\$22,666 \$19,666			
.4.1	Extend Channel to WSP	Clear and grub footprint	7,645 m2	C.2.03	29.1 \$0.16	\$1,260	\$0.49	\$3,744	\$0.13	1,068	\$1,025	\$0.00	\$0	\$0.79	\$6,029			
4.2 4.3		Geotextile: Supply and place Rip-rap (angular, high guality): Screen and stockpile	7,645 m2 3,701 m3	C.5.07 C.2.15	108.7 \$0.53 0.0 \$2.48	\$4,086 \$9,168	\$0.07 \$6.09	\$505 \$22,542	\$0.06 \$1.86	440 7,164	\$423 \$6,878	\$2.12 \$0.00	\$16,177 \$0	\$2.77 \$10.43	\$21,191 \$38,587			
.4.4		Rip-rap: Load, haul, dump	3,701 m3	R.031	173.8 \$2.02	\$7,467	\$3.84	\$14,215	\$1.30	5,028	\$4,827	\$0.00	\$0	\$7.16	\$26,509			
.4.5 Wa	ter Treatment	Rip-rap: Place in steep-graded channels (poor access)	3,701 m3	R.905	91.4 \$1.07	\$3,961	\$2.00	\$7,414	\$0.65	2,524	\$2,423	\$0.00	\$0	\$3.73	\$13,798		\$448,594	
	sive Treatment System					6 0 40 07		0 4 9 9	AA AA		AE 4 40		AA AA		0 / / 1 1	\$389,129	. ,	
.1.1 .1.2	Water Management	Install pump and pump around system Maintain pump around system during wetland construction activities	8 hrs 1,440 hrs	C.4.14 C.4.13	32.0 \$117.62 144.0 \$3.47	\$940.97 \$4,999.00	\$22.69 \$14.94	\$182 \$21,514	\$6.80 \$2.00	57 3,000	\$54.40 \$2,880.00	\$0.00 \$0.00	\$0.00 \$0.00	\$147.11 \$20.41	\$1,177 \$29,393			Assumed Assumes wetlands constructed over 2 months
.2.1	Valley Fill placement	Load, haul, dump material from the WSP excavation	85,918 m3	n/a - coste	ed as part of dam decommis													
.2.2		Load, haul dump valley fill material	0 m3	n/a	0.0 \$0.00	\$0.00	\$0.00	\$0	\$0.00	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0			Fill from WSP excavation exceeds the required amount.
.3.1 .3.2	Construct wetlands	Excavate cells: Load, haul dump, spoil locally Subgrade preparation: remove sharp objects, place fill as required	14,459 m3 9,273 m2	R.902 C.2.18	251.3 \$0.75 317.0 \$1.28	\$10,894.08 \$11,860.46	\$1.41 \$0.00	\$20,393 \$0	\$0.46 \$0.00	6,943	\$6,665.06 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$2.62 \$1.28	\$37,952 \$11,860			
.3.3		Geotextile: Supply and install	10,201 m2	C.5.08	290.1 \$1.07	\$10,904.34	\$0.13	\$1,349	\$0.11	0 1,175	\$1,127.78	\$2.12	\$21,584.60	\$3.43	\$34,966			
.3.4 .3.5		HDPE liner: Supply and install Organics: Mulch organics, produce and stockpile	10,201 m2 5,122 Cm3	C.5.11 C.2.10	1,187.0 \$4.63 577.1 \$4.39	\$47,209.53 \$22,487.09	\$0.32 \$4.65	\$3,312 \$23,834	\$0.27 \$1.82	2,884 9,720	\$2,769.07 \$9,331.25	\$9.20 \$0.00	\$93,846.11 \$0.00	\$14.42 \$10.87	\$147,137 \$55,653			
1.3.6		Organics: Load, haul, dump, place in cell	5,122 Cm3	R.001	161.4 \$1.36	\$6,944.77	\$2.70	\$13,842	\$0.90	4,797	\$4,605.36	\$0.00	\$0.00	\$4.96	\$25,393			
.3.7 .4.1	Conveyance channels	Plant wetland vegetation Excavate channels: Load, haul, dump locally	0.9 ha 1,402 m3	C.6.05 R.902	40.6 \$1,409.72 24.4 \$0.75	\$1,307.28 \$1,056.54	\$138.67 \$1.41	\$129 \$1,978	\$180.00 \$0.46	174 673	\$166.92 \$646.39	\$1,136.50 \$0.00	\$1,053.92 \$0.00	\$2,864.89 \$2.62	\$2,657 \$3,681			
1.4.2	Convoyance ondimets	Surface preparation: remove sharp objects, place fill as required	1,858 m2	C.2.18	63.5 \$1.28	\$2,376.04	\$0.00	\$0	\$0.00	0	\$0.00	\$0.00	\$0.00	\$1.28	\$2,376			
.4.3 .4.4		Geotextile: Supply and place HDPE Liner: Supply and install	1,858 m2 1,858 m2	C.5.08 C.5.11	52.8 \$1.07 216.2 \$4.63	\$1,985.91 \$8,597.84	\$0.13 \$0.32	\$246 \$603	\$0.11 \$0.27	214 525	\$205.39 \$504.31	\$2.12 \$9.20	\$3,931.01 \$17,091.33	\$3.43 \$14.42	\$6,368 \$26,797			
1.4.5		Bedding/Protection layer: Screen and stockpile	442 m3	C.2.01	9.0 \$0.94	\$413.80	\$2.08	\$921	\$0.44	203	\$194.99	\$0.00	\$0.00	\$3.46	\$1,529			
1.4.6 1.5.1	Operation and maintenance	Bedding/Protection layer: Load, haul, dump and place System to be started Yr. 1 post-closure	442 m3	R.001 n/a	13.9 \$1.36 0.0 \$0.00	\$599.65 \$0.00	\$2.70 \$0.00	\$1,195 \$0	\$0.90 \$0.00	414	\$397.65 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$4.96 \$0.00	\$2,193 \$0			Assumes WSP fill can be re-used
	commission/demolish Water 7		Uyi							U						\$59,465		
. 1000			17 hrs	C.1.13	67.1 \$164.14	\$2,754.58	\$87.08	\$1,461	\$14.53	254	\$243.80	\$0.00	\$0.00	\$265.75	\$4,460			1

					L	abour		Equi	pment		Fuel		Ма	terial	Activi	ty Totals	Subt	otals	
				0							0								
WBS	Facili Task	Activity	Qnty Units	Cost Code	Total Mhrs Unit	Rate	Cost U	Jnit Rate	Cost	Unit Rate	Consumed	Cost L	Jnit Rate	Cost	Unit Rate	Cost	WBS Level 2	WBS Level 1	Source / Comments
A14.2.1.2		Large equipment (crane req'd): dismantle and prep for transport		C.1.14		63.70		\$168.95	\$4,948		626	\$601.18	\$0.00	\$0.00	\$453.18	\$13,272	NBO LEVEL L		Course / Comments
A14.2.2.1		Reagents: Load for transport		.1.22		55.59	\$0.00	\$97.38	\$0	\$26.93	0	\$0.00	\$0.00	\$0.00	\$279.90	\$0			
A14.2.2.2		Reagents: Transport to Whitehorse		2.7.04	0.0 \$3	43.01	\$0.00	\$309.18	\$0	\$113.33	0	\$0.00	\$0.00	\$0.00	\$765.52	\$0			
A14.2.2.3		Reagents: Disposal and tipping fees		/a		\$0.00	\$0.00	\$0.00	\$0	\$0.00	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0			
A14.2.3.1	Demolition	Structural building demolition		.1.05		67.73		\$136.09	\$22,118		5,729	\$5,499.69	\$0.00	\$0.00	\$237.66	\$38,625			
A14.2.3.2		Other demolition: miscellaneous		C.1.07 C.7.07		\$3.65	\$54.78	\$2.09	\$31	\$0.74	12	\$11.05	\$0.00	\$0.00	\$6.48 \$889	\$97			
A14.2.4.1	Waste disposal	Off-site disposal (re-usable equipment, etc.)	3 trips C	.7.07	27.1 \$3	46.78	\$1,174.13	\$429.22	\$1,453	\$113.33	400	\$383.71	\$0.00	\$0.00	\$889	\$3,011			
Subiola	I Direct COSts - Active Cios	Suie			67,774		\$2,780,713		\$3,957,730			\$1,305,907		\$1,651,278				\$9,758,628	
INDIRE	CT COSTS				01,114		42,100,110		<i>40,001,100</i>			\$1,000,001		¢1,001,210				\$0,100,020	
B1	Mobilization-Demobilization	1																\$305,210	
B1.1	Mobilization	Year 0	1 LS												\$152,605	\$152,605.16			
B1.2	Demobilization	Year 3 (end of Active Closure)	1 LS												\$136,116	\$136,116.00			
B1.4	Demobilization	End of Passive closure	1 LS												\$16,489	\$16,489.16			
B2	Transportation Costs																	\$406,656	
B2.1.1	Barge Operations		15 month												\$10,000	\$150,000			
	Staffing Bus trips during ba		60 ea (one per	r week)											\$678	\$40,656			Turnaround labour costs included in labour build-up
B2.2.2	Air transport and airstrip op	perations	72 flights												\$3,000	\$216,000		A= 10 005	Three flights per week
B3	Site/Road Maintenance																¢	\$742,995	
B3.1 B3.1.1	Road Maintenance	Assume readed 450 her not month	01 month												£40.450	6055 011	\$682,358		
B3.1.1 B3.1.2	Water Truck Grader	Assume needed 150 hrs per month	21 month												\$12,159 \$20,334	\$255,344 \$427.015			
B3.1.2	Grader	Assume needed 150 hrs per month (16H + Operator)	21 month												\$20,334	\$427,015			Includes Main Access Read throughout closure paris
B3.2	Soil Erosion																\$60,637		Includes Main Access Road throughout closure period
B3.2.1		c/Silt fencing: supply, install remove at strategic locations	7023.7 m C	.2.17	283.5	\$3.15	\$22,133.92	\$1.70	\$11,961	\$0.68	4,941	\$4,743.08	\$0.91	\$6,358.42	\$6.43	\$45,197	400,007		
B3.2.2	21001011 protocilon allohand	Supply and install erosion control matting		.2.09		\$0.65	\$6,468.99	\$0.03	\$317		548	\$526.32	\$0.81	\$8,128.20	\$1.54	\$15,440			
B4	Construction Support	3			-													\$4,832,506	
B4.1	Field Support Staff																\$3,198,878	.,,,	Turnaround labour costs included in labour build-up
B4.1.1	Mine Manager		21 month		(360) site	e working hours	per month							\$23,366	\$490,685			
B4.1.2	Office/Camp manager		21 month		(360) site	e working hours	per month							\$22,227	\$466,773			
B4.1.3	Security/Administrative Ass	sistant	21 month		(360) site	e working hours	s per month							\$16,214	\$340,496			
B4.1.4	Foreman		21 month		(e working hours								\$17,349	\$364,320			
B4.1.5	Mechanic		21 month		(e working hours								\$17,349	\$364,320			
B4.1.6	Surveyor	Material & OA/OO testing	21 month		(e working hours								\$17,349	\$364,320			
B4.1.7 B4.1.8	Engineering technician Medic/H&S supervisor	Material & QA/QC testing	10.5 month 21 month		(e working hours								\$42,120 \$17,414	\$442,260 \$365,703			Assumed needed 1/2 of time
B4.1.0 B4.2	Field support Vehicles		21 1101111		(300) Sid	e working hours	per monun							Φ 17,414	\$303,703	\$774,669		
B4.2.1	Pick-up trucks (4 required)		84 month												\$4,518	\$379,500	φη τ+,003		
B4.2.2	Fuel truck		21 month												\$5.121	\$107.540			
B4.2.3	Mechanic service vehicle		21 month												\$6,919	\$145,293			
B4.2.4	Emergency transport vehic	le	21 month												\$4,519	\$94,901			
B4.2.5	Passenger bus		21 month												\$2,259	\$47,436			
B4.3	Field Support Equipment/Supplie	es															\$858,959		
B4.3.1	Light Towers		21 month			2 # of	Units								\$3,894	\$81,764			
B4.3.2	Material/Laboratory testing		21 month												\$1,000	\$21,000			
B4.4		al, and H&S Management Plans	1 LS												\$25,000	\$25,000			
B4.5 B4.6	Office supplies		21 month												\$1,000 \$1,000	\$21,000 \$21,000			
В4.6 В4.7	Communications Misc. supplies		21 month 21 month												\$1,000 \$500	\$21,000 \$10,500			
B4.7 B4.8	Camp costs	Includes catering and housekeeping	6,777 man-day												\$300	\$542,195			
B4.9	Power and heat		21 month												\$6,500	\$136,500			
B5	QA and Project Managemen	nt													,			\$1,860,889	
B5.1	Project Manager		21 month		(160) site	e working hours	per month							\$9,879	\$207,455		. ,,	
B5.2	Design Engineer		21 month		ì		e working hours								\$54,000	\$1,134,000			
B5.3	Environmental Monitor		21 month		ì		e working hours								\$15,699	\$329,684			
B5.4		Construction plans (included in Planning and Permitting Costs)					-								\$0.00	\$0			
B5.5	Field support vehicles (2 ve		42 month												\$4,518	\$189,750			
Subtota	I Indirect Costs - Active Cl	osure																	
																		\$8,148,257	
	RE IMPLEMENTATION COS	STS - TOTAL																	
CLOGO																			

Worksheet 10 - EOM Estimate - Schedule Details

Project: Project No.: Client: Date of Submission: File Location: Minto Mine Closure Cost Estimate - RCP Rev. 2016-01 1CM002.045 Minto Explorations Ltd.

August 5, 2016 \\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\Cost Estimate\



A: Year 0 Site Access Schedule

										I	Nonth	1					
		Flight	Barge	Total													
Stage	Year	Months	Months	Months	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Comments/Notes
Interim Care		0	0	0													
SUB-TOTAL INTERIM CARE		0	0	0													
Active Closure	1	2	5	7				F	F	В	В	В	В	В			
Active Closure	2	2	5	7				F	F	В	В	В	В	В			
Active Closure	3	2	5	7				F	F	В	В	В	В	В			
SUB-TOTAL ACTIVE CLOSU	IRE	6	15	21													
Post-Closure 1	1	2	3	5				F	F	В	В	В					
SUB-TOTAL POST-CLOSUR	E 1	2	3	5													
Post-Closure 2	1	0	1	1						В							
SUB-TOTAL POST-CLOSUR	E 2	0	1	1													

B: Annual C&M Staffing Schedule - Interim Operations

								M	lonth							
			Months													
#	Role		Required	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Comments/Notes
Months	Active at Site		0				0	0	0	0	0	0	0			
	stration/Office															
	Mine Manager		0													
	Office/Camp Mgr		0													
	Payroll/Accounting/HR		0													
Water 7	Freatment/Environmental Staffi	ing														
1	Warehouse/Water Treatment O	perator	0													
	Environmental Manager		0													
3	Environmental Technician		0													
Operati	ions															
4	Barge Operator		0													
5	Equipment operators		0													
6	HD Mechanic		0													
7	Tradesmen		0													
8	Labour/Helpers		0													
	Support															
1	Cooks/Housecleaning etc.		0		_											
Other					-											
1	Visitors		0		_											
TOTAL			0	0	0	0	0	0	0	0	0	0	0	0	0	
	Annual ma	an-days:	0													

Notes:

1. 0.5 personnel indicates staff on site 50% of time (i.e. no cross shift)

2. Orange highlighted cells are used for camp-man day calculations only.

C: Annual C&M Staffing Schedule - During Active Phase

								M	lonth							1
			Months		1	1					1	1				
#	Role		Required	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Comments/Notes
Months	s Active at Site		7				1	1	1	1	1	1	1			
Water 7	Treatment/Environmental Stat	ffing														
1	Warehouse/Water Treatment 0	Operator	5				1.0	1.0	1.0	1.0	1.0					
2	Environmental Manager		4				1.0	0.5	0.5	0.5	0.5	0.5	0.5			
3	Environmental Technician		4				1.0	0.5	0.5	0.5	0.5	0.5	0.5			
TOTAL			13	0	0	0	3	2	2	2	2	1	1	0	0	
	Annual man-days: 390															

Notes:

1. 0.5 personnel indicates staff on site 50% of time (i.e. no cross shift)

D: Annual C&M Staffing Schedule - Post Closure 1

								Ν	lonth							
			Months													
#	Role		Required	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Comments/Notes
Months	s Active at Site		5				1	1	1	1	1					
Admin	stration/Office															
	Mine Manager		3				0.5	0.5	0.5	0.5	0.5					
2	Office/Camp Mgr		3				1.0	0.5	0.5	0.5	0.5					
3	Payroll/Accounting/HR		1				0.25	0.25	0.25	0.25	0.25					
Water	Treatment/Environmental Stat	ffing														
1	Passive treatment specialist		2				0.5	0.5	0.3	0.3	0.3					
2	Environmental Manager		3				0.5	0.5	0.5	0.5	0.5					
3	Environmental Technician		3				0.5	0.5	0.5	0.5	0.5					
Operat	ions															

4	Barge Operator		6						2.0	2.0	2.0					
5	Equipment operators		10				2.0	3.0	1.5	1.5	1.5					
6	HD Mechanic		2				1.0	0.25	0.25	0.25	0.25					
7	Tradesmen		2				1.0	0.25	0.25	0.25	0.25					
8	Labour/Helpers		2				1.0	0.25	0.25	0.25	0.5					
Camp/s	Support															
1	Cooks/Housecleaning etc.		0				0.0	0.0	0.0	0.0	0.0					Contract (accounted for in camp costs)
Other																
1	Visitors		1				0.25				0.25					
TOTAL			36	0	0	0	9	7	7	7	7	0	0	0	0	
	Annual m	nan-days:	1,073													

Notes:

1. 0.5 personnel indicates staff on site 50% of time (i.e. no cross shift)

2. Orange highlighted cells are used for camp-man day calculations only.

E: Annual C&M Staffing Schedule - Post Closure 2

								м	onth							1
#	Role		Months Required	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Comments/Notes
Months	s Active at Site		1						1							
Admini	istration/Office															
1	Mine Manager		1						0.5							
2	Office/Camp Mgr		0						0.0							
3	Payroll/Accounting/HR		0						0.0							
Water 7	Treatment/Environmental Stat	ffing														
1	Passive Treatment Scientist		1						0.5							
	Environmental Manager		0													
3	Environmental Technician		0													
Operat	ions															
4	Barge Operator		1						1.0							
5	Equipment operators		3						3.0							
6	HD Mechanic		1						0.50							
7	Tradesmen		0													
8	Labour/Helpers		0						0.25							
Camp/S	Support															
1	Cooks/Housecleaning etc.		0						0.0							Contract (accounted for in camp costs)
Other																
1	Visitors		0						0.25							
TOTAL			6	0	0	0	0	0	6	0	0	0	0	0	0	
	Annual n	nan-days:	180													

Notes:

1. 0.5 personnel indicates staff on site 50% of time (i.e. no cross shift)

2. Orange highlighted cells are used for camp-man day calculations only.

F: Annual C&M Staffing Schedule - Long-term perpetual maintenance year

								М	lonth							
#	Role		Months Required	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Comments/Notes
Months	s Active at Site		1							1						
Admin	istration/Office															
1	Project Manager/Foreman		1							1.0						
Water '	Treatment/Engineering Staffir	g														
1	Passive Treatment Scientist		1							1.0						
2	Site Engineer		1							1.0						
3	Environmental Technician		0													
Operat	ions															
4	Barge Operator		1							1.0						Assumed required 1/2 the time (near mob and demob)
5	Equipment operators		4							4.0						
6	HD Mechanic		1							0.50						
7	Tradesmen		0													
8	Labour/Helpers		1							1.00						
Camp/	Support															
1	Cooks/Housecleaning etc.		0													Contract (accounted for in camp costs)
Other																
1	Visitors		1							0.50						
TOTAL			10	0	0	0	0	0	0	10	0	0	0	0	0	
	Annual n	nan-days:	300													

Notes:

1. 0.5 personnel indicates staff on site 50% of time (i.e. no cross shift)

2. Orange highlighted cells are used for camp-man day calculations only.

Worksheet 11- EOM Estimate - Planning and Permitting Costs Project: Minto Mine Closure Cost Estimate - RCP Rev. 2016-01 Project No.: 1CM002.045 Client: Minto Explorations Ltd. Date of Submission: August 5, 2016 File Location: WVAN-SVR0\Projects\U1_SITES\Minto\1CM002.045_ClosureCosts\Cost Estimate\



Planning And Permitting

						Total Unit			
						Rate	Activity		
WBS	Facility/Area	Task	Activity	Qnty	Unit	(\$/unit)	Total	Subtotal	Source / Comments
M1	Planning and F	ermitting	· · · ·						
M1.1	Reclamation Re	search/Planning						\$200,000	
M1.1.1		Complete reclamation closu	ure and research plan	1	yr	\$200,000	\$200,000		
M1.2	Technical studie	es and investigations						\$58,500	
M1.2.1		Tailings and WR materials	testing and monitoring program	1	ls	\$36,000	\$36,000		
M1.2.2		Pit lake water quality mode		1	ls	\$22,500	\$22,500		
M1.3	Monitoring and	Management Plans						\$95,000	
M1.3.1		Adaptive Mgmt Plans	Physical, water quality, etc.	1	ls	\$15,000	\$15,000		
M1.3.2		Revegetation plan		1	ls	\$30,000	\$30,000		
M1.3.3		Waste Management Plan	Water treatment, sludge, landfarm, etc.	1	ls	\$50,000	\$50,000		
M1.4	Engineering, De	sign, and Construction Plan	S					\$487,931	
M1.4.1		Percentage of direct implen	nentation costs	5%	of	\$9,758,628	\$487,931		
M1.5	Permitting							\$0	
M1.5.1.1	-	Permit Staffing	Permitting Manager	0	ls	\$0	\$0		Staffing costs included in tasks above
M1.5.1.2			Environmental Manager	0	ls	\$0	\$0		
M1.5.1.3			Technical Consultants	0	ls	\$0	\$0		
TOTAL								\$841,431	

Worksheet 12 - Labour Rate Calculations

Laboar	110100	ourouldiforito
		Minto Mine Closure Cost Estimate - RCP Rev. 2016-01
		1CM002.045
		Minto Explorations Ltd.
		August 5, 2016
		\\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\Cost Estimate
	Labour	

LABOUR RATES

- Benefit Factors

 Employment Insurance (EI) percentage:
 2.13%
 of base earnings
 2016 Source: http://www.cra-arc.gc.ca/tx/bsnss/tpcs/pyrll/clctng/ei/hstrc-eng.html

 Canada Pension Plan I (CPP) percentage:
 4.63%
 of base earnings
 2016 Source: http://www.cra-arc.gc.ca/tx/bsnss/tpcs/pyrll/clctng/ei/hstrc-eng.html

 CPP salary limit:
 \$54.900
 2016 Source: http://www.cra-arc.gc.ca/tx/bsnss/tpcs/pyrll/clctng/ei/hstrc-eng.html

 MSP/Health Benefits:
 \$0
 per month
 Yukon Territory has no employer or employee premiums or payroll taxes for health care (Source: CostMine 2014)

 Small tools/safety gear allowance:
 \$226
 Per wonth
 Yukon Territory has no employer or employee premiums or payroll taxes for health care (Source: CostMine 2014)

 Resources (low)
 3.22%
 Metal mining, gravel crushing and screening, air services

 Resources (high)
 7.69%
 Diamond drilling, forestry, long haul trucking, oil/gas

 Services (med.)
 1.37%
 Catering, Housekeeping, Consultants doing fieldwork
- Workers Compensation

								Rotatio	n Details				T	ravel Costs			٥v	/ertime		Other			Hours							Annual Te	otals			
Cost Code	Base Hourly Wage (\$/hr)	Loading Rate (%)	Rate Used in Estimate (\$/hr)	Source (See Notes)	Include Loading Calculations?	Rotation Type	Weeks Onsite per Year	Hours Worked per Day	Days per Week	Site Hours per Year	Travel Hours per year	Travel Time (1 way) (hrs)		Flights Ho (1 way) (1 w		ls Total Per ay) Rotation			Small Too Allowance ?	Worker's Comp	Base Work Hours per Year	Overtime Work Hours per Year	Vacation Hours	Stat Hours	Total Hours Paid per Year	Base Earnings (\$/yr)	Base Salary	Overtime Salary	EI	CPP Work Con				Fravel Annual Cost Total
P.01 Camp Labourer	\$23.19	150%	\$34.77	1	Yes	2 in - 2 out	28	12	7	2,352	70	2.5	Pelly	\$0	\$0	<mark>\$0</mark> \$	0 1.5	\$34.79	No	Services (med.)	1120	1470	80	88	2590	\$54,543	\$25,973	\$51,134	\$1,081	\$2,525 \$1	,056	\$0	\$0	\$0 \$81,769
P.02 Design Engineer	\$150.00	90%	\$150.00	3, 4	No	2 in - 2 out	28	12	7	2,352	140	5	Vancouver	\$400 \$	100 \$	50 \$1,10	0 1	\$150.00	No	Resources (med.)	1120	1620	160	88	2740	\$352,800	\$168,000	\$243,000	\$1,081	\$2,542 \$18	,742	\$0	\$0 \$	154,000 \$587,364
P.03 Driller / Blaster	\$28.81	150%	\$43.35	1	Yes	3 in - 2 out	35	12	7	2,940	93	4	Whitehorse	\$0	\$0	<mark>\$0</mark> \$	0 1.5	\$43.22	Yes	Resources (med.)	1400	1801	80	88	3201	\$84,701	\$40,334	\$77,845	\$1,081	\$2,542 \$5	,389	\$250	\$0	\$0 \$127,44
P.04 Engineering Technician (Consultant)	\$130.00	90%	\$117.00																															
P.05 Environmental Monitor	\$28.81	151%	\$43.61		Yes	2 in - 2 out	28	12	7	2,352	112	4	Whitehorse	\$0	\$0	<mark>\$0</mark> \$	0 1.5	\$43.22	No	Services (med.)	1120	1512	80	88	2632	\$67,761	\$32,267	\$65,341	\$1,081	\$2,542 \$1	,337	\$0	\$0	\$0 \$102,56
P.06 Environmental Scientist (Consultant)	\$130.00	90%	\$117.00	3, 4																														
P.07 Foreman	\$32.13	150%	\$48.19	1	Yes	3 in - 2 out	35	12	7	2,940	93	4	Whitehorse	\$0	\$0	<mark>\$0</mark> \$	0 1.5	\$48.20	Yes	Resources (med.)	1400	1801	80	88	3201	\$94,462	\$44,982	\$86,815	\$1,081	\$2,542 \$6	,010	\$250	\$0	\$0 \$141,68
P.08 Head Camp Cook	\$32.13	145%	\$46.68	1	Yes	3 in - 2 out	35	12	7	2,940	93	4	Whitehorse	\$0	\$0	<mark>\$0</mark> \$	0 1.5	\$48.20	No	Services (med.)	1400	1801	80	88	3201	\$94,462	\$44,982	\$86,815	\$1,081	\$2,542 \$1	,806	\$0	\$0	\$0 \$137,220
P.09 Health and Safety Supervisor	\$32.00	151%	\$48.37	3	Yes	2 in - 2 out	28	12	7	2,352	112	4	Whitehorse	\$0	\$0	<mark>\$0</mark> \$	0 1.5	\$48.00	Yes	Services (med.)	1120	1512	80	88	2632	\$75,264	\$35,840	\$72,576	\$1,081	\$2,542 \$1	,485	\$250	\$0	\$0 \$113,774
P.10 Heavy Equip. Operator 1: Crane, Dragline, Shovels	\$32.13	150%	\$48.19	1	Yes	3 in - 2 out	35	12	7	2,940	93	4	Whitehorse	\$0	\$0	<mark>\$0</mark> \$	0 1.5	\$48.20	Yes	Resources (med.)	1400	1801	80	88	3201	\$94,462	\$44,982	\$86,815	\$1,081	\$2,542 \$6	,010	\$250	\$0	\$0 \$141,680
P.11 Heavy Equip. Operator 2: Excavator, Loader, Dozers	\$28.81	150%	\$43.35	1	Yes	3 in - 2 out	35	12	7	2,940	93	4	Whitehorse	\$0	\$0	\$0 \$	0 1.5	\$43.22	Yes	Resources (med.)	1400	1801	80	88	3201	\$84,701	\$40,334	\$77,845	\$1,081	\$2,542 \$5	,389	\$250	\$0	\$0 \$127,44
P.12 Heavy Equip. Operator 3: Rollers and compactors	\$23.19	150%	\$34.72	1	Yes	3 in - 2 out	35	12	7	2,940	58	2.5	Pelly	\$0	\$0	\$0 \$	0 1.5	\$34.79	Yes	Resources (med.)	1400	1766	80	88	3166	\$68,179	\$32,466	\$61,442	\$1,081	\$2,542 \$4	,282	\$250	\$0	\$0 \$102,06
P.13 Heavy Equip. Mechanic	\$32.13	150%	\$48.19		Yes	3 in - 2 out	35	12	7	2,940	93	4	Whitehorse	\$0	\$0	\$0 \$	0 1.5	\$48.20	Yes	Resources (med.)	1400	1801	80	88	3201	\$94,462	\$44,982	\$86,815	\$1,081	\$2,542 \$6	,010	\$250	\$0	\$0 \$141,68
P.14 Heavy Equip. Servicer	\$28.81	150%	\$43.35	1	Yes	3 in - 2 out	35	12	7	2,940	93	4	Whitehorse	\$0	\$0	\$0 \$	0 1.5	\$43.22	Yes	Resources (med.)	1400	1801	80	88	3201	\$84,701	\$40,334	\$77,845	\$1,081	\$2,542 \$5	,389	\$250	\$0	\$0 \$127,440
P.15 Helicopter Pilot	\$32.13	148%	\$47.50	3	Yes	3 in - 2 out	35	12	7	2,940	93	4	Whitehorse	\$0	\$0	\$0 \$	0 1.5	\$48.20	No	Resources (low)	1400	1801	80	88	3201	\$94,462	\$44,982	\$86,815	\$1,081	\$2,542 \$4	,244	\$0	\$0	\$0 \$139,664
P.16 Labourers	\$23.19	150%	\$34.72	1	Yes	3 in - 2 out	35	12	7	2,940	58	2.5	Pelly	\$0	\$0	<mark>\$0</mark> \$	0 1.5	\$34.79	Yes	Resources (med.)	1400	1766	80	88	3166	\$68,179	\$32,466	\$61,442	\$1,081	\$2,542 \$4	,282	\$250	\$0	\$0 \$102,06
P.17 Linesperson (electric)	\$32.13	150%	\$48.19	1	Yes	3 in - 2 out	35	12	7	2,940	93	4	Whitehorse	\$0	\$0	<mark>\$0</mark> \$	0 1.5	\$48.20	Yes	Resources (med.)	1400	1801	80	88	3201	\$94,462	\$44,982	\$86,815	\$1,081	\$2,542 \$6	,010	\$250	\$0	\$0 \$141,68
P.18 Medic, First Aid Attendant	\$23.19	157%	\$36.46	1	Yes	2 in - 2 out	28	12	7	2,352	112	4	Whitehorse	\$0	\$0	<mark>\$0</mark> \$	0 1.5	\$34.79	No	Resources (med.)	1120	1512	80	88	2632	\$54,543	\$25,973	\$52,595	\$1,081	\$2,525 \$3	,583	\$0	\$0	\$0 \$85,75
P.19 Office Manager	\$39.90	155%	\$61.74		Yes	2 in - 2 out	28	12	7	2,352	112	4	Whitehorse	\$0	\$0	\$0 \$	0 1.5	\$59.85		Resources (med.)	1120	1512	80	88	2632	\$93,845	\$44,688	\$90,493	\$1,081	\$2,542 \$6	,164	\$250	\$0	\$0 \$145,21
P.20 Owner's Project Manager	\$39.90	155%	\$61.74	2	Yes	2 in - 2 out	28	12	7	2,352	112	4	Whitehorse	\$0	\$0	\$0 \$	0 1.5	\$59.85	Yes	Resources (med.)	1120	1512	80	88	2632	\$93,845	\$44,688	\$90,493	\$1,081	\$2,542 \$6	,164	\$250	\$0	\$0 \$145,21
P.21 Mine Manager	\$42.00	155%	\$64.91	2	Yes	2 in - 2 out	28	12	7	2,352	112	4	Whitehorse	\$0	\$0	\$0 \$	0 1.5	\$63.00	Yes	Resources (med.)	1120	1512	80	88	2632	\$98,784	\$47,040	\$95,256	\$1,081	\$2,542 \$6	,489	\$250	\$0	\$0 \$152,65
P.22 Security Guard	\$23.19	150%	\$34.72	1	Yes	3 in - 2 out	35	12	7	2,940	58	2.5	Pelly	\$0	\$0	\$0 \$	0 1.5	\$34.79	Yes	Resources (med.)	1400	1766	80	88	3166	\$68,179	\$32,466	\$61,442	\$1,081	\$2,542 \$4	,282	\$250	\$0	\$0 \$102,06
P.23 Site Caretaker	\$25.55	151%	\$38.59		Yes	3 in - 2 out	35	12	7	2,940	93	4	Whitehorse	\$0	\$0	<mark>\$0</mark> \$	0 1.5	\$38.33	Yes	Resources (med.)	1400	1801	80	88	3201	\$75,117	\$35,770	\$69,036	\$1,081	\$2,542 \$4	,779	\$250	\$0	\$0 \$113,45
P.24 Site Clerk / Administration	\$28.81	156%	\$45.04	3	Yes	2 in - 2 out	28	12	7	2,352	112	4	Whitehorse	\$0	\$0	<mark>\$0</mark> \$	0 1.5	\$43.22	Yes	Resources (med.)	1120	1512	80	88	2632	\$67,761	\$32,267	\$65,341	\$1,081	\$2,542 \$4	,451	\$250	\$0	\$0 \$105,93
P.25 Site Supervisor	\$39.90	155%	\$61.74	2	Yes	2 in - 2 out	28	12	7	2,352	112	4	Whitehorse	\$0	\$0	<mark>\$0</mark> \$	0 1.5	\$59.85	Yes	Resources (med.)	1120	1512	80	88	2632	\$93,845	\$44,688	\$90,493	\$1,081	\$2,542 \$6	,164	\$250	\$0	\$0 \$145,21
P.26 Surveyor	\$32.13	150%	\$48.19	1	Yes	3 in - 2 out	35	12	7	2,940	93	4	Whitehorse	\$0	\$0	\$0 \$	0 1.5	\$48.20	Yes	Resources (med.)	1400	1801	80	88	3201	\$94,462	\$44,982	\$86,815	\$1,081	\$2,542 \$6	,010	\$250	\$0	\$0 \$141,68
P.27 Trades Labourer (carpenter, electrician, welder etc.)	\$32.13	160%	\$51.37	1	Yes	3 in - 2 out	35	12	7	2,940	93	4	Whitehorse	\$0	\$0 \$	50 \$10	0 1.5	\$48.20	Yes	Resources (med.)	1400	1801	80	88	3201	\$94,462	\$44,982	\$86,815	\$1,081	\$2,542 \$6	.010	\$250	\$0	\$9,333 \$151,01
P.28 Truck Driver 1: 10 Ton GVW and up.	\$28.81	149%	\$42.81	1	Yes	3 in - 2 out	35	12	7	2,940	58	2.5	Pelly	\$0	\$0	\$0 \$	0 1.5	\$43.22	Yes	Resources (med.)	1400	1766	80	88	3166	\$84,701	\$40,334	\$76,332	\$1,081	\$2,542 \$5	,320	\$250	\$0	\$0 \$125,85
P.29 Truck Driver 2: 3 - 10 Ton GVW	\$25.55	149%	\$38.11	1	Yes	3 in - 2 out	35	12	7	2,940	58	2.5	Pelly	\$0	\$0	\$0 \$	0 1.5	\$38.33	Yes	Resources (med.)	1400	1766	80	88	3166	\$75,117	\$35,770	\$67,695	\$1,081	\$2,542 \$4	,718	\$250	\$0	\$0 \$112,05
								-														1									<u></u>			

