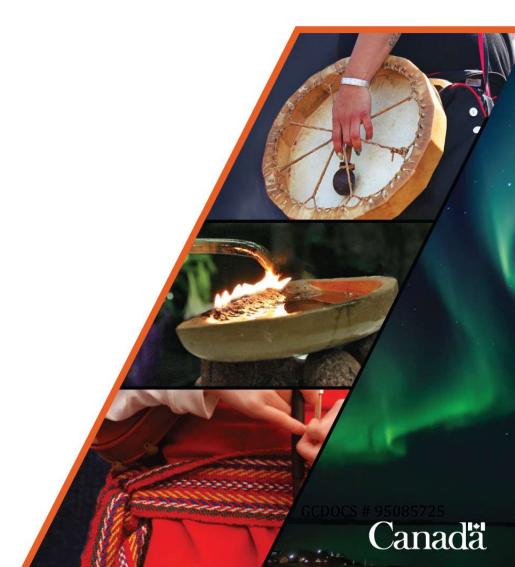
# Final submission for amendment of water licence 2AM-BRP1831

Back River Project (Sabina Gold & Silver Limited)
June 15, 2021





#### **EXECUTIVE SUMMARY**

Crown-Indigenous Relations and Northern Affairs Canada has participated as an Intervener in the ongoing review of Sabina Gold and Silver Corp.'s application to amend their Nunavut Water Board type A water licence 2AM-BRP1831 for the Back River gold mine project. This project is situated approximately 400 kilometers southwest of Cambridge Bay in Nunavut's Kitikmeot region.

The licensed project allows for the operation of four open pits and four underground mines at the Goose property, a marine laydown area on Bathurst Inlet, and a 160 km long winter road. The amendment currently under review by the Nunavut Water Board is called the 2020 Modification Package and includes requests for changes at Goose Property, at the Marine Laydown Area and on the Winter Ice Road.

Discussion during the technical review covered the following topics:

- **Scope of amendment** what permissions are added to the water licence with this amendment
- Water management and quality how much water can be used and what is done with the wastewater
- Predictions of water quantity and quality, management plans and reports –
  how good models are at predicting how much water will be on site and how clean
  it will be, and plans for how the mine will be run to protect the environment
- **Monitoring and reporting** what to look at to make sure things are going according to plans and how to report on findings
- Closure, reclamation & security how the site will be cleaned up at the end and how much money needs to be set aside in case Sabina cannot do that
- **Draft amended water licence** suggestions of changes that could be made to the current water licence

Crown-Indigenous Relations and Northern Affairs Canada had nine technical comments and most have been addressed by Sabina. Two areas where we have outstanding concerns are the long term water quality in Goose Lake and the cost of cleaning up the site after mining. CIRNAC is continuing discussions with Sabina and the Kitikmeot Inuit Association to sort out the second concern.



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To be provided



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To be provided



## RÉSUMÉ

To be provided



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#### INTRODUCTION

Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC), pursuant to its mandated responsibilities under the *Nunavut Waters and Nunavut Surface Rights Tribunal Act* and the *Department of Crown-Indigenous Relations and Northern Affairs Act*, is an Intervenor in the Nunavut Water Board water licensing process for the amendment of water licence 2AM-BRP1831 for the Back River gold mine project, as proposed by Sabina Gold and Silver Corp. (Sabina).

CIRNAC reviewed Sabina's application for the water licence amendment and provided technical comments to the Nunavut Water Board (Board) for their consideration. The review process included Information Requests (IR) and a Technical Review submission, both of which received responses from Sabina. This was followed by a Technical Meeting and a Pre-Hearing Conference on March 26, 2021 held through videoconference. On April 19, 2021 the Board distributed the Pre-Hearing Conference Decision inviting interested parties to submit final written submissions.

The amendment under consideration involves increasing the scope of water licence 2AM-BRP1831 to include greater water use, all-weather airstrip expansions at the mine site and marine laydown area, extension of the Umwelt Underground mine and shoreline pad, changes to timing of construction and use of water and wastewater management infrastructure, and improvements to the winter ice road. Previously approved elements of the Back River project, such as Echo Open Pit, Llama Underground, Goose Main Underground and Echo Underground, are no longer in the current mine plan, though they are to be retained within the scope of an amended licence.

The Board has provided a list of issues to be discussed at the public hearing. The topics have been used as headings in this document to organize CIRNAC's comments. Technical comments are provided in the following section. CIRNAC's current security estimate is provided as a RECLAIM model in Annex A.

During this amendment process, Sabina has provided a draft water licence proposing changes to their current 2AM-BRP1831 water licence. CIRNAC is providing comments on those sections of the proposed draft water licence pertaining to the amendment in Annex B.



#### **TECHNICAL COMMENTS**

CIRNAC submitted nineteen Information Requests (IRs) and nine Technical Review Comments (TCs). Exchanges and discussion with Sabina during the water licence amendment process so far have allowed CIRNAC to clarify most of the issues we identified. CIRNAC has outstanding concerns on two topics: water quality in Goose Lake and reclamation security. Ongoing discussions with Sabina and the Kitikmeot Inuit Association should allow us to resolve the second concern, at which time a further submission would be made to the Board.

Comments submitted by CIRNAC have been assigned to one of the topics in the Nunavut Water Board's list of issues, even though several comments could be assigned to more than one heading. Comments have been developed with the support of Tetra Tech Canada Inc.

#### 1. Scope of amendment

CIRNAC is of the opinion the scope of licence amendments described in Pre-hearing Conference Decision Report list of issues match those in the application.

#### These are:

- Goose Site
  - Airstrip Extension
  - Umwelt Underground Extension
  - Total Water Use Increase
  - Waste and Water Management Infrastructure
- Marine Laydown Area
  - Addition of Fuel Transfer Area
  - Airstrip Extension
  - Shoreline Pad Extension
- Winter Ice Road
  - Subbase Upgrade
  - Service/Emergency Camps
  - Total Water Use Increase

CIRNAC did not submit any comment pertaining directly to the scope of licence

#### 2. Water Management

Under this application, Sabina is requesting authorization for increased water use in three areas:

- Goose Lake: increase by 218,700 m<sup>3</sup>/year to 608,700 m<sup>3</sup>/year:
- Big Lake: increase by 195,750 m³/year to 273,750 m³/year; and



• Winter ice road: increase by 1,350 m³/km/year to 2,025 m³/km/year.

Sabina is also proposing some changes to timing of construction and operation of water and wastewater management infrastructure on site. CIRNAC submitted seven comments regarding water management, as summarised in Table 1. They are resolved.

Table 1 Status of comments pertaining to water management

| Comment # | Issue                                                               | Status   |
|-----------|---------------------------------------------------------------------|----------|
| IR1       | Groundwater inflow to Llama Pit                                     | Resolved |
| IR2       | Methodology for extrapolated water quality and quantity predictions | Resolved |
| IR4       | Treated sewage attenuation                                          | Resolved |
| IR10      | Water withdrawal errors                                             | Resolved |
| IR12, TC1 | Saline water pond permafrost and balance                            | Resolved |
| IR16      | Goose property waste and water management                           | Resolved |

**Groundwater inflow to Llama Pit (IR1):** CIRNAC requested a summary of parameters and methodology to estimate the flooding of Llama Pit including groundwater inflow. Sabina directed us to the 2020 Water and Load Balance Model and explained the assumptions used to calculate flooding of the pit.

**Methodology for extrapolated water quality and quantity predictions (IR2):** The amendment application includes a 250 m extension of the Umwelt Underground. CIRNAC requested further details on the hydraulic and water quality parameters used for the extension zone in the groundwater model. Sabina explained they used a scaling approach and provided details.

**Treated sewage attenuation (IR4):** The Water Management Plan proposes the use of land discharge for treated sewage without providing details on attenuation prior to entering a watercourse. Sabina responded that the proposed land discharge was assessed in 2018, concentration in the effluent have not changed since then and the adjusted discharge location is accounted for in the updated Water and Load Balance Model.

**Water withdrawal errors (IR10):** CIRNAC identified some inconsistencies in the additional withdrawal amounts requested between the table and text in section 2.3.3 of the Modification Package. Sabina clarified the differences were because one quantity referred to the total amount requested and the other was for the additional amount requested.

Saline Water Pond permafrost and balance (IR12, TC1): Umwelt Lake will be used to store saline groundwater and the mine plan involves construction of a dam to increase capacity and form the Saline Water Pond. CIRNAC requested more information on the



talik below the pond and yearly volumes in the pond. Sabina directed CIRNAC to a 2017 memo for information on the talik below Umwelt Lake, provided clarifications on the annual water volumes and underlined their commitment to provide an annual comparison of measured groundwater inflow rates to model predictions in the Annual Report.

Goose Property waste and water management (IR16): CIRNAC requested rationale for the nearly two-fold increase in water requested from Goose Property, and information on how the proportionate increase in wastewater was integrated into the Water Management Plan. Sabina responded the additional freshwater need was identified through detailed engineering during the Feasibility Study and that wastewater volumes should only increase marginally and would be managed to meet licence requirements.

#### 3. Water Quality

Sabina provided an updated Water and Load Balance Model that estimated water quantities and quality on site for the duration of the mine operations. CIRNAC submitted five comments regarding water quality, as summarised in Table 2. They were principally requests for clarification and have all been resolved.

| Comment # | Issue                                                                   | Status   |
|-----------|-------------------------------------------------------------------------|----------|
| IR8, IR9  | Water and Load Balance Model update and incorporation of climate change | Resolved |
| IR13      | Water quality in Saline Water Pond                                      | Resolved |
| IR14      | Lake mixing model                                                       | Resolved |
| TC3       | Arsenic concentration in tailings beach sediments                       | Resolved |

Table 2 Status of comments pertaining to water quality

Water and Load Balance Model update and incorporation of climate change (IR8, IR9): CIRNAC requested details on what was updated in the 2017 Water and Load Balance Model to create the 2020 model, and how climate change impacts will be captured in sizing of containment infrastructure. Sabina provided a table that clearly identified the changes between the 2017 and 2020 versions of the model and confirmed that climate change predictions had been incorporated when designing berms, culverts and ponds.

Water quality in Saline Water Pond (IR13): Extreme maximum values for many water quality constituents in the Saline Water Pond were presented in Appendix D of the Water and Load Balance and CIRNAC requested a time series model projections to confirm if the values were spurious. Sabina provided time series model projections for ammonia, chloride, sulphate, arsenic and copper for the duration of use of the Saline Water Pond.



Lake mixing model (IR14): Since the salinity of water discharged from the Saline Water Pond to the pit lake has an incidence on development of meromitic conditions in the pit lake, CIRNAC requested discussion on how the salinity and water quantity in the Saline Water Pond might vary during operations and an unexpected work stoppage. Sabina's discussion included graphs of salinity of the different water sources over the duration of the project.

**Arsenic concentration in tailings beach sediments (TC3):** CIRNAC identified a discrepancy in the concentration of arsenic in the tailings beach in the Water and Load Balance Model and Sabina confirmed the correct concentration for this geochemical source term is 0.081 mg/L, which was used in the model.

#### 4. Modelling, Management Plans, Manuals and Reports

For the 2020 amendment five management plans were updated including: Water Management Plan, Interim Closure and Reclamation Plan, Tailings Management Plan, Waste Rock Management Plan and Borrow Pits and Quarry Management Plan. The Water Management Plan includes the Saline Water Management Plan and Water and Load Balance Report as appendices. The hydrodynamic model for Goose Lake was also reviewed, and results from the latest version are integrated in the Effluent Quality Criteria Report for Effluent Discharged from Tailings Facilities, Tailings Storage Facilities, or Reservoirs - Version 1.

CIRNAC submitted 12 comments regarding modelling, management plans, manuals and reports, as summarised in Table 3. Most of the comments on the plans were requests for clarifications, and those requiring follow-up have been flagged to ensure commitments made by Sabina are incorporated into subsequent versions of management plans. CIRNAC has one unresolved comment on the hydrodynamic model for Goose Lake and our concerns relate to the long term water quality in the lake.



Table 3 Status of comments pertaining to modelling, management plans, manuals and reports

| Comment #  | Issue                                                 | Status              |
|------------|-------------------------------------------------------|---------------------|
| IR3        | Unanticipated groundwater quantities                  | Resolved            |
| IR11, TC2  | Hydrodynamic model                                    | Unresolved          |
| IR15, IR17 | Increase in tailings and waste rock                   | Resolved            |
| IR18       | Mass balance assessment                               | Resolved            |
| TC4        | Criteria for segregating rock                         | Resolved, follow-up |
| TC5        | Use of ponds as tailings facilities                   | Resolved            |
| TC6        | Temporary PAG stockpiles                              | Resolved, follow-up |
| TC7        | Quarry site development plans                         | Resolved, follow-up |
| TC8        | Additional infrastructure in Tailings Management Plan | Resolved, follow-up |
| TC9        | Saline Water Management Plan title                    | Resolved, follow-up |

**Unanticipated groundwater quantities (IR3):** CIRNAC requested Sabina's standard operating procedures (SOP) for when unanticipated groundwater volumes are encountered during mining. Though Sabina did not provide an SOP, they directed us to the Saline Water Management Plan which includes contingency measures for such encounters and committed to incorporating locations of historic drillholes in a future SOP.

**Hydrodynamic model (IR11, TC2):** The hydrodynamic model of Goose Lake predicts water quantity and quality in the lake and can be used as a tool to assess the impacts of different water management strategies. Sabina provided a hydrodynamic model on February 12, 2021 which had several deficiencies and the concerning conclusion that the concentration of several parameters (nitrate, nitrite, aluminum, arsenic, chromium, copper and iron) were expected to be above chronic water quality benchmarks for the protection of aquatic life at the outlet of Goose Lake, including during closure and post-closure.

Discussion at the technical meeting led to commitments from Sabina to update the model twice:

- once prior to the public hearing to explore the effect of changes to water management on site including discharging during operations instead of waiting for closure to discharge; and
- a second time 90 days following licence approval to incorporate further site data into the model inputs and allow for more time for optimization.

6

Results from the first update to the model were used to calculate effluent quality criteria in the May 27, 2021 report Effluent Quality Criteria Report for Effluent Discharged from



GCDOCS # 95085725

Tailings Facilities, Tailings Storage Facilities, or Reservoirs - Version 1. It is difficult to compare the results with the previous model because the modelling period is shorter, time series data are not presented for the same point, and benchmarks have changed for some of the parameters.

CIRNAC is still concerned with long term water quality based on the data presented, even though modelling was restricted to the 12 year operational period. Many parameters appear to increase in maximum concentration over the 12 years of operation, particularly in the final 3 years. For example, total lead stays below the 0.001 mg/L line until the final three years of operations, and remains below the applicable guideline because the guideline increases with hardness. Similar dynamics are evident in plots of nickel, cadmium, and aluminum. Other parameters increase towards a constant guideline, including arsenic, copper and iron.

During the May 5, 2021 teleconference regarding updates to the model, Sabina's rationale for not modelling the closure and post-closure periods was based on the anticipated expiration of the current water licence prior to closure. CIRNAC is of the opinion that restricting the model to operations defeats one of the purposes of modelling, and argues that the February 12, 2021 model identified problems during closure and post closure prior to them occurring, which will lead to changes in operations to avoid the problem. Likewise, CIRNAC would like to see projected water quality in Goose Lake during closure and post-closure to have confidence that the currently proposed site water management strategy will protect water quality in Goose Lake during operations, closure and post-closure.

CIRNAC recommends the next update to the hydrodynamic model, due 90 days after potential licence approval incorporate more detailed inputs, including field data to be collected this summer, and the forecast period cover operations, closure and post-closure. Furthermore, CIRNAC recommends the Water Management Plan be updated to integrate changes to water management on site that are being proposed based on hydrodynamic model findings.

**Increase in tailings and waste rock (IR15, IR17):** The proposed amendment would lead to a 27.6 Mt increase in waste rock and 7.4 Mt increase in tailings, which were not reflected in the Tailings Management Plan and Waste Rock Management Plan. These have since been updated by Sabina.

**Mass balance assessment (IR18):** Terms used in the Water and Load Balance Report created confusion between the tailings production volume and settled tailings volume, but Sabina has clarified that 2 500 m<sup>3</sup>/day in section 3.2.7 refers to total settled tailings volume and confirmed the correct quantity was used in the model.

**Criteria for segregating rock (TC4):** CIRNAC identified an inconsistency in how potentially acid generating (PAG) rock was defined in the Mine Waste Rock Management Plan and the 2020 Borrow Pit and Quarry Management Plan. Sabina clarified that PAG rock is defined as having a neutralization potential ratio (NPR) < 3 and



total sulphur (S) > 0.15%, and an addendum will be added to the Mine Waste Rock Management Plan at the next opportunity.