Notes: 1 Basic Rate: Yukon Government Fair Wage Schedule - Effective Apr 1, 2016 (Accessed July 2016) 2 CostMine 2014 for an active BC mine site 3 Estimated from project experience 4 Consultants rates are reduced by 10% as this value is added back in later in the estimate (Contractor Profit = 10%)



Worksheet 13 - Equipment Rate Calculations

Project:	Minto Mine Closure Cost Estimate - RCP Rev. 2016-01
Project No.:	1CM002.045
Client:	Minto Explorations Ltd.
Date of Submission:	August 5, 2016
File Location:	\\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\Cost Estimate\



EQUIPMENT RATES

Adjustment Factors Adjustment Factors Equipment Rates used in Fuel Consump On-site fuel cost per lit BC Blue Book Cost Breakdown A BC Blue Bo

Rates used in estimate: 3r	d-Party - BC E	Blue Book
uel Consumption Rates:	2 - Medium	Note: Medium consumption applied to most situations
uel cost per litre (diesel):	\$0.96	Average On-site Cost for the period May 2015-Feb2016
Breakdown Assumptions		
BC Blue Book Source:	2015-16	
Owner overhead rate:	10%	BC Roadbuilder Association (2000)
Profit rate:	10%	BC Roadbuilder Association (2000)

Profit rate: 10% De rotacionnes resserves BC Goxt Fuel Price Adjustment Frances: Avg. BC disel cost: \$1.02 Average BC disel cost for the past 12 months On-Road Equipment (Shr): \$2.20 Off-road equipment (Shr): \$2.20 Data: July/12016 Source: http://www2.gov.bc.ca/gov/content/industry/construction-industry/transportation-infrastructure/hired-equipment-program/fuel-price-adjustment Source: http://www2.gov.bc.ca/gov/content/industry/construction-industry/transportation-infrastructure/hired-equipment-program/fuel-price-adjustment

Equi	ipment		Rate Su	ummary			Operator Details		Weight	ł	Fuel Consu	mption Deta	ils			BC Blue Book	Cost Breakd	own		
Equip Code	Model	Source Used in Estimate	n Equipment Cost (\$/hr)		Total Equipment Rate (\$/hr)		Operator Type	Operator Rate (\$/hr)	Shipping Weight (tonnes)	On-Road/ Off-Road		Medium (liters/hr)	High (liters/hr)	All-Found Rate (\$/hr)	Operators Wage (\$/hr)	Ownership/ Maintenanc e Cost (\$/hr)		Contractor Overhead Cost (\$/hr)	Contractor Profit (\$/hr)	Comments
E.01.1 CAT430E (4x4)		Oral Deaths	\$13.95	\$11.66	605.04	-	E. Operator 2	640.05	7.4	04	0.4	12.15	04.05	\$91.65	\$46.60	\$13.95	645.40	\$7.57	\$8.33	
E.01.1 CA1430E (4x4)		3rd Party	\$13.95	\$11.66	\$25.61	1	E. Operator 2	\$43.35	7.4	Off	8.1	12.15	21.95	\$91.65	\$46.60	\$13.95	\$15.19	\$7.57	\$8.33	
Compactors																				
E.02.1 CAT CP563		3rd Party	\$30.29	\$14.88	\$45.17	1	Roller Operator	\$34.72	11.5	Off	13	15.5	18.5	\$115.55	\$46.60	\$30.29	\$18.61	\$9.55	\$10.50	
E.02.2 Walk-behind vibra	ating (30 in)	3rd Party	\$9.46	\$2.25	\$11.71	0	Roller Operator	\$0.00	n/a	n/a	1.2	2.3	3.5	\$11.45	\$0.00	\$9.46	\$0.00	\$0.95	\$1.04	Fuel rate estimated from a 22 in Wacker Neuson (3.5L/hr under 100%operation)
Denne											_									
E.03.1 CAT D6R		3rd Party	\$77.93	\$23.28	\$101.21	4	E. Operator 2	\$43.35	18.0	Off	18	24.25	30.5	\$184.00	\$46.60	\$77.93	\$27.54	\$15.21	\$16.73	
E.03.2 CAT D8R		3rd Party 3rd Party	\$128.82	\$35.28	\$164.10	-	E. Operator 2		37.6	Off	27.25	36.75	46.25	\$164.00	\$46.60	\$128.82	\$40.29	\$21.57	\$23.73	
E.03.3 CAT D10T		3rd Party	\$128.02	\$67.01	\$262.11	1	E. Operator 2	\$43.35	66.4	Off	51.45	69.8	88.6	\$382.00	\$46.60	\$126.62	\$74.00	\$31.57	\$34.73	
E.03.4 CAT D11R		3rd Party	\$207.28	\$96.00	\$303.28	1	E. Operator 2		104.6	Off	71.7	100	126.25	\$434.00	\$46.60	\$207.28	\$104.80	\$35.87	\$39.45	
0/11 0/11		ordinarty	0207.20	400.00	\$000.E0		E. Optitudi E	\$10.00	101.0	011		100	120.20	¢101.00	Q 10.00	Q207.20	<i>Q</i>101.00	\$00.07	400.10	
Drills			(in the second se																	
E.04.1 Air Rotary, 200 c	fm compressor	3rd Party	\$169.45	\$24.00	\$193.45	2	Driller / Blaster	\$86.69	n/a	Off	20	25	30	\$352.05	\$93.20	\$169.45	\$28.30	\$29.10	\$32.00	Med. Fuel consumption rate estimated based on DR10 drill (http://www.orbitdrilling.com.au/mineralexp.html)
E.04.2 Air track producti	on drill rig (900cfm)	3rd Party	\$75.40	\$48.00	\$123.40	2	Driller / Blaster	\$86.69	41.0	Off	33.35	50	66.5	\$269.10	\$93.20	\$75.40	\$53.80	\$22.24	\$24.46	Med. Fuel consumption rate estimated from Cost Mine 2015
Excavators																				
E.05.1 CAT 330		3rd Party	\$84.35	\$29.76	\$114.11	1	E. Operator 2		35.1	Off	21.5	31	36.5	\$200.10	\$46.60	\$84.35	\$34.42	\$16.54	\$18.19	
E.05.2 CAT 385		3rd Party	\$178.39	\$62.40	\$240.79	1	E. Operator 2	\$43.35	83.0	Off	45.5	65	74.5	\$355.85	\$46.60	\$178.39	\$69.10	\$29.41	\$32.35	
					-						-				-					
Graders E.06.1 CAT 140M		3rd Party	\$65.80	\$15.60	\$81.40		E. Operator 2	\$43.35	13.6	Off	10.35	16.25	24.2	\$159.45	\$46.60	\$65.80	\$19.38	\$13.18	\$14.50	
E.06.2 CAT 140M		3rd Party 3rd Party	\$70.42	\$15.60	\$81.40	1	E. Operator 2 E. Operator 2		24.7	Off	10.35	22.7	37.25	\$159.45	\$46.60	\$05.80	\$19.38	\$13.18	\$14.50	
E.00.2 CAT TOW		Siu Faity	\$70.42	\$21.79	\$92.21		E. Operator 2	\$43.33	24.7	UII	14.7	22.1	31.23	\$173.00	\$40.00	\$7U.42	\$20.90	\$14.30	\$13.73	
Haul Trucks								-							-					
E.07.1 Std Tandem Hau	I Truck (10 yd3)	3rd Party	\$13.51	\$11.52	\$25.03	1	Truck Driver 1	\$42.81	n/a	On	8.04	12	15.96	\$89.00	\$46.60	\$13.51	\$13.44	\$7.36	\$8.09	Fuel Consumption source: http://www.equipmentworld.com/owning-and-operating-costs-8/ (3.2 gal/hr for short hauls
E.07.2 CAT 735		3rd Party	\$71.87	\$25.87	\$97.74	1	Truck Driver 1	\$42.81	29.9	Off	16.55	26.95	37.35	\$180.00	\$46.60	\$71.87	\$30.29	\$14.88	\$16.36	(
E.07.3 CAT 769D		3rd Party	\$78.65	\$34.27	\$112.92	1	Truck Driver 1	\$42.81	35.4	Off	25.5	35.7	45.9	\$199.00	\$46.60	\$78.65	\$39.21	\$16.45	\$18.09	
E.07.4 CAT 773G		3rd Party	\$96.30	\$48.77	\$145.07	1	Truck Driver 1	\$42.81	45.0	Off	36.25	50.8	65.35	\$239.00	\$46.60	\$96.30	\$54.62	\$19.75	\$21.73	
E.07.5 CAT 777D		3rd Party	\$157.19	\$63.02	\$220.21	1	Truck Driver 1	\$42.81	72.6	Off	46.85	65.65	84.4	\$331.00	\$46.60	\$157.19	\$69.76	\$27.36	\$30.09	
Lifting																				
E.08.1 Hydraulic Crane,	30Ton	3rd Party	\$81.87	\$6.00	\$87.87	1	E. Operator 1	\$48.19	30.0	Off	4.19	6.25	8.31	\$166.55	\$46.60	\$81.87	\$9.18	\$13.76	\$15.14	Med. Fuel consumption rate estimated from CostMine 2015
Loaders E.09.1 CAT 950H		3rd Party	\$62.08	\$12.53	\$74.61	1	E. Operator 2	\$43.35	18.3	Off	9.65	13.05	16.6	6454.00	\$46.60	\$62.08	\$16.11	\$12.48	\$13.73	
E.09.1 CAT 950H E.09.2 CAT 990		3rd Party 3rd Party	\$62.08	\$12.53	\$74.61 \$168.09	1	E. Operator 2 E. Operator 2		18.3	Off	9.65	13.05 65.25	16.6	\$151.00 \$267.90	\$46.60	\$62.08	\$16.11 \$69.36	\$12.48 \$22.14	\$13.73 \$24.35	
E.09.2 CAT 990		Siu Faity	\$105.45	402.04	\$100.09	-	E. Operator 2	\$ 4 3.30	11.0	UII	50	03.23	04.75	\$207.90	\$ 4 0.00	\$105.45	\$09.30	\$22.1 4	\$24.33	
Support Vehicle	S							1												
E.10.1 Concrete Transit		3rd Party	\$29.52	\$10.85	\$40.36	1	Labourer	\$34.72	n/a	On	7.54	11.3	15.03	\$107.50	\$46.60	\$29.52	\$12.73	\$8.88	\$9.77	Med. Fuel consumption from NRCA (http://www.nrmca.org/operations/documents/2012fleetsurveyfinal report.pdf)
E.10.2 Fuel Truck		3rd Party	\$4.97	\$9.25	\$14.22	1	Equip. Servicer	\$43.35	n/a	On	6.43	9.64	12.82	\$75.75	\$46.60	\$4.97	\$11.03	\$6.26	\$6.89	Med. Fuel consumption from CostMine2015 (mobile field fuel/lube truck)
E.10.3 Highway, Line Tri	uck with Aerial Platform	3rd Party	\$56.06	\$12.00	\$68.06	1	Trade Labour	\$51.37	n/a	On	8.34	12.5	16.63	\$141.10	\$46.60	\$56.06	\$13.95	\$11.66	\$12.83	Med. Fuel consumption from CostMine2015 (Flatbed truck)
	Flatbed Truck (HIAB) 5 ton	3rd Party	\$7.22	\$12.00	\$19.22	1	Equip. Servicer		n/a	On	8.34	12.5	16.63	\$82.00	\$46.60	\$7.22	\$13.95	\$6.78	\$7.45	Med. Fuel consumption from CostMine2015 (Flatbed truck)
E.10.5 Lowbed Tractor/T		3rd Party	\$29.27	\$11.52	\$40,79	1	Truck Driver 1		n/a	Off	8.00	12	15.96	\$110.00	\$46.60	\$29.27	\$15.04	\$9.09	\$10.00	Fuel consumption estimated
E.10.6 Lowbed Tractor T		3rd Party	\$35.30	\$14.40	\$49.70	1	Truck Driver 1		n/a	Off	10.01	15	19.95	\$121.00	\$46.60	\$35.30	\$18.10	\$10.00	\$11.00	Fuel consumption estimated
	railer - 7 Axle (41 tonnes)	3rd Party	\$49.85	\$14.40	\$64.25	1	Truck Driver 1	\$42.81	n/a	Off	10.01	15	19.95	\$138.60	\$46.60	\$49.85	\$18.10	\$11.45	\$12.60	Fuel consumption estimated
	railer - 8 Axle (48 tonnes)	3rd Party	\$52.45	\$14.40	\$66.85	1	Truck Driver 1		n/a	Off	10.01	15	19.95	\$141.75	\$46.60	\$52.45	\$18.10	\$11.71	\$12.89	Fuel consumption estimated
E.10.9 Pick-up Truck (1.	5T) 4x4	3rd Party	\$7.75	\$4.80	\$12.55	0		\$0.00	n/a	On	3	5	10	\$17.00	\$0.00	\$7.75	\$6.30	\$1.40	\$1.55	Fuel consumption rate estimated
E.10.10 Pilot Vehicle		3rd Party	\$6.95	\$4.80	\$11.75	1	Labourer	\$34.72	n/a	On	3	5	10	\$53.55	\$31.01	\$6.95	\$6.30	\$4.43	\$4.87	Fuel consumption rate estimated; BCBlueBook operator rate reduced to obtain a bare rate fo \$6.95 to match BlueBook rate
		3rd Party	\$16.56	\$21.70	\$38.25		Truck Driver 1	\$42.81	n/a	Off	15.07	22.6	30.06	\$107.70	\$46.60	\$16.56	\$25.85	\$8.90	\$9,79	Med. Fuel consumption from CostMine2015 (5,000gel water

5: Fuel consumption obtained from the Caterpillar Performance Handbook Version 42. 2 Al-Jound BC Blue Book rate excludes the fuel adjustment factor 3 Equipment weights from Caterpillar Performance Handbook Version 35; values of n/a means the equipment would be driven to site/towed by an pick-up.

					Total				Shipping	
			Equipment	Fuel Rate	Equipment	Number of		Operator	Weight	
	Misc. Equipment and Attachments	Unit	Rate (\$/Unit)	(\$/Unit)	Rate (\$/Unit)	Operators	Operator Type	Rate (\$/hr)	(tonnes)	Source
E.11.1	ATV (4 wheel)	month	\$1,500.25	\$20.00	\$1,520.25	0		\$0.00	0.3	BC Blue Book 2015-16; fuel rate estimated
E.11.2	Boomlift: 60' articulating	hr	\$25.00	\$2.00	\$27.00	0		\$0.00	10.0	United rental 2005; fuel rate estimated
	Soil auger (Truck mounted	hr	\$27.00	\$0.00	\$27.00	0		\$0.00	n/a	Estimated
	Bus: Passenger Bus (24 person cap.)	month	\$1,658.85	\$600.00	\$2,258.85	0		\$0.00	n/a	BC BlueBook 2015-16; fuel rate estimated
	Butt-fusion welding machine	hr	\$38.20	\$9.55	\$47.75	0		\$0.00	n/a	RSMeans2016; fuel rate estimated
	Cleaning Equipment - High pressure washer	hr	\$17.70	\$2.00	\$19.70	0		\$0.00	n/a	BC Blue Book 2015-16; fuel rate estimated, 2,000 gallons, includes 3 wands
	Crusher (200 Tons/hr)	hr	\$150.00	\$35.00	\$185.00	1	E. Operator 2	\$43.35	25.0	RSMeans 2005 (17 03 9902)
	Demolition shears (excavator attach.)	hr	\$150.00	\$0.00	\$150.00	0		\$0.00	7.0	Estimated; S390 (fits CAT 365-385)
E.11.9	Demolition grapples (excavator attach.)	hr	\$21.00	\$0.00	\$21.00	0		\$0.00	7.0	Estimated; G330 (fits CAT 345-365
	Emergency Transport Vehicle	Month	\$4,509.10	\$10.00	\$4,519.10	0		\$0.00	n/a	Rate: BCBlue Book 2015-16
	Helicopter	hr	\$1,500.00	\$100.00	\$1,600.00	1	Trade Labour	\$51.37	n/a	Estimated from past project (2006)
	Hydraulic hammer (excavator attachment)	hr	\$86.85	\$0.00	\$86.85	0		\$0.00	4.0	BC Blue Book 2015-16; 2,500hr energy class
	Hydraulic plate tamper (excavator attach.)	hr	\$13.45	\$0.00	\$13.45	0		\$0.00	3.0	BC Blue Book 2015-16; 454-680kg
E.11.14	Hydroseed Truck	hr	\$23.65	\$16.25	\$39.90	0		\$0.00	n/a	BC Blue Book 2015-16; 3,000gal water truck with highpressure spray nozzle
	Light towers	month	\$1,674.61	\$272.16	\$1,946.77	0		\$0.00	1.0	BC Blue Book 2015-16; telescopic trailor mounted, multi-vaor light (3kV); (fuel assumes used average 5 hrs per day)
E.11.16	Power mulcher, (20 ton/hr, 115 HP	hr	\$25.00	\$24.33	\$49.33	0		\$0.00	n/a	RSMeans 2016 (015433202860)
E.11.17	Pump: mud pump 6 in discharge	hr	\$14.94	\$2.00	\$16.94	0		\$0.00	n/a	BC Blue Book 2015-16; fuel rate estimated
E.11.18	Screener (finley 583) (~400tonnes/hr)	hr	\$183.00	\$40.00	\$223.00	1	E. Operator 2	\$43.35	75.0	Nova Scotia Road Builder Association, 2012, fuel rate estimated
	Spreader (for reveg appliction)	hr	\$6.15	\$0.00	\$6.15	0	-	\$0.00	n/a	BC Blue Book 2015-16; based on "hopper sander' for truck attachments
	Welding outfit (truck mounted) - 400 amps	hr	\$27.00	\$0.00	\$27.00	0		\$0.00	n/a	BC Blue Book 2015-16
E.11.21	XRF rental	month	\$1,200.00	\$0.00	\$1,200.00	0		\$0.00	n/a	Quote: Pine Environmental (2010)

Worksheet 14 - Material Rates and Indirect Cost Inputs

Project:	Minto Mine Closure Cost Estimate - RCP Rev. 2016-01
Project No.:	1CM002.045
Client:	Minto Explorations Ltd.
Date of Submission:	August 5, 2016
File Location:	\\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\Cost Estimate\



MATERIAL RATES

RS Means Adjustment Factors

RSMeans Source: RSMeans Online (2016 Q1) Notes: 1 All RSMeans 2016 material costs are in CAD and have been adjusted for location (Whitehorse). 2 As per note 1, a factor of 1.371 was applied to obtain a Yukon rate (compared to the US national average).

Cost					
Code		Unit Cost			Source
	Bitumen Geomembrane (BGM) Liner	\$17.86			Quote: Coletanche 2014, plus 15% shipment to site
	Concrete: elevated slabs	\$378.65		Includes forms, grade 60 rebar, concrete, pla	
	Erosion control mats (jute mesh), 4' wide	\$0.81			RSMeans2016 (312515160020), add 15% for shipment to site
	Fertilizer	\$1.10			Access (2014) Closure Plan
	Fertilizer tablets (for tree-planting)	\$0.08			Quote: Pickseed (Prince George), 2014; factor of 15% applied for shipment to site
M.06	Formwork: curb forms, wood, 12" high, on grade, 1 use	\$3.47	m2		RSMeans2016 (31113652000)
	Geosynthetic Clay Liner	\$10.35	m2		Quote: Nilex Vancouver 15% added for shipment to site
	Geotextile	\$2.12			Minto Quote: Layfield (2014) FOB Edmonton, 15% added for shipment to site
M.09	HDPE liner (60mil)	\$9.20			Minto Quote: Layfield (2014) FOB Edmonton, 15% added for shipment to site
M.10	HDPE pipe: 100mm	\$20.17	m	Butt fusion joints, 40'length, SDR 21	RSMeans2016 (33 11 13-350-100)
M.11	HDPE pipe: 150mm	\$56.25	m	Butt fusion joints, 40'length, SDR 21	RSMeans2016 (33 11 13-350-200)
M.12	HDPE pipe: 300mm	\$181.06	m		RSMeans2016 (33 11 13-350-500)
					Quote : Precon (2011) FOB Edmonton. Adjusted 15% for shipment, and 7% for inflation
	Intake Structure: precast concrete check structure (CS-1.0-20-OS)	\$30,763	each		to 2016 dollars
	Lab testing: Hydrocarbons	\$100	each		Estimated
M.15	Lab testing: SAL metals + pH (BC CSR package)	\$130	each		Quote: CARO 2014 for BC CSR package, \$30 allowance added for shipping
	Mulch (for hydroseeding)	\$1.00	kg		Quote: Pickseed (Prince George), 2014; factor of 15% applied for shipment to site
	Rebar (#6 bar)	\$3.30	m		RSMeans2016 (032111600400), (#6 bar = 1.5 lbs per foot)
M.18	Seed/Fertilizer Mix 1: Dry mix	\$15.80	kg		Pickseed (2015) onsite cost
M.19	Seed/Fertilizer Mix 2: Wet area mix	\$17.50	kg		Access (2014) Closure Plan
M.20	Signage: Open Pit Warning signs (incl. posts)	\$195.35	each		Includes concrete, post and sign
M.21	Signage: Large warning signs at entries (incl. posts)	\$586.06	each		Assumed to be 3 times open pit signs.
M.22	Silt Fencing (3ft high)	\$0.91	m		RSMeans2016 (31251416100), 15% added for shipment to site
M.23	Steel Beam: I-Beam W6x9	\$15.77	m		RSMeans2016
M.24	Steel decking (g-deck):	\$44.46	m2		RSMeans2016 (53133506700)
M.25	Steel Pipe: 6" dia.	\$112.90	m		RSMeans2016 (221316202200)
M.26	Tackifier (for hydroseeding)	\$3.62	kg		Quote: Pickseed (Prince George), 2014; factor of 15% applied for shipment to site
M.27	Wetland planting	\$1,136.50	ha		EPA, 1997. Costs for Wetland Creation and Restoration Projects in the Glaciated
					Northeast. Average cost adjusted up by 37% for location factor, 15% for shipping, 42%
					for inflation.
M.28	Tree seedlings	\$0.38	stem		Quote from a site in central BC in 2011; updated to 2016 dollars.

INDIRECT COSTS

Cost		Rate Used in			
Code	Category	Estimate	Unit		Source/Comments
I.01	Barge Operating Costs	\$10,000	month		
	Bonding	3.0%	%		Past Project (2014)
1.02	Camp Operation Costs	\$80	\$/day/person	includes catering and housekeeping	Estimated
1.03	Camp power and heating costs	\$6,500	month		Typical 2015 monthly cost between May and Sept 2015
1.04	Communications	\$1,000	month		Estimated
1.05	Contract Administration	5%	%	Of Direct and other indirect costs	
1.06	Contractor Profit	10%	%	Of Direct and other indirect costs	
	Contingency	12%	%		
1.09	Engineering, Design, and Construction Plans	5%	%		allowance
1.11	Flight - Whitehorse-Minto Return	\$3,000	ea		
I.13	Helicopter trip Carmacks-Minto Return	\$3,000	ea		Based on site costs, assumes 2 hrs helicoptor time.
I.15	Freight	0%	%	Included in material costs	
I.17	Insurance	1.5%	%	Of labour costs	
I.19	Laboratory/Material Testing	\$1,000	month		Estimated
1.21	Misc. Admin Supplies	\$500	month		Estimated
1.23	Office Supplies	\$1,000	month		Estimated

Worksheet 15 - Task Unit Rate Calculations Project: Minto Mine Closure Cost Estimate - RCP Rev. 2016-01 Project No.: 1CM002.045 Client: Minto Explorations Ltd. Date of Submission: August 5, 2016 File Location: \\VAN-SVR0\Projects\01_SITESWinto\1CM002.045_ClosureCosts\Cost Estimate\

Capstone → srk consulting

																Equipm	ent Fleet (Ind	luding Operato	ors)											
				Ra	tes				Productivity	Ex	cavators	Haul Trucks	Loader	Dozers	Compa s or	act Grader		Support Vel	nicles/Equipm	ent		Other		Labour			Material Deta	ils		
Cost		Total Unit	per Unit	Labor Cos Per Unit	t Equipmer Cost Per	r PerU	nit Un	Per hit Produ	ctivity Productivity/Crew/Fleet	Source	AT 385 AT 430E (4x4)	td Tandem aul Truck (10 AT 735	AT 950H	AT D6R AT D8R	AT D10T AT CP563	AT 16M	ydraulic rane, 30Ton oncrete ransit Mix	Biffkay, Line Tuck, with Biffale Platform envice/Flatbed	railer - 6 Axle (3 tonnes) ick-up Truck .5T) 4x4 errionitori	nears errounton rapples yorauntor ammer	vcavator quip Cost s/hr)	escription escription	nvironmental Ionitor	oreman eavy Equip. lechanic eavy Equip.	ervicer abourers rades abourer	amenter			Multiplier	
Code Item Demolition/Equipment Removal	Unit	Cost	(hrs/Unit)	(\$/Unit)	Unit (\$/Un	iit) (\$/UN	lit) (\$/U	init) (un	t/hr) (RSMeans line iter	1) 0	0 0	ω τ Ο	0	0 0	0 0 \$	500	TODE	HEH 4E OH		<u> </u>	<u></u>	L 0	<u></u> <u></u> <u></u> ≥	L IZI	<u>0 0</u>	gCost Code	item	Unit Rate Un	t (unit/unit)	Other Comments/Details
C.1.01 Concrete foundations: break in place C.1.02 Decontamination: Metal cleaning treatment, pressure washing	m2 tonne	\$14.22 \$3.90		\$2.3 \$2.4				\$0.00 3 \$0.00 13	7 RSMeans (02 41 6.17-040 94 RSMeans (050110516215		1.0									1.	0 \$17.70 \$2	.00 Cleaning Equipmer	nt - High pre	essure washer	1.0					Crew B13L Based on RSMeans productivity of 15,000ft2/day, assumes avg. thickness of 1cm
C.1.03 Decontamination: Concrete cleaning treatment, pressure washing	m2	\$0.47		\$0.3					6.13 RSMeans (050110516215												\$17.70 \$2	.00 Cleaning Equipmen	nt - High pre	essure washer	1.0					
C.1.04 Decontamination: General pressure washing C.1.05 Demolition: Structural, steel	hrs tonne	\$54.42 \$237.66	2.000		3 \$136.0	09 \$3	33.84 \$	\$0.00 5	00 n/a .0 Assumes average 50ton/s			1.0	1.0				1.0			1.0 1.	\$17.70 \$2 D	.00 Cleaning Equipmer	nt - High pre	essure washer 1.0	1.0 2.0					based on an average productivity for a XS4000 demolition shear (http://www.terrafirmaequipment.com/images/stories/virtuemart/product/s eries-ds-&-xs-shears.pdf)
C.1.06 Demolition: Structural, concrete	m3	\$94.77		\$15.5	5 \$62.6				58 Based on foundation demo	ition, assu 1.0	1.0									1.	D									Crew B13L
C.1.07 Demolition: selective misc. demolition (wood) C.1.08 Demolition: Small wooden buildings (non selective demo)	m3 m3	\$6.48 \$4.99	0.099	\$3.6					38 RSMeans (24119180500) 39 RSMeans (24116130700)	1.0															3.0 3.0					Crew B3. (loader sub'ed for an excavator) Crew B3. small wood buildings (loader sub'ed for an excavator)
C.1.09 Disconnect services	hrs	\$98.63		\$86.0					00 n/a	1.0									1.0						1.0 1.					Crew b3. small wood buildings (loader sub ed for an excavator)
C.1.10 Electrical demolition: remove conduits (incl. fittings/hangers)	km	\$3,564.68	68.957	\$2,579.5	7 \$733.2	22 \$25	51.90 \$	\$0.00 <mark>0</mark> .	20 Based in RSMeans (33713					1.0			0.4	0.2 1.0	2.0					1.0	4.0 4.	5				Based on RSMeans for conduit installation. Assumes 3 wires, dismantling is 50% more productive than installation
C.1.11 Electrical demolition: remove powerpoles	each	\$517.76	9.143	\$414.0	4 \$85.4	43 \$1	18.29 \$	\$0.00 <mark>0</mark> .	66 Based in RSMeans (33711	6335140)								1.0						1.0	2.0 2.					Based on RSMeans for 60' pole installation. Assumes dismantling is 50% more productive than installation
C.1.12 Electrical demolition: remove transformers	each	\$1,205.65	23.323	\$872.4	6 \$247.9	99 \$8	35.20	\$0.00 <mark>0</mark> .	58 Based in RSMeans (33732	3201200)				1.0			0.4	0.2 1.0	2.0					1.0	4.0 4.	0				Based on RSMeans for transformer installation. Assumes dismantling is 50% more productive than installation
C.1.13 Equipment removal: Small equip., dismantle, prep for transport	hrs	\$265.75		\$164.1			14.53 \$	\$0.00	1 n/a				1.0								\$25.00 \$2	.00 Boomlift			2.0 1.	0				
C.1.14 Equipment removal: Small equip., dismantle, prep for transport	hrs	\$453.18		\$263.7				\$0.00	1 n/a				1.0				1.0				\$25.00 \$2	.00 Boomlift			2.0 2.	0				
C.1.15 HDPE Liner: cut and fold C.1.16 HDPE pipe demolition - 0.75 to 4 inches (19-100 mm)	m2	\$0.69 \$5.03		\$0.4				\$0.00 4 \$0.00 2	 Assumes can be removed RSMeans2005 (02 41 13.) 															1.0	4.0					
C.1.17 HDPE pipe demolition - 6 to 8 inches (150-200 mm)	m	\$7.05		\$7.0				\$0.00 1	9 RSMeans2005 (02 41 13.															1.0	1.0 1.	<u></u>				
C.1.18 HDPE pipe demolition - 10 to 18 inches (250-450 mm)	m	\$11.75	0.262	\$11.7	5 \$0.0	00 \$	\$0.00	\$0.00	1 RSMeans2005 (02 41 13.3															1.0	1.0 1.	5				
C.1.19 HDPE pipe demolition - 20 to 36 inches (500-915 mm)	m	\$17.62	0.394	\$17.6	2 \$0.0	00 \$	\$0.00	\$0.00	3 RSMeans2005 (02 41 13.3)	8-1900)														1.0	1.0 1.)				
C.1.20 Modular Buildings: dismantle and load for transport	each	\$1,735.58		\$831.2				\$0.00 0.	33 Assumes 1 every 3 hours	1.0			1.0				1.0		0.5						2.0 1.					
C.1.21 Pipelines: flushing C.1.22 Reagents: Load for transport off-site	each hrs	\$199.11 \$279.90		\$199.1 \$155.5					.5 Assumes 2hrs to flush 1 lir	•			10						10					1.0	2.0)				No real basis to task, but cost is expected to be small and insignificant No real basis to task, but cost is expected to be small and insignificant
													1.0					0.3	1.0					1.0	1.0 1.					· · · · ·
	each each		26.400 13.200	\$1,178.2 \$589.1					1 Assumed 6hr duration 3 RSMeans2005 (16010639									0.3						1.0	1.0 1.	5				RSMEANS description: Remove pump to 200HP RSMEANS description: Remove pump to 200HP
Earthworks C.2.01 Bedding: Produce and stockpile	m3	\$3.46	0.020	\$0.9	4 \$2.0	08 \$	\$0.44 \$	\$0.00 1	48 Based on avg 400tonne/hr	screener			2.0								\$183.00 \$40	0.00 Screen Plant			1.	כ				Assumes avg. material density of 1,800 km/m3, 50min/hr, and 20%
C.2.02 Berm: Construct berm (locally sourced, no truck required)	m3	\$1.42	0.009	\$0.4	1 \$0.7	77 §	\$0.25	\$0.00 2	12 Factored productivity of C/	T 330 1.0				1.0																Berm shaped by excavator, dozer used to push suitable material to excavator
C.2.03 Clearing land: tree removal by dozer	m2	\$0.79		\$0.1					53 RSMeans2005(31 13 13.2					1.0																
C.2.04 Compact soil with vibratory plate (Hand): 15 cm lifts	Cm3	\$6.58		\$2.5					.96 RSMeans2005 (17-03-050							1.0									1.0					
C.2.05 Compact soil with roller on flat ground: 15 cm lifts, 4 passes C.2.06 Compact soil with roller on slopes: 15 cm lifts, 4 passes (one way)	m2 m2	\$0.08 \$0.20		\$0.0 \$0.1					0.54 RSMeans2016 (31232323 I.22 Based on flat ground, proc	040) uctivity adjusted	by factor o	of 0.4			1.0										0.5 0.5					RSMeans crew: B-10Y RSMeans crew: B-10Y
C.2.07 Compaction, placement of materials in landfill	m3	\$13.02		\$1.8					.47 RSMeans 241191880500						1.0															
C.2.08 Earthwork repair/maintenance fleet (post-closure)	hrs	\$438.56		\$128.9 \$172.3				\$0.00 \$0.00	1 n/a 1 n/a	1.0		2.0																		
C.2.08 Earthwork repair/maintenance fleet (perpetual maintenance) C.2.09 Erosion Control Mats (Jute mesh), Supply and install	hrs m2	\$583.12 \$1.54		\$172.3					28 RSMeans2016(31251416)	1.0		2.0		1.0				10							2.0	M 02 Erocion	n control mats (jute me	\$0.81 m2	2 1.0	
C.2.10 Mulch: tree chipping/mulch production	m3	\$10.87	0.113	\$4.3	9 \$4.6	65 \$	\$1.82 \$	\$0.00 3	5.5 Based on 20ton/hr mulche			0.5	1.0					1.0			\$25.00 \$24	4.33 Power Mulcher			2.0	W.03 ETOSION	n control mais (jute m	\$0.61 III2		Applied factors of .833 for job efficiency, and .75 for equipment availability/operator skill.
C.2.11 Regrading - Rough grading to provide drainage (small areas)	m2	\$2.07		\$0.4			\$0.35		00 Estimate					1.0																
C.2.12 Regrading - Rough grading to provide drainage - yards C.2.13 Regrading - Waste Rock Dumps (D10)	m2 hrs	\$0.41 \$305.46		\$0.0 \$43.3	9 \$0.2 5 \$195.1				00 Estimate I n/a					1.0	1.0															Check that the dozer model matches that used on resloping worksheet
C.2.14 Rip-Rap (rounded, low quality): Screen and Stockpile	m3	\$7.30	0.000	\$1.7	3 \$4.2	26 \$	\$1.30 \$	\$0.00	0 Based on 75% productivity	of CAT 33 1.0				1.0																
C.2.15 Rip-Rap (angular, high quality): Screen and Stockpile	m3	\$10.43	0.000	\$2.4	8 \$6.0	09 \$		\$0.00	5 Based on 50% productivity	of CAT 33 1.0				1.0																
C.2.16 Scarification: roads, yards, etc.	m2	\$0.11		\$0.0					77 RSMeans2016(32 91 13-2							1.)													
C.2.17 Silt fencing: Supply, Install, and remove	m 2	\$6.43 \$1.28		\$3.1					0 RSMeans2016 (31251413 125 RSMeans2013 (31 22 16.1		1.0	J				1.0)							0.5	2.0 2.0	M.22 Silt Fen	ncing (3ft high)	\$0.91 m	1.0	PSMoone - Fine/finish grading band grading for slob or and
C.2.18 Surface preparation for liner C.2.19 Underground plug placement with small dozer	m2 hrs	\$1.28 \$144.56	0.034	\$1.2 \$43.3					125 RSMeans2013 (31 22 16. 1 n/a	u-1150)				1.0										0.0	2.0					RSMeans = Fine/finish grading, hand grading for slab on grade
Environmental Monitoring/Investigations																														
C.3.01 Contaminated soil investigation test pits C.3.02 Contaminated soil confirmation testing	ea ea	\$288.14 \$21.52	0.500 0.167	\$21.7 \$7.2			\$2.92 \$26 \$0.00 \$1		4 4 per hour 6 per hour		1.0										\$7.50	XRF rental	1.0 1.0			M.15 Lab tes M.15 Lab tes	sting: SAL metals + pH sting: SAL metals + pH	\$130.00 ead \$130.00 ead	h 2.0 sh 0.1	Assumes on-site testing using XRF, and 1 out of every 10 samples submitted for laboratory analysis
C.3.03 HC soil test pits	ea	\$228.14		\$21.7				00.00	4 per hour		1.0	D											1.0			M.14 Lab tes	sting: Hydrocarbons	\$100.00 ead	<i>z</i> h 2.0	
	event	\$2,241.95	22.500	\$976.5	8 \$931.7	77 \$33	33.60	\$0.00	 Assumed 10 hours per event 	nt (incl. md 1.0									0.3				1.0							
C.3.04 Aerate soils in landfarm C.3.05 Landfarm confirmation testing	vr		16.000		5 \$111.6		93.31 \$1,20		25 Assumed 8 hours for same														10							Costs exclude reporting