**Use of containment ponds as tailings facilities (TC5):** The updated Water Management Plan allows for the possibility of using all containment ponds as tailings storage facilities, but Sabina has confirmed this would be restricted to ponds and facilities appropriate for the storage of tailings.

**Temporary PAG stockpiles (TC6):** The Borrow Pit and Quarry Management Plan allows for the temporary stockpiling of PAG rock, about which CIRNAC requested further information. Sabina has clarified that temporary PAG stockpiles will be within quarry footprints, runoff from the quarries will be monitored, and piles will be in place a shorter period of time than the time for onset of acidic conditions from the rock.

**Quarry site development plans (TC7):** Sabina still intends to develop quarry development plans specific to each rock quarry, which was unclear but has been clarified.

Additional infrastructure in Tailings Management Plan (TC8): To help track project components still included in the water licence but not part of the current mine plan, CIRNAC recommended the Tailings Management Plan include a section for "other approved infrastructure", as is found in other plans. Sabina agreed to add this as an addendum to the plan at the next opportunity.

**Saline Water Management Plan title (TC9):** An inconsistency was identified in the title of the Saline Water Management Plan and will be corrected at the next opportunity.

#### 5. For-construction Drawings and Reports

Drawings provided with this 2020 amendment are for the shoreline pad extension at the marine laydown area on Bathurst Inlet. As well, maps highlighting areas where winter ice road subbase upgrade and realignment are planned were provided. CIRNAC submitted two comments regarding for-construction drawings and reports, as summarised in Table 4. They have been resolved.

Table 4 Status of comments pertaining to for-construction drawings and reports

| Comment # | Issue                                                         | Status   |
|-----------|---------------------------------------------------------------|----------|
| IR6, IR7  | Design criteria for event ponds, diversion berms and culverts | Resolved |

Design criteria for event ponds, diversion berms and culverts (IR6, IR7): CIRNAC requested justification on the use of a 24-hour event for containment pond design criteria, further information on design conveyance capacities for diversion berms and culverts, and watershed areas for five culverts. Sabina referred to information presented



in 2018, stating this amendment did not involve changing design criteria, which still follow best practice.

#### 6. Monitoring Program

Most of the discussions on the monitoring program are regarding proposed changes to water management on site and criteria for effluent discharge to Goose Lake. CIRNAC submitted a single comment regarding the monitoring program, as summarised in Table 5. It has been resolved.

CIRNAC supports Environment and Climate Change Canada's efforts to ensure that any effluent discharge criteria are protective of the environment and maintain Goose Lake's aquatic health in both the short and long term.

Table 5 Status of comment pertaining to wastewater management and treatment

| Comment # | Issue                               | Status   |
|-----------|-------------------------------------|----------|
| IR5       | Active layer groundwater monitoring | Resolved |

Active layer groundwater monitoring (IR5): CIRNAC requested information on how shallow groundwater would be monitored near mine infrastructure. Sabina replied that any potentially impacted shallow groundwater would be kept within the containment systems, since diversion berms and dams are keyed into permafrost, and therefore monitoring specific to active layer groundwater is not necessary. Moreover, they underlined how the seep surveys and dam inspections will flag any potential shallow groundwater concerns.

#### 7. Annual Reporting Requirements under Schedule B

CIRNAC did not submit any comment regarding annual reporting requirements under Schedule B. However, during discussions on other comments some additions to annual reporting requirements have been identified, including:

- 1. **Groundwater:** in response to TC1, Sabina has committed to including "an annual comparison of measured groundwater inflow rates to model predictions in the NWB Annual Report, as described in Section 5.1 of the Saline Water Management Plan"
- 2. **Progressive reclamation:** CIRNAC is in ongoing discussions with Sabina and the Kitikmeot Inuit Association regarding how best to evaluate progressive reclamation and how that could be captured in the annual reporting requirements. We hope to make a joint submission on this topic.



#### 8. Closure and Reclamation Planning

Sabina shared an Interim Closure and Reclamation Plan with Kitikmeot Inuit Association and CIRNAC in November 2020, accompanied by an updated closure cost reevaluation. CIRNAC has submitted a single comment regarding closure and reclamation planning to the Board, as summarised in Table 6. This issue is unresolved and CIRNAC is continuing discussions on the topic with the objective of participating in a joint submission to the Board prior to the public hearing scheduled in mid-July 2021.

Table 6 Status of comment pertaining to closure and reclamation planning

| Comment # | Issue                              | Status     |
|-----------|------------------------------------|------------|
| IR19      | Reclamation plan and cost estimate | Unresolved |

Reclamation plan and cost estimate (IR19): Three party discussions have continued with Sabina November 2020 have allowed us to clarify many points, bringing our respective cost estimates closer together. We have yet to agree on a total amount, and have yet to discuss the breakdown of the estimate between land and water owners and between stages/phases. CIRNAC's understanding is that Sabina will be submitting an Interim Closure and Reclamation Plan to the Board that incorporates some of our recommendations. CIRNAC's current reclamation cost estimate is shared in Annex B, though we will be making a further submission that may modify the total amount, and will include split between the holders of security and stages.

The mine plan incorporates progressive reclamation, which is an activity CIRNAC wishes to encourage on all sites. As such, our estimate assumes progressive reclamation will occur as per the mine plan, resulting in a smaller cost estimate than the total of each project component costed individually. CIRNAC and Sabina are discussing mechanisms that would help provide assurance to CIRNAC that progressive reclamation is proceeding as planned. These will likely be presented to the Board in the form of suggested items for the annual report, specifically for Schedule B of an amended water licence.

#### 9. Discussion on Amended Water Licence Framework

CIRNAC has reviewed the Draft Water Licence Framework "Addendum" To Support Water Licence Amendment submitted by Sabina on March 16, 2021. Our review has been limited to those terms and conditions pertaining to the amendment. The lack of comments on other proposed changes does not constitute agreement or disagreement on CIRNAC's behalf. We note many proposed changes do not seem to have been discussed during this amendment process.

Detailed comments are included as Annex B.



# **Annex A**

**RECLAIM Reclamation Cost Estimate** 



#### SUMMARY OF COSTS

| CAPITAL COSTS                              | COMPONENT NAME              | COST         | TOTAL LIABILITY I | LAND LIABILITY | WATER<br>LIABILITY |
|--------------------------------------------|-----------------------------|--------------|-------------------|----------------|--------------------|
| OPEN PIT                                   | Umwelt                      | \$51 017     | \$51 017          | \$25 098       | \$25 919           |
|                                            | Llama                       | \$57 577     | \$57 577          | \$23 203       | \$34 375           |
|                                            | Echo                        | \$55 055     | \$55 055          | \$20 985       | \$34 070           |
|                                            | Goose Main                  | \$88 472     | \$88 472          | \$28 832       | \$59 640           |
| QUARRY (under OPEN PIT TAB estimate)       | Airstrip Quarry             | \$3 865      | \$3 865           | \$3 865        | \$0                |
| UNDERGROUND MINE                           | Umwelt                      | \$378 099    | \$378 099         | \$197 122      | \$180 977          |
|                                            | Llama                       | \$105 418    | \$105 418         | \$74 399       | \$31 019           |
|                                            | Goose Main                  | \$289 250    | \$289 250         | \$64 229       | \$225 020          |
|                                            | Echo                        | \$97 841     | \$97 841          | \$96 061       | \$1 780            |
| TAILINGS FACILITIES                        | TSF                         | \$1 730 394  | \$1 730 394       | \$1 510 245    | \$220 149          |
| ROCK PILE                                  | Umwelt, Llama, Echo and TSF | \$18 310 068 | \$18 310 068      | \$16 479 061   | \$1 831 007        |
| BUILDINGS AND EQUIPMENT                    |                             | \$2 502 133  | \$2 502 133       | \$2 194 910    | \$307 222          |
| CHEMICALS AND CONTAMINATED SOIL MANAGEMENT |                             | \$1 386 303  | \$1 386 303       | \$1 179 589    | \$206 714          |
| SURFACE AND GROUNDWATER MANAGEMENT         |                             | \$2 131 642  | \$2 131 642       | \$ -           | \$2 131 642        |
| INTERIM CARE AND MAINTENANCE               | _                           | \$968 813    | \$968 813         | \$ -           | \$968 813          |
|                                            | SUBTOTAL: Capital Costs     | \$28 155 946 | \$28 155 946      | \$21 897 600   | \$6 258 346        |
|                                            | PERCENT OF SUBTOTAL         |              |                   | 78%            | 22%                |

| INDIRECT COSTS                             |                          | COST         |              | LAND LIABILITY V | WATER LIABILITY |
|--------------------------------------------|--------------------------|--------------|--------------|------------------|-----------------|
| MOBILIZATION/DEMOBILIZATION                |                          | \$4 316 542  | \$4 316 542  | \$3 357 086      | \$959 457       |
| POST-CLOSURE MONITORING AND MAINTENANCE    |                          | \$1 981 838  | \$1 981 838  | \$1 179 974      | \$801 864       |
| ENGINEERING                                | 10%                      | \$2 815 595  | \$2 815 595  | \$2 189 760      | \$625 835       |
| PROJECT MANAGEMENT                         | 5%                       | \$1 407 797  | \$1 407 797  | \$1 094 880      | \$312 917       |
| HEALTH AND SAFETY PLANS/MONITORING & QA/QC | 1%                       | \$281 559    | \$281 559    | \$218 976        | \$62 583        |
| BONDING/INSURANCE                          | 1%                       | \$281 559    | \$281 559    | \$218 976        | \$62 583        |
| CONTINGENCY                                | 20%                      | \$5 631 189  | \$5 631 189  | \$4 379 520      | \$1 251 669     |
| MARKET PRICE FACTOR ADJUSTMENT             | 0.0%                     | \$0          | \$0          | \$0              | \$0_            |
|                                            | SUBTOTAL: Indirect Costs | \$16 716 080 | \$16 716 080 | \$12 639 172     | \$4 076 909     |
| TOTAL COSTS                                |                          | \$44 872 026 | \$44 872 026 | \$34 536 772     | \$10 335 255    |

Summary 1 of 1

| Open Pit Name:                                                           | Umwel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | t              |          |                | Pit #             | 1            |           |              | 1          |
|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|----------------|-------------------|--------------|-----------|--------------|------------|
| ACTIVITY/MATERIAL                                                        | Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Units          | Quantity | Cost<br>Code   | Unit Cost         | Cost         | %<br>Land | Land<br>Cost | Tota       |
| CONTROL ACCESS                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |          |                |                   |              |           |              |            |
| Fence<br>Signs                                                           | Assumed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | m<br>each      | 4        | #N/A<br>Sabina | \$0.00<br>\$76.28 | \$0<br>\$305 |           | \$0<br>\$0   | \$30       |
| Berm at crest                                                            | Estimated for continous berm with 1m diameter boulders, no spacing between boulders - 0.52 m3/m - assumed 50 % done during Operations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | m3             | 433      | RR1H           | \$18.05           | \$7 809      | 100%      | \$7 809      | \$(        |
| Block roads                                                              | Temporary gate installation to allow water monitoring. It includes decommissioning of gate when no longer required. Exposed area after gate has been decommissioned will be blocked with boulders (exposed area along with block of roads with boulders included in berm cost above)                                                                                                                                                                                                                                                                                                                                         | allow          | 1        | Sabina         | \$5 085.00        | \$5 085      |           | \$0          | \$5 08     |
| Other<br>STABILITY STUDY                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$         |
| Conduct stability and setback study                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | allow          | 1        | Sabina         | \$17 289.00       | \$17 289     | 100%      | \$17 289     | \$         |
| STABILIZE SLOPES                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |          |                |                   |              |           |              |            |
| Off-load crest, soil A                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | m3             |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$(<br>\$( |
| Off-load crest, soil B Doze/trim overburden at crest                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | m3<br>m3       |          | #N/A<br>#N/A   | \$0.00<br>\$0.00  | \$0<br>\$0   |           | \$0<br>\$0   | \$(        |
| Drill & blast pit crest                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | m3             |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$(        |
| Buttress slope                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | m3             |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$         |
| Other                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$         |
| COVER/CONTOUR SLOPES                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |          |                |                   |              |           |              |            |
| Place fill, soil A                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | m3             |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$0        |
| Place fill, soil B                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | m3             |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$0        |
| Rip rap                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | m3             |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$(        |
| Vegetate slopes                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ha<br>ha       |          | #N/A<br>#N/A   | \$0.00<br>\$0.00  | \$0<br>\$0   |           | \$0<br>\$0   | \$(<br>\$( |
| Vegetate pit floor<br>Other                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IId            |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$(        |
| CONSTRUCT DIVERSION DITCHES                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |          |                |                   |              |           |              |            |
| Excavate ditches -soil                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | m3             |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$0        |
| Excavate ditches -rock Rip rap in channel base                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | m3<br>m3       |          | #N/A<br>#N/A   | \$0.00<br>\$0.00  | \$0<br>\$0   |           | \$0<br>\$0   | \$(<br>\$( |
| CONSTRUCT SPILLWAY                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1113           |          | #IWA           | ψ0.00             | ΨΟ           |           | ΨΟ           | Ų.         |
| Excavate channel                                                         | 200 m long, 6 m wide and 1 m deep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | m3             | 1 200    | SB1L           | \$4.37            | \$5 248      |           | \$0          | \$5 248    |
| Concrete                                                                 | 3,1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | m3             |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$0        |
| Rip rap                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | m3             | 400      | RR1H           | \$18.05           | \$7 221      |           | \$0          | \$7 22     |
| Other                                                                    | Geotextile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | m2             | 2 304    | GSTL           | \$3.50            | \$8 060      |           | \$0          | \$8 060    |
| RECLAIM QUARRIES                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |          |                |                   |              |           |              |            |
| Contour slopes                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | m3             |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$0        |
| Place overburden                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | m3             |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$0        |
| Vegetate                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | m3             |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$0        |
| FLOOD PIT-Capital  Remove stationary equipment (sump pumps) and Pipeline | in rear 3, the exhausted univer. Pit will be converted to a water reservoir. Water from the Saline Water Pond will be pumped into Uniwelt Reservoir between Year 3 and 4. The Uniwelt Reservoir between Year 3 and 4. The Uniwelt Reservoir will continue to passively flood with site runoff and direct precipitation through the remainder of Operations and into the Closure Phase.  Pipelines/pumps will be relocated for use in the other active pits (Goose Main Pit) and removed to closure landfill once they are no longer needed.  Dispose of fuel in diesel day tank and oil from pump and landfill cleaned pump. | m              |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$0        |
|                                                                          | Remove of pumps and pipelines will occur during                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |          |                |                   |              |           |              |            |
| Remove dewatering pipeline                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | m              |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$0        |
| Remove power lines                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | each           |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$0        |
| Construct diversion ditches -Ditch, mat'l A                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | m3<br>m3       |          | #N/A<br>#N/A   | \$0.00<br>\$0.00  | \$0<br>\$0   |           | \$0<br>\$0   | \$(<br>\$( |
| -Ditch, mat'l B                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | m3             |          | #N/A           | \$0.00            | \$0<br>\$0   |           | \$0<br>\$0   | \$(        |
| Construct embankment/dam                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | m3             |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$(        |
| Supply/install pump station                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | each           |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$0        |
| Supply/install piping system                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | m              |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$0        |
| Remove pump post-closure                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | each           |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$(        |
| Remove pipeline post-closure<br>FLOOD PIT-Annual Cost                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | m              |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$0        |
| Operate pumps (power)                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | m3             |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$         |
| Maintain pump/pipeline                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | allow          |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$0        |
| Labour:fuel management, comissioning/dec                                 | om                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | \$/h           |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$0        |
| Chemical addition, kg/m3 of water                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | tonne          |          | #N/A<br>#N/A   | \$0.00            | \$0<br>\$0   |           | \$0          | \$(        |
| Chemicals, purchase and shipping<br>Passive/biological additives         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | tonne<br>\$/ha |          | #N/A<br>#N/A   | \$0.00<br>\$0.00  | \$0<br>\$0   |           | \$0<br>\$0   | \$(<br>\$( |
| Passive additives purchase and shipping                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | tonne          |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$(        |
| Other                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |          | #N/A           | \$0.00            | \$0          |           | \$0          | \$(        |
| Number of years of pump flooding                                         | passive pit flooding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | years          | 0        | Annual p       | umping costs      | \$0          |           |              |            |
| , FF                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | , - 3          |          | Total p        | umping costs      | \$0          |           | \$0          | \$(        |
|                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |          |                | Total             | \$51 017     |           | \$25 098     | \$25 919   |
|                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |          |                | % of Total        |              |           | 49%          | 51%        |