															=	Equipment	t Fleet (Inclu	uding Opera	tors)		<u> </u>														
				Rate	s				Productivity	Excava	Ha tors Tru	ul cks Load	ier Do:	zers	Compact or 0	Grader		Support V	ehicles/Eq	uipment			Othe	r		La	abour			N	laterial Det	ails			
Cost Code Item		al Unit p		Per Unit	Equipment Cost Per Unit (\$/Unit)		Material Cost Per Unit (\$/Unit)	Productivi (unit/hr)		CAT 330 CAT 385	CAT430E (4x4) Std Tandem Haul Truck (10	CAT 735 CAT 950H	CAT D6R	CAT D10T	CAT CP563 Walk-behind vibrating (30 in)	CAT 140M CAT 16M	Hydraulic Crane, 30Ton Concrete Transit Mix Truck	rignway, Line Truck, with Agrial Platform Service/Flatbed	Lowbed Thaciðr Trailer - 6 Axle (33 tnnnes) Pick-up Truck	(1.5T) 4x4 Demonstron shears Cercovator Demonles	grappics Hydrauator hammer fexcavator	Equip Cost (\$/hr)	Fuel Cost (\$/hr)	Description	Environmental Monitor	Foreman Heavy Equip. Mechanic	Heavy Equip.	Labourers 1 rades Labourer	Cost Code	Item	1	Unit Rate		ultiplier nit/unit) Ot	ther Comments/Details
Groundwater / Piping																																			
C.4.01 HDPE pipe: 100mm; supplied and installed		\$38.49		\$13.93					RSMeans2016 (33 11 13-350-100)									1.0				\$47.75		tt fusion machine		1.0		2.0 1.0		DPE pipe: 100		\$20.17 m			rew B-22A
C.4.02 HDPE pipe: 150mm; supplied and installed			0.345	\$14.66														1.0				\$47.75		tt fusion machine		1.0		2.0 1.0		DPE pipe: 150		\$56.25 m			rew B-22A
C.4.05 HDPE pipe: 300mm, perforated			0.505	\$21.43														1.0				\$47.75		tt fusion machine		1.0		2.0 1.0	M.12 H	DPE pipe: 300	mm	\$181.06 m	1	1.0 Cr	rew B-22A
C.4.11 Pump water: small 2" centrifugal pump (100GPM) (small head)	m3		0.002	\$0.08					100 gallons per minute															all 2" pump				0.1							
C.4.12 Pump water: large 6" mud pump	m3 br	\$0.07 \$20.41	0.000	\$0.01 \$3.47					1200 gallons per minute													\$14.94 \$ \$14.94 \$						0.1 0.1							
C.4.13 Pump water: operate large 6" mud pump									n/a											_						10								-	Provide Lancourse
C.4.14 Pump water: Set-up pumps hoses, etc.	nr	\$147.11	4.000	\$117.62	\$22.69	\$6.8	0 \$0.0	1	n/a										1.	0		\$14.94 \$	\$2.00 61	nua Pump	-	1.0		2.0						ES	stimated crew
Materials		£00.00	0.047	£4.00	£0.00	eo o	0 0470	405.5		10																		20 42	N.01 D		mbasas (D)	¢47.00	-2		a de la faite annuel des CDK an a 2015 annuel a traite
C.5.01 BGM Liner: Supplied and Installed C.5.07 Geotextile: Supply and Install (large areas, no seaming)	m2 m2	\$20.82 \$2.77		\$1.88 \$0.53					SRK measured productivity (2015) Assumed 2x value below (assumes		10														-			3.0 1.0 2.0	M.01 B M.08 G	itumen Geome	morane (BC	3 \$17.86 m \$2.12 m		1.0 Pr	roductivity measured by SRK on a 2015 cover installation project
C.5.07 Geotextile: Supply and Install (large areas, no seaming) C.5.08 Geotextile: Supply and Install (channels)	m2 m2		0.014	\$0.53 \$1.07																								2.0		eotextile		\$2.12 m \$2.12 m		1.0	
C.5.09 Geosynthetic Clay Liner: Supplied & Installed	m2 m2		0.028	\$1.07					Estimated from a 2014 quote for a c																			3.0 1.0		eosynthetic Cl	aulinor	\$2.12 m \$10.35 m		1.0	
C.5.10 HDPE liner (60mil): Supplied & Installed (large areas)			0.033	\$1.33					Productivity adjusted to match BGM		1.0																	3.0 1.0		DPE liner (60n		\$10.35 m \$9.20 m		1.0	
C.5.11 HDPE liner: Supplied & Installed (channels)			0.116	\$4.63					RSMeans2016(33-47-13.53-1100)		1.0																	3.0 1.0		DPE liner (60n		\$9.20 m		1.0	
C.5.12 Intake structure: Supply and Installe (channels)		0,872.31		\$5,808					SRK measured productivity (2011) (2 days)	1.0	10					10					\$25.00 \$	\$2.00	Boomlift				3.0 1.0				r \$30,763 e		1.0 Tw	vo days installation
C.5.13 Signage: Open Pit warning signs		\$249.86		\$39.33			7 \$195.3				1.0							2.0				\$27.00	A	uger attachment		1.0		1.0				s \$195.35 e		1.0 8 f	foot galvanized steel post set in concrete with a 18"x24" reflective arning sign
C.5.14 Signage: Large signs at main entrance	each S	\$640.56	0.928	\$39.33	\$9.61	\$5.5	7 \$586.0	5 4.3	RSMeans2016(32-31-13.30-6600)									2.0				\$27.00	A	uger attachment		1.0		1.0	M.21 S	ignage: Large	warning sigr	n \$586.06 e	ach 1	1.0 8 f	foot galvanized steel post set in concrete with a 18"x24" reflective arning sign
Revegetation																																			
C.6.01 Seeding/Fertilizing: Tractor Application, Dry seed mix	ha \$2	2,621.52	33.126	\$1,005.46	\$397.11	\$232.9	4 \$986.0	0.060375	RSMeans2016 (32 92 19-14-0100)		1.0								0	5		\$6.15	Spi	eader				0.5		eed Mix #1		\$986.00 h	ia '	1.0 Se	ee 'SeedMix' worksheet for seed mix details and application rates
C.6.02 Seeding/Fertilizing: Tractor Application, Wet seed mix	ha \$2	2,621.52	33.126	\$1,005.46	\$397.11	\$232.9	4 \$986.0	0.060375	5 RSMeans2016 (32 92 19-14-0100)		1.0								0	5		\$6.15	Spi	eader				0.5	n/a S	eed Mix #2		\$986.00 h	a '	1.0 Sr	ee 'SeedMix' worksheet for seed mix details and application rates
C.6.03 Seeding/Fertilizing: Hydroseeding Application, Dry seed mix	ha \$4	4,610.95	32.292	\$1,213.93	\$507.18	\$129.1	7 \$2,760.6	0.0929	RSMeans2016 (32 92 19.14-0200)									1.0				\$39.90	Wa	ter truck w/ nozz	е			2.0	n/a S	eed Mix #3		\$2,760.68 h	ia ′	1.0 Se	ee 'SeedMix' worksheet for seed mix details and application rates
C.6.04 Seeding/Fertilizing: Hydroseeding Application, Wet Area mix		4,610.95		\$1,213.93		\$129.1	7 \$2,760.6	0.0929	RSMeans2016 (32 92 19.14-0200)									1.0			1	\$39.90	Wa	ter truck w/ nozz	е			2.0		eed Mix #4		\$2,760.68 h		1.0 Se	ee 'SeedMix' worksheet for seed mix details and application rates
C.6.05 Wetland planting: by hand			43.750	\$1,409.72			0 \$1,136.5											1.0	0	5								2.0		etland planting		\$1,136.50 h		1.0	
C.6.06 Tree planting (1,000 stems/ha)	ha \$2	2,274.47	51.250	\$1,789.95	\$9.02	\$15.0	0 \$460.5	0.16	8 planters, 8hrs/day. WorkSafeBC:	avg. tree pla	inter plants 1,	600 stems/c	Jay					0.2										8.0	n/a T	ree planting #1		\$460.50 h	a 1	A	se 'SeedMix' worksheet for seed mix details and application rates pickup truck and 0.2 time for support flatbed truck added to move aterials around site
Transportation																																			
C.7.01 Misc. On-site Mobilization/Demobilization		\$249.97		\$86.16						1.0									1.0																
C.7.02 Off-site disposal to Whitehorse in 6-Axle Semi-Trailer (by weight)		\$38.28		\$17.15					Assumes 80% capacity/7 hr travel/o			0.1							1.0						-										
C.7.03 Off-site Debris disposal to Whitehorse in 6-Axle Semi-Trailer (by volume)		\$25.58		\$11.46					Assumes 80% capacity/7 hr travel/o	fload time		0.1							1.0																
C.7.04 Off-site disposal to Whitehorse in 6-Axle Semi-Trailer (by trip) C.7.05 Off-site disposal to Whitehorse in 8-Axle Semi-Trailer (by weight)		\$765.52 \$23.16		\$343.01 \$9.03					Assumes 7 hr travel/offload time	Manual Alima		0.1							1.0			050 45	44.40 0	axle lowboy traile	-		1.0								
C.7.05 Off-site disposal to Whitehorse in 8-Axle Semi-Trailer (by weight) C.7.06 Off-site Debris disposal to Whitehorse in 8-Axle Semi-Trailer (by volume)		\$23.16 \$15.48		\$9.03					Assumes 80% capacity/7 hr travel/o Assumes 80% capacity/7 hr travel/o			0.1												axle lowboy traile axle lowboy traile			1.0								
C.7.07 Off-site disposal to Whitehorse in 8-Axle Semi-Trailer (by volume) C.7.07 Off-site disposal to Whitehorse in 8-Axle Semi-Trailer (by trip)		\$889.33			\$429.22				Assumes 7 hr travel/offload time			0.1												axle lowboy traile			1.0								
Underground Opening Seals							_																												
C.8.01 Excavate to competent soils around perimeter and clean (pressure wash)	m3 \$	\$104.73	2.000	\$82.07	\$15.83	\$6.8	3 \$0.0	2	Assumed		1.0											\$17.70 \$	\$2.00 qui	ment - High pres	sure wa	sher		2.0 1.0							
C.8.02 Structural I-Beams: supply and install	m	\$86.97	1.225	\$49.04			5 \$15.7	5.7	RSMeans 51223750100 (see notes)	1.0									1.	0						1.0		1.0 3.0	M.23 S	teel Beam: I-B	eam W6x9	\$15.77 m	1 1		roductivity was reduced by 75% to account for dangerous condition: nd small job
C.8.03 Formwork: concrete ringwall	m2 \$	\$305.97	6.408	\$302.50	\$0.00	\$0.0	0 \$3.4	0.6	RSMeans 31113652000 (see notes)																			1.0 3.0	M.06 F	ormwork: curb	forms, woo	d \$3.47 m	12 1	1.0 Pr	oductivity was reduced by 75% to account for dangerous conditions d small iob
C.8.04 Steel decking (q-deck): supply and install	m2	\$86.38	0.574	\$28.42	\$10.65	\$2.8	5 \$44.4	5 10.5	RSMeans 53133506700	1.0												\$27.00	\$0.00 utfit	(truck mounted)	- 400 an	1.0		4.0	M.24 S	teel decking (q	-deck):	\$44.46 m	12 1	1.0 Pr	roductivity was reduced by 75% to account for dangerous conditions d small job
C.8.05 Rebar: supplied and installed	m	\$4.55	0.024	\$1.24	\$0.00	\$0.0	0 \$3.3	165	RSMeans 32111600400 (see notes)																			4.0	M.17 R	ebar (#6 bar)		\$3.30 m	n '		6 rebar assumed (1.5 lbs per ft.)
C.8.06 Concrete: Supply and install elevated slab (incl. formwork, rebar)	m3 \$	\$714.72		\$321.82			0 \$378.6		RSMeans 33053401900								1.0					\$10.00 \$	\$2.00	as Eng. Vibrator		1.0		8.0 16.0		oncrete: eleval	ted slabs	\$378.65 m		1.0	
C.8.07 Vent raise: supply and install		\$468.95		\$17.36			0 \$451.5		assumed																			1.0		teel Pipe: 6" di		\$112.90 m		4.0	

Unit Pato Summar

Worksheet 16 - Relocation Unit Rates Project: Minto Mine Closure Cost Estimate - RCP Rev. 2016-01 Project No.: 1CM002.045 Client: Minto Explorations Ltd. Date of Submission: August 5, 2016 File Location: \\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\Cost Estimate\

								U	nit Rate S	ummary						F	Fleet		
					0			Labor	Equipme			Tetel Dist	A						
0					Costed	Total Unit	Manhours	Rate	nt Rate	Fuel Rate	Productivity	Total Dist.	Avg.			Man. 4 -4	# = 6		
Cost	0	Destination	A - 41 - 141	Material	Volume					_		(1-way)	Grade	European	Taugh Elast	Max. # of	# of	Dense Oine	0
Code	Source	Destination	Activities	Material	Unit	Rate (\$/m3)	(hrs/m ³)	(\$/m ³)	(\$/m ³)	(\$/m ³)	(m ³ /hr)	(km)	(%)	Excavator	Truck Fleet	Trucks	Dozers	Dozer Size	Compaction?
R.001	Misc. 1km flat haul w/ Articulated		Load, haul, dump, spread	Earth, moist	CCM	\$4.96	0.03	\$1.36	\$2.70	\$0.90	159	1.0	0.0%	CAT 330	CAT 735	5	1	CAT D8R	No
R.002	Misc. 1km flat haul w/ Articulated	Trucks w/ compaction	Load, haul, dump, spread, compact	Earth, moist	CCM	\$5.46	0.04	\$1.57	\$2.89	\$0.99	159	1.0	0.0%	CAT 330	CAT 735	5	1	CAT D8R	Yes
R.003	Misc. 1km flat haul w/ Large Fleet		Load, haul, dump, spread	Earth, moist	CCM	\$2.41	0.01	\$0.50	\$1.34	\$0.57	516	1.0	0.0%	CAT 385	CAT 773G	5	1	CAT D8R	No
R.004	Misc. 1km flat haul w/ Large Fleet		Load, haul, dump, spread	Earth, moist	CCM	\$2.41	0.01	\$0.50	\$1.34	\$0.57	516	1.0	0.0%	CAT 385	CAT 773G	5	1	CAT D8R	No
R.005	Airport Laydown	Solid Waste Landfill	Load, haul, dump	Demo Debris	LCM	\$5.81	0.04	\$1.72	\$3.01	\$1.08	100	2.4	3.2%	CAT 330	CAT 735	5	0	CAT D8R	No
R.006	Airstrip Area	Solid Waste Landfill	Load, haul, dump	Demo Debris	LCM	\$4.92	0.03	\$1.45	\$2.56	\$0.92	89	1.0	0.0%	CAT 330	CAT 735	5	0	CAT D8R	No
R.007	Camp Area	Solid Waste Landfill	Load, haul, dump	Demo Debris	LCM	\$6.56	0.05	\$1.95	\$3.40	\$1.22	88	3.1	2.7%	CAT 330	CAT 735	5	0	CAT D8R	No
R.008	Dyno Compound	Solid Waste Landfill	Load, haul, dump	Demo Debris	LCM	\$7.65	0.05	\$2.27	\$3.96	\$1.42	76	5.5	-0.5%	CAT 330	CAT 735	5	0	CAT D8R	No
R.009	Fuel Farm Area	Solid Waste Landfill	Load, haul, dump	Demo Debris	LCM	\$7.63	0.05	\$2.26	\$3.95	\$1.41	76	3.6	2.3%	CAT 330	CAT 735	5	0	CAT D8R	No
R.010	Fuel Farm Area	Landfarm	Load, haul, dump	Earth, moist	CCM	\$7.07	0.05	\$2.12	\$3.65	\$1.31	122	3.6	2.3%	CAT 330	CAT 735	5	0	CAT D8R	No
R.011	IROD Laydown	SWD-High Grade Waste	Load, haul, dump, spread, compact	Sand, dry	CCM	\$2.80	0.01	\$0.61	\$1.56	\$0.63	547	1.6	-0.8%	CAT 385	CAT 773G	5	2	CAT D8R	Yes
R.012	Main Waste Dump Extension	Main Pit Access Point	Load, haul, dump, place	Rip-rap (Minto)	CCM	\$4.45	0.03	\$1.22	\$2.42	\$0.81	177	1.8	-6.0%	CAT 330	CAT 735	5	1	CAT D8R	No
R.013	Main Waste Dump Extension	Area 2 Pit Access point	Load, haul, dump, place	Rip-rap (Minto)	CCM	\$4.26	0.03	\$1.17	\$2.32	\$0.77	184	1.6	-6.0%	CAT 330	CAT 735	5	1	CAT D8R	No
R.014	Main Waste Dump Extension	Area 118 Pit Access Point	Load, haul, dump, place	Rip-rap (Minto)	CCM	\$5.96	0.04	\$1.66	\$3.22	\$1.08	156	3.2	-1.4%	CAT 330	CAT 735	5	1	CAT D8R	No
R.015	Main Waste Dump Extension	W15/Main Pit Channel	Load, haul, dump	Rip-rap (Minto)	CCM	\$4.17	0.03	\$1.14	\$2.27	\$0.76	189	1.2	-10.0%	CAT 330	CAT 735	5	1	CAT D8R	No
R.016	Main Waste Dump Extension	W15/Main Pit Channel	Load, haul, dump, place	Sand & gravel, dry	CCM	\$6.15	0.04	\$1.60	\$3.45	\$1.10	162	1.2	-10.0%	CAT 330	CAT 735	5	2	CAT D8R	No
R.017	Main Waste Dump Extension	Ditch B1 (W35 to Mill area)	Load, haul, dump	Rip-rap (Minto)	CCM	\$4.70	0.03	\$1.28	\$2.56	\$0.85	168	2.0	-4.8%	CAT 330	CAT 735	5	1	CAT D8R	No
R.018	Main Waste Dump Extension	Ditch B1 (W35 to Mill area)	Load, haul, dump, place	Sand & gravel, dry	CCM	\$7.00	0.04	\$1.82	\$3.93	\$1.25	142	2.0	-4.8%	CAT 330	CAT 735	5	2	CAT D8R	No
R.019	Main Waste Dump Extension	Mill Area	Load, haul, dump	Rip-rap (Minto)	CCM	\$5.41	0.04	\$1.51	\$2.92	\$0.98	171	2.1	-5.3%	CAT 330	CAT 735	5	1	CAT D8R	No
R.020	Main Waste Dump Extension	Mill Area	Load, haul, dump, place	Sand & gravel, dry	CCM	\$7.97	0.05	\$2.12	\$4.42	\$1.43	142	2.1	-5.3%	CAT 330	CAT 735	5	2	CAT D8R	No
R.021	Main Waste Dump Extension	MVFE2 (by access road)	Load, haul, dump	Rip-rap (Minto)	CCM	\$6.36	0.04	\$1.77	\$3.43	\$1.16	146	2.5	-4.9%	CAT 330	CAT 735	5	1	CAT D8R	No
R.022	Main Waste Dump Extension	MVFE2 (by access road)	Load, haul, dump, place	Sand & gravel, dry	CCM	\$8.48	0.05	\$2.29	\$4.67	\$1.53	150	2.5	-4.9%	CAT 330	CAT 735	5	2	CAT D8R	No
R.023	Main Waste Dump Extension	MVFE2 Toe area	Load, haul, dump	Rip-rap (Minto)	CCM	\$6.43	0.04	\$1.81	\$3.45	\$1.17	166	2.9	-5.0%	CAT 330	CAT 735	5	1	CAT D8R	No
R.024	Main Waste Dump Extension	MVFE2 Toe area	Load, haul, dump, place	Sand & gravel, dry	CCM	\$9.36	0.06	\$2.53	\$5.15	\$1.69	136	2.9	-5.0%	CAT 330	CAT 735	5	2	CAT D8R	No
R.025	Main Waste Dump Extension	Main Waste Dump	Load, haul, dump	Rip-rap (Minto)	CCM	\$4.01	0.02	\$1.07	\$2.21	\$0.72	161	0.4	-6.0%	CAT 330	CAT 735	5	1	CAT D8R	No
R.026	Main Waste Dump Extension	Main Waste Dump	Load, haul, dump	Sand & gravel, dry	CCM	\$4.56	0.03	\$1.22	\$2.52	\$0.82	142	0.4	-6.0%	CAT 330	CAT 735	5	1	CAT D8R	No
R.027	Main Waste Dump Extension	Southwest Dump	Load, haul, dump	Rip-rap (Minto)	CCM	\$5.17	0.03	\$1.41	\$2.82	\$0.94	152	2.0	-3.5%	CAT 330	CAT 735	5	1	CAT D8R	No
R.028	Main Waste Dump Extension	Southwest Dump	Load, haul, dump	Sand & gravel, dry	CCM	\$5.43	0.04	\$1.51	\$2.93	\$0.99	171	2.0	-3.5%	CAT 330	CAT 735	5	1	CAT D8R	No
R.029	Main Waste Dump Extension	Reclamation OVB Dump	Load, haul, dump	Rip-rap (Minto)	CCM	\$4.95	0.03	\$1.35	\$2.70	\$0.90	159	1.3	1.0%	CAT 330	CAT 735	5	1	CAT D8R	No
R.030	Main Waste Dump Extension	Reclamation OVB Dump	Load, haul, dump, place	Sand & gravel, dry	CCM	\$5.86	0.04	\$1.60	\$3.20	\$1.06	134	1.3	1.0%	CAT 330	CAT 735	5	1	CAT D8R	No
R.031	Main Waste Dump Extension	Tailings Diversion Ditch	Load, haul, dump	Rip-rap (Minto)	CCM	\$7.16	0.05	\$2.02	\$3.84	\$1.30	149	3.3	-4.8%	CAT 330	CAT 735	5	1	CAT D8R	No
R.032	MWD Low Grade Stockpile	Main Pit	Load, haul, dump, spread	Waste Rock (Minto	CCM	\$2.62	0.01	\$0.54	\$1.46	\$0.62	474	1.9	-5.4%	CAT 385	CAT 773G	5	1	CAT D8R	No
R.033	Mill Area	Solid Waste Landfill	Load, haul, dump	Demo Debris	LCM	\$6.17	0.04	\$1.83	\$3.20	\$1.14	94	3.0	3.1%	CAT 330	CAT 735	5	0	CAT D8R	No
R.034	Mill Area	Landfarm	Load, haul, dump	Waste Rock (Minto	CCM	\$5.16	0.04	\$1.54	\$2.67	\$0.96	139	3.0	3.1%	CAT 330	CAT 735	5	0	CAT D8R	No
R.035	Mill Area	Minto South Portal	Load, haul, dump	Waste Rock (Minto	CCM	\$5.45	0.03	\$1.49	\$2.97	\$0.99	144	1.6	3.8%	CAT 330	CAT 735	5	1	CAT D8R	No
R.036	Mill Pond	Main Pit	Load, haul, dump	Sand, wet	CCM	\$3.04	0.02	\$0.89	\$1.58	\$0.56	144	0.4	5.0%	CAT 330	CAT 735	5	0	CAT D8R	No
R.037	Minto North	MVFE Stage 2	Load, haul, dump, spread	Waste Rock (Minto	CCM	\$4.50	0.02	\$0.95	\$2.52	\$1.04	364	4.1	-3.1%	CAT 385	CAT 773G	5	2	CAT D8R	No
R.038	Minto South Portal	Solid Waste Landfill	Load, haul, dump	Demo Debris	LCM	\$6.54	0.05	\$1.94	\$3.39	\$1.21	88	3.2	0.3%	CAT 330	CAT 735	5	0	CAT D8R	No
R.039	Ore Stockpile Area (Mill)	Main Pit	Load, haul, dump, spread	Waste Rock (Minto	CCM	\$2.48	0.01	\$0.51	\$1.40	\$0.57	425	1.1	1.5%	CAT 385	CAT 773G	5	1	CAT D8R	No
R.040	Pelly Lavdown	Solid Waste Landfill	Load, haul, dump	Demo Debris	LCM	\$6.69	0.05	\$1.98	\$3.46	\$1.24	87	4.3	-0.7%	CAT 330	CAT 735	5	0	CAT D8R	No
R.041	Reclamation Ovb. Dump	Camp Area	Load, haul, dump, spread	Earth, moist	CCM	\$3.94	0.02	\$0.83	\$2.20	\$0.91	416	2.9	-4.3%	CAT 385	CAT 773G	5	2	CAT D8R	No
R.042	Reclamation Ovb. Dump	Camp Area	Load, haul, dump	Earth, moist	CCM	\$3.44	0.02	\$0.72	\$1.89	\$0.82	416	2.9	-4.3%	CAT 385	CAT 773G	5	1	CAT D8R	No
R.043	Reclamation Ovb. Dump	DSTSF	Load, haul, dump, spread	Earth, moist	CCM	\$3.98	0.02	\$0.84	\$2.23	\$0.91	412	3.1	-4.2%	CAT 385	CAT 773G	5	2	CAT D8R	No
R.044	Reclamation Ovb. Dump	Fuel Storage Area	Load, haul, dump, spread	Earth, moist	CCM	\$3.99	0.02	\$0.84	\$2.23	\$0.92	411	2.7	-3.7%	CAT 385	CAT 773G	5	2	CAT D8R	No
R.045	Reclamation Ovb. Dump	Main Dump	Load, haul, dump, spread	Earth, moist	CCM	\$3.82	0.02	\$0.80	\$2.14	\$0.88	429	1.5	2.0%	CAT 385	CAT 773G	5	2	CAT D8R	No
R.046	Reclamation Ovb. Dump	Main Dump	Load, haul, dump	Earth, moist	CCM	\$3.34	0.02	\$0.70	\$1.84	\$0.80	429	1.5	2.0%	CAT 385	CAT 773G	5	1	CAT D8R	No
R.047	Reclamation Ovb. Dump	Main Pit Dump	Load, haul, dump, spread	Earth, moist	CCM	\$3.35	0.02	\$0.70	\$1.90	\$0.76	433	1.7	-5.5%	CAT 385	CAT 773G	5	2	CAT D8R	No
R.048	Reclamation Ovb. Dump	Main Pit Dump	Load, haul, dump, spread	Earth, moist	CCM	\$2.87	0.02	\$0.60	\$1.60	\$0.68	433	1.7	-5.5%	CAT 385	CAT 773G	5	Ĩ	CAT D8R	No
R.049	Reclamation Ovb. Dump	Mill Area	Load, haul, dump, spread	Earth, moist	CCM	\$3.72	0.02	\$0.78	\$2.08	\$0.86	441	2.7	-4.8%	CAT 385	CAT 773G	5	2	CAT D8R	No
R.050	Reclamation Ovb. Dump	MVFE Stage 1 and 2	Load, haul, dump, spread	Earth, moist	CCM	\$4.17	0.02	\$0.88	\$2.34	\$0.96	393	3.4	-3.8%	CAT 385	CAT 773G	5	2	CAT D8R	No
R.051	Reclamation Ovb. Dump	MVFE Stage 1 and 2	Load, haul, dump, spread	Earth, moist	CCM	\$3.64	0.02	\$0.77	\$2.01	\$0.87	393	3.4	-3.8%	CAT 385	CAT 773G	5	1	CAT D8R	No
R.052	Reclamation Ovb. Dump	Pelly Lavdown	Load, haul, dump, spread	Earth, moist	CCM	\$3.05	0.02	\$0.63	\$1.73	\$0.69	475	1.4	-4.5%	CAT 385	CAT 773G	5	2	CAT D8R	No
R 053	Reclamation Ovb. Dump	Southwest Dump	Load, haul, dump, spread	Earth, moist	CCM	\$3.61	0.02	\$0.03	\$2.04	\$0.82	402	1.4	0.2%	CAT 385	CAT 773G	5	2	CAT DOR	No
R.054	Reclamation Ovb. Dump	SWD-High Grade Waste	Load, haul, dump, spread	Earth, moist	CCM	\$3.43	0.02	\$0.73	\$1.94	\$0.78	402	1.9	-0.8%	CAT 385	CAT 773G	5	2	CAT DOR	No
R.055	Reclamation Ovb. Dump	SWD-High Grade Waste	Load, haul, dump, spread	Earth, moist	CCM	\$2.87	0.02	\$0.60	\$1.60	\$0.78	423	2.0	-0.8%	CAT 385	CAT 773G	5	1	CAT D8R	No
R.055	Reclamation Ovb. Dump	W15 Sump Area	Load, haul, dump, spread	Earth, moist	CCM	\$2.87 \$3.15	0.01	\$0.65	\$1.60	\$0.68	433	2.0	-1.0%	CAT 385 CAT 385	CAT 773G	5	2	CAT D8R	No
R.056						\$3.15	0.02	\$0.65	\$1.78	\$0.71	358	4.1	-4.8%				2		
R.057	Reclamation Ovb. Dump Reclamation Ovb. Dump	Tailings Diversion Ditch Tailings Diversion Ditch	Load, haul, dump, spread	Earth, moist Earth, moist	CCM CCM	\$4.57	0.02	\$0.96	\$2.56	\$1.05	358	4.1	-3.2%	CAT 385 CAT 385	CAT 773G CAT 773G	5	4	CAT D8R CAT D8R	No No
R.058		Solid Waste Landfill	Load, naul, dump Load, haul, dump	Demo Debris	LCM	\$3.99	0.02	\$0.84	\$2.20	\$0.95	358	4.1	-3.2%	CAT 385 CAT 330	CAT 773G	5	0	CAT D8R CAT D8R	No
R.009	W15 Sump		Luau, naul, uump	Demo Debris	LOW	\$0.20	0.04	\$1.00	φ <u>3.</u> 24	\$1.10	93	3.1	1.170	GMT 330	041730	3	v	CALDOR	UVI
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Ccapstone



						Unit Rate S	ummary				l	nputs		
Cost Code	Description	Material	Costed Volume Unit	Total Unit Rate (\$/m ³)	Manhours (hrs/m ³)	Labor Rate (\$/m ³)	Equipme nt Rate (\$/m ³)	Fuel Rate (\$/m ³)	- '	Excavator	# of Dozers	Dozer Size	Job Condition	Source, Comments/Notes
		Waste Rock (Minto	BCM	\$0.93	0.00	\$0.14	\$0.58	\$0.20	305	CAT 385	0	CAT D8R		
R.902	Channel excavation, small excavator, dozer used to spoil locally	Earth, moist	BCM	\$2.62	0.02	\$0.75	\$1.41	\$0.46	115	CAT 330	1	CAT D6R		Below average conditions used to account for channel shaping
R.903	Channel excavation in steep areas, small excavator, dozer used to spoil locally	Earth, moist	BCM	\$2.98	0.02	\$0.86	\$1.60	\$0.52	101	CAT 330	1	CAT D6R		Severe conditions used to account for channel shaping, difficult access
R.904	Channel rip-rap placement	Rip-rap (Minto)	ССМ	\$1.71	0.01	\$0.47	\$0.92	\$0.32	92	CAT 330	0	CAT D6R		Below average conditions used to account for channel shaping/placement
R.905	Channel rip-rap placement in difficult access areas	Rip-rap (Minto)	ССМ	\$3.73	0.02	\$1.07	\$2.00	\$0.65	81	CAT 330	1	CAT D6R		Severe conditions used to account for channel shaping/placement, dozer added to help
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Notes:

Worksheet 17 - Area Calculations for Covers and Revegetation

Project:	Minto Mine Closure Cost Estimate - RCP Rev. 2016-01
Project No.:	1CM002.045
Client:	Minto Explorations Ltd.
Date of Submission:	August 5, 2016
File Location:	\\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\Cost Estimate\

References (dwgs/plans) \\\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\\040_AutoCAD\1CM002-45_ClosureQuantities.dwg

A: Existing Yards, Waste Rock Dumps

Γ			4	reas			1		Revea	rescription					Calcul	ated Quantit	ies			1
		2D Slope				1			.teveg i	- coor.ption	1	1		1	Galcul	atoa adantit		1	1	
		Area (from 'Regrade'	Area (from 'Regrade'	Footprint Area increase due to regrading (from		Flat Area	Flat Area Cover	Slope Area	Flat Area	Slopes	Percentage of flat areas					Scarified	Cover Volume in	Cover Volume -		
	Total 2D Area (pre-	worksheet)	worksheet)	'Regrade' worksheet)		(post-regrade)	Thickness	Cover	Scarified/	Scarified/	seeded/fertil			3D Sloped	Scarified flat	sloped areas	Flat Areas	Sloped	Revegetated	
Facility	regrade) (m2)	(m ²)	(m ²)	(m ²)	override (m ²)	override (m ²)	(m)	Thickness (m)	Ripped?	Ripped?	zed	d?	regrade)	Area (m ²)	areas (m ²)	(m ²)	(m ²)	Areas (m ³)	Area (ha)	Comments/Notes
Airport Laydown	21,277								Yes		100%		21,277	0	21,277	0	0	0	2.13	
Airstrip	64,378								Yes		100%		64,378	0	64,378	0	0	0	6.44	
Camp	33,525	17,739	18,699	4,840			0.5	0.5	Yes	Yes	100%	100%	20,626	18,699	20,626	18,699	10,313	9,349	3.93	
Crusher Area	26,964			0	0	26,964	0.5		Yes	Yes	100%	100%	26,964	0	26,964	0	13,482	0	2.70	
DSTSF WR Shell	50,237	51,376	52,957			0	0.5	0.5	Yes	No	100%	100%	0	52,957	0	0	0	26,479	5.30	
DSTSF Tailings Surface	191,561	10,000	10,308			48,000	0.5	0.5	No	No	100%	100%	48,000	10,308	0	0	24,000	5,154		Assumes areas covered in residuum only require covers. Note: Reveg area formula has been adjusted compared to the other rows so that the entire DSTSF area is included in the reveg area calculation.
Explosive Plant & Storage	55,113						0	0	Yes	No	100%	100%	55,113	0	55,113	0	0	0	5.51	Roads between laydown/storage areas included in
Areas																				'Roads' worksheet
Fuel Storage Area	8,400						0.5	0	No	No	100%	0%	8,400	0	0	0	4,200	0	0.84	
Ice Rich Overburden Dump	27,583				0		0	0	No	No	100%	100%	27,583	0	0	0	0	0	2.76	
IROD Laydown	23,055	4,949	5,147	0			0	0	Yes	No	100%	100%	18,106	5,147	18,106	0	0	0	2.33	Roads between laydown/storage areas included in 'Roads' worksheet
Main Waste Dump Ext. (includes Main Dump)	496,414	280,341	295,506	9,053			0.5	0.5	No	No	100%	100%	225,126	295,506	0	0	112,563	147,753	52.06	
Main Pit Dump	234,016	111,492	117,522	6,268			0.5	0.5	No	No	100%	100%	128,793	117,522	0	0	64,396	58,761	24.63	
Mill Area	42,365						0.5	0.5	Yes	Yes	100%	100%	42,365	0	42,365	0	21,182	0	4.24	
Mill Valley Fill Extension (1 and 2)	171,634				59,852	114,853	0.5	0.5	No	No	100%	100%	114,853	59,852	0	0	57,427	29,926	17.47	
Minto South Portal	105,446	45,406	47,862	2,725			0	0	Yes	No	100%	100%	62,765	47,862	62,765	0	0	0	11.06	
Ore Stockpile Area	139,307				0		0.5		Yes	No	100%	100%	139,307	0	139,307	0	69,653	0	13.93	
Pelly Laydown	51,710						0.5	0.5	Yes	No	100%	100%	51,710	0	51,710	0	25,855	0	5.17	
Reclamation OVB Dump	297,857				0	297,857			No	No	100%	100%	297,857	0	0	0	0	0	29.79	
Ridgetop Exploration Area	34,778				0				Yes	No	100%	100%	34,778	0	34,778	0	0	0	3.48	Assumes 50% of area scarified/reveged.
Southwest Dump	627,621	1			0		0.5	0.5	No	No	100%	100%	627,621	0	0	0	313,810	0	62.76	Excludes High Grade Waste Stockpile
SWD - High grade waste	31,165	40,679	41,485	15,430			1	1	No	No	100%	100%	5,915	41,485	0	0	5,915	41,485	4.74	<u> </u>
Tailings Diversion Ditch	72,143	34,246	36.099	12.467		1	0.5	0.5	No	No	100%	100%	50.364	36.099	0	0	25.182	18.049	8.65	
WSP Dam Breach	13,950				13,950	0	0.5	0.5	No	No	100%	100%	0	13,950	0	0	0	6,975	1.40	Cover volume is an allowance: it is unlikely it will b to be placed over a large portion of the dam footpr due to slopes steeper than 2H:1V
W15 Sump Area	12.306	4,235	4.465	1.413			0.5	0.5	Yes	No	100%	100%	9.484	4,465	9.484	0	4,742	2.232	1.39	
TOTAL										1					-,		752.721	346,164	292	

Notes:

B: Future Yards, Waste Rock Dumps

1			A	Areas					Reveg F	rescription					Calcu	ated Quantit	ies			
		2D Slope																		
		Area (from	Area (from	Footprint Area increase			Flat Area				Percentage	Percentage of						Cover		
		'Regrade'		due to regrading (from		Flat Area	Cover	Slope Area	Flat Area	Slopes	of flat areas	sloped Areas	Estimated Flat			Scarified	Cover	Volume -		
	Total 2D Area (pre-	worksheet)	worksheet)	'Regrade' worksheet)	3D slope Area	(post-regrade)	Thickness	Cover	Scarified/	Scarified/	seeded/fertili	seeded/fertilize	Area (post-	3D Sloped	Scarified flat	sloped areas	Volume Flat	Sloped	Revegetated	
Facility	regrade) (m2)	(m ²)	(m ²)	(m ²)	override (m2)	override (m2)	(m)	Thickness (m)	Ripped?	Ripped?	zed	d?	regrade)	Area (m ²)	areas (m ²)	(m ²)	Areas (m ²)	Areas (m ³)	Area (ha)	Comments/Notes
Area 118 Backfill Dump	68,438	18,405	19,401	0			0	0	Yes	Yes	100%	100%	50,033	19,401	50,033	19,401	0	0	6.94	
Main Pit Dump	243,816	99,546	104,931	0			0.5	0.5	No	No	100%	100%	144,270	104,931	0	0	72,135	52,465	24.92	
-																				

C: Complex Covers

				Inputs									Calculated Q	luantities]
		3D Slope					Growth							Protection		Growth	Growth	Total	
		Area (from	Bedding				Medium				Bedding			Layer		Medium	Medium	Growth	
		'Regrade'	Layer			Protection	Cover			Bedding	Volume -		Protection				Volume -	Medium	
		worksheet)	Thickness		Geotextile	Layer	Thickness	Liner Area	Geotextile	Volume - Flat	Sloped Areas	Total Bedding	Layer Volume -	Sloped	Layer Volume	Flat Areas	Sloped Areas	Volume	
Facility	Flat Area (m2)	(m ²)	(m)	Liner (Y/N)	Layers	Thickness (m)	(m)	(m ²)	Area (m ²)	Areas (m ³)	(m ³)	Volume (m ³)	Flat Areas (m3)	Areas (m ³)	Comments/Notes				
SWD High Grade Waste	5,915	41,485	0.15	Yes	0	0	1	47,400	0	887	6,223	7,110	0	0	0.00	5,915	41,485	47,400	

 Worksheet 18 - Demolition Quantity Calculations

 Project:
 Minto Mine Closure Cost Estimate

 Project No.:
 1CM002.P04

 Client:
 Minto Explorations Ltd.

 Date of Submission:
 August 2016

 File Location:
 \\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\Cost Estimate\

12,920 LCM

TOTAL DEMOLITION/SOLID WASTE VOLUME FOR SOLID WASTE LANDFILL

A: Building Demolition

			Exte	erior Buildi	ng Dimens	ions		Sub	-component	Measurements		Disposal	Ste	el Quantity Ca	lcs	Concrete	Quantity Calcs	Wood/Misc	c. Qnty Calcs.	Off-s	site Transport	On-site Dispos	al
		Sub-component/ Building/	Building Demolition	Length	Width		Modular Building	Wall thickness		Avg. Ext. Column X- Section # of St	Average Truss x eel section area	a Disposal	Wall mass	Column and Truss Mass	Total Mass	In-Place Concrete Volume	Concrete Debris		Debris Volume	Modular Building Truckloads		On-site Demolition Debris Volume	3
No. Area	Sub Area	Section	Туре	(m)	(m)	Height (m)	Loads Material	(m) ¹	Columns	Area (m2) Truss		Location	(tonnes)	(tonnes)	(tonnes)	(m3)	Volume (LCM)	Volume (m3)	(LCM)	(Offsite)	Off-site Debris Trips		Comments/Notes
Airport Laydown																							
1 Airport Laydown	Mechanics Shop	Entire building	Steel Building - Small		25.00		Steel	0.01				On-site	95.6	0.0	95.6	0.0	0.0	0.0	0.0	0.0	0.0	137	AutoCAD/Photos
2	Covered Storage		Wooden Building - Larg	ge 70.00	4.00	2.00	Wood/Mixed	Debris				On-site	0.0	0.0	0.0	0.0	0.0	560.0	184.8	0.0	0.0	185	Photos
SUBTOTAL - Airport Laydown															96		0	560		0	0	321	
Airstrip Area																							
	5 1 7 0					0.50						A B						440.0	115.0			145	AutoCAD/Photos (lengths summed
1 Airstrip 2	Exploration Camp	Camp tents (11)	Wooden Building - Sma	all 44.00	4.00 4.50	2.50	Wood/Mixed Wood/Mixed		+ +			On-site	0.0	0.0	0.0	0.0	0.0	440.0	145.2 33.4	0.0	0.0	140	account for 11 structures AutoCAD/Photos
2		Exploration core shed 1 Exploration core shed 2	Wooden Building - Sma Wooden Building - Sma		4.50		Wood/Mixed Wood/Mixed		+			On-site On-site	0.0	0.0	0.0	0.0	0.0	135.0	44.6	0.0	0.0	33 45	AutoCAD/Photos
4		Core Logging Shack	Wooden Building - Sma Wooden Building - Sma		6.30		Wood/Mixed		+ +			On-site	0.0	0.0	0.0	0.0	0.0	472.5	155.9	0.0	0.0	156	AutoCAD/Photos
		Core Logging Shack	Wooden Duilding - Ona	20.00	0.50	5.00	WOOd/WIXed	Deblis	1 1			On-site	0.0	0.0	0.0	0.0	0.0	472.5	155.5	0.0	0.0	130	Addead/110tos
SUBTOTAL - Airstrip															0		0	1149		0	0	379	
Camp Area																	•	1145	-		· ·	010	
1 Offices	Safety Building	Prefab Bldg. Shell	Steel Building - Small	17.00	18.00	6.00	Steel	0.03	1			On-site	175.3	0.0	175.3	0.0	0.0	0.0	0.0	0.0	0.0	250	AutoCAD/Photos
2	Mine Offices	Entire building	Wooden Building - Sma		10.00		Wood/Mixed					On-site	0.0	0.0	0.0	0.0	0.0	1500.0	495.0	0.0	0.0	495	AutoCAD/Photos
3 Old Camp Complex	Capstone Building	Entire building	Wooden Building - Sma	all 56.00	9.00	3.00	Wood/Mixed	Debris	1 1			On-site	0.0	0.0	0.0	0.0	0.0	1512.0	499.0	0.0	0.0	499	AutoCAD/Photos
4	Building betw Capstone &		Wooden Building - Sma	all 19.00	7.00	3.00	Wood/Mixed					On-site	0.0	0.0	0.0	0.0	0.0	399.0	131.7	0.0	0.0	132	AutoCAD/Photos
5	Sherwood Building		Wooden Building - Sma	all 110.00	7.50	3.00	Wood/Mixed	Debris				On-site	0.0	0.0	0.0	0.0	0.0	2475.0	816.8	0.0	0.0	817	AutoCAD/Photos
6	Minto Building		Wooden Building - Sma	all 70.00	7.50		Wood/Mixed	Debris				On-site	0.0	0.0	0.0	0.0	0.0	1575.0	519.8	0.0	0.0	520	AutoCAD/Photos
7	Dining Hall/Dry		Wooden Building - Sma	all 64.00	9.00		Wood/Mixed	Debris				On-site	0.0	0.0	0.0	0.0	0.0	1728.0	570.2	0.0	0.0	570	AutoCAD/Photos
8	Gym/Muster		Wooden Building - Sma	all 16.00	8.00		Wood/Mixed					On-site	0.0	0.0	0.0	0.0	0.0	384.0	126.7	0.0	0.0	127	AutoCAD/Photos
9	Site Services/IT Offices		Wooden Building - Sma	all 28.00	9.00		Wood/Mixed					On-site	0.0	0.0	0.0	0.0	0.0	756.0	249.5	0.0	0.0	249	AutoCAD/Photos
10 North End of Camp	Trailer betw/Minto and Se	lkirk Tower	Wooden Building - Sma		7.00	3.00	Wood/Mixed	Debris				On-site	0.0	0.0	0.0	0.0	0.0	630.0	207.9	0.0	0.0	208	AutoCAD/Photos
11	Selkirk Towers		Modular Buildings - Disr				87					Off-site								87.0			Photos
12 Other	Misc. Seacans		Modular Buildings - Disr	mantle/Prep	р		5					Off-site								5.0			Photos
SUBTOTAL - Camp Area															175		0	10959		92	0	3867	
Explosive Plant and Storage Are																							
1 Explosive Plant	Dyno Compound	Dyno Garage	Steel Building - Small		15.00	6.00	Steel	0.01				On-site	47.1	0.0	47.1	0.0	0.0	0.0	0.0	0.0	0.0	67	AutoCAD/Photos
2	Dyno office		Modular Buildings - Disi	mantle/Prep	p		1					Off-site								1.0			Photos
				_	-				↓ →						47								
SUBTOTAL - Explosive Plant an Fuel Farm Area	nd Storage Areas				-							_			47		0	0		1	0	67	
1 Fuel Farm Area	Generators	Sheds	Woodon Ruilding Sma	5.00	5.00	2.00	Wood/Mixed	Dobrio	-			On-site	0.0	0.0	0.0	0.0	0.0	75.0	24.9	0.0	0.0	25	AutoCAD/Photos
i Fuel Faim Alea	Generators	Sneus	Wooden Building - Sma	all 5.00	5.00	3.00	wood/wixed	Deblis				Un-site	0.0	0.0	0.0	0.0	0.0	75.0	24.8	0.0	0.0	25	AutoCAD/Photos
SUBTOTAL - Fuel Farm Area				-					1 1						0		0	75		0	0	25	
Mill Area Complex									1								•	15		v	0	25	
1 Mill Complex	Process Building	Prefab Bldg. Shell	Steel Building - Large	59.76	21 34	15.24	Steel	0.03	20	0.0055914 10	0.0223656	On-site	905.1	52.1	957.2	0.0	0.0	0.0	0.0	0.0	0.0	1367	Drawings: 16-10-001 and 105
2	Concentrator Storage	Bayline 1	Steel Building - Large				Steel	0.03	20	0.0000014 10	0.0220000	On-site		0.0	213.7	0.0	0.0	0.0	0.0	0.0	0.0	305	Drawing 34-14-004
3	Tailings filter building	Prefab Bldg. Shell	Steel Building - Large		20	15.24	Steel	0.03				On-site		0.0	593.3	0.0	0.0	0.0	0.0	0.0	0.0	848	Drawings 35-10-106 and 35-10-104
4	Mill Building	Phase 2 shell	Steel Building - Large		14.4817		Steel	0.03	5	0.0055914 10	0.0223656	On-site	342.9	29.2	372.0	0.0	0.0	0.0	0.0	0.0	0.0	531	Drawings: 16-10-001 and 105
5	Mill Warehouse	Shell	Steel Building - Large		24.3902		Steel	0.03	Ť	0.0000011 10	0.0220000	On-site	373.5	0.0	373.5	0.0	0.0	0.0	0.0	0.0	0.0	534	Brannige: To To bot and Too
6	Assav Lab	Entire building	Wooden Building - Sma	all 17			Wood/Mixed					On-site	0.0	0.0	0.0	0.0	0.0	510.0	168.3	0.0	0.0	168	
7	Mechanics Shop	Shell	Steel Building - Small		20		Steel	0.03	1			On-site	149.7	0.0	149.7	0.0	0.0	0.0	0.0	0.0	0.0	214	AutoCAD/Photos
8	Electricians shop	Entire building	Wooden Building - Sma		10		Wood/Mixed		1			On-site	0.0	0.0	0.0	0.0	0.0	450.0	148.5	0.0	0.0	149	AutoCAD/Photos
									1														
SUBTOTAL - Mill Area Complex	1														2660		0	960		0	0	4116	
Mill Valley Fill Laydown																							
1 Reagent Storage Area		Tent	Wooden Building - Sma	all 25.00	18.00	4.00	Wood/Mixed	0.01				On-site	0.0	0.0	0.0	0.0	0.0	1800.0	594.0	0.0	0.0	594	height negatively adjusted to reduct demo vol.
																			_				
SUBTOTAL - Mill Valley Fill Laye	down														0		0	1800		0	0	594	
Pelly Laydown												0 1 1											
1 Pelly Laydown	Pelly office	3 modular trailers	Modular Buildings - Disi			0.00	3	Dahala	+			Off-site	0.0	0.0	0.0	0.0	0.0	4540.0	400.0	3.0	0.0	400	AutoCAD/Photos
2	Pelly workshop	Wooden building	Wooden Building - Larg		21.00		Wood/Mixed	Debris				On-site	0.0	0.0	0.0	0.0	0.0	1512.0	499.0	0.0	0.0	499	AutoCAD/Photos AutoCAD/Photos
3	Pelly warehouse	prefab building shell Weatherhaven	Steel Building - Small		30.00 25.00	6.00	Steel	0.01	┥───┤			On-site On-site	79.7 0.0	0.0	79.7 0.0	0.0	0.0	0.0 4000.0	0.0 1320.0	0.0	0.0	114 1320	AutoCAD/Photos AutoCAD/Photos
5 W15 Sump Area	W15 Laydown	4 propane tanks	Wooden Building - Sma Modular Buildings - Disi	mantie/Prer	25.00	4.00	4	0.03				Off-site	0.0	0.0	0.0	0.0	0.0	4000.0	1320.0	4.0	0.0	1320	AutoCAD/Photos
o Wio oump Area	tt to Laydown	- proparie tanko	modalar Dullulings - Disi	inditue/111e	۲ 		1	ł	+ +			On-aite		1						4.0			
SUBTOTAL - Pelly Laydown															80		0	5512		7	0	1933	
Water Treatment Plant				-											00		v	3312		· · ·	v	1355	
				_		0.45		0.04	-			-			100.5				0.0			-	
		Prefab Bldg, Shell	Steel Building - Large	46.04	18 29	9.15	Steel	0.01				()tt-site	162.5	0.0		0.0	0.0	00		0.0	34	0	
1 Water Treatment Plant		Prefab Bldg. Shell	Steel Building - Large	46.04	18.29	9.15	Steel	0.01	+ +			Off-site	162.5	0.0	162.5	0.0	0.0	0.0	0.0	0.0	3.4	0	

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 Notes:
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 1. Internal steel structure/demo debris accounted for in part C
 .

 2. Steel wall thickness adjusted to account for airspace, insulation, HVAC debris, etc.
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 3. Wall areas includes the roof
 .

 4. Building debris volume for wooden structures based on FEMA "Debris Estimating Field Guide" FEMA publication No. 329.

B: Concrete Foundations

				Disposal	Exterior	Building		Four	dation Dime	nsions				Calculation	ns		
No.	Area	Sub Area	Sub-component/ Building/ Section	Disposal Location	Length (m)	Width (m)	Slab Thickness (m)	Wall Thickness (m)	Wall Height (m)	Requires washing/de contaminati on?	Vol. User	In-Place Concrete Volume (m3)	Concrete Debris Volume (m3)	Total Mass (tonnes)	Washing Area (m2)	On-site Demolition Debris Volume (LCM)	Comments/Notes
Camp /																	
1	Offices	Safety Building	Concrete foundation	Bury-in-place	17	18	0.15	0.25	0.3	No		51.2	86.1	122.8	0.0	0.0	
	TAL - Camp Area											51	86	123	0	0	
Mill Are	a Complex																
1	Mill Complex	Crusher and Ore Storage	Concrete - Ore Dump	Bury-in-place	12	6	0.3	0.305	1	No		32.6	54.9	78.2	0.0	0.0	
2		Mill Building	phase 1 portion	Bury-in-place	59.7561		0.203	0.254	0.3	Yes		271.6	457.4	651.8	1275.3		Dwg. 16-10-022 and 1610-001
3		Mill Building	Phase 2 portion	Bury-in-place			0.203	0.254	0.3	Yes		77.6	130.7	186.3	353.2		Dwg. 16-10-022 and 1610-001
4		Mill Building	Compressor/generator area	Bury-in-place	12.1951	10.061	0.203	0.254	0.3	Yes		28.3	47.7	67.9	122.7		Dwg. 16-10-022 and 1610-001
5		Concentrate Storage	Concrete foundation	Bury-in-place	73.7805	30.4878	0.3	0.45	2.21037	Yes		882.2	1485.9	2117.4	2249.4		Dwg. 34-15-001
6		Tailings Filter Building	Concrete foundation	Bury-in-place	36.5854	20	0.3	0.305	0.3	Yes		229.9	387.1	551.7	731.7		Dwg 35-10-022 and 35-10-101
7		Mill Warehouse	Concrete foundation	Bury-in-place	30.4878	24.3902	0	0.305	0.3	No		10.0	16.9	24.1	0.0	0.0	Dwg. 131-20020-00-C-2001 and 2002
	TAL - Mill Area Complex											1532	2581	3677	4732	0	
	ley Fill Laydown																
	Reagent storage area	Strip footings		Bury-in-place	25	18	0	0.3	0.3	No		7.7	13.0	18.6	0.0	0.0	AutoCAD/Photos
	TAL - Mill Valley Fill Laydo	wn										8	13	19	0	0	
	aydown																
	Pelly Laydown	Washpad		Bury-in-place	15	5	0.3	0	0	No		22.5	37.9	54.0	0.0	0.0	Photos
SUBTO	TAL - Pelly Laydown											23	38	54	0	0	
Water 7	reatment Plant																
1	Water Treatment Plant	No foundation present															
SUBTO	TAL - Water Treatment Plar	nt										0	0	0	0	0	
Notes:																	

Notes: 1. Regrading of the areas are included in the elsewhere in the estimate.

C: Other Demolition

							Dir	mensions					Disposal	De	emolition Qua	ntities (Manual	Calcs)		Transpor	t	7
No.	Area	Sub Area	Sub-component/ Building/ Section	Material	Quantity	Length (m)	Width (m)	Area (m ²)	Height/ Thickness (m)	Diameter (m)	Volume (m ³)	Air Factor	Disposal	Steel (tonnes)	Concrete In- place volume (m3)	Concrete Debris Volume (LCM)	Misc. Demolition Volume (m3)	Total Mass (tonnes)	Off-site Demolition Debris Trips	On-site Demolition Debris Volume (LCM)	Comments/Notes
Airstrip A		Sub Alea	Section	Wateria	Quantity	(11)	widur (iii)	Alea (III)	(111)	(11)	(111)	Air racior	Location	(tornes)	volume (mo)	(LOWI)	volume (mo)	(torines)	Deblis Tips	(LOIVI)	Comments/Notes
Ansulp A	Airstrip area	Exploration camp	misc. debris	Wood/Mixed Debris							50	1	On-site				50.0	35.0	0.0	50.0	Allowance based on photos
2		Waste Storage Areas	misc. debris	Wood/Mixed Debris							100	1	On-site				100.0	70.0	0.0	100.0	Allowance based on photos
3		Thate etchage / "ede	Special waste pole barn	Wood/Mixed Debris	1 1	55	5		2.5		687.5	0.33	On-site				226.9	158.8	0.0	226.9	
4			opoolal madio polo barri	Wood/Mixed Debris	1 1	32	2		2.5		160	0.33	On-site				52.8	37.0	0.0	52.8	
5		Storage East of strip	misc. debris	Wood/Mixed Debris							100	1	On-site				100.0	70.0	0.0	100.0	Allowance based on photos
SUBTOT	AL - Airstrip Area													0	0	0	530	371	0	530	
Camp Are	ea																				
1 (Camp area	Utilidors	Mill to Camp	Wood/Mixed Debris		229	1		1		229	0.5	On-site				114.5	80.2	0.0	114.5	
2			East side of camp	Wood/Mixed Debris		181	1		1		181	0.5	On-site				90.5	63.4	0.0	90.5	
3		Covered walkways	Camp to Selkirk towers	Wood/Mixed Debris		55	2		2.5		275	0.33	On-site				90.8	63.5	0.0	90.8	
4			Misc. walkway/corridor allowa	Wood/Mixed Debris		100	2		2.5		500	0.33	On-site				165.0	115.5	0.0	165.0	
5		Smokers area	Building	Wood/Mixed Debris		2.5	2.5		2.5		15.625	0.33	On-site				5.2	3.6	0.0	5.2	
	AL - Camp Area													0	0	0	466	326	0	466	
Fuel Farm		-																			
1 F	Fuel Farm Area	Generators	Generator wooden support st		8	6	3		1		18	0.33	On-site				5.9	10.0	0.0	14.3	AutoCAD/Photos
			Misc. piping/electrical conduit	Wood/Mixed Debris									On-site				15.0	25.3	0.0	36.1	Allowance
	AL - Fuel Farm Area													0	0	0	21	35	0	50	
	Complex	l <u></u>		•····										_							
1 (Crushing & Ore Storage Re	Reclaim Tunnel	Feeder floor, stairs, ladders	Steel									On-site	7				6.8	0.0	9.7	Source Hatch: FS (2006)
2			Grating feeder floor	Steel	1			42	0.01				On-site	3				3.4	0.0	4.8	Source Hatch: FS (2006)
3			Mechanical (liners, conveyor	Steel									On-site	28				28.2	0.0	40.3	Source Hatch: FS (2006)
4		Ore Dump	Concrete components	Concrete	1						44.5		Bury-in-place		44.5	75		0.0	0.0	0.0	Source Hatch: FS (2006)
5		Reclaim area	Concrete components	Concrete	1						329		Bury-in-place		329.0	554		0.0	0.0	0.0	Source Hatch: FS (2006)
6 1	Mill Area	Mill Building	Process building elevated sla	Concrete	+ +								Bury-in-place	400	96.9	163		0.0	0.0	0.0	Source Hatch: FS (2006)
7			Structural steel platforms	Steel	+ +			507.0	0.01				On-site	108				108.0	0.0	154.3	Source Hatch: FS (2006)
8			Grating	Steel				527.9 690.3	0.01				On-site	42	_			42.5	0.0	60.7	Source Hatch: FS (2006)
9 10			Q-deck Partition walls	Steel				130	0.001			0.5	On-site On-site	6	_		9.8	5.6 16.4	0.0	7.9 23.5	Source Hatch: FS (2006)
10				Wood/Mixed Debris Concrete				408	0.15				On-site		61.2	79.6	9.0	113.4	0.0	162.0	Source Hatch: FS (2006) Source Hatch: FS (2006)
			Concrete separation walls	Wood/Mixed Debris				2044			10.01005	-	On-site		01.2	79.0	102.2	172.1	0.0	245.9	Source Hatch: FS (2006)
12 13		Concentrate storage area	Coverall structure Metal trusses	Steel	12	39.6341		2044	0.005	0.3	10.21925 33.6	10	On-site				67.2	113.2	0.0	245.9	Estimated based on dwg and photo
14		Grinding circuit	Misc. grinding ancillary equip	01001	12	39.0341				0.5	33.0	2	On-site	0.7	-		07.2	0.7	0.0	1.0	Source Hatch: FS (2006)
14		Grinding circuit	Process water tank	Steel	1								On-site	14.0	-			14.0	0.0	20.0	Source Hatch: FS (2006)
16		1	Fresh water tank	Steel	1			+		ł			On-site	4.0				4.0	0.0	5.7	Source Hatch: FS (2006)
17		Flotation circuit	Misc. mechanical equip. stee	Steel				1		1	-		On-site	3.0				3.0	0.0	4.3	Source Hatch: FS (2006) (mostly pump frames
18		Concentrate dewatering	Concentrate Thickener	Steel	1			70.08312	2.13414634	6.097561	2,102494		On-site	16.9				16.9	0.0	24.2	Source Hatch: FS (2006)
19		e choorna ato dowatoring	Misc. mechanical equip. stee	Steel				10.00012	2.10.14004	0.001001	2.102-104		On-site	5.2				5.2	0.0	7.4	Source Hatch: FS (2006)
20		Tailings Filter building	Concrete components	Concrete	1			1		1	313		Bury-in-place	0.2	44.5	75		0.0	0.0	0.0	Source Hatch: FS (2006)
21		g	Filter support steel and platfo	Steel				1		1			On-site	102.0				102.0	0.0	145.7	Source Hatch: FS (2006)
22		1	Q-deck	Steel				28	0.01	1			On-site	2				2.3	0.0	3.2	Source Hatch: FS (2006)
23		1	Concrete separation walls	Concrete				112	0.15	1		1.3	On-site		16.8	21.8		31.1	0.0	44.5	Source Hatch: FS (2006)
24		1	Architectural walls	Wood/Mixed Debris	1 1			100	0.1	1		0.5	On-site				5.0	8.4	0.0	12.0	Source Hatch: FS (2006)
25		1	Tanks & misc. mechanical ed		1 1			1		1			On-site	36				36.1	0.0	51.5	Source Hatch: FS (2006)
26		1	Thickener	Steel	1 1			205.8692	4.88	9.15	6.176075		On-site	49.7				49.7	0.0	71.0	
27		Reagents	Tanks & misc. mechanical ed	Steel						1			On-site	1				1.5	0.0	2.1	Source Hatch: FS (2006)
28		Mill building - phase 2	Interior retaining wall	Concrete									Bury-in-place		8.8	15		0.0	0.0	0.0	Source Hatch: FS (2006)
29			Structural steel platforms	Steel									On-site	37.1				37.1	0.0	53.0	Source Hatch: FS (2006)
30			Grating	Steel				696.8	0.01				On-site	56				56.1	0.0	80.1	Source Hatch: FS (2006)
31			Misc. mechanical equip. stee	Steel									On-site	1				1.0	0.0	1.4	Source Hatch: FS (2006)
32			Misc. mechanical equip. stee	Steel									On-site	2				2.4	0.0	3.4	Source Hatch: FS (2006)
33		Electricians shop	Entire building	Wood/Mixed Debris	1	12	10		1.5		180	0.33	On-site				59.4	100.0	0.0	142.9	
	AL - Mill Area Complex																244	1081	0	1544	