Open Pit 1 of 5

| Open Pit Name:                                                       | Llama                                                                                                                                                                                                                                                                                                                                                                                 |                |          |                | Pit#              | 2            |      |              | 2           |
|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|----------------|-------------------|--------------|------|--------------|-------------|
| ACTIVITY/MATERIAL                                                    | Notes                                                                                                                                                                                                                                                                                                                                                                                 | Units          | Quantity | Cost<br>Code   | Unit Cost         | Cost         |      | Land<br>Cost | Tota<br>Cos |
| CONTROL ACCESS                                                       |                                                                                                                                                                                                                                                                                                                                                                                       |                |          |                |                   |              |      |              |             |
| Fence<br>Signs                                                       | Assumed                                                                                                                                                                                                                                                                                                                                                                               | m<br>each      | 4        | #N/A<br>Sabina | \$0.00<br>\$76.28 | \$0<br>\$305 |      | \$0<br>\$0   | \$<br>\$30  |
| Signs                                                                | Assumed                                                                                                                                                                                                                                                                                                                                                                               | eacii          | 4        | Sabina         | \$10.20           | φουσ         |      | \$0          | \$30        |
| Berm at crest                                                        | Estimated for berm with 1m diameter boulders, no spacing between boulders - 0.52 m3/m; berm needed only where pit edge will not abute the final flooded lake footprint.                                                                                                                                                                                                               | m3             | 327.6    | RR1H           | \$18.05           | \$5 914      | 100% | \$5 914      | \$          |
| Block roads                                                          | Temporary gate installation to allow water monitoring. It includes decommissioning of gate when no longer required. Exposed area after gate has been decommissioned will be blocked with boulders (exposed area along with block of roads with boulders included in berm cost above)                                                                                                  | allow          | 1        | Sabina         | \$5 085.00        | \$5 085      |      | \$0          | \$5 088     |
| Other                                                                |                                                                                                                                                                                                                                                                                                                                                                                       |                |          | #N/A           | \$0.00            | \$0          |      | \$0          | \$          |
| STABILITY STUDY                                                      |                                                                                                                                                                                                                                                                                                                                                                                       |                |          |                | *****             |              |      |              | ·           |
| Conduct stability and setback study                                  |                                                                                                                                                                                                                                                                                                                                                                                       | allow          | 1        | Sabina         | \$17 289.00       | \$17 289     | 100% | \$17 289     | \$          |
| STABILIZE SLOPES                                                     |                                                                                                                                                                                                                                                                                                                                                                                       |                |          |                |                   |              |      |              |             |
| Off-load crest, soil A                                               |                                                                                                                                                                                                                                                                                                                                                                                       | m3             |          | #N/A           | \$0.00            | \$0          |      | \$0          | \$          |
| Off-load crest, soil B                                               |                                                                                                                                                                                                                                                                                                                                                                                       | m3             |          | #N/A           | \$0.00            | \$0          |      | \$0          | \$          |
| Doze/trim overburden at crest Drill & blast pit crest                |                                                                                                                                                                                                                                                                                                                                                                                       | m3<br>m3       |          | #N/A<br>#N/A   | \$0.00<br>\$0.00  | \$0<br>\$0   |      | \$0<br>\$0   | \$          |
| Buttress slope                                                       |                                                                                                                                                                                                                                                                                                                                                                                       | m3             |          | #N/A           | \$0.00            | \$0          |      | \$0          | \$          |
| Other                                                                |                                                                                                                                                                                                                                                                                                                                                                                       |                |          | #N/A           | \$0.00            |              |      | \$0          | \$          |
|                                                                      |                                                                                                                                                                                                                                                                                                                                                                                       |                |          | #IN/A          | \$0.00            | \$0          |      | φu           | ф           |
| COVER/CONTOUR SLOPES                                                 |                                                                                                                                                                                                                                                                                                                                                                                       |                |          | шыл            | ***               |              |      |              |             |
| Place fill, soil A<br>Place fill, soil B                             |                                                                                                                                                                                                                                                                                                                                                                                       | m3<br>m3       |          | #N/A<br>#N/A   | \$0.00<br>\$0.00  | \$0<br>\$0   |      | \$0<br>\$0   | \$          |
| Rip rap                                                              |                                                                                                                                                                                                                                                                                                                                                                                       | m3             |          | #N/A           | \$0.00            | \$0          |      | \$0          | \$          |
| Vegetate slopes                                                      |                                                                                                                                                                                                                                                                                                                                                                                       | ha             |          | #N/A           | \$0.00            | \$0          |      | \$0          | \$          |
| Vegetate pit floor                                                   |                                                                                                                                                                                                                                                                                                                                                                                       | ha             |          | #N/A           | \$0.00            | \$0          |      | \$0          | \$          |
| Other                                                                |                                                                                                                                                                                                                                                                                                                                                                                       |                |          | #N/A           | \$0.00            | \$0          |      | \$0          | \$          |
| CONSTRUCT DIVERSION DITCHES                                          |                                                                                                                                                                                                                                                                                                                                                                                       |                |          |                |                   |              |      |              |             |
| Excavate ditches -soil                                               |                                                                                                                                                                                                                                                                                                                                                                                       | m3             |          | #N/A           | \$0.00            | \$0          |      | \$0          | \$          |
| Excavate ditches -rock Rip rap in channel base                       |                                                                                                                                                                                                                                                                                                                                                                                       | m3<br>m3       |          | #N/A<br>#N/A   | \$0.00<br>\$0.00  | \$0<br>\$0   |      | \$0<br>\$0   | \$          |
| CONSTRUCT SPILLWAY                                                   |                                                                                                                                                                                                                                                                                                                                                                                       | ms             |          | #IN/A          | \$0.00            | \$0          |      | \$0          | ф           |
|                                                                      | Spillway not required; will follow natural drainage to Umwelt                                                                                                                                                                                                                                                                                                                         |                |          | //h1/ A        | 00.00             |              |      |              | •           |
| Excavate channel                                                     | Lake.                                                                                                                                                                                                                                                                                                                                                                                 | m3             |          | #N/A           | \$0.00            | \$0          |      | \$0          | \$1         |
| Concrete                                                             |                                                                                                                                                                                                                                                                                                                                                                                       | m3             |          | #N/A           | \$0.00            | \$0          |      | \$0          | \$1         |
| Rip rap<br>Other                                                     |                                                                                                                                                                                                                                                                                                                                                                                       | m3             |          | #N/A<br>#N/A   | \$0.00<br>\$0.00  | \$0<br>\$0   |      | \$0<br>\$0   | \$1         |
| RECLAIM QUARRIES                                                     |                                                                                                                                                                                                                                                                                                                                                                                       |                |          | #IN/A          | ψ0.00             | ΨΟ           |      | 90           | Ψ           |
|                                                                      |                                                                                                                                                                                                                                                                                                                                                                                       |                |          |                |                   |              |      |              |             |
| Contour slopes                                                       |                                                                                                                                                                                                                                                                                                                                                                                       | m3             |          | #N/A           | \$0.00            | \$0          |      | \$0          | \$1         |
| Place overburden                                                     |                                                                                                                                                                                                                                                                                                                                                                                       | m3             |          | #N/A           | \$0.00            | \$0          |      | \$0          | \$1         |
| Vegetate                                                             |                                                                                                                                                                                                                                                                                                                                                                                       | m3             |          | #N/A           | \$0.00            | \$0          |      | \$0          | \$          |
| FLOOD PIT-Captital                                                   |                                                                                                                                                                                                                                                                                                                                                                                       |                |          |                |                   |              |      |              |             |
| Remove stationary equipment (sump pumps) and Pipeline                | Llama TF will be used to store tailings in Years 5 to 12; it will be passively flooded from Year 5 through Year 11 with site runoff and direct precipitation throughout the end of Operations.  At Closure, pump will be at top of TF and pipeline leads to WTP. Remove pipeline to closure landfill; dispose of fuel in diesel day tank and oil from pump and landfill cleaned pump. | m              | 2 850    | Sabina         | \$10.17           | \$28 985     |      | \$0          | \$28 98     |
|                                                                      |                                                                                                                                                                                                                                                                                                                                                                                       |                |          |                |                   | l .          |      |              |             |
| Remove dewatering pipeline<br>Remove power lines                     |                                                                                                                                                                                                                                                                                                                                                                                       | m<br>each      |          | #N/A<br>#N/A   | \$0.00<br>\$0.00  | \$0<br>\$0   |      | \$0<br>\$0   | \$(<br>\$(  |
| Construct diversion ditches                                          |                                                                                                                                                                                                                                                                                                                                                                                       | m3             |          | #N/A           | \$0.00            | \$0          |      | \$0          | \$          |
| -Ditch, mat'l A                                                      |                                                                                                                                                                                                                                                                                                                                                                                       | m3             |          | #N/A           | \$0.00            | \$0          |      | \$0          | \$          |
| -Ditch, mat'l B                                                      |                                                                                                                                                                                                                                                                                                                                                                                       | m3             |          | #N/A           | \$0.00            | \$0          |      | \$0          | \$          |
| Construct embankment/dam                                             |                                                                                                                                                                                                                                                                                                                                                                                       | m3             |          | #N/A           | \$0.00            | \$0          |      | \$0          | \$          |
| Supply/install pump station                                          |                                                                                                                                                                                                                                                                                                                                                                                       | each           |          | #N/A           | \$0.00            | \$0          |      | \$0          | \$          |
| Supply/install piping system                                         |                                                                                                                                                                                                                                                                                                                                                                                       | m              |          | #N/A           | \$0.00            | \$0<br>\$0   |      | \$0          | \$          |
| Remove pump post-closure Remove pipeline post-closure                |                                                                                                                                                                                                                                                                                                                                                                                       | each<br>m      |          | #N/A<br>#N/A   | \$0.00<br>\$0.00  | \$0<br>\$0   |      | \$0<br>\$0   | \$          |
| FLOOD PIT-Annual Cost                                                |                                                                                                                                                                                                                                                                                                                                                                                       | 111            |          |                | ψυ.υυ             | φυ           |      | φυ           | φ           |
| Operate pumps (power)                                                |                                                                                                                                                                                                                                                                                                                                                                                       | m3             |          | #N/A           | \$0.00            | \$0          |      | \$0          | \$          |
| Maintain pump/pipeline                                               |                                                                                                                                                                                                                                                                                                                                                                                       | allow          |          | #N/A           | \$0.00            | \$0          |      | \$0          | \$          |
| Labour:fuel management, comissioning/dec                             | com                                                                                                                                                                                                                                                                                                                                                                                   | \$/h           |          | #N/A           | \$0.00            | \$0          |      | \$0          | \$          |
| Chemical addition, kg/m3 of water                                    |                                                                                                                                                                                                                                                                                                                                                                                       | tonne          |          | #N/A           | \$0.00            | \$0          |      | \$0          | \$          |
| Chemicals, purchase and shipping                                     |                                                                                                                                                                                                                                                                                                                                                                                       | tonne          |          | #N/A           | \$0.00            | \$0          |      | \$0          | \$          |
| Passive/biological additives Passive additives purchase and shipping |                                                                                                                                                                                                                                                                                                                                                                                       | \$/ha<br>tonne |          | #N/A<br>#N/A   | \$0.00<br>\$0.00  | \$0<br>\$0   |      | \$0<br>\$0   | \$          |
| Other                                                                |                                                                                                                                                                                                                                                                                                                                                                                       | COLLIE         |          | #N/A<br>#N/A   | \$0.00            | \$0<br>\$0   |      | \$0<br>\$0   | э<br>\$     |
|                                                                      |                                                                                                                                                                                                                                                                                                                                                                                       |                |          |                | umping costs      | \$0          |      | ΨΟ           |             |
| Number of years of pump flooding                                     | passive pit flooding                                                                                                                                                                                                                                                                                                                                                                  | years          | 0        |                | . 5               |              |      |              |             |
|                                                                      |                                                                                                                                                                                                                                                                                                                                                                                       |                |          | Total p        | umping costs      | \$0          |      | \$0          | \$0         |
|                                                                      |                                                                                                                                                                                                                                                                                                                                                                                       |                |          |                |                   | \$57 577     | ;    | \$23 203     | \$34 37     |
|                                                                      |                                                                                                                                                                                                                                                                                                                                                                                       |                |          |                | % of Total        |              |      | 40%          | 60%         |

Open Pit 2 of 5

| Open Pit Name:                                          | Echo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |          |                | Pit #                | 3                                       |           |                 | 3           |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------|----------------|----------------------|-----------------------------------------|-----------|-----------------|-------------|
| ACTIVITY/MATERIAL                                       | Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Units       | Quantity | Cost<br>Code   | Unit Cost            |                                         | %<br>Land | Land<br>Cost    | Tota<br>Cos |
| CONTROL ACCESS                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |          |                | ***                  | •                                       |           | •               |             |
| Fence<br>Signs                                          | Assumed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | m<br>each   | 4        | #N/A<br>Sabina | \$0.00<br>\$76.28    | \$0<br>\$305                            |           | \$0<br>\$0      | \$30        |
| ü                                                       | Fig. 1. 16 and the second seco |             |          |                |                      | • • • • • • • • • • • • • • • • • • • • |           |                 |             |
| Berm at crest                                           | Estimated for continous berm with 1m diameter boulders, no spacing between boulders - 0.52 m3/m - assumed 50 % done during Operations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | m3          | 204.75   | RR1H           | \$18.05              | \$3 696                                 | 100%      | \$3 696         | \$1         |
| Block roads                                             | Temporary gate installation to allow water monitoring. It includes decommissioning of gate when no longer required. Exposed area after gate has been decommissioned will be blocked with boulders (exposed area along with block of roads with boulders included in berm cost above)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | allow       | 1        | Sabina         | \$5 085.00           | \$5 085                                 |           | \$0             | \$5 085     |
| Other                                                   | ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$1         |
| STABILITY STUDY                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |          |                |                      |                                         |           |                 |             |
| Conduct stability and setback study                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | allow       | 1        | Sabina         | \$17 289.00          | \$17 289                                | 100%      | \$17 289        | \$1         |
| STABILIZE SLOPES Off-load crest, soil A                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2           |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$          |
| Off-load crest, soil B                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m3<br>m3    |          | #N/A           | \$0.00               | \$0<br>\$0                              |           | \$0<br>\$0      | \$1<br>\$1  |
| Doze/trim overburden at crest                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m3          |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$1         |
| Drill & blast pit crest                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m3          |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$1         |
| Buttress slope                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m3          |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$1         |
| Other                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$1         |
| COVER/CONTOUR SLOPES                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |          |                |                      |                                         |           |                 |             |
| Place fill, soil A                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m3          |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$1         |
| Place fill, soil B                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m3          |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$1         |
| Rip rap                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m3          |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$1         |
| Vegetate slopes<br>Vegetate pit floor                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ha<br>ha    |          | #N/A<br>#N/A   | \$0.00<br>\$0.00     | \$0<br>\$0                              |           | \$0<br>\$0      | \$1<br>\$1  |
| Other                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IIa         |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$(         |
| CONSTRUCT DIVERSION DITCHES                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |          |                |                      |                                         |           |                 |             |
| Excavate ditches -soil                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m3          |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$0         |
| Excavate ditches -rock Rip rap in channel base          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m3<br>m3    |          | #N/A<br>#N/A   | \$0.00<br>\$0.00     | \$0<br>\$0                              |           | \$0<br>\$0      | \$(<br>\$(  |
| CONSTRUCT SPILLWAY                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1110        |          | #IN/A          | φυ.υυ                | ΨŪ                                      |           | ΨΟ              | φι          |
| Excavate channel                                        | Spillway not required; will follow natural drainage to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | m3          |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$0         |
| Concrete                                                | Goose Lake.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | m3          |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$0         |
| Rip rap                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m3          |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$0         |
| Other                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$0         |
| RECLAIM QUARRIES                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |          |                |                      |                                         |           |                 |             |
| Contour slopes                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m3          |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$0         |
| Place overburden                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m3          |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$0         |
| Vegetate                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m3          |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$0         |
| FLOOD PIT-Captital                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |          |                |                      |                                         |           |                 |             |
| Remove stationary equipment (sump pumps) and Pipeline   | Deposit not in current mine plan. No changes to costs to keep the stage intact, except: Allotment added for future potential usage of Echo Pit for permenant stillings storage.  At Closure, pump and pipeline removed to closure landfill; dispose of fuel in diesel day tank and oil from pump and landfill cleaned pump.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | m           | 2820     | Sabina         | \$10.17              | \$28 679                                |           | \$0             | \$28 679    |
| Remove dewatering pipeline                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m           |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$0         |
| Remove power lines                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | each        |          | #N/A           | \$0.00               | \$0<br>\$0                              |           | \$0<br>\$0      | \$(         |
| Construct diversion ditches                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m3          |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$0         |
| -Ditch, mat'l A                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m3          |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$0         |
| -Ditch, mat'l B                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m3          |          | #N/A           | \$0.00               | \$0<br>©0                               |           | \$0<br>\$0      | \$(         |
| Construct embankment/dam<br>Supply/install pump station |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m3<br>each  |          | #N/A<br>#N/A   | \$0.00<br>\$0.00     | \$0<br>\$0                              |           | \$0<br>\$0      | \$0<br>\$0  |
| Supply/install piping system                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | each        |          | #N/A           | \$0.00               | \$0<br>\$0                              |           | \$0<br>\$0      | \$(         |
| Remove pump post-closure                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | each        |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$0         |
| Remove pipeline post-closure                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m           |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$0         |
| FLOOD PIT-Annual Cost                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ^           |          | #N1/A          | <b>#0.00</b>         | **                                      |           | **              |             |
| Operate pumps (power) Maintain pump/pipeline            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m3<br>allow |          | #N/A<br>#N/A   | \$0.00<br>\$0.00     | \$0<br>\$0                              |           | \$0<br>\$0      | \$0<br>\$0  |
| Labour:fuel management, comissioning                    | g/decom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | \$/h        |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$(         |
| Chemical addition, kg/m3 of wa                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | tonne       |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$0         |
| Chemicals, purchase and shipping                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | tonne       |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$0         |
| Passive/biological additives                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \$/ha       |          | #N/A           | \$0.00               | \$0                                     |           | \$0             | \$0         |
| Passive additives purchase and shippin<br>Other         | ng                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | tonne       |          | #N/A<br>#N/A   | \$0.00<br>\$0.00     | \$0<br>\$0                              |           | \$0<br>\$0      | \$0<br>\$0  |
| o and                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |          |                | umping costs         | \$0                                     |           | φυ              | φι          |
| Number of years of pump flooding                        | passive pit flooding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | years       | 0        |                |                      |                                         |           |                 |             |
|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |          | Total p        | umping costs         | \$0<br>\$55 055                         |           | \$0<br>\$20 985 | \$34 070    |
|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |          |                | l otal<br>% of Total | φυυ UD5                                 |           | 38%             | 62%         |
|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |          |                |                      |                                         |           | 5070            | J2 /        |