Minto S	outh Portal																		
1	Minto South Portal	Pad A	Misc. small storage areas/cov	Wood/Mixed Debris	3	6	3	2	36	0.33	On-site				35.6	24.9	0.0	35.6	Allowance based or
2		Pad B	Green tents	Wood/Mixed Debris	2	18	12	5	1080	0.025	On-site				54.0	37.8	0.0	54.0	AutoCAD/Photos
3			Culverts/Debris	Wood/Mixed Debris	1	10	16	1.5	240	0.33	On-site				79.2	55.4	0.0	79.2	Allowance based or
4		Pad C	Culverts/Debris	Wood/Mixed Debris	1	37	12	2	888	0.33	On-site				293.0	205.1	0.0	293.0	Allowance based on
SUBTO	TAL - Pelly Laydown											0	0	0	462	323	0	462	
	lydown																		
1	Pelly Laydown	Misc. small storage areas/	covers	Wood/Mixed Debris	1	27	12	1.5	486	0.33	On-site				160.4	112.3	0.0	160.4	Est. Allowance base
SUBTO	TAL - Pelly Laydown											0	0	0	160	112	0	160	
Water T	reatment Plant																		
1	Water Treatment Plant		Misc. wooden walkways etc.	Wood/Mixed Debris	1										15.0	10.5			Estimated based on
SUBTO	TAL - Water Treatment Pl	lant										0	0	0	15	11	0	0	
						1													
Notes:	•	•	•	•															

1. Where noted, demolition quantities were taken directly from the Hatch 2006 feasibility study.

D: Equipment and Material Removal

					Di	imensions	s/Measureme	ents					Disas	sembly/Dispo	osal Details		C	alculated Qua	ntities	Tran	sport	1
													Requires				Small	Large			On-site	
		Sub-component/ Building/		Longth	M/i altib		Diameter		Curtoso	Valuma	Mass of	Dispessel	washing/de		OVERRIDE -	OVERRIDE -		Disassembl	Desentemination	Off aita	Demolition	
No. Area	Sub Area	Section	Quantity	Length (m)	Width (m) H	leight (m)	Diameter (m) V	Volume (m3)	Surface Area (m2)	Volume (m3)	Item (tonnes)	Disposal Location	contaminati on?	Crew Size	Time to dismantle (hrs)	Off-site	Crew Time (hrs)	(hrs)	Decontamination Time (hrs)	Off-site Removal Trips	Debris Volume (LCM)	Comments/Notes
Airport Laydown		occion	Quantity	(11)	(11)	leight (III)	(11)	volume (mo)	71100 (1112)	(110)	(1011103)	Location	0111	OTCW OIZC	dismantie (ms)	number of thps	(113)	(113)	Time (ms)	rtemovar mps	(LOW)	Commentarivotes
1 Airport Laydown	Tires			30	3	2				180.00	90.0	Off-site	No	Small	0		0.0	0.0	0.0	1.9	0.0	
	Seacans		1	16.0								Off-site	No	Small	0	0	0.0	0.0	0.0	0.0	0.0	Assumed to be filled other materials and removed.
	Propane tank		1									Off-site	No	Small	2	1.00	2.0	0.0	0.0	1.0	0.0	
	Misc. equipment		1								50.0	On-site	No	Small	0		0.0	0.0	0.0	0.0	71.4 0.0	Allowance based on photos
SUBTOTAL - Airport Laydown																	2	0.0	0.0	3	71	
Airstrip Area																	_					
1 Airstrip area	Meteorological station		1								0.3	Off-site	No	Small	3		3.0	0.0	0.0	0.01	0.0	
	Land treatment facility	Waste Oil tanker	1								40.0	Off-site	Yes	Small	2	1	2.0	0.0	2.9	1.0	0.0	Mass of item bumped up to increase the decont. Time
	Incinerators	Primary incinerator Secondary incinerator	1								1.0 1.0	Off-site Off-site	No No	Small Small	1		1.0 1.0	0.0	0.0	0.0	0.0	mass assumed mass assumed
	Special waste pole barn	Poles	1	30	5	1.5		225			157.5		No	Small	0		0.0	0.0	0.0	3.3	0.0	Dimensions/mass assumed based on aerial photos/size of fa
					-												0.0	0.0	0.0	0.0	0.0	
SUBTOTAL - Airstrip Area																	7	0	3	4	0	
Camp Area																						
1 Camp Area	Offices	Safety equipment	1									Off-site	No	Small	8	0.25	8.0	0.0	0.0	0.3	0.0	
		Computer/office equipment communication equip.	1		+		\vdash					Off-site	No	Small Small	16 16	0.25	16.0 16.0	0.0	0.0	0.3	0.0	
	Camp	kitchen equipment/freezers, e	1		+ +		├					Off-site	No	Small	8	0.25	8.0	0.0	0.0	0.3	0.0	
1																	0.0	0.0	0.0	0.0	0.0	
SUBTOTAL - Camp Area																	48	0	0	1	0	
Explosives Plant and Storage A		Evel texts										04 -14		Omall			0.0	0.0	0.0	1.0	0.0	Dhataa
1 Explosives Plant/Fueling 2	g are uyno compound	Fuel tank Misc. tanks/debris etc.	1				\vdash			<u> </u>	25.0	Off-site On-site	NO	Small Small	2	1	2.0	0.0	0.0	1.0 0.0	0.0 35.7	Photos Allowance based on photos
3		Vertical tank	1		+ +						23.0	Off-site	No	Small	2	1	2.0	0.0	0.0	1.0	0.0	Photos
4		Explosive Storage	3	12	4	2		96				Off-site	No	Small	0	3	0.0	0.0	0.0	3.0	0.0	
																	0.0	0.0	0.0	0.0	0.0	
SUBTOTAL - Explosives Plant a	and Storage Areas																37	0	0.0	5	36	
Fuel Farm Area	O an ann ta m	Ormanatan		5		0.5		37.5				04 -14	Na	Omell	16		40.0	0.0	0.0	0.0	0.0	
1 Fuel Farm Area	Generators Fueling Area	Generators Northern Steel fuel tanks	4	5	3	2.5		37.5				Off-site Off-site	NO	Small Small	4	4	16.0 4.0	0.0	0.0	2.0 4.0	0.0	
3	T deling Area	Misc. fuel lines/power/piping									2.0	On-site	Yes	Small	4		4.0	0.0	0.0	0.0	2.9	Allowance/photos
4		Diesel tank in NE corner of fa	1			6	3.5					Off-site	No	Large	4	1.00	0.0	4.0	0.0	1.0	0.0	
5		Large tanks	2			12.00	14.5		876.89705	9	141.2	On-site	Yes	Large			0.0	188.2	10.1	0.0	201.7	
SUBTOTAL - Fuel Farm Area																	24	192	10.3	7	205	
Mill Area Complex 1 Crushing & Ore Storage	Re Mobile Crusher/Feeder		1									Off-site	Vec	Small	10	1	10.0	0.0	1.0	1.0	0.0	Assume 1 day to prep for transport
2	Reclaim apron feeder			7.3	0.91	2.44						Off-site	Yes	Small	2	1	2.0	0.0	1.0	1.0	0.0	Dimensions form dwg. 1216002-R1
3	Slewing-Stockpile feed cor	N Conveyor 36"x107 feet 40 h	1	51.8		4.39		227				Off-site	Yes	Large	30	4.2	0.0	30.0	1.0	4.2	0.0	Dimensions form dwg. 1216001-R1
4	SAG Mill Feed	Weightometer	1	3		0.6		2				Off-site	Yes	Small	2	0.19	2.0	0.0	1.0	0.2	0.0	Dimensions assumed
5 0 Mill Duilding Dhone 4	SAG Mill Feed	Conveyor, 36" x 130 feet	1	39.6	1.0	4.39		174				Off-site	Yes	Large	30	3.5	0.0	30.0	1.0	3.5	0.0	Dimensions form Hatch 2006
6 Mill Building - Phase 1 7	Mechanical Mechanical	Small pumps (fire water) Fire water tank	3								14.0	Off-site On-site	Yes	Small Small	1	0.0	1.0 18.7	0.0	1.0 0.0	0.0	20.0	Hatch (2006) Hatch (2006)
8	Mechanical	O/H Crane	1								14.0	Off-site	Yes	Large	1	0.0	0.0	1.0	1.0	0.0	0.0	Hatch (2006)
9	Mechanical	Dust collector (20HP)	1									Off-site	Yes	Small	1	0.0	1.0	0.0	1.0	0.0	0.0	Hatch (2006)
10 Grinding Circuit - Phase		Sag Mill	1				5.030488				50.0	Off-site	Yes	Large		3.0	0.0	66.7	3.6	3.0	0.0	Scaled from previous project based on diameter
11	Ball Mill Phase 1	10.5' x 12'	1	3.2	3.7						60.0	Off-site	Yes	Large		2.0	0.0	80.0	4.3	2.0	0.0	Scaled from previous project based on diameter
12 13	Grinding ancillary equip.	Pump box	1						27		2.0	Off-site On-site	Yes Yes	Small Small			2.7	0.0	0.1	0.0	0.0	
13		Rubber lining - 6.5'x6.5'x10' Discharge chutes	2						21		2.6		Yes	Small			3.5	0.0	0.0	0.0	3.7	
15		Cyclo-pac 3x15" dia.	1	3.0	4.6	3.05		42.51			8.6	Off-site	Yes	Large			0.0	11.4	0.6	0.2	0.0	pick-up truck factor applied'
16		Cyclone feed pumps	2								2.0	Off-site	Yes	Small	2		2.0	0.0	0.1	0.0	0.0	assumed 1 hr for dismantling, 1 tonne each
17		Sump pump #1	1								1.0	Off-site	Yes	Small	1		1.0	0.0	0.1	0.0	0.0	assumed 1 hr for dismantling, 1 tonne each
18 19		Pump 8"x6' process water pu	2								2.0	Off-site Off-site	Yes	Small Small	2		2.0	0.0	0.1	0.0	0.0	assumed 1 hr for dismantling, 1 tonne each
20 Flotation Circuit - Phase	1 Flotation mechanical equip	Pump 1" x 1.5" fresh water pu . Reclaim/conc feed pump	<u> </u>		+		\vdash				2.0	Off-site	NO Yes	Small	2		2.0	0.0	0.0	0.0	0.0	assumed 1 hr for dismantling, 1 tonne each assumed 1 hr for dismantling, 1 tonne each
20 Flotation Circuit - Flase		Flotation Area 1 sump pump	1				├				1.0	Off-site	Yes	Small	1		1.0	0.0	0.1	0.0	0.0	assumed 1 hr for dismantling, 1 tonne each
22		Floatation cells 15m3	5			3.00	2.523133	15.00	23.779971	0	9.6	On-site	Yes	Large			0.0	12.8	0.7	0.0	13.7	Assumed dimensions and steel thickness
23		Flotation cells (2.8m3)	6			2.00	1.335118	2.80	8.3887937	0	4.1	On-site	Yes	Small			5.4	0.0	0.3	0.0	5.8	
24		Rougher concentrate pump 1	1				L T				1.0	Off-site	Yes	Small	1		1.0	0.0	0.1	0.0		assumed 1 hr for dismantling, 1 tonne each
25 26		Concentrate thickener feed p Flotation blowers	1		+ +						1.0 2.0	Off-site Off-site	Yes Yes	Small Small	1		1.0 2.0	0.0	0.1	0.0	0.0	assumed 1 hr for dismantling, 1 tonne each assumed 1 hr for dismantling, 1 tonne each
27		Hoist	1				\vdash				1.0		Yes	Small	1		1.0	0.0	0.1	0.0	0.0	assumed 1 hr for dismantling, 1 tonne each
28 Concentrate Dewatering	Mechanical equip.	Filter, 30m2 40 hp	1		3.7					77			Yes	Large	16		0.0	16.0	1.1	0.3		pick-up truck factor applied'
29		Concentrate discharge conve	1	50.0	0.6	2.44						Off-site	Yes	Large	16	2.1	0.0	16.0	1.0	2.1	0.0	
30		Concentrate thickener OF pu									1.0	Off-site	Yes	Small	1		1.0	0.0	0.1	0.0	0.0	assumed 1 hr for dismantling, 1 tonne each
31		Concentrate filter feed pump	1								1.0		Yes	Small	1		1.0	0.0	0.1	0.0		assumed 1 hr for dismantling, 1 tonne each
32 33		Sump pump, 2" vert 5HP Truck scale	1		+		\vdash				1.0	Off-site Off-site	Yes Yes	Small Large	1 4	1.0	1.0	0.0	0.1	0.0	0.0	assumed 1 hr for dismantling, 1 tonne each
34 Tailings Filter Building	Mechanical equip.	Tailings pump	1				<u>├</u>				1.0	Off-site	Yes	Small	4	1.0	1.0	0.0	0.1	0.0		assumed 1 hr for dismantling, 1 tonne each
35	and the second s	Process water tank feed pum	2								2.0	Off-site	Yes	Small	2		2.0	0.0	0.1	0.0	0.0	assumed 1 hr for dismantling, 1 tonne each
			2	1	1						2.0	Off-site	Yes	Small	2		2.0	0.0	0.1	0.0	0.0	assumed 1 hr for dismantling, 1 tonne each
36		Tailings U/F Pumps	2												_							
		Belt filter feed pumps Belt filter	2		3.0						2.0		Yes	Small Large	2	2.0	2.0 0.0	0.0	0.1	0.0	0.0	assumed 1 hr for dismantling, 1 tonne each

ased on photos
notos
ased on photos
ased on photos
ce based on photos/AutoCAD
ased on site photos.

Small

Small

Small

Large

Small Small

Large Small

Small

90.0

50.0

44.6

11.5

10.4 0

1.0 Of

8.6 Of

1.5 Off-site 1.5 Off-site

180.00

57.39

36.56 22.05 51.75

22.95

21.33

39 40 41 50.01.02.4450.01.02.44 Large 16.0 16.0 ncentrate discharge co Large 0.0 ate stoc 2.1 2.44 16.0 Large 42 43 44 Small Small sh water pumps 2.0 0 2.0 0.0 0.0 20 0 2.0 0.0 01 water pum uum pump #1 2.0 Small 2.0 0.0 0.1 45 46 0.0 Small ilings filtrate pum lter area sump pump ailings area sump pum Small Small 1.0 1.0 0.0 47 48 1.0 0.0 0.0 12.2 1.0 Off 0.1 3.0 3.0 2.44 9.1 C 22.67 Large 0.7 49 ailings Area Boile 4.6 1.5 1.22 8.50 17 Small 0.0 2.3 01 50 51 52 oiler feed pumps oiler blower Small Small 2.0 Off-site 1.0 Off-site 2.0 0.0 0.1 10 0.0 0.1 2.0 2.0 0.0 piler fuel pumps -site Small 0.1 Small 53 2.0 Off-site 2.0 0.0 0.1 54 R nical equ Metering pumps Pax transfer pump 11.0 Off-site Small Small 11.0 0.0 0.8 Yes 55 56 1.0 Off-site 1.0 Off-site 1.0 0.0 1.0 0.0 Yes 0.1 ener flocc Yes Small 0.1 57 Mill Serv 58 1.0 Off-site 2.0 Off-site 1.0 0.0 2.0 0.0 Small Small 0.1 laim water pump lill water Pump 0.1 Yes 1.0 Off-2.0 Off-184.5 On-Small Small Small 59 60 1.0 0.0 2.0 0.0 lill water Booster Pu Yes 0.1 1.8 0.9 0.91 Plant air compressors Ball Mill and SAG Mill 1.53 site 0.1 61 246.0 0.0 62 Mill Building - Phase 2 22.9 1.5 0 Large Small 0.0 2.0 hanical equi /H Crane Ball Mill area 0.1 Yes 63 (64 ing area sum 2.0 2.0 0.0 01 3.0 4.6 3.05 8.6 11.4 42.5 pac 2x26' dia Large 0.0 0.6 65 66 1.0 2.0 Small Small Small Small 0.0 67 68 2.0 Of 1.0 Of 0.0 discharge pump 0.1 1.0 0.1 69 F 70 71 2.0 Small 2.0 0.0 0.0 12.8 tation feed pumps 9.6 Large Small tion cells 15m3 3.00 15.00 23.77 0.7 0.0 72 73 1.0 Small Small 1.0 0.0 0.1 10 10 0.0 01 74 75 76 Tai Rougher concentrate pump Floatation cells 100 cu. Ft Belt filter #3 (90m2 x 3m) 1.0 Of 2.7 Of 67.3 Of Small Small 1.0 0.0 0.1 2.00 18.3 3.0 6.10 .33511 2.80 334.62 8.3887 3.6 0.0 89.8 Large 4.8 0.0 77 esh water pumps 1.0 0 Small 1.0 0.0 0.0 78 1.0 Of 1.0 0.0 Small sh water pumps 0.1 79 80 81 cuum pump #3 1.0 Off-site Small 1.0 0.0 0.1 1.0 Small 1.0 0.0 0.1 ailings filtrate pur 2.44 0 30 22.67 4.6 6.1 03 Large SUBTOTAL - Mill Area Complex Mill Valley Fill Laydown 379 466 38 1 MVFL Small 0.0 0.0 0.0 106.4 472.5 0.0 2 6.0 2.00 1.00 Small eel rack 152 3 re racks 150.0 3.0 1.50 675 Small 0.0 0.0 4 5 100 2 1 40 2 2.5 200 200 140.0 O 140.0 O Small 0.0 0.0 ill Elect Small 0.0 0.0 50 2 6 70.0 Small 0.0 0.0 0.0 100 0.0 0.0 0.0 SUBTOTAL - Mill Valley Fill Laydo 0 0 Minto South Portal 0.0 2.0 0.0

30 16.0

5976 2.7439 3.0487

 9.1
 2.62
 1.52

 4.6
 2.13
 2.22

 5.9
 3.57
 2.44

8.2 3.05 0.91

7.8 1.83 1.50

6 SUBTOTAL - Water Treatment Plant

SUBTOTAL - Minto South Portal Pelly Laydown

1 Pelly Laydo

1 Area 11

1 Water T

2 3

4

5

SRK Consulting

SUBTOTAL - Pelly Laydown Vent Raises - Area 118

SUBTOTAL - Vent Raises - Area 1 Water Treatment Plant

1. Assumes steel material

2. See disassembly crew details below

Time to dismantle includes time to prepare for transport
 Where noted, demolition quantities were taken directly from the Hatch 2006 feasibility study.

P hu

5. HVAC equipment (fans, ducts, heater, etc.) assumed to be part of demo debris and considered as part of the wall thickness in Part A. 6. 'pick-p truck factor' = 20 m3 bulk volume ~ 4 tonnes

pane Fuel tan

QE skid #1 QE Skid #2

QE Skid #3

BQE Skid #4

0.0		
0.0		
0.0	accumed 1 br for dismontling, 1 toppo cook	
	assumed 1 hr for dismantling, 1 tonne each	
0.0	assumed 1 hr for dismantling, 1 tonne each assumed 1 hr for dismantling, 1 tonne each	
0.0	assumed 1 hr for dismantling, 1 tonne each	
0.0	assumed 1 hr for dismantling, 1 tonne each	
0.0	assumed 1 hr for dismantling, 1 tonne each	
0.0	assumed i mitor dismanting, i tonne each	
0.0		
0.0	assumed 1 hr for dismantling, 1 tonne each	
0.0	assumed 1 hr for dismantling, 1 tonne each	
0.0	assumed 1 hr for dismantling, 1 tonne each	
0.0	assumed 1 hr for dismantling, 1 tonne each	
0.0	assumed 1 hr for dismantling, 1 tonne each	
0.0	assumed 1 hr for dismantling, 1 tonne each	
0.0	assumed 1 hr for dismantling, 1 tonne each	
0.0	assumed 1 hr for dismantling, 1 tonne each	
0.0	assumed 1 hr for dismantling, 1 tonne each	
0.0	assumed 1 hr for dismantling, 1 tonne each	
0.0	<u> </u>	
263.6		
0.0	Assumed I-beam dimensions for crane rail, plus 0.5 tonne	es for crane
0.0	assumed 1 hr for dismantling, 1 tonne each	
0.0	pick-up truck factor applied	
0.0	assumed 1 hr for dismantling, 1 tonne each	
0.0		
0.0	assumed 1 hr for dismantling, 1 tonne each	
0.0	assumed 1 hr for dismantling, 1 tonne each	
0.0	assumed 1 hr for dismantling, 1 tonne each	
13.7	Assumed dimensions and steel thickness	
0.0		
0.0	assumed 1 hr for dismantling, 1 tonne each	
0.0	assumed 1 hr for dismantling, 1 tonne each	
0.0	assumed 1 hr for dismantling, 1 tonne each	
3.9		
0.0	dwg. 35-10-105; 'pick-up truck factor applied)	
0.0	assumed 1 hr for dismantling, 1 tonne each	
0.0	assumed 1 hr for dismantling, 1 tonne each	
0.0	assumed 1 hr for dismantling, 1 tonne each	
0.0	assumed 1 hr for dismantling, 1 tonne each	
0.0	pick-up truck factor applied	
325		
0.0		
152.0		
0.0		
200.0		
200.0		
100.0	<u> </u>	
652		
032		
0.0		
0.0	<u> </u>	
0.0		
0.0	<u> </u>	
0.0		
,		
0.0		
0.0	Assumed to be filled other materials and removed.	
71.4	Allowance based on photos	
0.0		
71		
0.0	Dwg. 9057-MGD; Mass of equipment listed on drawings.	
0		
0.0	Dwg. MIN-000-GA-01 and-02; pick-up truck factor applie	d
0.0	Dwg. MIN-000-GA-01 and-02	
0		

2.1

34

0.0

0.0

0.0

0.2

0.0

0.0

0.0

0.0

0.2

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0.0

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33

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9.8

0.0

0.0

0.0

10

10

2.0

1.9

0.0

0.0

2

1.0

1

10

1.0

0.5

1.0

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20

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13

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2.0

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0.0

0

15.4

0.0

0.0

0.0

13.9

11.4 0.0 17 29

0

0.0

0.0

0.0

Worksheet 19 - Mobilization-Demobilization Calculations

Project: Project No.: Client: Date of Submission: File Location: Minto Mine Closure Cost Estimate - RCP Rev. 2016-01 1CM002.045 Minto Explorations Ltd.

August 5, 2016 \\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\Cost Estimate\

A: Equipment Mobilization - Year 0

Equipme	nt																										
•••						Breakdo	own and Ass	sembly Time																			
			Equipn	nent Input			(each)				т	ransport Time (each)								Calculations						
											Average	Average		# of Pilot		Total	Breakdown-			Total				Total			
			Shipping	Transport	Transport			Mechanic		Shipping	Speed to	Speed from	Loading and	Vehicles		Mechanic		Travel Time		Travel		Transport	Transport	Transport			
Equip.			Weight	Vehicle 1	Vehicle #2	n Time	Assembly	Workforce	Shipping	Distance	Barge	Barge to Site	Off-Loading	required per	Meals/Hotel	Hourly Rate		to Barge	Barge to Site	Time (1-	Equipment	Vehicle 1	Vehicle 2	Cost per		TOTAL	
Code	Equipment	Qnty	(tonne)	(axles)	(axles)	(hrs)	Time (hrs)	Size	Origin	(km)	(km/hr)	(km/hr)	Time (hrs)	equip.	Allowance (\$)	(\$/hr)	Equip.	(hrs)	(hrs)	way) (hrs)	Rate	Hourly Rate	Hourly Rate	Equip.	Per Equip.	COST Co	omments/Notes
E.03.1	CAT D6R	1	18	5	0	4	4	3	Whitehorse	283	80	35	3	0	\$50	\$190.79	\$1,526	4	1.1	5	\$77.93	\$83.60	\$0.00	\$1,695.25	\$3,222	\$3,222	
E.03.2	CAT D8R	2	38	8	0	4	8	3	Whitehorse	283	80	35	3	2	\$50	\$190.79	\$2,289	4	1.1	5	\$128.82	\$109.66	\$0.00	\$3,266.85	\$5,556	\$11,113	
E.03.3	CAT D10T	2	66	8	5	4	8	3	Whitehorse	283	80	35	3	2	\$100	\$190.79	\$2,289	4	1.1	5	\$195.11	\$109.66	\$83.60	\$4,850.22		\$14,279	
E.05.1	CAT 330	3	35	7	0	4	4	3	Whitehorse	283	80	35	3	0	\$50	\$190.79	\$1,526	4	1.1	5	\$84.35	\$107.05	\$0.00	\$2,032.43	\$3,559	\$10,676	
E.05.2	CAT 385	1	83	8	8	8	16	3	Whitehorse	283	80	35	3	2	\$100	\$190.79	\$4,579	4	1.1	5	\$178.39	\$109.66	\$109.66	\$5,042.57	\$9,622	\$9,622	
E.06.2	CAT 16M	1	25	6	0	4	4	3	Whitehorse	283	80	35	3	0	\$50	\$190.79	\$1,526	4	1.1	5	\$70.42	\$92.51	\$0.00	\$1,747.32	\$3,274	\$3,274	
E.07.2	CAT 735	5	30	6	0	4	4	3	Whitehorse	283	80	35	3	0	\$50	\$190.79	\$1,526	4	1.1	5	\$71.87	\$92.51	\$0.00	\$1,758.40	\$3,285	\$16,424	
E.07.4	CAT 773G	5	45	8	5	4	12	3	Whitehorse	283	80	35	3	2	\$100	\$190.79	\$3,053	4	1.1	5	\$96.30	\$109.66	\$83.60	\$4,095.23		\$35,739	
E.08.1	Hydraulic Crane, 30Ton	1	30	7	0	4	4	3	Whitehorse	283	80	35	3	2	\$100	\$190.79	\$1,526	4	1.1	5	\$81.87	\$107.05	\$0.00	\$2,926.12	\$4,452	\$4,452	
	CAT 950H	1	18	5	0	4	4	3	Whitehorse	283	80	35	3	0	\$100	\$190.79	\$1,526	4	1.1	5	\$62.08	\$83.60	\$0.00	\$1,624.15	\$3,150	\$3,150	
E.09.2	CAT 990	1	78	8	8	8	16	3	Whitehorse	283	80	35	3	2	\$100	\$190.79	\$4,579	4	1.1	5	\$105.45	\$109.66	\$109.66	\$4,485.20	\$9,064	\$9,064	
E.10.2	Fuel Truck	1	n/a	0	0	0	0	0	Whitehorse	283	80	60	3	0	\$100	\$0.00	\$0	4	0.8	4	\$4.97	\$43.81	\$0.00	\$668.28	\$668	\$668	
E.10.4	Highway Service/Flatbed Truck (HIAB) 5 ton	1	n/a	0	0	0	0	0	Whitehorse	283	80	60	3	0	\$100	\$0.00	\$0	4	0.8	4	\$7.22	\$43.81	\$0.00	\$684.74	\$685	\$685	
E.10.12	Water Truck (5,000 gal)	1	n/a	0	0	0	0	0	Whitehorse	283	80	60	3	0	\$100	\$0.00	\$0	4	0.8	4	\$16.56	\$43.81	\$0.00	\$753.09	\$753	\$753	
E.11.2	Boomlift: 60' articulating	1	10	2	0	0	0	0	Whitehorse	283	80	60	3	0	\$100	\$0.00	\$0	4	0.8	4	\$25.00	\$35.74	\$0.00	\$720.97	\$721	\$721	
	Bus: Passenger Bus (24 person cap.)	1	n/a	0	0	0	0	0	Whitehorse	283	80	50	3	0	\$100	\$0.00	\$0	4	0.9	4	\$75.30	\$42.81		\$1,186.17	\$1,186	\$1,186	
E.11.7	Crusher (200 Tons/hr)	1	25	8	8	8	16	3	Whitehorse	283	80	35	3	2	\$100	\$190.79	\$4,579	4	1.1	5	\$150.00	\$109.66	\$109.66	\$4,825.63	\$9,405	\$9,405	
E.11.10	Emergency Transport Vehicle	1	n/a	0	0	0	0	0	Whitehorse	283	80	60	0	0	\$0	\$0.00	\$0	4	0.8	4	\$150.30	\$42.81	\$0.00	\$1,019.18	\$1,019	\$1,019	
E.11.18	Screener (finley 583) (~400tonnes/hr)	1	75	8	8	8	16	3	Whitehorse	283	80	35	3	2	\$100	\$190.79	\$4,579	4	1.1	5	\$183.00	\$109.66	\$109.66	\$5,077.79	\$9,657	\$9,657	
n/a	Misc. Equipment/Supplies	4	#N/A	8	0	0	0	0	Whitehorse	283	80	40	3	0	\$100	\$0.00	\$0	4	1.0	5	\$0.00	\$109.66	\$0.00	\$1,448.40	\$1,448	\$5,794	
TOTAL -	Equipment Mobilization Costs																									\$152,605	

Notes:
 1. See Transport vehicle details below for number capacity.
 2. Loading and off-loading time is a total (ie. Include both loading and unloading).
 3. Calculations include costs for transport vehicles to return to shipping origin.
 4. Mob costs for materials are included in the material rates.

B: Equipment Demobilization - End of Post-Closure 2

1. Demobilization assumed to consist of the same equipment assumed in the Year 0 mobilization, EXCEPT for a reduced fleet that is assumed to remain for post closure maintenance/repairs activities.

Equip. Code	Equipment to remain during post closure	Qnty	TOTAL MOB COST (from Part A)
E.03.1	CAT D6R	1	\$3,222
E.05.1	CAT 330	1	\$3,559
E.07.2	CAT 735	2	\$3,285
E.09.1	CAT 950H	1	\$3,150
E.06.2	CAT 16M	1	\$3,274
TOTAL:			\$16,489

TOTAL Equipment Demobilization Cost at end of Active Closure: \$136,116

C: Equipment Mobilization - Perpetual Care Year

Fauipment

Equipin						Breakdo	wn and Ass	sembly Time																			
			Equipr	nent Input		Dicakao	(each)	childry fillie			Tr	ansport Time (e	ach)								Calculations						
			1	1							Average	Average		# of Pilot		Total	Breakdown-			Total				Total			
				Transport	Transport	Breakdow	,	Mechanic		Shipping	Speed to	Speed from	Loading and	Vehicles		Mechanic	Assembly	Travel Time	Travel Time	Travel		Transport	Transport	Transport			
Equip.			Shipping	Vehicle 1	Vehicle #2	n Time	Assembly	Workforce	Shipping	Distance	Barge	Barge to Site	Off-Loading	required per	Meals/Hotel	Hourly Rate	Cost Per	to Barge	Barge to Site	Time (1-	Equipment	Vehicle 1	Vehicle 2	Cost per	Total cost	TOTAL	
Code	Equipment	Qnty	Weight (kg)	(axles)	(axles)	(hrs)	Time (hrs)	Size	Origin	(km)	(km/hr)	(km/hr)	Time (hrs)	equip.	Allowance (\$)	(\$/hr)	Equip.	(hrs)	(hrs)	way) (hrs)	Rate	Hourly Rate	Hourly Rate	Equip.	Per Equip.	COST	Comments/Notes
.03.1	CAT D6R	1	18	5	0	4	4	3	Whitehorse	283	80	35	3	0	\$50	\$190.79	\$1,526	4	1.1	5	\$77.93	\$83.60	\$0.00	\$1,695.25	\$3,222	\$3,222	
.05.1	CAT 330	1	35	7	0	4	4	3	Whitehorse	283	80	35	3	0	\$50	\$190.79	\$1,526	4	1.1	5	\$84.35	\$107.05	\$0.00	\$2,032.43	\$3,559	\$3,559	
.07.2	CAT 735	2	30	6	0	4	4	3	Whitehorse	283	80	35	3	0	\$50	\$190.79	\$1,526	4	1.1	5	\$71.87	\$92.51	\$0.00	\$1,758.40	\$3,285	\$6,569	
.09.1	CAT 950H	1	18	5	0	4	4	3	Whitehorse	283	80	35	3	0	\$50	\$190.79	\$1,526	4	1.1	5	\$62.08	\$83.60	\$0.00	\$1,574.15	\$3,100	\$3,100	
.10.4	Highway Service/Flatbed Truck (HIAB) 5 ton	1	n/a	0	0	0	0	0	Whitehorse	283	80	60	0	0	\$50	\$0.00	\$0	4	0.8	4	\$7.22	\$43.81	\$0.00	\$459.70	\$460	\$460	
n/a	MISC. Equipment	1	#N/A	8	0	0	0	0	Whitehorse	283	80	40	3	0	\$50	\$0.00	\$0	4	1.0	5	\$0.00	\$109.66	\$0.00	\$1,398.40	\$1,398	\$1,398	Fuel tanks, etc.
TOTAL	Equipment Mobilization Costs																									\$18,308	

 Notes:

 1. See Transport vehicle details below for number capacity.

 2. Loading and off-loading time is a total (i.e., Include both loading and unloading).

 3. Calculations include costs for transport vehicles to return to shipping origin.

 Worksheet 20 - Monitoring Costs

 Project:
 Minto Mine Closure Cost Estimate - RCP Rev. 2016-01

 Project:
 Ninto Explorations Ltd.