Open Pit 3 of 5

| Open Pit Name:                                                | Goose Main                                                                                                                                                                         |               |          |                | Pit #                     | 4               |           |                 | 4            |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------------|---------------------------|-----------------|-----------|-----------------|--------------|
| ACTIVITY/MATERIAL                                             | Notes                                                                                                                                                                              | Units         | Quantity | Cost<br>Code   | Unit Cost                 | Cost            | %<br>Land | Land<br>Cost    | Tota         |
| CONTROL ACCESS                                                |                                                                                                                                                                                    |               |          |                |                           |                 |           |                 |              |
| Fence<br>Signs                                                | Assumed                                                                                                                                                                            | m<br>each     | 4        | #N/A<br>Sabina | \$0.00<br>\$76.28         | \$0<br>\$305    |           | \$0<br>\$0      | \$0<br>\$305 |
| Berm at crest                                                 | Estimated for continous berm with 1m diameter boulders, no spacing between boulders - 0.52                                                                                         | m3            | 639.45   | RR1H           | \$18.05                   | \$11 543        | 100%      | \$11 543        | \$0          |
|                                                               | m3/m - assumed 50 % done during Operations  Temporary gate installation to allow water monitoring. It includes decommissioning of gate when no longer required. Exposed area after |               |          |                |                           |                 |           |                 |              |
| Block roads                                                   | gate has been decommissioned will be blocked<br>with boulders (exposed area along with block of<br>roads with boulders included in berm cost<br>above)                             | allow         | 1        | Sabina         | \$5 085.00                | \$5 085         |           | \$0             | \$5 085      |
| Other                                                         |                                                                                                                                                                                    |               |          | #N/A           | \$0.00                    | \$0             |           | \$0             | \$0          |
| STABILITY STUDY                                               |                                                                                                                                                                                    |               |          | 0.11           | A47.000.00                | 047.000         | 4000/     | 047.000         |              |
| Conduct stability and setback study<br>STABILIZE SLOPES       |                                                                                                                                                                                    | allow         | 1        | Sabina         | \$17 289.00               | \$17 289        | 100%      | \$17 289        | \$0          |
| Off-load crest, soil A                                        |                                                                                                                                                                                    | m3            |          | #N/A           | \$0.00                    | \$0             |           | \$0             | \$0          |
| Off-load crest, soil B                                        |                                                                                                                                                                                    | m3            |          | #N/A           | \$0.00                    | \$0             |           | \$0             | \$0          |
| Doze/trim overburden at crest                                 |                                                                                                                                                                                    | m3            |          | #N/A           | \$0.00                    | \$0             |           | \$0             | \$0          |
| Drill & blast pit crest                                       |                                                                                                                                                                                    | m3            |          | #N/A           | \$0.00                    | \$0             |           | \$0             | \$0          |
| Buttress slope                                                |                                                                                                                                                                                    | m3            |          | #N/A           | \$0.00                    | \$0             |           | \$0             | \$0          |
| Other                                                         |                                                                                                                                                                                    |               |          | #N/A           | \$0.00                    | \$0             |           | \$0             | \$0          |
| COVER/CONTOUR SLOPES                                          |                                                                                                                                                                                    |               |          | //51/4         | <b>#0.00</b>              |                 |           | 40              | 0.0          |
| Place fill, soil A<br>Place fill, soil B                      |                                                                                                                                                                                    | m3<br>m3      |          | #N/A<br>#N/A   | \$0.00<br>\$0.00          | \$0<br>\$0      |           | \$0<br>\$0      | \$0<br>\$0   |
| Rip rap                                                       |                                                                                                                                                                                    | m3            |          | #N/A           | \$0.00                    | \$0             |           | \$0             | \$(          |
| Vegetate slopes                                               |                                                                                                                                                                                    | ha            |          | #N/A           | \$0.00                    | \$0             |           | \$0             | \$0          |
| Vegetate pit floor                                            |                                                                                                                                                                                    | ha            |          | #N/A           | \$0.00                    | \$0             |           | \$0             | \$0          |
| Other                                                         |                                                                                                                                                                                    |               |          | #N/A           | \$0.00                    | \$0             |           | \$0             | \$0          |
| CONSTRUCT DIVERSION DITCHES                                   |                                                                                                                                                                                    |               |          |                |                           |                 |           |                 |              |
| Excavate ditches -soil                                        |                                                                                                                                                                                    | m3            |          | #N/A           | \$0.00                    | \$0             |           | \$0             | \$0          |
| Excavate ditches -rock Rip rap in channel base                |                                                                                                                                                                                    | m3<br>m3      |          | #N/A<br>#N/A   | \$0.00<br>\$0.00          | \$0<br>\$0      |           | \$0<br>\$0      | \$0<br>\$0   |
| CONSTRUCT SPILLWAY                                            |                                                                                                                                                                                    | 1110          |          | min            | ψ0.00                     | ψŪ              |           | ΨΟ              | Ų.           |
| Excavate channel                                              | 100 m long, 6 m wide and 1 m deep                                                                                                                                                  | m3            | 600      | SB1L           | \$4.37                    | \$2 624         |           | \$0             | \$2 624      |
| Concrete                                                      |                                                                                                                                                                                    | m3            |          | #N/A           | \$0.00                    | \$0             |           | \$0             | \$0          |
| Rip rap                                                       |                                                                                                                                                                                    | m3            | 200      | RR1H           | \$18.05                   | \$3 610         |           | \$0             | \$3 610      |
| Other<br>RECLAIM QUARRIES                                     | Geotextile                                                                                                                                                                         | m2            | 1 152    | GSTL           | \$3.50                    | \$4 030         |           | \$0             | \$4 030      |
|                                                               |                                                                                                                                                                                    |               |          |                | ***                       |                 |           |                 |              |
| Contour slopes                                                |                                                                                                                                                                                    | m3            |          | #N/A           | \$0.00                    | \$0             |           | \$0             | \$0          |
| Place overburden<br>Vegetate                                  |                                                                                                                                                                                    | m3<br>m3      |          | #N/A<br>#N/A   | \$0.00<br>\$0.00          | \$0<br>\$0      |           | \$0<br>\$0      | \$0<br>\$0   |
| FLOOD PIT-Captital                                            |                                                                                                                                                                                    | 1110          |          | minor          | ψ0.00                     | Ų.              |           | ΨΟ              | ΨΟ           |
| Remove stationary equipment                                   | At closure, pump will be at top of Goose<br>Reservoir. Remove pipeline to closure landfill;                                                                                        |               |          |                |                           |                 |           |                 |              |
| (sump pumps) and Pipeline                                     | dispose of fuel in diesel day tank and oil from pump and landfill cleaned pump.                                                                                                    | m             | 4 325    | Sabina         | \$10.17                   | \$43 985        |           | \$0             | \$43 985     |
| Remove dewatering pipeline                                    |                                                                                                                                                                                    | m             |          | #N/A           | \$0.00                    | \$0             |           | \$0             | \$0          |
| Remove power lines                                            |                                                                                                                                                                                    | each          |          | #N/A           | \$0.00                    | \$0             |           | \$0             | \$0          |
| Construct diversion ditches                                   |                                                                                                                                                                                    | m3            |          | #N/A           | \$0.00                    | \$0             |           | \$0             | \$0          |
| -Ditch, mat'l A                                               |                                                                                                                                                                                    | m3            |          | #N/A<br>#N/A   | \$0.00                    | \$0             |           | \$0<br>\$0      | \$0          |
| -Ditch, mat'l B<br>Construct embankment/dam                   |                                                                                                                                                                                    | m3<br>m3      |          | #N/A<br>#N/A   | \$0.00<br>\$0.00          | \$0<br>\$0      |           | \$0<br>\$0      | \$0<br>\$0   |
| Supply/install pump station                                   |                                                                                                                                                                                    | each          |          | #N/A           | \$0.00                    | \$0             |           | \$0             | \$0          |
| Supply/install piping system                                  |                                                                                                                                                                                    | m             |          | #N/A           | \$0.00                    | \$0             |           | \$0             | \$0          |
| Remove pump post-closure                                      |                                                                                                                                                                                    | each          |          | #N/A           | \$0.00                    | \$0             |           | \$0             | \$0          |
| Remove pipeline post-closure                                  |                                                                                                                                                                                    | m             |          | #N/A           | \$0.00                    | \$0             |           | \$0             | \$0          |
| FLOOD PIT-Annual Cost                                         |                                                                                                                                                                                    |               |          |                |                           |                 |           |                 |              |
| Operate pumps (power)                                         |                                                                                                                                                                                    | m3            |          | #N/A           | \$0.00                    | \$0             |           | \$0             | \$0          |
| Maintain pump/pipeline<br>Labour:fuel management, comissionin | a/decom                                                                                                                                                                            | allow<br>\$/h |          | #N/A<br>#N/A   | \$0.00<br>\$0.00          | \$0<br>\$0      |           | \$0<br>\$0      | \$0<br>\$0   |
| Chemical addition, kg/m3 of w                                 | •                                                                                                                                                                                  | tonne         |          | #N/A           | \$0.00                    | \$0             |           | \$0             | \$0          |
| Chemicals, purchase and shipping                              |                                                                                                                                                                                    | tonne         |          | #N/A           | \$0.00                    | \$0             |           | \$0             | \$0          |
| Passive/biological additives                                  |                                                                                                                                                                                    | \$/ha         |          | #N/A           | \$0.00                    | \$0             |           | \$0             | \$0          |
| Passive additives purchase and shippi                         | ing                                                                                                                                                                                | tonne         |          | #N/A           | \$0.00                    | \$0             |           | \$0             | \$0          |
| Other                                                         |                                                                                                                                                                                    |               |          | #N/A<br>Annua  | \$0.00<br>I pumping costs | \$0<br>\$0      |           | \$0             | \$0          |
| Number of years of pump flooding                              | passive pit flooding                                                                                                                                                               | years         | 0        |                |                           |                 |           | _               |              |
|                                                               |                                                                                                                                                                                    |               |          | Tota           | pumping costs<br>Total    | \$0<br>\$88 472 |           | \$0<br>\$28 832 | \$59 640     |
|                                                               |                                                                                                                                                                                    |               |          |                | % of Total                |                 |           | 33%             | 67%          |

Open Pit 4 of 5

| Quarry Name                                                                                                                                                                                                                                                                                                                                                                                                                                                               | : Airstrip Quarr                                                               | у                                                                 |          |                                                              | Quarry #                                                                                                                                           | 1                                                                                             |                                                                                               | 1         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------|----------|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------|
| ACTIVITY/MATERIAL                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Notes                                                                          | Units                                                             | Quantity | Cost<br>Code                                                 | Unit Cost                                                                                                                                          | Cost <sup>%</sup><br>Land                                                                     | Land<br>Cost                                                                                  | Tot<br>Co |
| CONTROL ACCESS                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                |                                                                   |          |                                                              | ***                                                                                                                                                | **                                                                                            |                                                                                               |           |
| Fence<br>Signs                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                | m<br>each                                                         |          | #N/A<br>#N/A                                                 | \$0.00<br>\$0.00                                                                                                                                   | \$0<br>\$0                                                                                    | \$0<br>\$0                                                                                    | 9         |
| Berm at crest                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                | m3                                                                |          | RB1H                                                         | \$17.34                                                                                                                                            | \$0                                                                                           | \$0                                                                                           | 9         |
| berm at crest                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                | ms                                                                |          | KBIH                                                         | \$17.34                                                                                                                                            | \$0                                                                                           | \$0                                                                                           | 3         |
| Block roads                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                | allow                                                             |          | #N/A                                                         | \$0.00                                                                                                                                             | \$0                                                                                           | \$0                                                                                           | 9         |
| Other                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                |                                                                   |          | #N/A                                                         | \$0.00                                                                                                                                             | \$0                                                                                           | \$0                                                                                           | 5         |
| STABILITY STUDY                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                |                                                                   |          |                                                              |                                                                                                                                                    |                                                                                               |                                                                                               |           |
| Conduct stability and setback study<br>STABILIZE SLOPES                                                                                                                                                                                                                                                                                                                                                                                                                   | Not required for quarry                                                        | allow                                                             |          | #N/A                                                         | \$0.00                                                                                                                                             | \$0                                                                                           | \$0                                                                                           |           |
| Off-load crest, soil A                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                | m3                                                                |          | #N/A                                                         | \$0.00                                                                                                                                             | \$0                                                                                           | \$0                                                                                           |           |
| Off-load crest, soil B                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                | m3                                                                |          | #N/A                                                         | \$0.00                                                                                                                                             | \$0                                                                                           | \$0                                                                                           |           |
| Doze/trim overburden at crest                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                | m3                                                                |          | #N/A                                                         | \$0.00                                                                                                                                             | \$0                                                                                           | \$0                                                                                           |           |
| Drill & blast pit crest                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                | m3                                                                |          | #N/A                                                         | \$0.00                                                                                                                                             | \$0                                                                                           | \$0                                                                                           |           |
| Buttress slope                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                | m3                                                                |          | #N/A                                                         | \$0.00                                                                                                                                             | \$0                                                                                           | \$0                                                                                           |           |
| Other                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Backhoe to pull down loose rock on bedrock<br>backslope - assumed              | hrs                                                               | 20 €     | xc-sL                                                        | \$193.23                                                                                                                                           | \$3 865 100%                                                                                  | 6 \$3 865                                                                                     |           |
| COVER/CONTOUR SLOPES                                                                                                                                                                                                                                                                                                                                                                                                                                                      | · ·                                                                            |                                                                   |          |                                                              |                                                                                                                                                    |                                                                                               |                                                                                               |           |
| Place fill, soil A                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                | m3                                                                |          | #N/A                                                         | \$0.00                                                                                                                                             | \$0                                                                                           | \$0                                                                                           |           |
| Place fill, soil B                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                | m3                                                                |          | #N/A                                                         | \$0.00                                                                                                                                             | \$0                                                                                           | \$0                                                                                           |           |
| Rip rap                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                | m3                                                                |          | #N/A                                                         | \$0.00                                                                                                                                             | \$0                                                                                           | \$0                                                                                           |           |
| Vegetate slopes                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Allow to revegetate naturally                                                  | ha                                                                |          | #N/A                                                         | \$0.00                                                                                                                                             | \$0                                                                                           | \$0                                                                                           |           |
| Vegetate pit floor                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Allow to revegetate naturally                                                  | ha                                                                |          | #N/A                                                         | \$0.00                                                                                                                                             | \$0                                                                                           | \$0                                                                                           |           |
| Other CONSTRUCT DIVERSION DITCHES                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                |                                                                   |          | #N/A                                                         | \$0.00                                                                                                                                             | \$0                                                                                           | \$0                                                                                           |           |
| Excavate ditches -soil                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                | m3                                                                |          | #N/A                                                         | \$0.00                                                                                                                                             | \$0                                                                                           | \$0                                                                                           |           |
| Excavate ditches -rock                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                | m3                                                                |          | #N/A                                                         | \$0.00                                                                                                                                             | \$0                                                                                           | \$0                                                                                           |           |
| Rip rap in channel base                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                | m3                                                                |          | #N/A                                                         | \$0.00                                                                                                                                             | \$0                                                                                           | \$0                                                                                           |           |
| CONSTRUCT SPILLWAY                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Not required. Quarry base will be graded for                                   |                                                                   |          |                                                              |                                                                                                                                                    |                                                                                               |                                                                                               |           |
| Excavate channel                                                                                                                                                                                                                                                                                                                                                                                                                                                          | sheet drainage.                                                                | m3                                                                |          | SB1L                                                         | \$4.37                                                                                                                                             | \$0                                                                                           | \$0                                                                                           |           |
| Concrete                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                | m3                                                                |          | #N/A                                                         | \$0.00                                                                                                                                             | \$0                                                                                           | \$0                                                                                           |           |
| Rip rap                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                | m3                                                                |          | RR1L                                                         | \$13.73                                                                                                                                            | \$0                                                                                           | \$0                                                                                           |           |
| Other DECLARACIA PRISO                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                | m2                                                                |          | GSTL                                                         | \$3.50                                                                                                                                             | \$0                                                                                           | \$0                                                                                           |           |
| RECLAIM QUARRIES                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Quarry will not be flooded - development will                                  |                                                                   |          |                                                              |                                                                                                                                                    |                                                                                               |                                                                                               |           |
| Contour slopes                                                                                                                                                                                                                                                                                                                                                                                                                                                            | occur below water level and the areas will be<br>contoured to drain positively | m3                                                                |          | #N/A                                                         | \$0.00                                                                                                                                             | \$0                                                                                           | \$0                                                                                           |           |
| Place overburden                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                | m3                                                                |          | #N/A                                                         | \$0.00                                                                                                                                             | \$0                                                                                           | \$0                                                                                           |           |
| Vegetate<br>FLOOD PIT-Capital                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                | m3                                                                |          | #N/A                                                         | \$0.00                                                                                                                                             | \$0                                                                                           | \$0                                                                                           |           |
| Remove stationary equipment<br>(sump pumps) and Pipeline                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                | m                                                                 |          | #N/A                                                         | \$0.00                                                                                                                                             | \$0                                                                                           | \$0                                                                                           |           |
| Remove dewatering pipeline                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                |                                                                   |          | #N/A                                                         | \$0.00                                                                                                                                             | \$0                                                                                           | \$0                                                                                           |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                | m                                                                 |          |                                                              |                                                                                                                                                    | \$0                                                                                           | \$0                                                                                           |           |
| Remove power lines                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                | m<br>each                                                         |          | #N/A                                                         | \$0.00                                                                                                                                             | φU                                                                                            | ΨΟ                                                                                            |           |
| · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                |                                                                   |          | #N/A<br>#N/A                                                 | \$0.00<br>\$0.00                                                                                                                                   | \$0<br>\$0                                                                                    | \$0                                                                                           |           |
| · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                | each                                                              |          |                                                              |                                                                                                                                                    |                                                                                               |                                                                                               |           |
| Construct diversion ditches                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                | each<br>m3                                                        |          | #N/A                                                         | \$0.00                                                                                                                                             | \$0                                                                                           | \$0                                                                                           |           |
| Construct diversion ditches -Ditch, mat'l A -Ditch, mat'l B                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                | each<br>m3<br>m3                                                  |          | #N/A<br>#N/A                                                 | \$0.00<br>\$0.00                                                                                                                                   | \$0<br>\$0                                                                                    | \$0<br>\$0                                                                                    |           |
| Construct diversion ditches -Ditch, mat'l A -Ditch, mat'l B Construct embankment/dam                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                | each<br>m3<br>m3<br>m3                                            |          | #N/A<br>#N/A<br>#N/A                                         | \$0.00<br>\$0.00<br>\$0.00                                                                                                                         | \$0<br>\$0<br>\$0                                                                             | \$0<br>\$0<br>\$0                                                                             |           |
| Construct diversion ditches -Ditch, mat'l A -Ditch, mat'l B Construct embankment/dam Supply/install pump station                                                                                                                                                                                                                                                                                                                                                          |                                                                                | each<br>m3<br>m3<br>m3<br>m3                                      |          | #N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A                         | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00                                                                                                               | \$0<br>\$0<br>\$0<br>\$0                                                                      | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0                                                        |           |
| Construct diversion ditches  -Ditch, mat'l A  -Ditch, mat'l B  Construct embankment/dam  Supply/install pump station  Supply/install piping system  Remove pump post-closure                                                                                                                                                                                                                                                                                              |                                                                                | each<br>m3<br>m3<br>m3<br>m3<br>each                              |          | #N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A                 | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00                                                                                 | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0                                                 | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0                                                 |           |
| Construct diversion ditches  -Ditch, mat'l A  -Ditch, mat'l B  Construct embankment/dam  Supply/install pump station  Supply/install piping system  Remove pump post-closure  Remove pipelline post-closure                                                                                                                                                                                                                                                               |                                                                                | each<br>m3<br>m3<br>m3<br>m3<br>each<br>m                         |          | #N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A                         | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00                                                                                           | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0                                                        | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0                                                        |           |
| Construct diversion ditches  -Ditch, mat'l A  -Ditch, mat'l B  Construct embankment/dam  Supply/install pump station  Supply/install piping system  Remove pump post-closure  Remove pipeline post-closure  FLOOD PIT-Annual Cost                                                                                                                                                                                                                                         |                                                                                | each<br>m3<br>m3<br>m3<br>m3<br>each<br>m<br>each                 |          | #N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A         | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00                                                                       | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0                                          | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0                                          |           |
| Construct diversion ditches  -Ditch, mat'l A  -Ditch, mat'l B  Construct embankment/dam  Supply/install pump station  Supply/install piping system  Remove pump post-dosure  Remove pipeline post-closure  FLOOD PIT-Annual Cost  Operate pumps (power)                                                                                                                                                                                                                   |                                                                                | each m3 m3 m3 m3 each m each m each m                             |          | #N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A         | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00                                                                       | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0                                   | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0                                   |           |
| Construct diversion ditches  -Ditch, mat'l A  -Ditch, mat'l B  Construct embankment/dam  Supply/install pump station  Supply/install piping system  Remove pump post-closure  Remove pipeline post-closure  FLOOD PIT-Annual Cost  Operate pumps (power)  Maintain pump/pipeline                                                                                                                                                                                          | com                                                                            | each m3 m3 m3 m3 each m each m and allow                          |          | #N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00                                                                       | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0                            |           |
| Construct diversion ditches  -Ditch, mat'l A  -Ditch, mat'l B  Construct embankment/dam  Supply/install pump station  Supply/install piping system  Remove pump post-closure  Remove pipeline post-closure  -LOOD PIT-Annual Cost  Deparate pumps (power)  Maintain pump/pipeline  abour:fuel management, comissioning/de                                                                                                                                                 | com                                                                            | each m3 m3 m3 m3 each m each m allow \$/h                         |          | #N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00                                                             | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ |           |
| Construct diversion ditches  -Ditch, mat'l A  -Ditch, mat'l B  Construct embankment/dam  Supply/install pump station  Supply/install piping system  Remove pipeline post-closure  Remove pipeline post-closure  FLOOD PIT-Annual Cost  Dperate pumps (power)  Maintain pump/pipeline  _abour.fuel management, comissioning/de  Chemical addition, kg/m3 of water                                                                                                          | com                                                                            | each m3 m3 m3 m3 each m each m allow \$/h tonne                   |          | #N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00                                         | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ |           |
| Construct diversion ditches  Ditch, mat'l A  Ditch, mat'l B  Construct embankment/dam  Supply/install pump station  Supply/install piping system  Remove pump post-closure  Remove pipelline post-closure  FLOOD PIT-Annual Cost  Operate pumps (power)  Maintain pump/pipeline  Labour-fuel management, comissioning/de  Chemical addition, kg/m³ of water  Chemicals, purchase and shipping                                                                             | com                                                                            | each m3 m3 m3 m3 each m each m allow \$/h tonne tonne             |          | #N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00                               | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ |           |
| Construct diversion ditches  -Ditch, mat'l A  -Ditch, mat'l B  Construct embankment/dam  Supply/install pump station  Supply/install piping system  Remove pump post-closure  Remove pipeline post-closure  FLOOD PIT-Annual Cost  Deprate pumps (power)  Maintain pump/pipeline  _abour.fuel management, comissioning/de  Chemical addition, kg/m3 of water  Chemicals, purchase and shipping  Passive/biological additives                                              | com                                                                            | each m3 m3 m3 m3 each m each m each shows shows shows tonne shows |          | #N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00                     | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ |           |
| Construct diversion ditches  -Ditch, mat'l A  -Ditch, mat'l B  Construct embankment/dam  Supply/install pump station  Supply/install piping system  Remove pipeline post-closure  Remove pipeline post-closure  FLOOD PIT-Annual Cost  Operate pumps (power)  Maintaln pump/pipeline  Labour.fuel management, comissioning/de  Chemical addition, kg/m3 of water  Chemicals, purchase and shipping  Passive/biological additives  Passive additives purchase and shipping | com                                                                            | each m3 m3 m3 m3 each m each m allow \$/h tonne tonne             |          | #N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00                               | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ |           |
| -Ditch, mat'l B Construct embankment/dam Supply/install pump station Supply/install piping system Remove pump post-closure Remove pipeline post-closure FLOOD PIT-Annual Cost Operate pumps (power) Maintain pump/pipeline Labour.fuel management, comissioning/de Chemical addition, kg/m3 of water Chemicals, purchase and shipping Passive/biological additives Passive additives purchase and shipping Other                                                          |                                                                                | each m3 m3 m3 m3 each m each m each show show show tonne tonne    |          | #N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00 | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ |           |
| Construct diversion ditches -Ditch, mat'l A -Ditch, mat'l B Construct embankment/dam Supply/install pump station Supply/install piping system Remove pump post-closure Remove pipeline post-closure FLOOD PIT-Annual Cost Operate pumps (power) Maintain pump/pipeline Labour.fuel management, comissioning/de Chemical addition, kg/m3 of water Chemicals, purchase and shipping Passive/biological additives Passive additives purchase and shipping                    | com<br>No flooding                                                             | each m3 m3 m3 m3 each m each m each shows shows shows tonne shows | 0        | #N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00           | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ |           |
| Construct diversion ditches  -Ditch, mat'l A  -Ditch, mat'l B  Construct embankment/dam  Supply/install pping system  Remove pump post-closure  Remove pipeline post-closure  FLOOD PIT-Annual Cost  Deprate pumps (power)  Maintain pump/pipeline  Labour/fuel management, comissioning/de  Chemical addition, kg/m3 of water  Chemicals, purchase and shipping  Passive/biological additives  Passive additives purchase and shipping                                   |                                                                                | each m3 m3 m3 m3 each m each m each show show show tonne tonne    |          | #N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A<br>#N/A | \$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00<br>\$0.00           | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ | \$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$0<br>\$ |           |