 Date of Subriaguest 5, 2016

 File Location/WVAN-SVR0/Projects/01_SITES/Minto/1CM002.045_ClosureCosts/ICost Estimate/

Summary of Monitoring Costs Per Event

	Annu	al Cost Pe	r Phase				
	1 - Interim	2 - Active	3 - PC 1	4 - PC 2	5 - Perpetual	n/a	Comments/Notes
1 Water Quality Monitoring	\$43,497	\$58,812	\$47,712	\$23,763	\$24,214	\$0	
2 Sediment Monitoring	\$3,208	\$3,208	\$3,208	\$3,208	\$3,208	\$0	Assumes samples collected during water quality sampling.
3 Biological Monitoring	\$10,594	\$10,594	\$10,594	\$10,594	\$10,594	\$0	
4 Geotechnical Monitoring	\$12,316	\$12,316	\$12,316	\$23,188	\$23,188	\$0	
5 Revegetation Monitoring	\$0	\$10,530	\$10,530	\$10,530	\$10,530	\$0	
6 Annual Inspection Reporting	\$2,372	\$2,372	\$2,372	\$23,900	\$23,900	\$0	

Monitoring Schedule and Total Cost Summary

		# of Years					
	1 - Interim	2 - Active	3 - PC 1	4 - PC 2	5 - Perpetual	TOTAL COST	Comments/Notes
1 Water Quality Monitoring	2	3	5	10	9	\$957,544	
2 Sediment Monitoring	2	3	3	2	9	\$60,952	
3 Biological Monitoring	2	3	3	2	9	\$201,287	
4 Geotechnical Monitoring	2	3	5	2	9	\$378,234	
5 Revegetation Monitoring	0	3	5	2	9	\$200,071	
6 Annual Inspection Reporting	2	3	5	2	9	\$286,620	
Scenario							

	1 - Interim	2 - Active	3 - PC 1	4 - PC 2	5 - Perpetual	TOTAL COST	Comments/Notes
1 Water Quality Monitoring	0	3	5	10	9	\$870,551	
2 Sediment Monitoring	0	3	3	2	9	\$54,536	
3 Biological Monitoring	0	3	3	2	9	\$180,099	
4 Geotechnical Monitoring	0	3	5	2	9	\$353,601	
5 Revegetation Monitoring	0	3	5	2	9	\$200,071	
6 Annual Inspection Reporting	0	3	5	2	9	\$281,876	

NOTES: 1. These tables are used as a check to the NPV calculation spreadsheets. Phase 1 - Annual Monitoring Costs - Prior to Closure

							Unit Rates			Activ	ity Totals			
						Material	Unit Nates	Equipme		Acuv	ity rotais			
			Crew/			Cost	Labour Rate	nt Rate	Material	Labour	Equipment		Sub-	
WBS	Facility/Area	Task	Qnty	Unit	Hours	(\$/unit)	(\$/hr)	(\$/hr)	Cost	Cost	Cost	Cost	Totals	Source / Comments
M1.1	Water Quality Monitoring												\$43,497	
M1.1.1		Collect water quality sampleing (by onsite staf	2	ea	144		\$44	\$13		\$12,559	\$1,807	\$14,367		
M1.1.2		Complete lab testing	163	yr		\$150			\$24,450			\$24,450		
M1.1.3		Reporting	1	ea	40		\$117			\$4,680		\$4,680		
M1.2	Sediment Monitoring												\$3,208	
M1.2.1		Collect data/samples	2	ea	0		\$44	\$13		\$0.00	\$0.00	\$0		
M1.2.2		Laboratory Analysis	2	ea		\$200			\$400			\$400		
M1.2.3		Reporting	1	ls	24		\$117			\$2,808		\$2,808		
M1.3	Biological Monitoring												\$10,594	
M1.3.1		Consultant travel - Whitehorse to/from site		ls	8.1	\$50	\$117		\$100	\$1,892		\$1,992		
M1.3.2		Truck Rental (inc. fuel)	3	days				\$350			\$1,050	\$1,050		
M1.3.3		Collect data/samples	2	ls	8		\$117			\$1,872		\$1,872		
M1.3.4		Laboratory Analysis	10			\$100			\$1,000			\$1,000		
M1.3.5		Reporting	1	ls	40		\$117			\$4,680		\$4,680		
M1.4	Geotechnical Monitoring												\$12,316	
M1.4.1.1	Annual Geotech Inspection	Consultant travel - Whitehorse to/from site	1	ls	8.1	\$50	\$117		\$50	\$946		\$996		
M1.4.1.2		Truck Rental (inc. fuel)	3	days				\$350			\$1,050	\$1,050		
M1.4.1.3		Site Inspection		ls	12		\$117			\$1,404		\$1,404		
M1.4.1.4		Reporting		ls	40		\$117			\$4,680		\$4,680		
M1.4.2.1	Instrumentation Monitoring	Collect data, plot and review trends	1	ls	96		\$44			\$4,186		\$4,186		
M1.5	Annual Reclamation Repor												\$2,372	
M1.5.1		Reporting	1	ls	16	\$500	\$117		\$500	\$1,872		\$2,372		
TOTAL												\$71,987	\$71,987	

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Phase 2 - Annual Monitoring Costs - Active Closure

							Unit Rates			Activi	ty Totals			
						Material		Equipme						
			Crew/			Cost	Labour Rate	nt Rate	Material		Equipment		Sub-	
WBS	Facility/Area	Task	Qnty	Unit	Hours	(\$/unit)	(\$/hr)	(\$/hr)	Cost	Cost	Cost	Cost	Totals	Source / Comments
M2.1	Water Quality Monitoring												\$58,812	
M2.1.1	Sampling during camp ops.	Collect water quality sampleing (by onsite staf		ea	42		\$44	\$13		\$3,663	\$1,054.17	\$4,717		
M2.2.1	Winter sampling	Helicopter time (5 months)	5	ea	2.25		\$48	\$1,600		\$534	\$18,000	\$18,534		Helicopter cost based on onsite costs
M2.2.2		Consultant time incl. travel		ea	8		\$117			\$4,680		\$4,680		1 consultant
M2.2.3		Car Rental (inc. fuel)	5	days				\$350			\$1,750	\$1,750		
M2.3.1	Lab testing	Complete lab testing	163	ea		\$150			\$24,450			\$24,450		
M2.3.2		Reporting	1	ea	40		\$117			\$4,680		\$4,680		
M2.2	Sediment Monitoring												\$3,208	
M2.2.1		Collect data/samples		ea	0		\$44	\$13		\$0	\$0	\$0		
M2.2.2		Laboratory Analysis	2	ea		\$200			\$400			\$400		
M2.2.3		Reporting	1	ls	24		\$117			\$2,808		\$2,808		
M2.3	Biological Monitoring												\$10,594	
M2.3.1		Consultant travel - Whitehorse to/from site	2	ls	8.1	\$50	\$117		\$100	\$1,892		\$1,992		
M2.3.2		Truck Rental (inc. fuel)		days				\$350			\$1,050	\$1,050		
M2.3.3		Collect data/samples	2	ls	8		\$117			\$1,872		\$1,872		
M2.3.4		Laboratory Analysis	10	ea		\$100			\$1,000			\$1,000		
M2.3.5		Reporting	1	ls	40		\$117			\$4,680		\$4,680		
M2.4	Geotechnical Monitoring												\$12,316	
M2.4.1.1	Annual Geotech Inspection	Consultant travel - Whitehorse to/from site	1	ls	8.1	\$50	\$117		\$50	\$946		\$996		
M2.4.1.2		Truck Rental (inc. fuel)	3	days				\$350			\$1,050	\$1,050		
M2.4.1.3		Site Inspection	1	ls	12		\$117			\$1,404		\$1,404		
M2.4.1.4		Reporting	1	ls	40		\$117			\$4,680		\$4,680		
M2.4.2.1	Instrumentation Monitoring	Collect data, plot and review trends	1	ls	96		\$44			\$4,186		\$4,186		
M2.5	Reclamation Monitoring												\$10,530	
M2.5.1		Consultant travel - Whitehorse to/from site	2	ls	8.1	\$50	\$117		\$100	\$1,892		\$1,992		
M2.5.2		Truck Rental (inc. fuel)	3	days				\$350			\$1,050	\$1,050		
M2.5.3		Inspect vegetation	2	ls	12		\$117			\$2,808		\$2,808		
M2.5.4		Reporting	1	ls	40		\$117			\$4,680		\$4,680		
M2.6	Annual Reclamation Report	ts											\$2,372	
M2.6.1		Reporting	1	ls	16	\$500	\$117		\$500	\$1,872		\$2,372		
TOTAL												\$97,832	\$97,832	

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TOTAL NOTES:

NOTES: 1. Assumes water quality sampling completed by site personnel when camp in operation, and by helicopter during the winter months 2. Assumes sediment samples collected during water quality sampling. 3. Assumes biological sampling completed by consultants based in Whitehorse, and sampling takes place while barge in place. 4. Assumes geotechnical instrumentation readings collected and plotted by on-site staff. 5. Assumes annual reclamation report compiled by on-site staff whose salary is included in indirect costs; cost included here is for additianal consultant review.

Phase 3 - Annual Monitoring Costs - Post-Closure 1

							Unit Rates			Activi	ty Totals			
						Material		Equipme						
			Crew/			Cost	Labour Rate	nt Rate	Material		Equipment		Sub-	
WBS	Facility/Area	Task	Qnty	Unit	Hours	(\$/unit)	(\$/hr)	(\$/hr)	Cost	Cost	Cost	Cost	Totals	Source / Comments
13.1	Water Quality Monitoring												\$47,712	
3.1.1.1	Sampling during camp ops.	Collect water quality samples	2	ea	42		\$44	\$13		\$3,663	\$1,054	\$4,717		
13.1.2.1	Winter sampling	Helicopter time (5 months)	5	ea	2.25		\$48	\$1,600		\$534	\$18,000	\$18,534		Helicopter cost based on onsite costs
3.1.2.2		Consultant time incl. travel		ea	8		\$117			\$4,680		\$4,680		1 consultant
3.1.2.3		Car Rental (inc. fuel)	5	days				\$350			\$1,750	\$1,750		
3.1.3.1	Lab testing	Complete lab testing	89	ea		\$150			\$13,350			\$13,350		
3.1.3.2		Reporting	1	ea	40		\$117			\$4,680		\$4,680		
3.2	Sediment Monitoring (Bi - /	Annual)											\$3,208	
3.2.1		Collect data/samples	2	ea	0		\$44	\$13		\$0.00	\$0.00	\$0		Samples collected during water sampling
3.2.2		Laboratory Analysis	2	ea		\$200			\$400			\$400		
13.2.3		Reporting	1	ls	24		\$117			\$2,808		\$2,808		
3.3	Biological Monitoring (Bi-A	nnual)											\$10,594	
3.3.1		Consultant travel - Whitehorse to/from site	2	ls	8.1	\$50	\$117		\$100	\$1,892		\$1,992		
3.3.2		Truck Rental (inc. fuel)	3	days				\$350			\$1,050	\$1,050		
3.3.3		Collect data/samples	2	ls	8		\$117			\$1,872		\$1,872		
3.3.4		Laboratory Analysis	10	ea		\$100			\$1,000			\$1,000		
3.3.5		Reporting	1	ls	40		\$117			\$4,680		\$4,680		
3.4	Geotechnical Monitoring												\$12,316	
3.4.1.1	Annual Geotech Inspection	Consultant travel - Whitehorse to/from site	1	ls	8.1	\$50	\$117		\$50	\$946		\$996		
3.4.1.2		Truck Rental (inc. fuel)	3	days				\$350			\$1,050	\$1,050		
3.4.1.3		Site Inspection	1	ls	12		\$117			\$1,404		\$1,404		
3.4.1.4		Reporting	1	ls	40		\$117			\$4,680		\$4,680		
3.4.2.1	Instrumentation Monitoring	Collect data, plot and review trends	1	ls	96		\$44			\$4,186		\$4,186		
3.5	Reclamation Monitoring												\$10,530	
3.5.1		Consultant travel - Whitehorse to/from site	2	ls	8.1	\$50	\$117		\$100	\$1,892		\$1,992		
3.5.2		Truck Rental (inc. fuel)	3	davs				\$350			\$1.050	\$1,050		
3.5.3		Inspect vegetation	2	ls	12		\$117			\$2,808		\$2,808		
3.5.4		Reporting	1	ls	40		\$117			\$4,680		\$4,680		
3.6	Annual Reclamation Report												\$2,372	
3.6.1		Reporting	1	ls	16	\$500	\$117		\$500	\$1,872		\$2,372	,	
DTAL	1											\$86,732	\$86,732	

NOTES: 1. Assumes water quality sampling completed by site personnel when camp in operation, and by helicopter during the winter months 2. Assumes sediment samples collected during water quality sampling. 3. Assumes biological sampling completed by consultants based in Whitehorse, and sampling takes place while barge in place. 4. Assumes geotechnical instrumentation readings collected and plotted by on-site staff. 5. Assumes annual reclamation report compiled by on-site staff whose salary is included in indirect costs; cost included here is for additianal consultant review.

Phase 4 - Annual Monitoring Costs - Post-Closure 2

4.1 Wate 4.1.1 4.1.2 4.1.3 4.1.4 4.1.5	liment Monitoring (Bi - A	Task Helicopter time (3 rounds) Consultant time incl. travel Car Rental (inc. fuel) Complete lab testing Reporting Innual)	3 3 18	Unit ea ea days ea	Hours 2.25 12	Material Cost (\$/unit)	Labour Rate (\$/hr) \$48	Equipme nt Rate (\$/hr)	Material Cost	Labour Cost	Equipment Cost	Cost	Sub- Totals \$23.763	Source / Comments
4.1 Wate 4.1.1 4.1.2 4.1.3 4.1.4 4.1.5 4.2 Sedir	ter Quality Monitoring liment Monitoring (Bi - A	Helicopter time (3 rounds) Consultant time incl. travel Car Rental (inc. fuel) Complete lab testing Reporting	Qnty 3 3 18	ea ea days	2.25		(\$/hr)	(\$/hr)				Cost	Totals	
4.1 Wate 4.1.1 4.1.2 4.1.3 4.1.4 4.1.5 4.2 Sedir	ter Quality Monitoring liment Monitoring (Bi - A	Helicopter time (3 rounds) Consultant time incl. travel Car Rental (inc. fuel) Complete lab testing Reporting	3 3 3 18	ea ea days	2.25	(\$/unit)			Cost	Cost	Cost	Cost		
4.1.1 4.1.2 4.1.3 4.1.4 4.1.5 4.2 Sedir	liment Monitoring (Bi - A	Consultant time incl. travel Car Rental (inc. fuel) Complete lab testing Reporting	3 3 18	ea days			\$48							
4.1.2 4.1.3 4.1.4 4.1.5 4.2 Sedir	liment Monitoring (Bi - A	Consultant time incl. travel Car Rental (inc. fuel) Complete lab testing Reporting	3 3 18	ea days			\$48						\$23,763	
4.1.3 4.1.4 4.1.5 4.2 Sedir	liment Monitoring (Bi - A	Car Rental (inc. fuel) Complete lab testing Reporting	3 18	days	12			\$1,600		\$321	\$10,800	\$11,121		Helicopter cost based on onsite costs
4.1.4 4.1.5 4.2 Sedir	liment Monitoring (Bi - A	Complete lab testing Reporting	18				\$117			\$4,212		\$4,212		1 consultant
4.1.5 4.2 Sedir	liment Monitoring (Bi - A	Reporting		ea				\$350			\$1,050	\$1,050		
4.2 Sedir	liment Monitoring (Bi - A		1			\$150			\$2,700			\$2,700		
	- ,	(nnual)		ea	40		\$117			\$4,680		\$4,680		
4.2.1													\$3,208	
		Collect data/samples		ea	0		\$44	\$13		\$0.00	\$0.00	\$0		Samples collected during water sampling
4.2.2		Laboratory Analysis	2	ea		\$200			\$400			\$400		
4.2.3		Reporting	1	ls	24		\$117			\$2,808		\$2,808		
	logical Monitoring (Bi-A												\$10,594	
4.3.1		Consultant travel - Whitehorse to/from site		ls	8.1	\$50	\$117		\$100	\$1,892		\$1,992		
4.3.2		Truck Rental (inc. fuel)		days				\$350			\$1,050	\$1,050		
4.3.3		Collect data/samples	2	ls	8		\$117		\$0	\$1,872		\$1,872		
4.3.4		Laboratory Analysis	10	ea		\$100			\$1,000			\$1,000		
4.3.5		Reporting	1	ls	40		\$117			\$4,680		\$4,680		
4.4 Geote	otechnical Monitoring												\$23,188	
		Consultant travel/on-site time		ea	16.0	\$50	\$117		\$100	\$3,744		\$3,844		
4.4.2		Car Rental (2 days)	2	days				\$350			\$700	\$700		
4.4.3		Helicopter time	1	ea	5		\$48	\$1,600		\$238	\$8,000	\$8,238		
4.4.4		Instrumentation review	1	ls	24		\$44			\$1,047		\$1,047		
4.4.5		Reporting/Maintenance Planning	1	ls	80		\$117			\$9,360		\$9,360		
4.5 Recla	lamation Monitoring												\$10,530	
4.5.1		Consultant travel - Whitehorse to site		ls	8.1	\$50	\$117		\$100	\$1,892		\$1,992		
4.5.2		Truck Rental (inc. fuel)	3	days				\$350			\$1,050	\$1,050		
4.5.3		Inspect vegetation	2	ls	12		\$117		\$0	\$2,808		\$2,808		
4.5.4		Reporting	1	ls	40		\$117			\$4,680		\$4,680		
	nual Reclamation Report												\$23,900	
4.6.1		Reporting	1	ls	200	\$500	\$117		\$500	\$23,400		\$23,900		Includes as-built reporting
DTAL												\$95,183	\$95,183	
DTES:														
		is of sampling completed by helicopter from C	armacks, ar	nd one rou	und when the	e barge is i	n place.							
		uring water quality sampling.												
		by consultants based in Whitehorse, and sam												
		completed by helicopter. Two consultants ass	sumed to be	present to	o also collec	t geotech d	ata. The inspect	ion is also	used to dete	rmine the s	ite maintenar	nce required f	or the year	r.
Assumes annua	ual reclamation report corr	npiled by outsite consultants.												

Phase 5 - Annual Monitoring Costs - Perpetual Maintenance Year

//Area						Unit Rates			Activit	y Totals			
/Aroa					Material		Equipme						
		Crew/			Cost	Labour Rate	nt Rate	Material		Equipment		Sub-	
	Task	Qnty	Unit	Hours	(\$/unit)	(\$/hr)	(\$/hr)	Cost	Cost	Cost	Cost	Totals	Source / Comments
Quality Monitoring												\$24,214	
	Helicopter time (3 rounds)		8 ea	2.25		\$48	\$1,600		\$321	\$10,800	\$11,121		Helicopter cost based on onsite costs
				12		\$117			\$4,212				1 consultant
							\$350			\$1,050			
					\$150			\$2,700					
	Reporting	1	ea	40		\$117			\$4,680		\$4,680		
ent Monitoring													
				0		\$44	\$13		\$0.00	\$0.00			Collected during water sampling
					\$200			\$400					
	Reporting	1	Is	24		\$117			\$2,808		\$2,808		
ical Monitoring												\$10,594	
				8.1	\$50	\$117		\$100	\$1,892				
							\$350			\$1,050			
				8		\$117			\$1,872				
					\$100			\$1,000					
	Reporting	1	ls	40		\$117			\$4,680		\$4,680		
												\$23,188	
Geotech Inspection				16.0	\$50	\$117		\$100	\$3,744				
				-									
				5			\$1,600			\$8,000			
	Reporting/Maintenance Planning		IS	80		\$117			\$9,360		\$9,360	640 500	
nation wonitoring	Orana da anti-			0.4	650	6447		6400	64.000		64.000	\$10,530	
				8.1	300	\$117	6050	\$100	\$1,892	64.050			
				10		6447	\$350		£0.000	\$1,050			
Declamation Dense			15	40		\$117			φ4,000		\$4,000	£00.000	
Reclamation Repor				200	\$500	\$117		\$500	\$22.400		\$22,000		Includes Asbuilt reporting
	Reporting		115	200	\$300	3117		\$300	323,400		\$95,635	\$95.635	
											493,033	435,055	
	nt Monitoring cal Monitoring deotech Inspection ation Monitoring Reclamation Repor	Consultant time incl. travel Car Rental (inc. tuei) Car Rental (inc. tuei) Complete lab testing Reporting Collect clata/samples Laboratory Analysis Reporting Consultant travel - Whitehorse to/from site Truck Rental (inc. fuei) Collect clata/samples Laboratory Analysis Reporting Monitoring Geotech Inspection Consultant travel - Whitehorse to/from site Truck Rental (inc. fuei) Collect clata/samples Laboratory Analysis Reporting/Maintenance Planning	Consultant time incl. travel Car Car Rental (inc. Lug) Car Complete lab testing 11 Reporting Car Aboratory Analysis Car Reporting Car Collect clata/samples Car Consultant travel - Whitehorse to/from site Car Reporting Car Aboratory Analysis Car Reporting/Maintenance Planning Car Abinetoning Car Consultant travel/on-site time Car Car Rental (2 days) Car Helicopter time Car Inspect vegetation Car Reporting/Maintenance Planning Car Consultant travel - Whitehorse to site Car Track Rental (inc. tue) Car Inspect vegetation Car Reporting Car Reporting Car <td< td=""><td>Consultant time ind. travel 3 days Car Rental (inc. fuel) 3 days Car Rental (inc. fuel) 3 days Reporting 1 ea nt Monitoring Collect data/samples 2 ea Reporting 2 ea Reporting 1 is Consultant travel - Whitehorse to/from site 3 days Collect data/samples 2 is Laboratory Analysis 1 is Consultant travel - Whitehorse to/from site 3 days Collect data/samples 1 is Reporting 1 is Consultant travel/on-site time 2 days Helicopter time 1 is Reporting 1 is Consultant travel/on-site time 2 days Laboratory Analysis 1 is Reporting 1 is Consultant travel/on-site time 2 days Laboratory Analysis 1 is Consultant travel/on-site time 2 days Laborator time 2 days Instrumentation review 1 is Reporting/Maintenance Planning 2 is<td>Consultant time ind. travel 3 days 12 Car Rental (nc. fuel) 3 days 4 Carpete lab testing 18 4 Reporting 18 4 Reporting 2 4 Complete lab testing 2 4 Reporting 2 4 0 Laboratory Analysis 2 2 0 Consultant travel - Whitehorse to/from site 3 days 8 Collect data/samples 2 8 8 8 Collect data/samples 1 5 44 9 Consultant travel - Whitehorse to/from site 10 8 8 8 Collect data/samples 10 8 40 9 16 <t< td=""><td>Consultant time ind. travel 3 days 12 Car Rental (nc. fue) 3 days 18 - 440 Reporting 18 - 0 - 0 Reporting 2 - 0</td><td>Consultant time incl. travel 3 ear 12 \$117 Car Rental (inc. lue) 3 days 18 2 5150 Reporting 18 2 0 \$117 Int Monitoring Collect data/samples 2 0 \$117 Reporting 18 0 0 \$117 Reporting 2 0 \$117 \$117 Consultant travel - Whitehorse to/from site 2 0 \$117 \$117 Collect data/samples 2 0 0 \$117 \$117 Collect data/samples 2 0 0 \$117 \$117 Collect data/samples 10 0 0 \$117 \$117 Collect data/samples 10 0 0 \$117 \$117 Gatoratory Analysis 10 0 0 \$117 \$117 Heicopter time 1 0 0 \$117 \$117 Gatoratory Analysis 10 0 0 \$117</td><td>Consultant time incl. travel: 3 ea 12 \$117 \$133 Car Rental (nc. fuel) 3 days 40 \$150 \$350 Reporting 10 40 \$10 \$10 \$360 \$350 \$350 Int Monitoring Collect data/samples 2 0 \$200 \$10 \$350 \$117 \$118 \$350 \$117 \$100</td><td>Consultant time incl. travel: 3 ea 12 \$117 \$135 \$2,700 Car Rental (cn. (ue)) 80 400 \$150 \$350 \$2,700 Reporting 16 a 400 \$100</td><td>Consultant time incl. travel 3 e a 12 \$100 <t< td=""><td>Consultant time ind. travel Car Retait (nc. fue) Si a (a) (a) (a) (a) (a) (a) (a) (a) (a) (a)</td><td>Consultant time ind. travel 3 days 12 3 days 3 flaws 12 3 flaws 535 54212 5422 5435 54,680 54,680 54,680 54,680 55,080 55,080 52,700</td><td>Consultant time ind. travel 3 i days 12 S117 S13 54.21 54.62 54.664 Car Reati (inc. fue) 18 - 40 5150 5350 52.00 54.00 51.00 52.00 52.00 52.00 52.00 53.00 52.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 54.00 53.00 53.00 53.00 53.00 53.</td></t<></td></t<></td></td></td<>	Consultant time ind. travel 3 days Car Rental (inc. fuel) 3 days Car Rental (inc. fuel) 3 days Reporting 1 ea nt Monitoring Collect data/samples 2 ea Reporting 2 ea Reporting 1 is Consultant travel - Whitehorse to/from site 3 days Collect data/samples 2 is Laboratory Analysis 1 is Consultant travel - Whitehorse to/from site 3 days Collect data/samples 1 is Reporting 1 is Consultant travel/on-site time 2 days Helicopter time 1 is Reporting 1 is Consultant travel/on-site time 2 days Laboratory Analysis 1 is Reporting 1 is Consultant travel/on-site time 2 days Laboratory Analysis 1 is Consultant travel/on-site time 2 days Laborator time 2 days Instrumentation review 1 is Reporting/Maintenance Planning 2 is <td>Consultant time ind. travel 3 days 12 Car Rental (nc. fuel) 3 days 4 Carpete lab testing 18 4 Reporting 18 4 Reporting 2 4 Complete lab testing 2 4 Reporting 2 4 0 Laboratory Analysis 2 2 0 Consultant travel - Whitehorse to/from site 3 days 8 Collect data/samples 2 8 8 8 Collect data/samples 1 5 44 9 Consultant travel - Whitehorse to/from site 10 8 8 8 Collect data/samples 10 8 40 9 16 <t< td=""><td>Consultant time ind. travel 3 days 12 Car Rental (nc. fue) 3 days 18 - 440 Reporting 18 - 0 - 0 Reporting 2 - 0</td><td>Consultant time incl. travel 3 ear 12 \$117 Car Rental (inc. lue) 3 days 18 2 5150 Reporting 18 2 0 \$117 Int Monitoring Collect data/samples 2 0 \$117 Reporting 18 0 0 \$117 Reporting 2 0 \$117 \$117 Consultant travel - Whitehorse to/from site 2 0 \$117 \$117 Collect data/samples 2 0 0 \$117 \$117 Collect data/samples 2 0 0 \$117 \$117 Collect data/samples 10 0 0 \$117 \$117 Collect data/samples 10 0 0 \$117 \$117 Gatoratory Analysis 10 0 0 \$117 \$117 Heicopter time 1 0 0 \$117 \$117 Gatoratory Analysis 10 0 0 \$117</td><td>Consultant time incl. travel: 3 ea 12 \$117 \$133 Car Rental (nc. fuel) 3 days 40 \$150 \$350 Reporting 10 40 \$10 \$10 \$360 \$350 \$350 Int Monitoring Collect data/samples 2 0 \$200 \$10 \$350 \$117 \$118 \$350 \$117 \$100</td><td>Consultant time incl. travel: 3 ea 12 \$117 \$135 \$2,700 Car Rental (cn. (ue)) 80 400 \$150 \$350 \$2,700 Reporting 16 a 400 \$100</td><td>Consultant time incl. travel 3 e a 12 \$100 <t< td=""><td>Consultant time ind. travel Car Retait (nc. fue) Si a (a) (a) (a) (a) (a) (a) (a) (a) (a) (a)</td><td>Consultant time ind. travel 3 days 12 3 days 3 flaws 12 3 flaws 535 54212 5422 5435 54,680 54,680 54,680 54,680 55,080 55,080 52,700</td><td>Consultant time ind. travel 3 i days 12 S117 S13 54.21 54.62 54.664 Car Reati (inc. fue) 18 - 40 5150 5350 52.00 54.00 51.00 52.00 52.00 52.00 52.00 53.00 52.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 54.00 53.00 53.00 53.00 53.00 53.</td></t<></td></t<></td>	Consultant time ind. travel 3 days 12 Car Rental (nc. fuel) 3 days 4 Carpete lab testing 18 4 Reporting 18 4 Reporting 2 4 Complete lab testing 2 4 Reporting 2 4 0 Laboratory Analysis 2 2 0 Consultant travel - Whitehorse to/from site 3 days 8 Collect data/samples 2 8 8 8 Collect data/samples 1 5 44 9 Consultant travel - Whitehorse to/from site 10 8 8 8 Collect data/samples 10 8 40 9 16 <t< td=""><td>Consultant time ind. travel 3 days 12 Car Rental (nc. fue) 3 days 18 - 440 Reporting 18 - 0 - 0 Reporting 2 - 0</td><td>Consultant time incl. travel 3 ear 12 \$117 Car Rental (inc. lue) 3 days 18 2 5150 Reporting 18 2 0 \$117 Int Monitoring Collect data/samples 2 0 \$117 Reporting 18 0 0 \$117 Reporting 2 0 \$117 \$117 Consultant travel - Whitehorse to/from site 2 0 \$117 \$117 Collect data/samples 2 0 0 \$117 \$117 Collect data/samples 2 0 0 \$117 \$117 Collect data/samples 10 0 0 \$117 \$117 Collect data/samples 10 0 0 \$117 \$117 Gatoratory Analysis 10 0 0 \$117 \$117 Heicopter time 1 0 0 \$117 \$117 Gatoratory Analysis 10 0 0 \$117</td><td>Consultant time incl. travel: 3 ea 12 \$117 \$133 Car Rental (nc. fuel) 3 days 40 \$150 \$350 Reporting 10 40 \$10 \$10 \$360 \$350 \$350 Int Monitoring Collect data/samples 2 0 \$200 \$10 \$350 \$117 \$118 \$350 \$117 \$100</td><td>Consultant time incl. travel: 3 ea 12 \$117 \$135 \$2,700 Car Rental (cn. (ue)) 80 400 \$150 \$350 \$2,700 Reporting 16 a 400 \$100</td><td>Consultant time incl. travel 3 e a 12 \$100 <t< td=""><td>Consultant time ind. travel Car Retait (nc. fue) Si a (a) (a) (a) (a) (a) (a) (a) (a) (a) (a)</td><td>Consultant time ind. travel 3 days 12 3 days 3 flaws 12 3 flaws 535 54212 5422 5435 54,680 54,680 54,680 54,680 55,080 55,080 52,700</td><td>Consultant time ind. travel 3 i days 12 S117 S13 54.21 54.62 54.664 Car Reati (inc. fue) 18 - 40 5150 5350 52.00 54.00 51.00 52.00 52.00 52.00 52.00 53.00 52.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 54.00 53.00 53.00 53.00 53.00 53.</td></t<></td></t<>	Consultant time ind. travel 3 days 12 Car Rental (nc. fue) 3 days 18 - 440 Reporting 18 - 0 - 0 Reporting 2 - 0	Consultant time incl. travel 3 ear 12 \$117 Car Rental (inc. lue) 3 days 18 2 5150 Reporting 18 2 0 \$117 Int Monitoring Collect data/samples 2 0 \$117 Reporting 18 0 0 \$117 Reporting 2 0 \$117 \$117 Consultant travel - Whitehorse to/from site 2 0 \$117 \$117 Collect data/samples 2 0 0 \$117 \$117 Collect data/samples 2 0 0 \$117 \$117 Collect data/samples 10 0 0 \$117 \$117 Collect data/samples 10 0 0 \$117 \$117 Gatoratory Analysis 10 0 0 \$117 \$117 Heicopter time 1 0 0 \$117 \$117 Gatoratory Analysis 10 0 0 \$117	Consultant time incl. travel: 3 ea 12 \$117 \$133 Car Rental (nc. fuel) 3 days 40 \$150 \$350 Reporting 10 40 \$10 \$10 \$360 \$350 \$350 Int Monitoring Collect data/samples 2 0 \$200 \$10 \$350 \$117 \$118 \$350 \$117 \$100	Consultant time incl. travel: 3 ea 12 \$117 \$135 \$2,700 Car Rental (cn. (ue)) 80 400 \$150 \$350 \$2,700 Reporting 16 a 400 \$100	Consultant time incl. travel 3 e a 12 \$100 <t< td=""><td>Consultant time ind. travel Car Retait (nc. fue) Si a (a) (a) (a) (a) (a) (a) (a) (a) (a) (a)</td><td>Consultant time ind. travel 3 days 12 3 days 3 flaws 12 3 flaws 535 54212 5422 5435 54,680 54,680 54,680 54,680 55,080 55,080 52,700</td><td>Consultant time ind. travel 3 i days 12 S117 S13 54.21 54.62 54.664 Car Reati (inc. fue) 18 - 40 5150 5350 52.00 54.00 51.00 52.00 52.00 52.00 52.00 53.00 52.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 54.00 53.00 53.00 53.00 53.00 53.</td></t<>	Consultant time ind. travel Car Retait (nc. fue) Si a (a) (a) (a) (a) (a) (a) (a) (a) (a) (a)	Consultant time ind. travel 3 days 12 3 days 3 flaws 12 3 flaws 535 54212 5422 5435 54,680 54,680 54,680 54,680 55,080 55,080 52,700	Consultant time ind. travel 3 i days 12 S117 S13 54.21 54.62 54.664 Car Reati (inc. fue) 18 - 40 5150 5350 52.00 54.00 51.00 52.00 52.00 52.00 52.00 53.00 52.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 54.00 53.00 53.00 53.00 53.00 53.