Open Pit 5 of 5

#### Underground Mine Name Umwelt

UG Mine # 1

| Part                                                                                                                                                                                       | ACTIVITY/MATERIAL                          | Notes                                                                                                                                       | Unit    | Qty       | Cost<br>Code | Unit Cost  | Cost      | %<br>Land | Land Cost     | Total Cost |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------|--------------|------------|-----------|-----------|---------------|------------|
| Signe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CONTROL ACCESS                             |                                                                                                                                             |         |           |              |            |           |           |               |            |
| Bock radia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Fence                                      |                                                                                                                                             | m       |           | #N/A         | \$0.00     | \$0       |           | \$0           | \$0        |
| Bern                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Signs                                      |                                                                                                                                             | each    |           | #N/A         | \$0.00     | \$0       |           | \$0           | \$0        |
| Berm   Berm   All least 5 m deep into 5x4.5m portal and slope at 1 (PAC) waster rock plug)   Beaketill Portal   Mark Stand p                                                                                                                                                                                    | •                                          |                                                                                                                                             | m3      |           | #N/A         | \$0.00     | \$0       |           | \$0           | \$0        |
| NPAG waste rock plug)   least 2:1 outside of portal   m3   m3   m3   m4   m3   m3   m4   m3   m3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Berm                                       |                                                                                                                                             |         |           | #N/A         |            | \$0       |           | \$0           |            |
| MPAG yaste rock plug)   least 21 outside of portal   least 21 outside 21 outsid                                                                                                                                                                                    | Backfill Portal                            | At least 5 m deep into 5x4.5m portal and slope at                                                                                           | 0       | 450       | DODI         | 040.40     | 00.000    | 4000/     | <b>#0.000</b> |            |
| Cap raise # 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (NPAG waste rock plug)                     | least 2:1 outside of portal                                                                                                                 | m3      | 150       | PORL         | \$19.12    | \$2 868   | 100%      | \$2 868       | \$0        |
| Cap raise #2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Backfill portal #2                         |                                                                                                                                             | m3      |           | #N/A         | \$0.00     | \$0       |           | \$0           |            |
| Cap shaft #1         Concrete plug over 4m-dia. fesh air vent         m2         28 SRH         \$2 188.24         \$81 81         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00         \$9.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |                                                                                                                                             |         |           |              |            |           |           |               |            |
| Cap shaft #2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                            |                                                                                                                                             |         |           |              |            |           |           |               |            |
| Backfill goen stope                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | •                                          | Concrete plug over 4m-dia. fresh air vent                                                                                                   |         | 28        |              |            |           | 100%      |               |            |
| Backfill open stope                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | •                                          |                                                                                                                                             |         |           |              |            |           |           |               |            |
| Concrete cap over open stope   98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                            |                                                                                                                                             |         |           |              |            |           |           |               |            |
| Chem                                                                                                                                                                                       | · · · · · · · · · · · · · · · · · · ·      |                                                                                                                                             |         |           |              |            |           |           |               |            |
| REMOVE HAZARDOUS MATERIALS   Three shifts with loader, incl. operator and fuel manhour mandays   10   10   10   10   10   10   10   1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |                                                                                                                                             | 1110    |           |              |            |           |           |               |            |
| Remove/decontam. stationary & elect. equip   Remove/decontam. mobile equipment   Bemove/decontam. mobile equipment   Bemove/decontam. mobile equipment   Bemove misc. haz. mat & explosives   Dispose of up to 1 week's inventory of explosives   Kg   100   Sabina   \$50.08   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50.085   \$50 | REMOVE HAZARDOUS MATERIALS                 |                                                                                                                                             |         |           |              | ,          | •         |           |               |            |
| Remove/decontam. mobile quipment   Remove misc. haz. mat & explosives   Dispose of up to 1 week's inventory of explosives   UG is passively flooded with saline water (previously- Clean Unwelt UG to SWP pipeline, decommission Pipeline   Provided with saline water (previously- Clean Unwelt UG to SWP pipeline, decommission and landfill)   Provided with saline water (previously- Clean Unwelt UG to SWP pipeline, decommission and landfill)   Provided with saline water (previously- Clean Unwelt UG to SWP pipeline, decommission and landfill)   Provided with saline water   Provided water flow                                                                                                                                                                                      | Remove hazardous materials, U/G labor      | Three shifts with loader, incl. operator and fuel                                                                                           | manhour | 30        | load-s       | \$177.98   |           |           |               |            |
| Remove misc. haz. mat & explosives   Dispose of up to 1 week's inventory of explosives   UG is passively flooded with saline water (previously - Clean Umwelt UG to SWP pipeline, decommission Pipeline)   To pipeline (previously - Clean Umwelt UG to SWP pipeline, decommission and landfill)   To pipeline (previously - Clean Umwelt UG to SWP pipeline, decommission and landfill)   To pipeline (previously - Clean Umwelt UG to SWP pipeline)   To pipeline (previously - Clean Umwelt UG to SWP pipeline)   To pipeline and cattly flooded in Year 10 and active flooding will take about a year, relocation of pipelines and flooding will occur as part of operations but cost is provided as a conservative approach   To pipeline and flooding will occur as part of operations but cost is provided as a conservative approach   To pipeline and flooding will occur as part of operations but cost is provided as a conservative approach   To pipeline and flooding will occur as part of operations but cost is provided as a conservative approach   To pipeline and flooding will occur as part of operations but cost is provided as a conservative approach   To pipeline and flooding will occur as part of operations but cost is provided as a conservative approach   To pipeline and flooding will occur as part of operations but cost is provided as a conservative approach   To pipeline and flooding will occur as part of operations but cost is provided as a conservative approach   To pipeline and flooding will occur as part of operations but cost is provided as a conservative approach   To pipeline and flooding will occur as part of operations but cost is provided as a conservative approach   To pipeline and flooding will occur as part of operations but cost is provided as a conservative approach   To pipeline and flooding will occur as part of operations but cost is provided as a conservative approach   To pipeline and flooding will occur as part of operations but cost is provided as a conservative approach   To pipeline and flooding will occur as pa                                                                                                                                                                                    | Remove/decontam. stationary & elect. equip | )                                                                                                                                           | mandays |           | #N/A         | \$0.00     | \$0       |           | \$0           | \$0        |
| Decommission Pipeline   UG is passively flooded with saline water (previously - Clean Umwelt UG to SWP pipeline, previously - Clean Umwelt UG to SWP pipeline, decommission and landfill)   Status   St                                                                                                                                                                                    | Remove/decontam. mobile equipment          |                                                                                                                                             | each    |           | #N/A         |            |           |           |               |            |
| Sabina   S                                                                                                                                                                                    | Remove misc. haz. mat & explosives         |                                                                                                                                             | kg      | 100       | Sabina       | \$50.85    | \$5 085   |           | \$0           | \$5 085    |
| NSTALL BULKHEADS   Bulkheads to control water flow   each   #N/A   \$0.00   \$0   \$0   \$0   \$0   \$0   \$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Decommission Pipeline                      | (previously - Clean Umwelt UG to SWP pipeline,                                                                                              | m       | 1 662     | Sabina       | \$10.17    | \$16 903  |           | \$0           | \$16 903   |
| Bulkheads to control water flow   Grout bulkhead   Substitution                                                                                                                                                                                     | INSTALL BUILKHEADS                         | decommission and landilli)                                                                                                                  |         |           |              |            |           |           |               |            |
| Companies   Comp                                                                                                                                                                                    |                                            |                                                                                                                                             | ooch    |           | #NI/A        | 00.02      | ¢0        |           | 40            | \$0        |
| Supply/install pump                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                            |                                                                                                                                             |         |           |              |            |           |           |               |            |
| Supply/install pump                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                            |                                                                                                                                             | IIIJ    |           | #11//        | φυ.υυ      | φυ        |           | φυ            | φυ         |
| December                                                                                                                                                                                     |                                            | and active flooding will take about a year, relocation of pipelines and flooding will occur as part of operations but cost is provided as a | each    |           | #N/A         | \$0.00     | \$0       |           | \$0           | \$0        |
| Decommission of pipeline                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Relocate Pipeline                          |                                                                                                                                             | m       | 800       | Sabina       | \$10.17    | \$8 136   |           | \$0           | \$8 136    |
| Decommission of pipeline                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Operate pumps to flood workings            | UG is passively flooded with saline water                                                                                                   | m3      | 1 071 225 | Sabina       | \$0.14     | \$145 514 |           | \$0           | \$145 514  |
| NSTALL GROUNDWATER COLLECTION SYSTEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                            |                                                                                                                                             |         |           | #N/A         |            | \$0       |           |               | \$0        |
| Excavate/install sumps   m2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Other                                      |                                                                                                                                             |         |           | #N/A         | \$0.00     | \$0       |           | \$0           | \$0        |
| Install pumping wells         m3         #N/A         \$0.00         \$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         \$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         \$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 <th< td=""><td>INSTALL GROUNDWATER COLLECTION S</td><td>SYSTEM</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | INSTALL GROUNDWATER COLLECTION S           | SYSTEM                                                                                                                                      |         |           |              |            |           |           |               |            |
| Install pumps/pipelines/power supply         LS         #N/A         \$0.00         \$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         \$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         \$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 </td <td>Excavate/install sumps</td> <td></td> <td>m2</td> <td></td> <td>#N/A</td> <td>\$0.00</td> <td>\$0</td> <td></td> <td>\$0</td> <td>\$0</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Excavate/install sumps                     |                                                                                                                                             | m2      |           | #N/A         | \$0.00     | \$0       |           | \$0           | \$0        |
| Install pumps/pipelines/power supply         LS         #N/A         \$0.00         \$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         \$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         \$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 </td <td>Install pumping wells</td> <td></td> <td>m3</td> <td></td> <td>#N/A</td> <td>\$0.00</td> <td>\$0</td> <td></td> <td>\$0</td> <td>\$0</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Install pumping wells                      |                                                                                                                                             | m3      |           | #N/A         | \$0.00     | \$0       |           | \$0           | \$0        |
| SPECIALIZED ITEMS           Install water quality monitoring pipes         each         #N/A         \$0.00         \$0         \$0         \$0           Install permanent pumping system         each         #N/A         \$0.00         \$0         \$0         \$0         \$0           Assess underground stability         Rock mechanics inspection before closure         each         1         Sabina         \$10 170.00         \$10 170         100         \$10 170         \$0           Total         \$378 099         \$197 122         \$180 977                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |                                                                                                                                             | LS      |           | #N/A         | \$0.00     | \$0       |           | \$0           |            |
| Install water quality monitoring pipes         each         #N/A         \$0.00         \$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         \$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         \$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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                            |                                                                                                                                             |         |           |              |            |           |           |               |            |
| Install permanent pumping system         each         #N/A         \$0.00         \$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         \$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         \$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 <td></td> <td></td> <td>each</td> <td></td> <td>#N/A</td> <td>\$0.00</td> <td>\$0</td> <td></td> <td>\$0</td> <td>\$0</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                            |                                                                                                                                             | each    |           | #N/A         | \$0.00     | \$0       |           | \$0           | \$0        |
| Assess underground stability Rock mechanics inspection before closure each 1 Sabina \$10 170.00 \$10 170 100 \$10 170 \$0 \$0 \$10 170 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                            |                                                                                                                                             |         |           |              |            |           |           |               |            |
| Total \$378 099 \$197 122 \$180 977                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                            | Rock mechanics inspection before closure                                                                                                    |         | 1         |              |            |           | 100%      |               |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                            | , , , , , , , , , , , , , , , , , , , ,                                                                                                     |         |           |              |            |           |           |               |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                            |                                                                                                                                             |         |           |              | % of Total | ,         |           | 52%           | 48%        |

UG Mine 1 of 4

#### Underground Mine Name Llama

IIG Mine # 2

| Underground Mine Name                                  | e Llama                                                                                                                                                       |         |      |              | UG Mine #   | 2          |                     | 2          |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|--------------|-------------|------------|---------------------|------------|
| ACTIVITY/MATERIAL                                      | Notes                                                                                                                                                         | Unit    | Qty  | Cost<br>Code | Unit Cost   | Cost       | % Land<br>Land Cost | Total Cost |
| CONTROL ACCESS                                         |                                                                                                                                                               |         |      |              |             |            |                     |            |
| Fence                                                  |                                                                                                                                                               | m       |      | #N/A         | \$0.00      | \$0        | \$0                 | \$0        |
| Signs                                                  |                                                                                                                                                               | each    |      | #N/A         | \$0.00      | \$0        |                     |            |
| Block roads                                            |                                                                                                                                                               | m3      |      | #N/A         | \$0.00      | \$0        |                     |            |
| Berm                                                   |                                                                                                                                                               | m3      |      | #N/A         | \$0.00      | \$0        | \$0                 |            |
| Backfill Portal                                        | At least 5 m deep into 5x4.5m portal and                                                                                                                      |         |      |              |             |            |                     | •          |
| (NPAG waste rock plug)                                 | slope at least 2:1 outside of portal                                                                                                                          | m3      | 150  | PORL         | \$19.12     | \$2 868    | 100% \$2 868        | \$0        |
| Backfill portal #2                                     |                                                                                                                                                               | m3      |      | #N/A         | \$0.00      | \$0        | \$0                 | \$0        |
| Cap raise # 1                                          | Concrete plug over 4m-dia. vent raise                                                                                                                         | m2      | 28   | SRH          | \$2 168.24  | \$61 361   | 100% \$61 361       | \$0        |
| Cap raise #2                                           |                                                                                                                                                               | m3      |      | #N/A         | \$0.00      | \$0        | \$0                 |            |
| Cap shaft #1                                           |                                                                                                                                                               | m3      |      | #N/A         | \$0.00      | \$0        |                     |            |
| Cap shaft #2                                           |                                                                                                                                                               | m3      |      | #N/A         | \$0.00      | \$0        |                     |            |
| Backfill adits                                         |                                                                                                                                                               | m3      |      | #N/A         | \$0.00      | \$0        | \$0                 | \$0        |
| Backfill open stope                                    |                                                                                                                                                               | m3      |      | #N/A         | \$0.00      | \$0        | \$0                 | \$0        |
| Concrete cap over open stope<br>Other                  |                                                                                                                                                               | m3      |      | #N/A         | \$0.00      | \$0        | \$0                 | \$0        |
| REMOVE HAZARDOUS MATERIALS                             |                                                                                                                                                               |         |      |              |             |            |                     |            |
| Remove hazardous materials, U/G labor                  | Two shifts with loader, incl. operator and fuel                                                                                                               | manhour | 20   | load-s       | \$177.98    | \$3 560    | \$0                 | \$3 560    |
| Remove/decontam. stationary & elect. equip             |                                                                                                                                                               | mandays |      | #N/A         | \$0.00      | \$0        | \$0                 | \$0        |
| Remove/decontam. mobile equipment                      |                                                                                                                                                               | each    |      | #N/A         | \$0.00      | \$0        | \$0                 | \$0        |
| Remove misc. haz. mat & explosives                     | Mining will cease before closure                                                                                                                              | kg      |      | #N/A         | \$0.00      | \$0        | \$0                 |            |
| Decommission Pipeline                                  | Clean Llama UG to SWP pipeline, decommission and landfill                                                                                                     | m       | 2700 | Sabina       | \$10.17     | \$27 459   | \$0                 | \$27 459   |
| INSTALL BULKHEADS                                      |                                                                                                                                                               |         |      |              |             |            |                     |            |
| Bulkheads to control water flow                        |                                                                                                                                                               | each    |      | #N/A         | \$0.00      | \$0        | \$0                 | \$0        |
| Grout bulkhead                                         |                                                                                                                                                               | m3      |      | #N/A         | \$0.00      | \$0        |                     |            |
| FLOOD MINE                                             |                                                                                                                                                               | III3    |      | #IN/A        | φυ.υυ       | φυ         | Φυ                  | φυ         |
| Supply/install pump                                    | UG mine is expected to be flooded in Year 5 and active flooding will take about a year, relocation of pipelines and flooding will occur as part of operations | each    |      | #N/A         | \$0.00      | \$0        | \$0                 | \$0        |
| Supply/install piping system                           |                                                                                                                                                               | m       |      | #N/A         | \$0.00      | \$0        | \$0                 | \$0        |
| Operate pumps to flood workings                        |                                                                                                                                                               | m3      |      | #N/A         | \$0.00      | \$0        | \$0                 | \$0        |
| Decommission of pipelines                              |                                                                                                                                                               | 1110    |      | #N/A         | \$0.00      | \$0        | \$0                 |            |
| Other                                                  |                                                                                                                                                               |         |      | #N/A         | \$0.00      | \$0        |                     |            |
| INSTALL GROUNDWATER COLLECTION                         | SYSTEM                                                                                                                                                        |         |      | 771477       | ψ0.00       | ΨΟ         | ΨΟ                  | ΨΟ         |
| Excavate/install sumps                                 | OTOTEW                                                                                                                                                        | m2      |      | #N/A         | \$0.00      | \$0        | \$0                 | \$0        |
| •                                                      |                                                                                                                                                               |         |      |              |             |            |                     |            |
| Install pumping wells                                  |                                                                                                                                                               | m3      |      | #N/A         | \$0.00      | \$0        |                     |            |
| Install pumps/pipelines/power supply SPECIALIZED ITEMS |                                                                                                                                                               | LS      |      | #N/A         | \$0.00      | \$0        | \$0                 | \$0        |
| Install water quality monitoring pipes                 |                                                                                                                                                               | each    |      | #N/A         | \$0.00      | \$0        | \$0                 | \$0        |
|                                                        |                                                                                                                                                               | each    |      | #N/A         | \$0.00      | \$0<br>\$0 | \$0                 |            |
| Install permanent pumping system                       | Book machanica inapaction before                                                                                                                              |         | 1    |              |             |            |                     |            |
| Assess underground stability                           | Rock mechanics inspection before closure                                                                                                                      | each    | 1    | Sabina       | \$10 170.00 | \$10 170   |                     | \$0        |
|                                                        |                                                                                                                                                               |         |      |              | Total       | \$105 418  | \$74 399            |            |
|                                                        |                                                                                                                                                               |         |      |              | % of Total  |            | 71%                 | 29%        |

UG Mine 2 of 4

| Underground Mine Nam                       | ne Goose Main                                                                                                                                                                                              |         |         |              | UG Mine #     | 3         |                     | 3              |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|--------------|---------------|-----------|---------------------|----------------|
| ACTIVITY/MATERIAL                          | Notes                                                                                                                                                                                                      | Unit    | Qty     | Cost<br>Code | Unit Cost     | Cost      | % Land<br>Land Cost | Total Cost     |
| CONTROL ACCESS                             |                                                                                                                                                                                                            |         |         |              |               |           |                     |                |
| Fence                                      |                                                                                                                                                                                                            | m       |         | #N/A         | \$0.00        | \$0       | \$0                 | \$0            |
| Signs                                      |                                                                                                                                                                                                            | each    |         | #N/A         | \$0.00        | \$0       | \$0                 | \$0            |
| Block roads                                |                                                                                                                                                                                                            | m3      |         | #N/A         | \$0.00        | \$0       | \$0                 | \$0            |
| Berm                                       |                                                                                                                                                                                                            | m3      |         | #N/A         | \$0.00        | \$0       | \$0                 | \$0            |
| Backfill Portal                            | At least 5 m deep into 5x4.5m portal and slope at least                                                                                                                                                    |         | 450     | DODI         |               | 00.000    | 1000/ 00 000        |                |
| (NPAG waste rock plug)                     | 2:1 outside of portal                                                                                                                                                                                      | m3      | 150     | PORL         | \$19.12       | \$2 868   | 100% \$2 868        | \$0            |
| Backfill portal #2                         |                                                                                                                                                                                                            | m3      |         | #N/A         | \$0.00        | \$0       | \$0                 | \$0            |
| Cap raise # 1                              | Concrete plug over 4m-dia. vent raise                                                                                                                                                                      | m2      | 28      | SRH          | \$2 168.24    | \$61 361  | 100% \$61 361       | \$0            |
| Cap raise #2                               |                                                                                                                                                                                                            | m3      |         | #N/A         | \$0.00        | \$0       | \$0                 | \$0            |
| Cap shaft #1                               |                                                                                                                                                                                                            | m3      |         | #N/A         | \$0.00        | \$0       | \$0                 |                |
| Cap shaft #2                               |                                                                                                                                                                                                            | m3      |         | #N/A         | \$0.00        | \$0       | \$0                 | \$0            |
| Backfill adits                             |                                                                                                                                                                                                            | m3      |         | #N/A         | \$0.00        | \$0       | \$0                 | \$0            |
| Backfill open stope                        |                                                                                                                                                                                                            | m3      |         | #N/A         | \$0.00        | \$0       | \$0                 | \$0            |
| Concrete cap over open stope<br>Other      |                                                                                                                                                                                                            | m3      |         | #N/A         | \$0.00        | \$0       | \$0                 | \$0            |
| REMOVE HAZARDOUS MATERIALS                 |                                                                                                                                                                                                            |         |         |              |               |           |                     |                |
| Remove hazardous materials, U/G labor      | Two shifts with loader, incl. operator and fuel                                                                                                                                                            | manhour | 20      | load-s       | \$177.98      | \$3 560   | \$0                 | \$3 560        |
| Remove/decontam. stationary & elect. equip |                                                                                                                                                                                                            | mandays |         | #N/A         | \$0.00        | \$0       | \$0                 | \$0            |
| Remove/decontam. mobile equipment          |                                                                                                                                                                                                            | each    |         | #N/A         | \$0.00        | \$0       | \$0                 | \$0            |
| Remove misc. haz. mat & explosives         | Mining will cease before closure                                                                                                                                                                           | kg      |         | #N/A         | \$0.00        | \$0       | \$0                 | \$0            |
| Decommission WTP - Goose Lake Pipeline     | In Water Management tab                                                                                                                                                                                    | m       |         | #N/A         | \$0.00        | \$0       | \$0                 | \$0            |
| INSTALL BULKHEADS                          |                                                                                                                                                                                                            |         |         |              |               |           |                     |                |
| Bulkheads to control water flow            |                                                                                                                                                                                                            | each    |         | #N/A         | \$0.00        | \$0       | \$0                 | \$0            |
| Grout bulkhead                             |                                                                                                                                                                                                            | m3      |         | #N/A         | \$0.00        | \$0       | \$0                 | \$0            |
| FLOOD MINE                                 |                                                                                                                                                                                                            |         |         | ,,,,,        | ψ0.00         | Ψ.        | Ψ.                  | •              |
| Supply/install pump                        | UG mine is expected to be flooded in Year 10 and active flooding will take about a year, relocation of pipelines and flooding will occur as progressive reclamation but cost is provided as a conservative | each    |         | #N/A         | \$0.00        | \$0       | \$0                 | \$0            |
| O male floor to Hard Street and the        | approach                                                                                                                                                                                                   |         | 4.500   | 0.1.1.       | <b>#40.00</b> | 050 470   |                     | <b>#50.470</b> |
| Supply/install piping system               | Adjust pipe line to route to Goose UG in Year 10                                                                                                                                                           | m       | 4 500   | Sabina       | \$13.00       | \$58 478  | \$0                 | \$58 478       |
| Operate pumps to flood workings            |                                                                                                                                                                                                            | m3      | 391 630 | Sabina       | \$0.14        | \$53 147  | \$0                 | \$53 147       |
| Decommission SWP to Goose UG pipeline      |                                                                                                                                                                                                            | m       | 10 800  | #N/A         | \$10.17       | \$109 836 | \$0                 | \$109 836      |
| Other                                      |                                                                                                                                                                                                            |         |         | #N/A         | \$0.00        | \$0       | \$0                 | \$0            |
| INSTALL GROUNDWATER COLLECTION SY          | /STEM                                                                                                                                                                                                      |         |         |              |               |           |                     |                |
| Excavate/install sumps                     |                                                                                                                                                                                                            | m2      |         | #N/A         | \$0.00        | \$0       | \$0                 | \$0            |
| Install pumping wells                      |                                                                                                                                                                                                            | m3      |         | #N/A         | \$0.00        | \$0       | \$0                 | \$0            |
| Install pumps/pipelines/power supply       |                                                                                                                                                                                                            | LS      |         | #N/A         | \$0.00        | \$0       | \$0                 | \$0            |
| SPECIALIZED ITEMS                          |                                                                                                                                                                                                            |         |         |              | ψ0.00         | ΨΟ        | ΨΟ                  | ΨΟ             |
|                                            |                                                                                                                                                                                                            | each    |         | #N/A         | \$0.00        | \$0       | \$0                 | \$0            |
| Install water quality monitoring pipes     |                                                                                                                                                                                                            |         |         |              |               |           |                     |                |
| Install permanent pumping system           |                                                                                                                                                                                                            | each    |         | #N/A         | \$0.00        | \$0       | \$0                 | \$0            |
| Other                                      |                                                                                                                                                                                                            |         |         | #N/A         | \$0.00        | \$0       | \$0                 | \$0            |
|                                            |                                                                                                                                                                                                            |         |         |              |               | \$289 250 | \$64 229            | \$225 020      |
|                                            |                                                                                                                                                                                                            |         |         |              | % of Total    |           | 22%                 | 78%            |