Worksheet 21 - Ore Stockpiles and Misc. Volume Calculations

Project:	Minto Mine Closure Cost Estimate - RCP Rev. 2016-01
Project No.:	1CM002.045
Client:	Minto Explorations Ltd.
Date of Submission:	August 5, 2016
File Location:	\\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\Cost Estimate\

References (dwgs/plans \\\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\\040_AutoCAD\1CM002-45_ClosureQuantities.dwg

A: Ore Stockpile Excavation

				Inputs		Ca	culated Quant	tities	
Area	Description	Volume or Ore Remaining (m ³)	Ore Pad Area (m ²)	Ore Pad Excavation depth (m)	Confirmation Test Grid Spacing (m)	Ore Relocation Volume (m ³)	Ore Pad Excavation Volume (m ³)	Confirmation Tests Required	Comments/Notes
Year 0 Scenario		1							
Mill Area	North Stockpile	0	13,760	0.5	10	0	6,880	138	
	West Stockpile	0	38,670	0.5	10	0	19,335	387	
	East Stockpile	0	31,190	0.5	10	0	15,595	312	
	South Stockpile	110,942	41,571	0.5	10	110,942	20,786	416	
	Crushed Ore Stockpiles	0	4,145	0.5	10	0	2,073	41	
	Crusher Stockpile	0	12,678	0.5	10	0	6,339	127	
Mill Area	TOTAL					110,942	71,007	1,421	
Main Waste Dump	Low Grade Ore Stockpiles	46,329	62,631	0.5	10	46,329	31,316	626	
Mill Area	TOTAL					46.329	31.316	626	

Notes: 1. Year 0 volumes of ore suppled by Minto in July 2016 2. Covers and revegetation of the ore stockpiles included in the "Areas" worksheet.

B: Misc. Volumes

				Inputs		Ca	Iculated Quant	ities	
Area	Description	Length (m)	Width (m)	Area (m2)	Average Thickness (m)	Volume (Cm3)	Volume (Lm3)		Comments/Notes
DSTSF	Fill at south side of DSTSF to cover tailings and provide drainage to the east.	404	25		3	30,300			Material assumed to be sourced from the Tailings Diversion Ditch road
DSTSF	Unsuitable existing cover material to be removed.			69,467	0.75	52,100			Area based on 2014 aerial photo
Main Pit	SAT in the Main Pit to be relocated to below 786 m elevation					1,040,000			Volume provided by Minto Dec. 2015, and includes a projection of the SAT volume to be placed from Minto North
Main Pit	Est. Tailings near outlet above long term water table elevation of 786.			2,311	1.50	3,467			Area estimated from 2014 site aerial photographs and June 2016 site photography
Southwest Wetlands	3 Berms acrros valley	300	5		2.00	3,000			Assumed width, thickness. Length estimated from 2014 orthophoto.

Notes:

Worksheet 22 - Open Pit Calculations

Project:	Minto Mine Closure Cost Estimate - RCP Rev. 2016-01
Project No.:	1CM002.045
Client:	Minto Explorations Ltd.
Date of Submission:	August 5, 2016
File Location:	\\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\Cost Estimate\

 References (dwgs/plans):
 \\\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\\0040_AutoCAD\1CM002-45_ClosureQuantities.dwg

 Layer:
 __Pits

Open Pit Quantity Calculations

				Safe	ty Berms				Boulder Fence Warning Signs				Quantity Calculations						
				Length of berm requiring land			Berm Side- Slope Angle		Fence Length	Boulder Spacing	Warning Sign Perimeter	Sign Spacing	User Override - Number of	Berm Volume	Berm Volume	Land Clearing	Boulder Fence	Warning	
Pit		Length (m)			width (m)			Width (m)	(m)	(m)	Length (m)	(m)	Signs	(m ³ /m)	(m ³)	Area (m ²)	Volume (m ³)	Signs	Comments/Notes
Main Pit	All	1680	14%	750	10	1.5	1.3	0.3	40	1	2741	100	6	3.4	4,860	7,500	52	6	
Area 2 Pit	Yr0	1506	14%	30	10	1.5	1.3	0.3	20	1	1506	100	6	3.4	4,357	300	26	6	Does not include Stage 3 Pit
Area 2 Pit (inc. Stage 3)	EOM	1838	14%	0	10	1.5	1.3	0.3	20	1	1506	100	6	3.4	5,317	0	26	6	
Area 118 Pit	All	496	14%	258	10	1.5	1.3	0.3	20	1	600	100	4	3.4	1,435	2,580	26	4	
Minto North	All	1248	14%	590	10	1.5	1.3	0.3	20	1	1248	100	4	3.4	3,610	5,900	26	4	

Notes:

Vegetated areas of the highwall require clearing to ensure visibility of the safety berm.
 Main Pit Rock fence assumed to be placed near the entrance ramp of the pit.

Worksheet 23 - Resloping Quantity Calculations

Project:	Minto Mine Closure Cost Estimate - RCP Rev. 2016-01
Project No.:	1CM002.045
Client:	Minto Explorations Ltd.
Date of Submission:	August 5, 2016
File Location:	\\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\Cost Estimate\

 Notes/Instructions:
 1. When adding a new row, make sure all columns are copied (there are a lot of calculations hidden in columns to the right).

 2. Once complexe, check that the Oczer used on this sheet matches the correct task unit rate used on the cost estimate worksheet

 References (dwgs/plans):
 <u>WAN-SVR0/Projects010_STES/Minbo1CM002_045_ClosureCosts1040_AutoCAD1CM002_45_ClosureQuentities.dwg</u>

 (Layre - Regrading)
 (Layre - Regrading)
 (Layre - Regrading)

A: Slopes

					Dump					Do	zing Condition	s			Cal	culated Quant	ities				Total	Quantities			
						Underlying	Does regrading									Unfactored		Time to	Time	Time					
				Existing Side	Final Side-	slope grade	increase the	Soil Cover				Bank or		Cut Volume	Average	Dozer	Factored Dozer	complete	Required -	Required -				2D Footprint	
		Mid-bench		Slope Angle		(%) (See	dump	Thickness			Dozing		Slot or Side-by-	per m crest	Regrade Push	Productivity	Productivity	1m width	Regrading	Spreading		3D Surface Area		increase due to	
Facility	Segment	length (m)	Height (m)	(H:1V)	(H:1V)	Note 2)	footprint?	(m)	Dozer Size	Material Type	Condition	note 3)	side Dozing?	(m ³)	Distance (m)	(Lm ³ /hr)	(Bm ³ /hr)	(hrs)	(Hrs)	Cover (hrs)	Volume (Bm ³)	(m ²)	Area (m ²)	regrading (m ²)	Comments/Notes
Existing Facilities	04	309	18	1.3	-	<u> </u>	Mar	0.5	D10	Canad & annual	Normal	Placed	No	68.9	37.9	1114.1	873.5	0.1	24	10	21,275	17.589	16.686	4,728	
Camp Area Camp Area	R1 R2	309	18	1.3	3	0	Yes	0.5	D10	Sand & gravel, Sand & gravel,	Normal	Placed	No	19	37.9 6.3	2293.7	8/3.5	0.1	24	10	21,275	17,589	16,686	4,728	
Camp Area	R3	44	3	1.3	3	0	Yes	0.5	D10	Sand & gravel,	Normal	Placed	No	1.9	6.3	2293.7	1798.4	0.0	0	0	84	417	396	112	
Camp Area	TOTAL																		24	10	21,498	18,699	17,739	4,840	
DSTSF - WR Shell DSTSF - WR Shell	R1 TOTAL	3211	4	1.3	4	0	No	0.5	D10	Waste Rock (M	Rock, ripped or	Placed	No	5.4	11.0	2293.7	1309.0	0.0	13 13	14	17,339 17,339	52,957 52,957	51,376 51,376	0	
DSTSF - Wit Sneil DSTSF - South end	R1	500	5	1.3	4	0	No	0.5	D10	Waste Rock (M	Rock, ripped or	Placed	No	8.4	13.7	2293.7	1309.0	0.0	3	35	4,219	10.308	10.000	0	
DSTSF - South End	TOTAL	000		1.0			110	0.0		Trable Rock (i	intoon, npped of	110000	160						3	72	4,219	10,308	10,000	ő	
IROD Laydown	R1	101	14	3.5	3.5	0	No	0	D10	Sand & gravel,	Normal	Placed	No	0.0	0.0	2293.7	1787.2	0.0	0	0	0	5,147	4,949	0	
IROD Laydown	R1	282	60	25			Yes	0.5	D10	Waste Rock (M		Placed	No	226.2	127.2	377.5	227.7	1.0	0 280	0 89	0 63,786	5,147 53,790	4,949 51.029	0 4 489	
Main Dump (2014) Main Dump	R2	185	35	2.5	3	0	No	0.5	D10	Waste Rock (N	Rock, ripped or Rock, ripped or	Placed	No	76.6	73.8	614.4	370.7	0.2	280	21	14,164	20.476	19,425	4,409	
Main Dump	R3	358	15	1.3	3	0	Yes	0.5	D10	Waste Rock (M	Rock, ripped or	Placed	No	47.8	31.6	1311.6	791.2	0.1	22	8	17,117	16,981	16,110	4,565	
Main Dump	R5	266	22	1.3	3	0	No	0.5	D10	Waste Rock (M		Placed	No	102.9	46.4	931.0	561.6	0.2	49	12	27,358	18,506	17,556	0	
Main Dump	R6	73	17	1.5	3	0	No No	0.5	D10 D10	Waste Rock (M Waste Rock (M	Rock, ripped or	Placed	No	54.2 10.4	35.8	1172.6	707.4	0.1	6	2	3,956 521	3,924	3,723	0	
Main Dump Main Dump	R7 R11	200	20	1.3	3	-75	No No	0.5	D10 D10	Waste Rock (M Waste Rock (M	Rock, ripped or Rock, ripped or	Placed Placed	No No	10.4 65.2	14.8	2293.7 1267.0	1383.7 764.4	0.0	17	5	521 13,049	9,861	9,355	0	
Main Dump	R12	75	5	1.3	3	0	No	0.5	D10	Waste Rock (M	Rock, ripped or	Placed	No	5.3	10.5	2293.7	1383.7	0.0	0	0	398	1,186	1,125	0	
Main Dump	R13	93	20	1.3	3	0	No	0.5	D10	Waste Rock (M	Rock, ripped or	Placed	No	85.0	42.2	1013.9	611.6	0.1	13	4	7,905	5,882	5,580	0	
Main Dump	R14	123	30	1.3	3	0	No	0.5	D10	Waste Rock (M	Rock, ripped or	Placed	No	191.3	63.2	705.3	425.5	0.4	55	10	23,524	11,669	11,070	0	
Main Dump Main Dump	R15 R16	205	10	1.3	3	-75	No No	0.5	D10	Waste Rock (M Waste Rock (M	Rock, ripped or Rock, ripped or	Placed	No	21.3 65.2	21.1	1885.4 1267.0	1137.4 764.4	0.0	4	2	4,356	6,483 5,522	6,150	0	
Main Dump Extension	R17	964	15	1.3	3	0	No	0.5	D10	Waste Rock (M	Rock, ripped of Rock, ripped of	Placed	No	47.8	31.6	1311.6	791.2	0.1	58	22	46,091	45,727	43,380	0	
Main Dump Extension	R18-	990	15	1.3	3	0	No	0.5	D10	Waste Rock (M	Rock, ripped or	Placed	No	47.8	31.6	1311.6	791.2	0.1	60	22	47,334	46,960	44,550	0	
Main Dump Extension	R91	1000	15	1.3	3	0	No	0.5	D10	Waste Rock (M	Rock, ripped or	Placed	No	47.8	31.6	1311.6	791.2	0.1	60	23	47,813	47,434	45,000	0	
MWD & MWDE Main Pit Dump - Yr0	TOTAL	277	16	13	2	15	Yes	0.5	D10	Waste Rock (M	Rock ripped or	Placed	No	65.2	40.8	1043.9	629.8	0.1	672 29	224 10	324,679 18.066	295,506 16,956	280,341 16.086	9,053	
Main Pit Dump - Yr0	R2	422	15	1.3	3	0	No	0.5	D10	Waste Rock (M	Rock, ripped or	Placed	No	47.8	31.6	1311.6	791.2	0.1	26	10	20,177	20,017	18,990	0,200	
Main Pit Dump - Yr0	R3	353	15	1.3	3	0	No	0.5	D10	Waste Rock (M	Rock, ripped or	Placed	No	47.8	31.6	1311.6	791.2	0.1	21	8	16,878	16,744	15,885	0	
Main Pit Dump - Yr0	R4	233	15	1.3	3	0	No	0.5	D10	Waste Rock (M	Rock, ripped or	Placed	No	47.8	31.6	1311.6	791.2	0.1	14	5	11,140	11,052	10,485	0	
Main Pit Dump - Yr0 Main Pit Dump - Yr0	R5 R6	230	12	1.3	3	0	No	0.5	D10	Waste Rock (M Waste Rock (M	Rock, ripped or Rock, ripped or	Placed	No	30.6 82.7	25.3	1601.5 970.5	966.2	0.0	29	9	7,038	8,728	8,280	0	
Main Pit Dump - Yr0	R7	176	14	1.3	3	0	No	0.5	D10	Waste Rock (M	Rock, ripped or	Placed	No	41.7	29.5	1395.1	841.6	0.0	9	3	7.330	7,792	7.392	0	
Main Pit Dump - Yr0	R8	170	11	1.3	3	0	No	0.5	D10	Waste Rock (M	Rock, ripped or	Placed	No	25.7	23.2	1731.2	1044.4	0.0	4	2	4,371	5,913	5,610	0	
Main Pit Dump - Yr0	R9 TOTAL	355	15	1.3	3	0	No	0.5	D10	Waste Rock (M	Rock, ripped or	Placed	No	47.8	31.6	1311.6	791.2	0.1	21	8	16,973	16,839	15,975	0	
Main Pit Dump - Yr 0 MVFE Stage 1 and 2	DI	255	17	1.3	2	0	No	0.5	D10	Waste Rock (M	Rock, ripped or	Placed	No	61.4	35.8	1172.6	707.4	0.1	160 22	59	118,760 15,660	117,522 13,708	111,492 13,005	6,268	
MVFE Stage 1 and 2	R2	188	12	1.3	3	0	No	0.5	D10	Waste Rock (N		Placed	No	30.6	25.3	1601.5	966.2	0.0	6	3	5,753	7,134	6,768	0	
MVFE Stage 1 and 2	R3	250	10	1.3	3	0	No	0.5	D10	Waste Rock (M	Rock, ripped or	Placed	No	21.3	21.1	1885.4	1137.4	0.0	5	3	5,313	7,906	7,500	0	
MVFE Stage 1 and 2	R4	265	12	1.3	3	0	No	0.5	D10	Waste Rock (M		Placed	No	30.6	25.3	1601.5	966.2	0.0	8	4	8,109	10,056	9,540	0	
MVFE Stage 1 and 2 MVFE Stage 1 and 2	R5 TOTAL	400	5	1.3	3	0	No	0.5	D10	Waste Rock (M	Rock, ripped or	Placed	No	5.3	10.5	2293.7	1383.7	0.0	2 43	2	2,125 36,959	6,325 45,129	6,000 42,813	0	
MVFE Stage 1 and 2 Minto South Portal	R1	200	7	13	3	0	Yes	0	D10	Waste Rock (M	Rock, ripped or	Placed	No	10.4	14.8	2293.7	1383.7	0.0	43	18	2.083	45,129	42,813	1,190	
Minto South Portal	R2	133	10	1.3	3	10	Yes	0	D10	Waste Rock (M		Placed	No	23.6	23.5	1710.6	1032.0	0.0	3	0	3,142	4,689	4,448	1,535	
Minto South Portal	R3	200	7	1.3	3	10	No	0	D10	Waste Rock (M	Rock, ripped or	Placed	No	11.6	16.5	2353.9	1420.0	0.0	2	0	2,315	4,936	4,682	0	
Minto South Portal	R4	80	10	1.3	3	10	No	0	D10	Waste Rock (M		Placed	No	23.6	23.5	1710.6	1032.0	0.0	2	0	1,890	2,820	2,676	0	
Minto South Portal Minto South Portal	R5 TOTAL	490	20	2.5	3	0	No	0	D10	Waste Rock (M	Rock, ripped or	Placed	No	25.0	42.2	1013.9	611.6	0.0	20 28	0	12,250 21,678	30,990 47,862	29,400 45,406	0 2,725	
Southwest Dump	Allowance	1000	15	1.3	3	0	No	0.5	D10	Waste Rock (M	Rock, ripped or	Placed	No	47.8	31.6	1311.6	791.2	0.1	60	23	47,813	47,434	45,000	0	
Southwest Dump	TOTAL																		60	23	47,813	47,434	45,000	0	
SWD - High Grade Waste	R1	320	8	1.3	5	0	Yes	1	D10	Waste Rock (M	Rock, ripped or	Placed	No	29.6	27.2	1501.2	796.2	0.0	12	11	9,472	13,053	12,800	4,736	
SWD - High Grade Waste SWD - High Grade Waste		113 245	11	1.3	5	0	Yes Yes	1	D10 D10	Waste Rock (M Waste Rock (M	Rock, ripped or Rock, ripped or	Placed	No No	56.0 139.0	37.4	1128.9 738.1	598.7 391.4	0.1	11 87	7 37	6,324 34.054	6,338 22,093	6,215	2,300	
SWD - High Grade Waste		240		1.0		-	105		DIV	THE NUCK (N	in source, ripped of	riaced	140	138.0	00.1	730.1	351.4	0.4	109	55	49,849	41,485	40,679	15,430	
Tailings Diversion Ditch	R1	260	7	1.3	3	17	Yes	0.5	D10	Waste Rock (M	Rock, ripped or	Placed	No	13.0	18.6	2108.3	1271.9	0.0	3	2	3,368	7,257	6,884	2,833	-
Tailings Diversion Ditch	R2	454	13	1.3	3	10	Yes	0.5	D10	Waste Rock (M		Placed	No	39.9	30.6	1352.6	816.0	0.0	22	10	18,123	20,807	19,739	6,811	
Tailings Diversion Ditch	R3	311	7	1.3	3	13	Yes	0.5	D10	Waste Rock (M	Rock, ripped or	Placed	No	12.1	17.2	2259.2	1362.9	0.0	3 28	2	3,757 25,248	8,035	7,623	2,823	
Tailings Diversion Ditch W15 Sump Area	R1	124	6	13	3	0	Yes	0	D10	Waste Rock (M	Rock ripped or	Placed	No	7.7	12.6	2293.7	1383.7	0.0	28	14	25,248	36,099 2.353	2.232	12,467	
W15 Sump Area	R2	92	6	1.3	3	15	Yes	0	D10		Rock, ripped of Rock, ripped of	Placed	No	9.2	15.3	2511.4	1515.1	0.0	1	0	844	2,353	2,232	781	
Minto South Portal	TOTAL																		1	Ö	1,792	4,465	4,235	1,413	
Future Facilities																									Courses 4440 Dev 1 (7)
Area 118 Backfill Dump	R1	1227	5	13	3	0	No	0	D10	Earth moist	Normal	Placed	No	53	10.5	2293.7	1648.3	0.0	4	0	6 5 1 8	19.401	18 405	0	Source: A118 Backfill Dump.dwg
Area 118 Backfill Dump	TOTAL	1221	- J	1.0		v	NO	V	DIV	corti, moist		riaced	1WO	3.3	10.5	2200.1	1040.5	0.0	4	0	6,518	19,401	18,405	0	stanged wy
Main Pit Dump - EOM	R1-EOM	1284	15	1.3	3	0	No	0.5	D10	Waste Rock (M	Rock, ripped or	Placed	No	47.8	31.6	1311.6	791.2	0.1	78	29	61,391	60,905	57,780	0	
Main Pit Dump - EOM	R6	203	21	1.5	3	0	No	0.5	D10	Waste Rock (M	Rock, ripped or	Placed	No	82.7	44.3	970.5	585.5	0.1	29	9	16,786	13,481	12,789	0	
Main Pit Dump - EOM Main Pit Dump - EOM	R7 R8	176	14	1.3	3	0	No No	0.5	D10 D10	Waste Rock (M Waste Rock (M	Rock, ripped or Rock, ripped or	Placed Placed	No No	41.7 25.7	29.5 23.2	1395.1 1731.2	841.6 1044.4	0.0	9	3	7,330	7,792 5,913	7,392 5,610	0	
Main Pit Dump - EOM	R9	355	15	1.3	3	0	No	0.5	D10	Waste Rock (M		Placed	No	47.8	31.6	1311.6	791.2	0.0	21	8	4,371	16,839	15,975	0	-
Main Pit Dump - EOM	TOTAL																		141	51	106,852	104,931	99,546	0	

Notes:

1. Regrading productivity calculationa/details are provided in below (spreadsheet).
2. A positive derivative encloses and bulking factors below (spreadsheet).
2. Bank materials are insitu, natural solis. Placed are materials that have been placed and compacted and are generally denser than Bank/In-situ materials. See densities and bulking factors below (spreadsheet).
For Waste Rock - Use 'Placed''.
2. Bank materials are insitu, natural solis. Placed are materials that have been placed and compacted and are generally denser than Bank/In-situ materials. See densities and bulking factors below (spreadsheet).
For Waste Rock - Use 'Placed''.

B: Flat Area Tertiary Catchments

		Dimen	sions			Dozina C	onditions				Calo	ulated Quanti	ties			Total Q	uantities	1
Facility	Total Flat Area (m ²)	Maximum Tertiary Catchment Area (m ²)		Length of dozing direction over ride (m)		Material Type	Dozing Condition	Bank or Placed? (See note 3)	Number of catchments		Average Regrade Push Distance (m)	Unfactored Dozer Productivity (Lm ³ /hr)	Factored Dozer Productivity (Bm ³ /hr)	Cut Volume Per Catchment (Bm ³)	Time to complete 1 catchment (hrs)	Total Time Required (Hrs)	Avg. Regrade Productivity (m²/hr)	CommentsNotes
Camp Area	20,626	15,000	3%	50	D10	Sand & grave	Normal	Placed	1	50.0	33.3	1251.2	560.6	2,813	5.0	7	2,990	
Crusher Area	26,964	15,000	3%	50	D10	Sand & grave	Normal	Placed	2	50.0	33.3	1251.2	560.6	2,813	5.0	9	2,990	
DSTSF	0	15,000	1%		D10	Earth, moist	Normal	Placed	0	122.5	81.6	561.2	241.3	2,296	9.5	0	#DIV/0!	
Explosive Plant/Storage area	55,113	15,000	3%	60	D10	Waste Rock (Hard to cut; fro	Placed	4	60.0	40.0	1062.8	418.8	3,375	8.1	30	1,861	
Fuel Storage Area	8,400	15,000	3%	60	D10	Waste Rock (Hard to cut; fro	Placed	1	60.0	40.0	1062.8	418.8	3,375	8.1	5	1,861	
Ice Rich Overburden Dump	0	15,000	3%	80	D10	Earth, moist	Normal	Placed	0	80.0	53.3	821.5	337.4	4,500	13.3	0	#DIV/0!	
IROD Laydown	18,106	15,000	3%	80	D10	Sand & grave		Placed	1	80.0	53.3	821.5	368.1	4,500	12.2	15	1,227	
Main Dump	90,055	15,000	3%		D10	Waste Rock (Hard to cut; fro	Placed	6	122.5	81.6	561.2	221.1	6,889	31.2	187	481	Total Flat Area was reduced by 13.5 ha (flat area at the top of the MWDE) that is being constructed at a 2% grade during ops.
Main Pit Dump (Yr 0)	128,793	15,000	3%	70	D10	Waste Rock (Hard to cut; fro	Placed	9	70.0	46.7	925.8	364.8	3,938	10.8	93	1,390	
Main Pit Dump (EOM)	144,270	15,000	3%	70	D10	Waste Rock (Hard to cut; fro	Placed	10	70.0	46.7	925.8	364.8	3,938	10.8	104	1,390	
Mill Area	42,365	15,000	3%	100	D10	Waste Rock (Hard to cut; fro	Placed	3	100.0	66.7	672.8	265.1	5,625	21.2	60	707	
MVFE Stage 1 and 2	114,853	15,000	3%	100	D10	Waste Rock (Hard to cut; fro	Placed	8	100.0	66.7	672.8	265.1	5,625	21.2	162	707	
Minto South Portal	62,765	15,000	3%	75	D10	Waste Rock (Hard to cut; fro	Placed	4	75.0	50.0	870.4	343.0	4,219	12.3	51	1,219	
Ore Stockpile Area	139,307	15,000	3%		D10	Waste Rock (Hard to cut; fro	Placed	9	122.5	81.6	561.2	221.1	6,889	31.2	289	481	
Pelly Laydown	51,710	15,000	3%		D10	Waste Rock (Hard to cut; fro	Placed	3	122.5	81.6	561.2	221.1	6,889	31.2	107	481	
Reclamation OVB Dump	297,857	15,000	3%		D10	Earth, moist	Normal	Placed	20	122.5	81.6	561.2	230.5	6,889	29.9	594	502	
SWD - High Grade Waste	5,915	15,000	3%		D10	Earth, moist	Normal	Placed	0	122.5	81.6	561.2	230.5	6,889	29.9	12	502	
W15 Sump Area	9,484	15,000	3%	80	D10	Waste Rock (Hard to cut; fro	Placed	1	80.0	53.3	821.5	323.7	4,500	13.9	9	1,079	
1		1		1	1	1												

Notes:
1. Regarding productivity calculations/details are provided in below (spreadsheet).
2. Productivity calculations assumes the dozer is pushing uphil
3. Dozer pushing distance calculations assume the tertiany calchments are approximately square, unless the 'length of dozing direction' user over-ide is used.
4. Bank materials are instlu, natural solis. Placed are materials that have been placed and compacted and are generally denser than Bank/In-situ materials (See densities and bulking factors below).
For Waste Rock - Use 'Placed'.

C: Miscellaneous Regrading

Facility	Volume to Push (m ²)	Avg. Grade (%)		Material Type		Bank or Placed? (See note 3)	Average Regrade Push Distance (m)	Unfactored Dozer Productivity (Lm ³ /hr)	Factored Dozer Productivity (Bm ³ /hr)	Required	Comments/Notes
Mill Pond Backfilling	7,088	0%	D10	Waste Rock (Hard to cut; fr	Placed	50.0	870.4	367.0	19	Assumes material pushed from the north (crusher area)
SWD Cover placement on sl	41,485	20%	D10	Earth, moist	Loose Stockpi	Placed	40.0	1062.8	315.4	132	

Notes: 1. Regulation productivity calculations (details are provided in below (spreadsheet). 3. Does puelled induces calculations are sponsing uppil 4. Bank materials are instru, natural soils. Placed are materials that have been placed and compacted and are generally denser than BankIn-situ materials (See densities and bulking factors below). For Waste Rock - Use "Placed".

Worksheet 24 - Revegetation Prescriptions

 Project:
 Minto Mine Closure Cost Estimate - RCP Rev. 2016-01

 Project No.:
 1CM002.045

 Client:
 Minto Explorations Ltd.

 Date of Submission:
 August 5, 2016

 File Location:
 \\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\Cost Estimate\



A: Tractor-Applied Seed Mixes

Seed Mix 1 - DRY AREA SEED MIX

Item	Target Application Rate (kg/ha)	Over- application Allowance (%)	Applied Rate (kg/ha)	Unit Cost (\$/kg)	Item Cost (\$/ha)	Comment
Seed Mix	30		45	\$15.80	\$711.00	
Fertilizer	200	25%	250	\$1.10	\$275.00	
Mulch	0	0%	0	\$1.00		
Tackifier	0	0%	0	\$3.62		
TOTAL SEED MIX COST PE	R HA:				\$986.00	

Seed Mix 2 - WET AREA SEED MIX

	Target Application		Applied Rate	Unit Cost	Item Cost	
Item	Rate (kg/ha)	Allowance (%)	(kg/ha)	(\$/kg)	(\$/ha)	Comment
Seed Mix	30		45	\$15.80	\$711.00	
Fertilizer	200	25%	250	\$1.10	\$275.00	
Mulch	0	0%	0	\$1.00	\$0.00	
Tackifier	0	0%	0	\$3.62	\$0.00	
TOTAL SEED MIX COST PE	ER HA:				\$986.00	

B: Tree Planting

	Target Application	Over- application	Applied Rate	Unit Cost	Item Cost	
Item	Rate (stem/ha)	Allowance (%)	(kg/ha)	(\$/kg)	(\$/ha)	Comment
Trees	Seedlings per ha					
Tree seedlings	1,000	0%	1,000			Target application rates from Closure Plan
Subtotal - Seed Mix	1000		1000	\$0.38	\$380	
Fertilizer	1000	0%	1000	\$0.08	\$80.50	
TOTAL TREE PLANTING C	OST PER HA:				\$461	

Worksheet 25-Road Calculations

Project:	Minto Mine Closure Cost Estimate - RCP Rev. 2016-01
Project No.:	1CM002.045
Client:	Minto Explorations Ltd.
Date of Submission:	August 5, 2016
File Location:	\\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\Cost Estimate\

References (dv/\/VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\1040_AutoCAD\1CM002-45_ClosureQuantities.dwg

A: Exploration Roads

				Road	I Parameters				Safety	Berms		R	eclamatio	on Prescr	iption		X-Secti	on Quantities	5		Total (Quantities		
Area	Description	Length (m)	Width (at crest) (m)	Average Fill Height (m)	Number of slopes to regrade (0, 1 or 2)	Existing Side Slope Angle (H:1V)	Final Side- Slope Angle (H:1V)	Number of Berms (0, 1 or 2)	Berm Height (m)	Berm Side- Slope Angle (H:1V)	Berm Crest Width (m)	Dozer Size	Scarify (y/n)	Growth Media Thickne ss (m)	Revegetate (y/n)	Berm Volume (1-side) (m ³ /m)		Average Regrade Push Distance (m)	Factored Dozer Productivity (m/hr)	Scarification Area (m ²)	Cover Volume (Cm ³)	Revegetation Area (ha)	Regrade Hours	Comments/Notes
Airstrip East	Area east of airstrip	4581	3		0	1	3	0	0	0	0		Yes	0	Yes	0.0	0.0	0.0	#N/A	13,743	0	1.37	0.0	
Airstrip West	Area west of airstrip	4299	3		0	1	3	0	0	0	0		Yes	0	Yes	0.0	0.0	0.0	#N/A	12,897	0	1.29	0.0	
Ridgetop		4252	3		0	1	3	0	0	0	0		Yes	0	Yes	0.0	0.0	0.0	#N/A	12,756	0	1.28	0.0	
North	North of Main Pit	4963	3		0	1	3	0	0	0	0		Yes	0	Yes	0.0	0.0	0.0	#N/A	14,889	0	1.49	0.0	
TOTALS																				54,285	0	5	0	

Notes: 1. Dozer regrading productivity calculations details are provided in the "reslope" worksheet. 2. If a side slope is not regraded, it is assumed that it is not revegetated, and no cover is placed.

B: Access Roads

	[Road	Parameters				Safety	Berms		F	eclamatio	on Prescri	ption		X-Secti	on Quantities			Total C	Quantities		
Area	Description	Length (m)	Width (at crest) (m)	Average Fill Height (m)	Number of slopes to regrade (0, 1 or 2)	Existing Side Slope Angle (H:1V)	Final Side- Slope Angle (H:1V)	Number of Berms (0, 1 or 2)	Berm Height (m)	Berm Side- Slope Angle (H:1V)	Berm Crest Width (m)	Dozer Size	Scarify (y/n)	Growth Media Thickne ss (m)	Revegetate (y/n)	Berm Volume (1-side) (m ³ /m)	Regrade Cut Volume (m ³ /m)	Average Regrade Push Distance (m)	Factored Dozer Productivity (m/hr)	Scarification Area (m ²)	Cover Volume (Cm ³)	Revegetation Area (ha)	Regrade Hours	Comments/Notes
Airstrip	Airport Access Road	968	14	1.5	2	1.3	3	2	1	1.3	0	D8	Yes	0	Yes	1.3	3.2	3.2	266.0	13,552	0	2.27	3.6	
	Betw. Landfill/waste storage	236	10	1.5	0	1.3	3	1	1	1.3	0	D8	Yes	0	Yes	1.3	1.3	3.2	648.8	2,360	0	0.24	0.4	
	Old Exploration camp road	460	10	1.5	0	1.3	3	1	1	1.3	0	D8	Yes	0	Yes	1.3	1.3	3.2	648.8	4,600	0	0.46	0.7	
Camp	2 Access Roads	238	14	1.5	2	1.3	3	2	1	1.3	0	D8	Yes	0	Yes	1.3	3.2	3.2	266.0	3,332	0	0.56	0.9	
Explosives	Roads between explosive plant	1633	10	2	1	1.3	3	1	1	1.3	0	D8	Yes	0	Yes	1.3	1.7	4.2	501.9	16,330	0	2.67	3.3	
IROD Laydown	Road between yard areas	703	10	0	0	1.3	3	0	1	1.3	0	D8	Yes	0	Yes	1.3	0.0	0.0	#DIV/0!	7,030	0	0.70	0.0	
W15 Laydown	2 "F" shaped roads	388	14	0	1	1.3	3	1	1	1.3	0	D8	Yes	0	Yes	1.3	1.3	0.0	648.8	5,432	0	0.54	0.6	
TOTALS																				52,636	0	7	9	

Notes: 1. Dozer regrading productivity calculations details are provided in the "resiope" worksheet. 2. If a side slope is not regraded, it is assumed that it is not revegetated, and no cover is placed.

C: Haul Roads

				Road	d Parameters				Safety	Berms		R	eclamatio	n Prescri	ption		X-Secti	on Quantitie	S		Total	Quantities		
Area	Description	Length (m)	Width (at crest (m)	Average Fill Height (m)		Existing Side Slope Angle (H:1V)	Final Side- Slope Angle (H:1V)	Number of Berms (0, 1 or 2)	Berm Height (m)	Berm Side- Slope Angle (H:1V)	Berm Crest Width (m)	Dozer Size	Scarify (y/n)	Growth Media Thickne ss (m)	Revegetate (y/n)	Berm Volume (1-side) (m ³ /m)	Regrade Cut Volume (m ³ /m)	Average Regrade Push Distance (m)	Factored Dozer Productivity (m/hr)	Scarification Area (m ²)	Cover Volume (Cm ³)	Revegetation Area (ha)	Regrade Hours	Comments/Notes
Main Pit	Mill to Main Dump	1193	28	1.5	0	1.3	3	1	1.5	1.3	0	D8	Y	0	Yes	2.9	2.9	3.2	288.3	33,404	0	3.34	4.1	
Minto North Ha	MWDE to Minto North	1000	28	1.5	2	1.3	3	2	1.5	1.3	0	D8	Y	0	Yes	2.9	6.7	3.2	125.8	28,000	0	3.75	8.0	
TDD Road	Area costed as WR dump															0.0				0	0	0.00	0.0	Area costed as WR Dump
TOTALS																				61,404	0	7	12	

Notes: 1. Dozer regrading productivity calculations details are provided in the "reslope" worksheet. 2. If a side slope is not regraded, it is assumed that it is not revegetated, and no cover is placed. 3. Most haul road costs are included within their respective areas.

D: Culvert Removal

					Input Paran	neters			То	tal Quantitie	s	
Area	Description	Qnty	Culvert length (m)	Culvert Diameter (m)		Excavation Side-Slope (H:1V)		Mobilization	Mobilization/D emobilization Hours		Volume	Comments/Notes
Mill Water Pone	Upstream Culvert	1	210	1.4	4	2	2	0	1.0	8,400	69	Average excavation depth assumed
	Tailings line to Main Pit	1	38	1	4	2	2	0	0.0	1,520	9	diameter assumed
	Reclaim line culvert by ore stockpile	1	35	1	2	2	2	0	0.0	420	8	diameter assumed
Mill	Tailings line culverts between confluence area and mill	4	50	1	2	2	2	0	0.0	2,400	12	diameter assumed
	Culverts between mill and main access road	2	50	1	2	2	2	0	0.0	1,200	12	diameter assumed
Area 2	Tailings discharge culvert by Area 2 pit	1	86	1	2	2	2	0	1.0	1,032	20	diameter assumed
	Culvert for water line between Main and Area 2 pit	1	54	1	2	2	2	0	0.0	648	13	diameter assumed
Pelly laydown		1	200	1	2	2	2	0	1.0	2,400	47	diameter assumed
TOTAL									3.0	18020.0	190.1	
Notes:												•

Notes: 1. Demolition volume assumes culvert is flattened and then has an average height of 15 cm.

Worksheet 26 - Surface Infrastructure Calculations

Project:	Minto Mine Closure Cost Estimate - RCP Rev. 2016-01
Project No.:	1CM002.045
Client:	Minto Explorations Ltd.
Date of Submission:	August 5, 2016
File Location:	\\VAN-SVR0\Projects\01 SITES\Minto\1CM002.045 ClosureCosts\Cost Estimate\

 References (dwgs/plans):
 \WAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\040_AutoCAD\1CM002-45_ClosureQuantities.dwg

 Layer:
 -Pipelines

A. Conveyance Pipelines

Calculation Inputs Pipe Debris Bulking Factor: 1.30

											Calc	ulated Quan	tities		1
							Pipeline Details			HDP	E Pipe Demo	olition Lengt	hs (m)	Pipe	
							Total Diameter							Debris	
					Length	Pipe Diameter	(incl. insulation)	Diameter	Lines to	0.75 to 4	6 to 8	10 to 18	20 to 36	Volume	1
Line	Туре	Details	From	То	(m)	(inches)	(inch)	Category	flush	inch	inches	inches	inches	(Lm3)	Comments/Notes
Main Pit Tailings Line	Tailings	8" Insulated discharge	Tailings Building	Main Pit	630	8	12	6 to 8 inch	1	0	630	0	0	60	
Area 2-Main Pit Tailings Lin	Tailings	8" Insulated discharge	Mill Pond Junction	Area 2 Pit	283	8	12	6 to 8 inch	1	0	283	0	0	27	
Area 2 Pit Tailings Line	Tailings	8" Insulated discharge	Area 2 Pit	Main Pit	450	8	12	6 to 8 inch	1	0	450	0	0	43	
Main Pit Reclaim Line	Water	8" Insulated, heat traced	Main Pit	Mill Building	870	8	12	6 to 8 inch	1	0	870	0	0	63	
Area 2 Pit Dewatering Line	Water	8"	Area 2 Pit Bottom	Area 2 Pit - Top	735	8	8	6 to 8 inch	1	0	735	0	0	24	
Area 2 Pit Dewatering Line	Water	16"	Area 2 Pit Top	Main Pit	278	16	16	10 to 18 inch	1	0	0	278	0	36	
W15 Discharge Line	Water	24 "	W15	Tailings Building	1283	24	24	20 to 36 inch	0	0	0	0	1,283	0	
TOTALS:									6	0	2,968	278	1,283	253	

7

Notes:

B. Pipeline Infrastructure/Equipment

			Estimated Weight	Total Weight	
Area	Details	Quantity	(kg)	(kg)	Comments/Notes
Pumps		5			
Main Pit	Reclaim Pump	3	100	300	
Area 2	Dewatering Pumps	1	0	0	
W15 Sump	W15 Pump	1	200	200	
Barges/Misc. Equipment		2			
Main Pit	Reclaim Barge	1	2000	2000	
Main Pit	Power Shack	1	2000	2000	
TOTALS:				4500	

Notes:

1. Weights of pumping equipment are assumed

2. Equipment is assumed to be placed in semi-trailers for transport to Whitehorse for disposal/salvage.

C. Power Line and Substation Removal

					Off-site I	Disposal Trips		
			Number of	Power Pole	Power Line	Transformer/ Powerline		
Line	Power Line Length (km)	Number of power poles		Trips	Reels		TOTAL TRIPS	Comments/Notes
Mill to Water Storage Pond	1.58	30	2	1.2	5.2	1.5		
Mill to Minto South Portal	1.58	30	2	1.2	5.2	1.5		
TOTALS:	3.16	60	4	3	11	4	18	

Notes:

1. Power line lengths and number of poles provide by Minto in file "powerpoles.dxf"

Worksheet 27- Underground

Project:	Minto Mine Closure Cost Estimate - RCP Rev. 2016-01
Project No.:	1CM002.045
Client:	Minto Explorations Ltd.
Date of Submission:	August 5, 2016
File Location:	\\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\Cost Estimate\

References (dwgs/pla \\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\040_AutoCAD\1CM002-45_ClosureQuantities.dwg

2 0.5 1

1 0.4 0.4 0.2

A: Existing Portals

				Inputs					Cal	culated Quan	tities		
Description	Height (m)	Width (m)	Thickness	Backfill height above portal opening (m)	outside of	outside side	Cost Code	Underground Plug Volume (m ³)	Plug Volume in Front of Portal (m3)	Total Plug		Small Dozer	Comments/Notes
Existing Portals	(11)	(111)	(11)	opening (m)	pontai (iii)	30pc (11.14)	IOI EIID	()	i ontai (iiio)	volume (m)	(117)	110013	Commentarioles
Minto South Portal	5	7	15	5	12	3	R.001	788	1,800	2,588	159	16	
Future Portals													

Notes:

B: Shafts and Vent Raises

					Inputs								C	alculated Qu	antities						
			Depth to			Concrete								Concrete							
			competent		Concrete	Slab	Concrete	Backfill			Vent Raise	I-beams		Ring Wall	Concrete Ring	Ringwall	Steel		Total	Backfill	
	Length	Width	material	Concrete Cap	Cap Width	Thickness	Slab rebar	Thickness	Concrete Cap	Excavation	Pipe Length	required (W	Total I-Beam	Formwork	Wall Rebar	Dowell	Decking (q-	Total Rebar	Concrete	Volume	Comments/N
Facility	(m)	(m)	(m)	Length (m)	(m)	(m)	layers	over cap (m)	Perimeter (m)	Volume (m3)	(m)	250x33)	Length (m)	(m2)	Length (m)	Length (m)	deck) (m2)	Length (m)	Volume (m3)	(m3)	otes
Existing shafts and ve	ent raises																				
Area 118 Vent Raise	3	3	0.5	4	4	0.45	2	1	16	4.0	4	2	8	8	16	16	16	32	8.6	25	

CALCULATION INPUTS

Vent Raise design

I-Beam spacing (m):
Concrete ring wall height (m):
Concrete ring wall rebar spacing (into bedrock) (m):
Concrete ring wall rebar (into bedrock) length (m):
Ringwall dowel spacing at top of wall (m):
Ringwall dowel length (m):
Concrete slab rebar spacing:

Worksheet 28 - Waste Disposal

Project:	Minto Mine Closure Cost Estimate - RCP Rev. 2016-01
Project No.:	1CM002.045
Client:	Minto Explorations Ltd.
Date of Submission:	August 5, 2016
File Location:	\\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\Cost Estimate\

References (dwgs/plans): \\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\!040_AutoCAD\1CM002-45_ClosureQuantities.dwg

A: Reagents

	ſ			Inpu	ts						Calculated	d Quantities					T
Area	Reagents	Solid/Liquid	Mass of Solid (kg)	Volume of Liquid (m ³)	Container Type	Disposal Fee (per container)	Number of drums	Number of tote bags	Number of Solid Bulk Carriers	Number of Small Tankers			Trips Required - 55 Gal. Drums	Trips Required - Tote Bags	Disposal Fees (\$)	TOTAL TRIPS	Comments/Notes
lill Area	PAX	Solid	2,000		55 gal. drum	\$0	7	0	0	0	0	1	0.1	0.0	\$0		
	MIBC	Solid	3,652		55 gal. drum	\$0	12	0	0	0	0	2	0.1	0.0	\$0		
	MagnaFlocc 338	Solid	5,000		55 gal. drum	\$0	17	0	0	0	0	3	0.2	0.0	\$0		
	MagnaFlocc 155	Solid	500		55 gal. drum	\$0	2	0	0	0	0	0	0.0	0.0	\$0		
	Filter cleaning agent (HNC	Liquid		3.20	Liquid - 2,200 gal. tank	\$0	0	0	0	1	0	4	0.0	0.0	\$0		
ater Treatment Plant	Reagents	Solid	20,000		Tote bags	\$0	0	15	0	0	0	8	0.0	0.4	\$0		Assumes 15 totes remaining
VF Reagent Tent	Reagents	Solid	20,000		Tote bags	\$0	0	15	0	0	0	8	0.0	0.4	\$0		Assumes 15 totes
DTAL	TOTAL						38	30	0	1	0	25	0.4	0.9	\$0	2.2	

Notes: 1. See details on container types below 1. Reagents assumed to be returned to supplier (no disposal fee)

B: Hazardous Materials

				Inpu	ts						Calculated	d Quantities					T
Area	Description	Solid/Liquid	Mass of Solid (kg)	Volume of Liquid (m ³)	Container Type	Disposal Fee (per container)	Number of drums	Number of tote bags	Number of Solid Bulk Carriers	Number of Small Tankers			Trips Required - 55 Gal. Drums	Trips Required - Tote Bags	Disposal Fees (\$)	TOTAL TRIPS	Comments/Notes
Vill Area	Misc. drums, oils, glycol &	Solid	20,000		55 gal. drum	\$750	65	0	0	0	0	65	0.6	0.0	\$48,750		
Camp Area	Misc. oils, cleaning supplie	Solid	100		55 gal. drum	\$750	1	0	0	0	0	1	0.0	0.0	\$750		
Fuel Farm Area	Misc. fuel containers/oil	Solid	500		55 gal. drum	\$750	2	0	0	0	0	2	0.0	0.0	\$1,500		
Explosives Plant	Misc. explosive material	Solid	2,000		Solid - Bulk	\$0	0	0	1	0	0	4	0.0	0.0	\$0		Assumed
Airport Laydown	Misc. fuel containers/oil	Solid	500		55 gal. drum	\$750	2	0	0	0	0	2	0.0	0.0	\$1,500		Assumed
Pelly Laydown	Misc. fuel containers/oil	Solid	500		55 gal. drum	\$750	2	0	0	0	0	2	0.0	0.0	\$1,500		Assumed
Minto South Portal	Misc. fuel containers/oil	Solid	500		55 gal. drum	\$750	2	0	0	0	0	2	0.0	0.0	\$1,500		Assumed
Airstrip Area	Recycling storage area ma	Solid	3,000		55 gal. drum	\$750	10	0	0	0	0	10	0.1	0.0	\$7,500		Assumed
TOTAL							84	0	1	0	0	88	0.8	0.0	\$63,000	1.8	

Notes:
1. See details on container types below
2. Mill area parameters are assumed, and were adjusted to total \$61,000 in the cost estimate to match a contractor quote from General waste management to MEL.

C: Metal Contaminated Soils

					Inputs		Cale	culated Quanti	ties	
			Suspected			Assumed				
			Contaminat			Average		Confirmation	Volume of	
		Disposal	ed Area	Test Grid	Assumed %	Excavation	Delineation Test	Tests	Contaminated	
Area	Description	Location	(m2)	Spacing (m)	Contaminated	Depth (m)	Pits Required	Required	Soil (m3)	Comments/Notes
Crusher Area	Metal Contaminated Soils	UG	19,661	10	50%	0.3	197	197		Suspected area is near processing/tailings/concentrate buildings
Mill Area	Metal Contaminated Soils	UG	19,822	10	50%	0.3	198	198	2973	Suspected area is near processing/tailings/concentrate buildings
TOTAL							395		5922	

Notes: 1. During investigation program, 2 soil tests completed per grid location (1 near surface and 1 at depth)

D: Hydrocarbon Contaminated Soils

					Inputs		Calc	culated Quanti	ies	
			Suspected			Assumed				
			Contaminat			Average		Confirmation	Volume of	
		Disposal	ed Area	Test Grid	Assumed %	Excavation	Delineation Test		Contaminated	
Area	Suspected location	Location	(m2)	Spacing (m)	Contaminated	Depth (m)	Pits Required	Required	Soil (m3)	Comments/Notes
Fuel Storage Area	near fueling areas	Landfarm	1,644	10	15%	1.0	16	16	247	Entrance, fueling area, and near generators.
Mill area	near mechanic shop	Landfarm	550	10	15%	1.0	6	6	83	
Airstrip	allowance	Landfarm	500	10	15%	1.0	5	5	75	
Dundas area	allowance	Landfarm	500	10	15%	1.0	5	5	75	
Pelly laydown	allowance	Landfarm	500	10	15%	1.0	5	5	75	
TOTAL							37		554.1	

Notes: 1. During investigation program, 2 soil tests completed per grid location (1 near surface and 1 at depth)

E: Landfarm

					Inputs					Calcula	ted Quantities			
		Total Volume							Landfarm		Containment			
		to be treated	thickness	berm height	Liner Protection Layer	Mixing events	Years mixing	Landfarm	Length/Width	Perimeter	Berm Volume	Liner Area		
Facility	Location	(m3)	(m)	(m)	thickness (m)	per year	required	Area (m2)	(m)	Length (m)	(m3)	(m2)	Total Mixing Events	Comments/Notes
Existing Landfarm	Airstrip	554				4.0	3.0	4265				4265	12	Overall areas provided by Minto
TOTAL								4265		0	0			

Notes: 1. During investigation program, 2 soil tests completed per grid location (1 near surface and 1 at depth)

F: Solid Waste Landfill

					Inputs					Calculat	ed Quantities			
Facility	Location	Demolition Waste to be	Assumed Percentage of fill to be added to provide compaction	Maximum fill thickness (m)		Landfill base length (m)	Landfill cover thickness (m)	Compacted Waste Volume (CCM)		Total Required Landfill Volume (CCM)		Landfill Cover Volume	Revegetation Area (ha)	Comments/Notes
Solid Waste Landfill		12.920	30%	c	(70		11.235	3.371	14,606		5024	0.55	Commentarivotes
Solid Waste Landilli	Airstrip	12,920	30%	5	4	13	0.6	11,235	3,371	14,000	14712	5024	0.55	
TOTAL														

Notes: 1. During investigation program, 2 soil tests completed per grid location (1 near surface and 1 at depth)

Worksheet 29 - Water Conveyance/Storage Quantity Calculations

Project:	Minto Mine Closure Cost Estimate - RCP Rev. 2016-01
Project No.:	1CM002.045
Client:	Minto Explorations Ltd.
Date of Submission:	August 5, 2016
File Location:	\\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\Cost Esti

References (dwgs/plans): Layer: \\\VAN-SVR0\Projects\01_SITES\\Minto\1CM002.045_ClosureCosts\040_AutoCAD\1CM002-45_ClosureQuantities.dwg For secondary conveyance channel - "Drainage Paths"

A: Primary Conveyance Channels

							Channel Para	ameters							X-Se	ction Quantit	ies			Tot	al Quantiti	es		
		Channel Base Width, Bc	Side Slope		Flow depth including Freeboard, D	Excavation Volume User	Rip-Rap	Bedding Layer Thickness	Geotextile		Geosynthetic	Geosynthetic Anchor Trench	Average Excavation	Average Excavated	Rip-Rap Area	Bedding Layer Area	Geotextile	Liner	Excavatio n Volume	Rip-Rap Volume	Bedding Layer Volume	Geotextile	Liner	
Area	Length (m)	(m)	z (:1)	Depth, Df (m)	(m)	Over-ride (BCM)	Thickness (m)	(m)	Layers	Liner? (Y/N)	Wastage	Allowance (m)	Depth (m)	Area (m ²)	(m²)	(m²)	Length (m)	Length (m)	(m ³)	(CCM)	(CCM)	Area (m ²)	Area (m ²)	Comments/Notes
WSP Breach Channel Restoration (pilot channel	250	2	2	2	1		0.5	0.3	1	No	10%	0.3	2.8	22.3	3.9	2.9	11.0	0.0	5,584	964	726	3,033	0	
W15 to Main Pit (Ditch A-3)	425	7	2	n/a	1	40300	0.5	0.3	1	No	10%	0.3	n/a	94.8	6.4	4.4	16.0	0.0	40,300	2,700	1,872	7,493	0	1CM002-042
W35 to Area 2 Pit (Ditch B)	167	7	2	1.2	0.6		0.5	0.3	0	Yes	10%	0.3	2	22.8	5.5	3.9	0.0	14.2	3,800	912	646	0	2,616	1CM002-042
Main Pit to Main Access Road (Ditch C-1)	357	7	2	n/a	1	16900	0.5	0.3	0	No	10%	0.3	n/a	47.3	6.4	4.4	0.0	0.0	16,900	2,268	1,573	0	0	1CM002-042
Area 2 Pit to Main Pit Channel (Ditch D-1)	297	7	2	n/a	1	7200	0.5	0.3	0	No	10%	0.3	n/a	24.2	6.4	4.4	0.0	0.0	7,200	1,887	1,309	0	0	1CM002-042
Main Access Road to WSP	940	7	2	1.5	1		0.5	0.3	0	No	10%	0.3	2.3	27.5	6.4	4.4	0.0	0.0	25,896	5,973	4,141	0	0	1CM002-042
Tailings Diversion Ditch	420	0	6	0.5	0.5	0	0.8	0	1	No	10%	0.3	n/a	0.0	8.8	0.0	16.5	0.0	0	3,701	0	7,645	0	1CM002-042
Mill Valley Fill Wetland conveyance channels	160	4	2	1	1		0	0.3	1	Yes	10%	0.3	1.3	8.8	0.0	2.8	10.6	10.6	1,402	0	442	1,858	1,858	1CM002-042
Minto Creek Wetland By-Pass Channel	550	7	2	2	2		0.5	0.3	1	No	10%	0.3	2.8	36.3	8.6	5.7	20.5	0.0	19,986	4,725	3,161	12,402	0	

Notes: 1. See channel drawing and parameter definitions below.

B: Secondary Conveyance Channels

					Chan	nel Parameters						X-Section C	uantities			Total Qua			
		Channel Base		Average Final	Rip-Rap				Geosynthetic	Average	Average		Bedding			Rip-Rap	Bedding Layer		
		Width, Bc	Side Slope	Channel	Thickness	Bedding Layer	Geotextile	Geotextile	Anchor Trench	Excavation	Excavated Area	Rip-Rap Area	Layer Area	Geotextile	Excavation	Volume	Volume	Geotextile	
Area	Length (m)	(m)	z (:1)	Depth, (m)	(m)	Thickness (m)	Layers	Wastage	Allowance (m)	Depth (m)	(m ²)	(m ²)	(m ²)	Length (m)	Volume (m ³)	(CCM)	(CCM)	Area (m ²)	Comments/Notes
Southwest Dump																			
SWD SC1 - Shallow grade	389	2	2	1	0.3	0	1	10%	0.3	1.3	6.2	2.2	0.0	8.6	2.398	842	0	3.661	See Note 1
SWD SC3 - Shallow grade	825	2	2	1	0.3	0	1	10%	0.3	1.3	6.2	2.2	0.0	8.6	5,085	1,785	0	7,764	
SWD SC4 - Shallow grade	276	2	2	1	0.3	0	1	10%	0.3	1.3	6.2	2.2	0.0	8.6	1.701	597	0	2.597	
SWD SC5 - Shallow grade	260	2	2	1	0.3	0	1	10%	0.3	1.3	6.2	2.2	0.0	8.6	1,603	563	0	2,447	
SWD SC1 - Steep grade	21	2	2	0.6	0.6	0.3	1	10%	0.3	1.5	8.1	3.7	2.5	9.7	171	78	53	225	
SWD SC2 - Steep grade	240	2	2	0.6	0.6	0.3	1	10%	0.3	1.5	8.1	3.7	2.5	9.7	1,953	888	604	2,570	
SWD SC3 - Steep grade	225	2	2	0.6	0.6	0.3	1	10%	0.3	1.5	8.1	3.7	2.5	9.7	1.831	832	566	2.409	
SWD SC4 - Steep grade	190	2	2	0.6	0.6	0.3	1	10%	0.3	1.5	8.1	3.7	2.5	9.7	1,546	703	478	2,034	
SWD SC5 - Steep grade	140	2	2	0.6	0.6	0.3	1	10%	0.3	1.5	8.1	3.7	2.5	9.7	1,139	518	352	1,499	
SUBTOTAL - South West Dump															17,427	6,806	2,054	25,206	
Main Waste Dump																			
MWD - Shallow grade	1051	2	2	1	0.3	0	1	10%	0.3	1.3	6.2	2.2	0.0	8.6	6,477	2,274	0	9,888	
MWD - Steep grade	490	2	2	0.6	0.6	0.3	1	10%	0.3	1.5	8.1	3.7	2.5	9.7	3,986	1,812	1,233	5,244	
SUBTOTAL - Main Waste Dump															10,462	4,086	1,233	15,132	
Reclamation Overburden Dump																			
ROD - Shallow grade	793	2	2	1	0.3	0	1	10%	0.3	1.3	6.2	2.2	0.0	8.6	4,886	1,715	0	7,460	
ROD - Steep grade	370	2	2	0.6	0.6	0.3	1	10%	0.3	1.5	8.1	3.7	2.5	9.7	3,007	1,367	930	3,956	
SUBTOTAL - Reclamation Overburden Dump															7,893	3,083	930	11,416	
Dry Stack Tailings Storage Facility and Mill Vall	ey Fill Buttr	ess (Stage	l and 2)																
DSTSF - Shallow grade	692	2	2	1	0.3	0	1	10%	0.3	1.3	6.2	2.2	0.0	8.6	4,263	1,497	0	6,509	
MVFE - Shallow grade	505	2	2	1	0.3	0	1	10%	0.3	1.3	6.2	2.2	0.0	8.6	3,115	1,094	0	4,756	
DSTSF - Steep grade	322	2	2	0.6	0.6	0.3	1	10%	0.3	1.5	8.1	3.7	2.5	9.7	2,623	1,193	812	3,452	
MFVE - Steep grade	236	2	2	0.6	0.6	0.3	1	10%	0.3	1.5	8.1	3.7	2.5	9.7	1,917	872	593	2,522	
SUBTOTAL - DSTSF and MVFE															11,919	4,655	1,405	17,239	
TOTAL	7023.7																		

Notes: 1. SWD secondary channel lengths obtained from SRK project number 1CM002.031 (Progressive reclamation) 2. Channel lengths for all other dumps were based on SWD design scaled by area. 26.6 m of shallow sloped channel length per dump area (ha) were applied, and 12.4 m of steep sloped channel length area 3. 26.6 m of shallow sloped channel length per dump area (ha) was applied, and 12.4 m of steep sloped channel length per dump area (ha) was applied. 4. Approx. dump areas used in the calculations area: SWD - 58.8 ha, RMVD - 38.8 ha, ROO - 28.8 ha, BSTSF - 28 ha, and MVFE - 19 ha.

C1: Construct New Ponds/Sediment Basins

						Pone	l Parameter	s							Tot	al Quantities			1
Area	Pond Base Length (m)		Side Slope, z (:1)	, Final Pond Depth, Df (m)	Protected depth including Freeboard, D (m)	Rip-Rap Thickness (m)	Rip-Rap Volume User Over- ride (BCM)	Bedding Layer Thickness (m)	Geotextile Layers	Liner? (Y/N)	Geosynthetic Wastage	Geosynthetic Anchor Trench Allowance (m)	Excavation Depth (m)	Excavation Volume (BCM)	Rip-Rap Volume (CCM)		Geotextile Area (m ²)		a Comments/Notes
Stilling Basin at MVFE Stage 2 Toe	15	5	2	2.5	2.5	0	75	0.3	1	No	10%	0.3	2.8	645	75.00	131	540	0	Rip-rap assumes an area of 75m2 at both the inlet and outlet with a thickness of 0.5m

Notes: 1. See channel drawing and parameter definitions below.

Page 59 of 61

C2: Decommission Ponds/Sediment Basins

	Pond Parameters								Calculations			То	tal Quantities	5		
										Liner X-						
							Liner Bulking			Section Width			Sediment		Liner Debris	
	Base	Base Width		Pond Depth	Sediment	Water Depth	Factor (See				Backfill Volume	Water	Volume	Liner Area	Volume	
Name	Length (m)	(m)	Slope (:1)	(m)	Depth (m)	(m)	note 1)	(m)	Top Width (m)	(m)	(m3)	Volume (m ³)	(BCM)	(m ²)	(LCM)	Source, Comments/Notes
Mill Water Pond	43	2.5	4	5	0.5	4	10	83.0	42.5	43.7	7,088	4,366	101	3,630	54	Pond to be Filled In; dimension source: 2011 Annual Review plan drawing
Sewage Lagoon at IROD Laydown	35	25	3	3	0	0	n/a	53.0	43.0	44.0	4,488	0	0	2,331	#VALUE!	No liner present - dimensions from AutoCAD
W15 Sump							10	131.0	10.0	10.0				1,310	20	Liner Length from AutoCAD; width/depth assumed
Fuel Tank Farm	45	30	1	2	0.45	0	10	49.0	34.0	35.7	3,008	0	623	1,747	26	Farm dimensions from AutoCAD;
Waste Oil Tanker Containment	12	8	1	2	0.45	0	10	16.0	12.0	13.7	280	0	47	219	3	Farm dimensions from AutoCAD;

Notes: 1. Liner assumed to be 60mil HDPE (thickness 1.5mm); bulking factor estimated

D: Dams

		Dewate	ering Inputs	s Dam Volumes								Calculations										
		Pond	Seepage	Pump										Time					General		Downstrea	
	Storage	Drawdown	during	dewatering	Stripping								Rip-rap %	Required to	Total		Rip-rap to		Fill to	Dam Core	m Shell to	
	Capacity	Rate	drawdown	system install	Volume	General	Upstream	Dam Core	Filter Layers	Downstream	Toe Berm	Spillway Rip-	able to be	dewater	Dewatering	Rip-rap for	discard	Total Dam	Breach	to Breach	breach	
Name	(m ³)	(m ³ /hr)	(L/s)	time (hrs)	(BCM)	backfill (CCM)	Shell (CCM)	(CCM)	(CCM)	Shell (CCM)	(CCM)	rap (CCM)	reused	(days)	Volume (m ³)	Reuse (CCM)	(CCM)	Fill Vol	(CCM)	(CCM)	(CCM)	Source, Comments/Notes
Water Storage Pond Dam	360,000	1080	30	4	33,031	10,740	30,449	29,883	31,630	43,005	6,013	5,800	50%	15	400,000	19,285	19,285	157,520	62,301	23,617	38,571	Max drawdown rate: 300L/s (1,080m3/hr)

Notes: 1. WSP max drawdown rate from "Dam Stability Analysis - Water Retention Dam Reservoir Dewatering (EBA 2008) 2. Dam volumes from asbuilt report (EBA 2008) 3. Upstream shell is residuum, downstream shell is rip-rap sized material, the core is fine-grained clayey material, the filters are screened/crushed materials

E: Intake Structures

				Pond Param	eters			Total	Quantities	
					Depth to	Over-				
					Competent		Excavation			
					Foundation	Allowance (m)	Side Slopes	Volume	Backfill volume	
Name	Quantity	Length (m)	Width (m)	Height (m)	(m)	(See note 1)	(H:1)	(BCM)	(CCM)	Source, Comments/Notes
Main Pit Pre-cast concrete intake structure	1	15	4	3	3	2	1	2,450	2,450	Based on check structure (CS-1.0-20-OS) manufactured by Precon
Area 2 Pit pre-cast concrete intake structure	1	15	4	3	5	2	1	4,453	4,453	Based on check structure (CS-1.0-20-OS) manufactured by Precon

Notes:
1. The perimeter around the intake structure assumed to be over excavated around the perimeter to for worker access during installation.

F: Passive Treatment System/Wetlands

		Valley Fil	I Parameter	'S						Wetland Ce	II Parameters						Calculated Quantities							
																Geosynthetic								
			Average									Organic				Anchor			Cell	Organic				
			Fill	Valley Fill		Base of	Base of	Organic			Excavation	Volume User				Trench		Cell	Excavatio	Media	Subgrade			
		Average	Thickness	Volume User	Number of	organics	organics	Thickness	Final Pond	Side Slope, z	Volume User	Over-ride	Geotextile		Geosynthetic	Allowance	Valley Fill	Excavation	n Volume	Volume	preparation	Geotextile	Liner	
Area	Length (m)	Width (m)	(m)	Over-ride (CCM)	cells	Length (m)	width, Bc (m)	(m)	Depth, Df (m)	(:1)	Over-ride (BCM)	(BCM)	Layers	Liner? (Y/N)	Wastage	(m)	Volume	Depth (m)	(BCM)	(CCM)	area (m2)	Area (m ²)	Area (m ²) (Comments/Not
Stilling Basin at MVFE Stage 2 Toe	400	40	4.5		7	41	15	1	1.3	2			1	Yes	10%	0.3	72,000	2.3	14,459	5,122	9,273	10,201	10,201	

Notes:

1. See channel drawing and parameter definitions below. 2. The domainsformulas in the channel drawing below are adjusted in the Wetlands calculations as follows: Wetland media is the equivalent of 'water' (blue), the protection layer is the equivalent to beddingfilter layer (green), and rip-rap was not included in the calculations.

Worksheet 30 - Annual Water Treatment Cost Calculations

```
Project:
Project No.:
Client:
Date of Submission:
File Location:
```

Minto Mine Closure Cost Estimate - RCP Rev. 2016-01 1CM002.045 Minto Explorations Ltd. August 5, 2016 \\VAN-SVR0\Projects\01_SITES\Minto\1CM002.045_ClosureCosts\Cost Estimate\



A: Active Treatment

Operating Costs

	Crew/		Materials	Labor Cost	Equipment	Total	Total Labor	Total Equip		
Item		Hours		(\$/hr)	Cost (\$/hr)	Materials (\$)	(\$/hr)		Total Cost (\$)	Comments/Notes
Contractor Equipment	1	1			\$37,700	\$0	\$0	\$37,700	\$37,700	
Reagents	1	1	\$45,900			\$45,900	\$0	\$0	\$45,900	
Filters	1	1	\$62,100			\$62,100	\$0	\$0	\$62,100	
Operating Parts	1	1	\$192,800			\$192,800	\$0	\$0	\$192,800	
Power	1	1	\$142,000			\$142,000	\$0	\$0	\$142,000	
O&M Supplies	1	1	\$15,900			\$15,900	\$0	\$0	\$15,900	
Membranes	1	1	\$38,200			\$38,200	\$0	\$0	\$38,200	
Labour	1	1241		\$51.37		\$0	\$63,744	\$0	\$63,744	Based on plant availability 34%, 10hr/day.
TOTAL - Annual Active Tre	TOTAL - Annual Active Treatment Operating Costs								\$598,344	

NOTES:

1. Based on site costs - 2015

2. Source: "2015 - WTP Costs.xlsx' supplied by Minto in April 2016.

Capital Replacement Costs

ltem	Crew/ Unit	Hours		Labor Cost (\$/hr)	1.1.	Total Materials (\$)	Total Labor (\$/hr)	Total Equip (\$/hr)	Total Cost (\$)	Comments/Notes
Mechanical/Electrical Parts	1	1	\$60,100			\$60,100	\$0	\$0		
Pipes & Fittings	1	1	\$24,300			\$24,300	\$0	\$0	\$24,300	
Replacement Labour	1	80		\$51.37		\$0	\$4,109	\$0	\$4,109	Hours assumed.
TOTAL - Annual Active Trea	Operati	ng Costs			\$84,400	\$4,109	\$0	\$88,509		

NOTES:

1. Based on site costs - 2015

2. Source: "2015 - WTP Costs.xlsx' supplied by Minto in April 2016.

B: Passive Treatment

Wetland maintenance

	Crew/		Materials	Labor Cost	Equipment	Total	Total Labor	Total Equip		
Item	Unit	Hours	(\$)	(\$/hr)	Cost (\$/hr)	Materials (\$)	(\$/hr)	(\$/hr)	Total Cost (\$)	Comments/Notes
Excavator	1	80		\$43	\$114	\$0	\$3,468	\$9,129	\$12,597	
Std. Dump Truck	2	80		\$43	\$25	\$0	\$6,849	\$4,005	\$10,855	
Misc. supplies	1	1	\$10,000			\$10,000	\$0	\$0	\$10,000	Reveg, bacteria, etc.
Labour	1	40		\$35		\$0	\$1,389	\$0	\$1,389	
TOTAL - Annual Active Tre	OTAL - Annual Active Treatment Operating Costs								\$34,840	

NOTES:

1. Assumed costs for earthwork repairs/cell repair and hydraulic adjustments.