UG Mine 3 of 4

| Underground Mine Name                      | Echo                                                                                                |         |       |        | UG Mine #    | 4          |                     | 4             |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------|---------|-------|--------|--------------|------------|---------------------|---------------|
| ACTIVITY/MATERIAL                          | Notes                                                                                               | Unit    | Qty   | Cost   | Unit Cost    | Cost       | % Land<br>Land Cost | Total Cost    |
| CONTROL ACCESS                             |                                                                                                     |         |       |        |              |            |                     |               |
| Fence                                      |                                                                                                     | m       |       | #N/A   | \$0.00       | \$0        | \$0                 | \$0           |
| Signs                                      |                                                                                                     | each    |       | #N/A   | \$0.00       | \$0        | \$0                 | \$0           |
| Block roads                                |                                                                                                     | m3      |       | #N/A   | \$0.00       | \$0        | \$0                 | \$0           |
| Berm                                       |                                                                                                     | m3      |       | #N/A   | \$0.00       | \$0        | \$0                 | \$0           |
| Backfill Portal                            | At least 5 m deep into 5x4.5m portal and slope at                                                   |         | 450   | DODI   | 040.40       | 00.000     | 1000/ 00.000        |               |
| (NPAG waste rock plug)                     | least 2:1 outside of portal                                                                         | m3      | 150   | PORL   | \$19.12      | \$2 868    | 100% \$2 868        | \$0           |
| Backfill portal #2                         |                                                                                                     | m3      |       | #N/A   | \$0.00       | \$0        | \$0                 | \$0           |
| Cap raise # 1                              | Concrete plug over 4m-dia. vent raise                                                               | m2      | 28    | SRH    | \$2 168.24   | \$61 361   | 100% \$61 361       | \$0           |
| Cap raise #2                               |                                                                                                     | m3      |       | #N/A   | \$0.00       | \$0        | \$0                 |               |
| Cap shaft #1                               |                                                                                                     | m3      |       | #N/A   | \$0.00       | \$0        | \$0                 |               |
| Cap shaft #2                               |                                                                                                     | m3      |       | #N/A   | \$0.00       | \$0        | \$0                 |               |
| Backfill adits                             |                                                                                                     | m3      |       | #N/A   | \$0.00       | \$0        | \$0                 | \$0           |
| Backfill open stope                        |                                                                                                     | m3      | 3 550 | Sabina | \$6.10       | \$21 662   | 100% \$21 662       |               |
| Concrete cap over open stope               |                                                                                                     | m3      |       | #N/A   | \$0.00       | \$0        | \$0                 |               |
| Other                                      |                                                                                                     |         |       | #N/A   | \$0.00       | \$0        | \$0                 | \$0           |
| REMOVE HAZARDOUS MATERIALS                 | On a different backer to discount of the land                                                       |         | 40    |        | 0477.00      | 04.700     | 00                  | <b>#4 700</b> |
| Remove hazardous materials, U/G labor      | One shift with loader, incl. operator and fuel                                                      | manhour | 10    | load-s | \$177.98     | \$1 780    | \$0                 |               |
| Remove/decontam. stationary & elect. equip |                                                                                                     | mandays |       | #N/A   | \$0.00       | \$0        | \$0                 |               |
| Remove/decontam. mobile equipment          |                                                                                                     | each    |       | #N/A   | \$0.00       | \$0        | \$0                 |               |
| Remove misc. haz. mat & explosives         | Mining will cease before closure                                                                    | kg      |       | #N/A   | \$0.00       | \$0        | \$0                 | \$0           |
| Decommission Pipeline                      |                                                                                                     | m       |       | #N/A   | \$0.00       | \$0        | \$0                 | \$0           |
| INSTALL BULKHEADS                          |                                                                                                     |         |       |        |              |            |                     |               |
| Bulkheads to control water flow            |                                                                                                     | each    |       | #N/A   | \$0.00       | \$0        | \$0                 | \$0           |
| Grout bulkhead                             |                                                                                                     | m3      |       | #N/A   | \$0.00       | \$0        | \$0                 | \$0           |
| FLOOD MINE                                 |                                                                                                     |         |       |        |              |            |                     |               |
|                                            |                                                                                                     |         |       |        |              |            |                     |               |
| Supply/install pump                        | Passive flooding of Echo UG in Year 10, complete flooding is expected to occur within a few months. | each    |       | #N/A   | \$0.00       | \$0        | \$0                 | \$0           |
|                                            | nooding is expected to occur within a few months.                                                   |         |       |        |              |            |                     |               |
| Supply/install piping system               |                                                                                                     | each    |       | #N/A   | \$0.00       | \$0        | \$0                 | \$0           |
| On sents assess to the advisorious         |                                                                                                     | 2       |       | #N1/A  | <b>#0.00</b> | ¢0         | ***                 | ¢o.           |
| Operate pumps to flood workings            |                                                                                                     | m3      |       | #N/A   | \$0.00       | \$0<br>\$0 | \$0                 |               |
| Decommission                               |                                                                                                     |         |       | #N/A   | \$0.00       | \$0        | \$0                 |               |
| Other                                      |                                                                                                     |         |       | #N/A   | \$0.00       | \$0        | \$0                 | \$0           |
| INSTALL GROUNDWATER COLLECTION S           | SYSTEM                                                                                              |         |       |        |              |            |                     |               |
| Excavate/install sumps                     |                                                                                                     | m2      |       | #N/A   | \$0.00       | \$0        | \$0                 | \$0           |
| Install pumping wells                      |                                                                                                     | m3      |       | #N/A   | \$0.00       | \$0        | \$0                 |               |
| Install pumps/pipelines/power supply       |                                                                                                     | LS      |       | #N/A   | \$0.00       | \$0        | \$0                 | \$0           |
| SPECIALIZED ITEMS                          |                                                                                                     |         |       |        |              |            |                     |               |
| Install water quality monitoring pipes     |                                                                                                     | each    |       | #N/A   | \$0.00       | \$0        | \$0                 | \$0           |
| Install permanent pumping system           |                                                                                                     | each    |       | #N/A   | \$0.00       | \$0        | \$0                 |               |
| Assess underground stability               | Rock mechanics inspection before closure                                                            | each    | 1     |        | \$10 170.00  | \$10 170   | 100% \$10 170       |               |
| and ground stability                       |                                                                                                     | Guon    |       | Judina | Total        | \$97.841   | \$96,061            | \$1 780       |

**UG Mine** 4 of 4

Total \$97 841

% of Total

\$96 061

98%

\$1 780

2%

Tailings Impoundment Name: TSF Pond # 1

| Tailings Impoundment Name:                                                               | TSF                                                                           |              |               |                  | Pond # 1                  | l            |                          |                |            |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------|---------------|------------------|---------------------------|--------------|--------------------------|----------------|------------|
| ACTIVITY/MATERIAL                                                                        | Notes                                                                         | Units        | Quantity      | Cost<br>Code     | Unit Cost                 | Cost L       | Land Cost                |                | Total Cost |
| CONTROL ACCESS                                                                           |                                                                               |              |               |                  |                           |              |                          |                |            |
| Fence                                                                                    |                                                                               | m            |               | #N/A             | \$0.00                    | \$0<br>©0    |                          | \$0            | \$0        |
| Signs<br>Berm                                                                            |                                                                               | each<br>m3   |               | #N/A<br>#N/A     | \$0.00<br>\$0.00          | \$0<br>\$0   |                          | \$0<br>\$0     | \$0<br>\$0 |
| Block roads                                                                              |                                                                               | m3           |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$(        |
| Other                                                                                    |                                                                               |              |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| STABILIZE EMBANKMENT(S)                                                                  |                                                                               |              |               |                  |                           |              |                          |                |            |
| Toe buttress, drainage layer                                                             |                                                                               | m3           |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| Toe buttress, bulk fill                                                                  |                                                                               | m3           |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| Rip rap                                                                                  |                                                                               | m3           |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| Vegetate                                                                                 |                                                                               | ha           |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| Raise crest<br>Flatten slopes                                                            |                                                                               | m3<br>m3     |               | #N/A<br>#N/A     | \$0.00<br>\$0.00          | \$0<br>\$0   |                          | \$0<br>\$0     | \$(<br>\$( |
| Other                                                                                    |                                                                               | 1113         |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$(        |
| COVER TAILINGS                                                                           |                                                                               |              |               | ,,,,,,           | ψ0.00                     | Ţ.           |                          |                | Ψ.         |
| Grade/shape tailings surface                                                             |                                                                               | m3           |               | sbth             | \$3.76                    | \$0          |                          | \$0            | \$0        |
| Liner bedding                                                                            |                                                                               | m3           |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| Subgrade preparation - compact                                                           |                                                                               | m2           |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| Supply geotextile/geosynthetic                                                           |                                                                               | m2           |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| Install geotextile/geosynthetic<br>Soil cover                                            |                                                                               | m2<br>m3     |               | #N/A<br>#N/A     | \$0.00<br>\$0.00          | \$0<br>\$0   |                          | \$0<br>\$0     | \$0<br>\$0 |
|                                                                                          | Included in the quantity for waste rock pile cover                            |              |               |                  |                           |              |                          |                |            |
| Rock cover                                                                               | (5m of NPAG). See Rock Pile tab. Assumed 0.5 m of sediments in pond basin (66 | m3           | 0             | sb3s             | \$7.12                    |              | 100%                     | \$0            | \$0        |
| TSF WRSA Pond Sediment Removal Vegetate                                                  | ha) to be removed and placed in TSF WRSA<br>TSF WRSA Pond                     | m3<br>ha     | 330 000<br>66 | SBTH<br>VHFI     | \$3.76<br>\$4 068.00      |              | 100% \$1 24<br>100% \$26 | 1 757<br>8 488 | \$0<br>\$0 |
| Other                                                                                    | TSF WRSA PONG                                                                 | m3           | 00            | #N/A             | \$0.00                    | \$200 400    | 100% \$20                | \$0            | \$0        |
| BURY PAG ROCK<br>Relocate PAG rock                                                       |                                                                               | 2            |               | #N1/A            | <b>#0.00</b>              | eo.          |                          | 60             | 0.0        |
| Place cover over PAG rock                                                                |                                                                               | m3<br>m3     |               | #N/A<br>#N/A     | \$0.00<br>\$0.00          | \$0<br>\$0   |                          | \$0<br>\$0     | \$0<br>\$0 |
| Raise crest of dam                                                                       |                                                                               | m3           |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| Other                                                                                    |                                                                               |              |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| STABILIZE DECANT SYSTEM                                                                  |                                                                               | _            |               |                  |                           |              |                          |                |            |
| Excavate and replace Plug/backfill with concrete or clay                                 |                                                                               | m3<br>m3     |               | #N/A<br>#N/A     | \$0.00<br>\$0.00          | \$0<br>\$0   |                          | \$0<br>\$0     | \$0<br>\$0 |
| Other                                                                                    |                                                                               | ms           |               | #N/A             | \$0.00                    | \$0<br>\$0   |                          | \$0<br>\$0     | \$0        |
| REMOVE TAILINGS DISCHARGE                                                                |                                                                               |              |               | #IN/A            | ψ0.00                     | ΨΟ           |                          | ΨΟ             | Ψ          |
| Cyclones                                                                                 |                                                                               | m3           |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| Pipe                                                                                     |                                                                               | m3           |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| Remove reclaim barge                                                                     |                                                                               | allow        |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| CONSTRUCT DIVERSION DITCHES                                                              |                                                                               |              |               |                  |                           |              |                          |                |            |
| Excavate ditches -soil                                                                   |                                                                               | m3           |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| Excavate ditches -rock                                                                   |                                                                               | m3<br>m2     |               | #N/A<br>#N/A     | \$0.00<br>\$0.00          | \$0<br>\$0   |                          | \$0<br>\$0     | \$0<br>\$0 |
| Rip rap in channel base (liner) FLOOD TAILINGS                                           |                                                                               | 1112         |               | #IN/A            | φυ.υυ                     | <b>\$</b> 0  |                          | φυ             | φι         |
| Doze tailings to final contour                                                           |                                                                               | m3           |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| Raise crest of dam                                                                       |                                                                               | m3           |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| Other                                                                                    |                                                                               |              |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| UPGRADE SPILLWAY                                                                         |                                                                               |              |               |                  |                           |              |                          |                |            |
| Excavate channel on TSF                                                                  | Breach west end of dam to existing drainage                                   | m3           | 11 000.0      | Sabina           | \$7.42                    | \$81 665     |                          | \$0            | \$81 665   |
| Excavate channel, soil                                                                   | reporting to Goose Main Pit; 100 m channel.                                   | m3           |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| Concrete                                                                                 |                                                                               | m3           |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| Rip rap                                                                                  |                                                                               | m3           | 7 000         | RR1H             | \$18.05                   | \$126 362    |                          | \$0            | \$126 362  |
| Other                                                                                    | Geotextile                                                                    | m2           | 2 860         | GSTL             | \$3.50                    | \$10 006     |                          | \$0            | \$10 006   |
| CONSTRUCT SEEPAGE COLLECTION F                                                           | POND                                                                          |              |               |                  |                           |              |                          |                |            |
| Excavate seepage collection pond                                                         |                                                                               | m3           |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| Doze & spread excavated material                                                         |                                                                               | m3           |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| Vegetate spread material                                                                 |                                                                               | ha           |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| Bedding layer<br>Supply geomembrane                                                      |                                                                               | m3<br>m2     |               | #N/A<br>#N/A     | \$0.00<br>\$0.00          | \$0<br>\$0   |                          | \$0<br>\$0     | \$0<br>\$0 |
| Install geomembrane                                                                      |                                                                               | m2           |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| Erosion protection layer                                                                 |                                                                               | m3           |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| Breach seepage diversion berm                                                            |                                                                               | m3           | 285           | Sabina           | \$7.42                    | \$2 116      |                          | \$0            | \$2 116    |
| INSTALL GROUNDWATER COLLECTION                                                           | NSYSTEM                                                                       |              |               |                  |                           |              |                          |                |            |
| Excavate/install sumps                                                                   |                                                                               | m3           |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| Install pumping wells                                                                    |                                                                               | m3           |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| Install pumps/pipelines/power supply                                                     |                                                                               | LS           |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| SPECIALIZED ITEMS Install permanent instrumentation, supply                              | 9 tachniaan                                                                   | oooh         |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| Install permanent instrumentation, supply<br>Install permanent instrumentation, drilling | & technican                                                                   | each<br>each |               | #N/A<br>#N/A     | \$0.00                    | \$0<br>\$0   |                          | φU             | \$0        |
| TREAT SEEPAGE - see "Water Managen                                                       | nent" and "Water Treatment"                                                   | ouo          |               | ,,,,,,           | Ψ0.00                     | <del>-</del> |                          |                | <b>,</b>   |
| TREAT SUPERNATANT                                                                        |                                                                               |              |               |                  |                           |              |                          |                |            |
| Pump from TSF to WTP                                                                     | INCLUDED LINDED WATER MANAGEMENT                                              | m3           | -             | POCL             | \$0.12                    | \$0          |                          | \$0            | \$0        |
| Treat water in WTP                                                                       | INCLUDED UNDER WATER MANAGEMENT TAB                                           | m3           | -             | Sabina           | \$0.66                    | \$0          |                          | \$0            | \$0        |
| Pump water out of WTP                                                                    | ,,,,                                                                          | m3           | -             | POCL             | \$0.12                    | \$0          |                          | \$0            | \$0        |
| Pump water (to pit, U/G)                                                                 |                                                                               | m3           |               | #N/A             | \$0.00                    | \$0          |                          | \$0            | \$0        |
| Equipment maintenance and parts                                                          |                                                                               | allow        |               | #N/A             | \$0.00                    | \$0<br>\$0   |                          | \$0<br>\$0     | \$0        |
| Supply reagents                                                                          |                                                                               | tonne        |               | #N/A<br>Annual t | \$0.00<br>treatment costs | \$0<br>\$0   |                          | \$0            | \$0        |
| Number of years of treatment                                                             |                                                                               | years        |               | , unival t       | a caumont 603t5           | Ψ            |                          |                |            |
|                                                                                          |                                                                               |              |               | Total t          | reatment costs            | \$0          |                          |                | \$0        |
|                                                                                          |                                                                               |              |               |                  | Total                     | \$1 730 394  | \$1 51                   | 0 245          | \$220 149  |
|                                                                                          |                                                                               |              |               |                  | % of Total                |              |                          | 87%            | 13%        |

<sup>\*</sup> for construction of passive treatment system refer to "Water Management"

Tailings 1 of 1

Rock Pile Name:

Umwelt, Llama, Echo and TSF

| ACTIVITY/MATERIAL                                                       | Notes                                                                                                                                                                                                      | Units    | Quantity  | Cost<br>Code | Unit Cost     |                     | %<br>Land | Land Cost    | Total Cost |
|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|--------------|---------------|---------------------|-----------|--------------|------------|
| STABILIZE SLOPES                                                        |                                                                                                                                                                                                            |          |           |              |               |                     |           |              |            |
| Flatten slopes with dozer                                               |                                                                                                                                                                                                            | m3       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| Flatten "bubble dump" areas                                             |                                                                                                                                                                                                            | m3       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| Divert runon, ditch mat'l A                                             |                                                                                                                                                                                                            | m3       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| Divert runon, ditch mat'l B                                             |                                                                                                                                                                                                            | m3       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| Toe buttress, drain mat'l                                               |                                                                                                                                                                                                            | m3       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| Toe buttress, fill mat'l A                                              |                                                                                                                                                                                                            | m3       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| Toe buttress, fill mat'l B                                              |                                                                                                                                                                                                            | m3       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| Other                                                                   |                                                                                                                                                                                                            |          |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| COVER ROCK PILE                                                         |                                                                                                                                                                                                            |          |           |              |               |                     |           |              |            |
| Subgrade preparation - doze surface                                     |                                                                                                                                                                                                            | m3       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| Soil cover - excavate,haul,spread&compact                               | İ                                                                                                                                                                                                          | m3       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| Rock cover - excavate,haul & spread                                     | Cover rock piles in Yr 2, assuming progressive reclamation of Llama, Umwelt, and TSF WRSAs occurs as planned, Include 5m thick cover of NPAG material over Yr 2 max area of 37.6 ha, no contingency volume | m3       | 2 572 000 | SB3S         | \$7.12        | \$18 310 068        | 90%       | \$16 479 061 | \$1 831 00 |
| Excavate downslope drainage channel & ch                                | nute                                                                                                                                                                                                       | m3       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| Rip rap drainage channel and chute                                      |                                                                                                                                                                                                            | m3       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| Vegetate                                                                |                                                                                                                                                                                                            | ha       | 0         | VHFL         | \$4 068.00    | \$0                 |           | \$0          | \$         |
| Other                                                                   |                                                                                                                                                                                                            |          |           | #N/A         | \$0.00        | \$0                 |           | \$0          | 9          |
| VERY LOW PERMEABILITY COVER (in ac                                      | Idition to above)                                                                                                                                                                                          |          |           |              | 72.30         |                     |           | 70           |            |
| Liner subgrade preparation - compact                                    | ,                                                                                                                                                                                                          | m2       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| Supply geomembrame                                                      |                                                                                                                                                                                                            | m2       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | 9          |
| nstall geomembrane                                                      |                                                                                                                                                                                                            | m2       |           | #N/A         | \$0.00        | \$0                 |           | \$0<br>\$0   | 9          |
| Protective cover - excavate,haul,spread&co                              | umpaat                                                                                                                                                                                                     | m3       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
|                                                                         | mpaci                                                                                                                                                                                                      | ha       |           | #N/A         |               | \$0                 |           | \$0          | 9          |
| Vegetate                                                                |                                                                                                                                                                                                            |          |           |              | \$0.00        |                     |           |              |            |
| nstall infiltration/seepage instrumentation CONSTRUCT DIVERSION DITCHES |                                                                                                                                                                                                            | allow    |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| Excavate ditches -soil                                                  |                                                                                                                                                                                                            | 2        |           | #N/A         | \$0.00        | \$0                 |           | \$0          | 9          |
|                                                                         |                                                                                                                                                                                                            | m3<br>m3 |           | #N/A<br>#N/A | \$0.00        | \$0<br>\$0          |           | \$0<br>\$0   | \$         |
| Excavate ditches -rock                                                  |                                                                                                                                                                                                            |          |           |              |               |                     |           |              |            |
| Rip rap in channel base                                                 | ON ID                                                                                                                                                                                                      | m3       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| CONSTRUCT SEEPAGE COLLECTION PO                                         |                                                                                                                                                                                                            |          |           |              |               | •                   |           |              |            |
| Excavate seepage collection pond                                        | See Water Management tab for berm breaching                                                                                                                                                                | m3       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| Doze & spread excavated material                                        |                                                                                                                                                                                                            | m3       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| Vegetate spread material                                                |                                                                                                                                                                                                            | ha       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| Bedding layer                                                           |                                                                                                                                                                                                            | m3       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| Supply geomembrane                                                      |                                                                                                                                                                                                            | m2       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| Install geomembrane                                                     |                                                                                                                                                                                                            | m2       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| Erosion protection layer                                                |                                                                                                                                                                                                            | m3       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| INSTALL GROUNDWATER COLLECTION                                          | SYSTEM                                                                                                                                                                                                     |          |           |              |               |                     |           |              |            |
| Excavate/install sumps                                                  |                                                                                                                                                                                                            | m3       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| Install pumping wells                                                   |                                                                                                                                                                                                            | m3       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| Install pumps/pipelines/power supply                                    |                                                                                                                                                                                                            | allow    |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| RELOCATE DUMPS                                                          |                                                                                                                                                                                                            |          |           |              |               |                     |           |              |            |
| Load, haul, dump or doze                                                |                                                                                                                                                                                                            | m3       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| Add lime                                                                |                                                                                                                                                                                                            | tonne    |           | #N/A         | \$0.00        | \$0                 |           | \$0          | 9          |
| Contour reclaimed area                                                  |                                                                                                                                                                                                            | ha       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| Other                                                                   |                                                                                                                                                                                                            |          |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| SPECIALIZED ITEMS                                                       |                                                                                                                                                                                                            |          |           |              |               |                     |           |              |            |
|                                                                         | Will be installed during Operations to meet opertional                                                                                                                                                     | a l      |           | #N1/A        | 60.00         | 40                  |           | **           |            |
| Install ground temperature monitoring cable                             | monitoring commitments                                                                                                                                                                                     | each     |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| Install permanent instrumentation, drilling                             |                                                                                                                                                                                                            | each     |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| TREAT ROCK PILE SEEPAGE - see "Wate<br>HEAP LEACH SEEPAGE TREATMENT - C | •                                                                                                                                                                                                          |          |           |              |               |                     |           |              |            |
| Cyanide destruction water treatment pumpi                               |                                                                                                                                                                                                            | m3       |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| Reagents                                                                | ···o                                                                                                                                                                                                       | tonnes   |           | #N/A         | \$0.00        | \$0                 |           | \$0          | \$         |
| Electrician/mechanic to maintain treatment                              | nlant                                                                                                                                                                                                      | allow    |           | #N/A         | \$0.00        | \$0<br>\$0          |           | \$0          | \$         |
| Equipment maintenance and parts                                         | pium                                                                                                                                                                                                       | allow    |           | #N/A<br>#N/A | \$0.00        | \$0<br>\$0          |           | \$0<br>\$0   |            |
| _quipment maintenance and parts                                         |                                                                                                                                                                                                            | ailUW    |           |              |               |                     |           | Φ0           |            |
| Number of years of treatment                                            |                                                                                                                                                                                                            | years    | 0         |              | eatment costs | \$0<br>\$0          |           |              | \$         |
| HEAP LEACH SEEPAGE TREATMENT - A                                        | RD/MI **                                                                                                                                                                                                   |          |           | ı olai ile   | aunont tools  | ΨΟ                  |           |              | φ          |
|                                                                         | A NEW INITE                                                                                                                                                                                                |          |           |              |               |                     |           |              |            |
|                                                                         |                                                                                                                                                                                                            | ollow.   |           | #NI/A        | ¢0.00         | 40                  |           |              | •          |
| Jpgrade/modify pumping system - report to                               |                                                                                                                                                                                                            | allow    |           | #N/A         | \$0.00        | \$0<br>\$18 310 068 |           | \$16 479 061 | \$1 831 00 |

<sup>\*</sup> For construction of passive treatment system refer to "Water Management". ARD/ML seepage treatment becomes post-closure water treatment cost \*\*Heap leach ARD/ML seepage treatment becomes post-closure water treatment cost

Rock Pile 1 of 1

Building / Equip Name: Bldg / Equip #: 1

| ACTIVITY/MATERIAL                                                   | Notes                                                                                                                                          | Units    | Quantity       | Cost<br>Code   | Unit Cost                | Cost                  | %<br>Land    | Land Cost   | Total Cost |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|----------------|--------------------------|-----------------------|--------------|-------------|------------|
| DISPOSE MOBILE EQUIPMENT                                            |                                                                                                                                                |          |                | Oouc           |                          |                       | Luna         |             |            |
| Decontaminate and ship off-site                                     |                                                                                                                                                | allow    |                | #N/A           | \$0.00                   | \$0                   |              | \$0         | \$0        |
| Decontaminate and dispose on-site                                   | Drive or transport to landfill; drain fluids; NPAG cover cost below                                                                            | allow    | 1              | Sabina         | \$20 340.00              | \$20 340              | 100%         | \$20 340    | \$0        |
| Other                                                               |                                                                                                                                                |          |                | #N/A           | \$0.00                   | \$0                   |              | \$0         | \$0        |
| REMOVE BUILDINGS - see note below                                   |                                                                                                                                                |          |                |                |                          | ***                   |              | ***         | •          |
| Accomodation Complex Process Facilities                             | Goose Admin: Kitchen/camp. Landfill building materials and pad                                                                                 | m2<br>m2 | 1 980<br>6 464 | BRS1L<br>BRS1H | \$45.77<br>\$66.11       | \$90 615<br>\$427 303 | 100%<br>100% |             | \$0<br>\$0 |
| Crusher                                                             |                                                                                                                                                | m2       | 1 630          | BRS1H          | \$66.11                  | \$107 751             | 100%         |             | \$0        |
| Power plant                                                         |                                                                                                                                                | m2       | 2 040          | BRS1H          | \$66.11                  | \$134 854             | 100%         |             | \$0        |
| Emergency power plant                                               | O A bulle bell Para                                                                                                                            | m2       | 300            | BRS1H          | \$66.11                  | \$19 832              | 100%         |             | \$0        |
| Truck Shop/Office<br>Cold storage                                   | Goose Admin building Goose Admin building                                                                                                      | m2<br>m2 | 2 349<br>840   | BRS1L<br>BRS1L | \$45.77<br>\$45.77       | \$107 523<br>\$38 443 | 100%<br>100% |             | \$0<br>\$0 |
| Storage Facilities                                                  | Waste oil storage Goose Site                                                                                                                   | Lot      | 1              | Sabina         | \$44 070.00              | \$44 070              | 100%         |             | \$0        |
| Storage Facility                                                    | Goose frieght storage                                                                                                                          | Lot      | 1              | Sabina         | \$19 577.25              | \$19 577              | 100%         |             | \$0        |
| Water and Wastewater Treatment Facilities                           | Water treatment plant Goose Building                                                                                                           | m2       | 647            | BRS1L          | \$45.77                  | \$29 610              | 100%         |             | \$0        |
| Sewage Treatment Plant                                              | Remove hazardous materials and dispose of at licensed facility, landfill                                                                       | Lot      | 1              | Sabina         | \$11 746.35              | \$11 746              | 100%         | \$11 746    | \$0        |
| -                                                                   | building materials                                                                                                                             |          |                |                |                          |                       |              |             |            |
| Fuel Tanks                                                          | Fuel storage and distribution Goose facility                                                                                                   | Lot      | 1              | Sabina         | \$156 618.00             | \$156 618             | 100%         |             | \$0        |
| Offices, Repair, Lab, Warehouse                                     | MLA infrastructure Port Office                                                                                                                 | Units    | 5              | Sabina         | \$2 379.78               | \$11 899              | 100%         |             | \$0        |
| Pipeline                                                            | MLA Infrastructure                                                                                                                             | m        | 10 000         | Sabina         | \$10.17                  | \$101 700             | 100%         | \$101 700   | \$0        |
|                                                                     | MLA Infrastructure. Includes: Incinerator and waste management,<br>Warehouses, Genset, Maintenance shop, water storage, WTP/STP,               |          |                |                |                          |                       |              |             |            |
| Warehouse, Shops and Others                                         | camp/office, freight storage area, waste area, MLA Fuel Storage Area.                                                                          | LS       | 1              | Sabina         | \$330 636.87             | \$330 637             | 100%         | \$330 637   | \$0        |
| Waterlouse, Shops and Others                                        | Cost includes grade and contour pads, disposal at designated areas,                                                                            | LO       |                | Jabiila        | ψυσυ συσιστ              | φ330 037              | 100 /0       | ψυυυ υυτ    | ΨΟ         |
|                                                                     | remove hazard material when applicable. Additional Cost included for MLA Fuel Transfer Area tank and liner removal.                            |          |                |                |                          |                       |              |             |            |
| Freshwater intakes                                                  | pipes will be capped at substrate and left in place.                                                                                           | m2       |                | #N/A           | \$0.00                   | \$0                   |              | \$0         | \$0        |
| Reclaim pumps                                                       |                                                                                                                                                | m2       |                | #N/A           | \$0.00                   | \$0                   |              | \$0         | \$0        |
| Outfall & Diffuser                                                  |                                                                                                                                                | m2       |                | #N/A           | \$0.00                   | \$0                   |              | \$0         | \$0        |
| Airstrip lighting, navigation, electrician                          | Accounts for Goose 6,000-ft airstrip                                                                                                           | manhours | 24             | elecH          | \$96.62                  | \$2 319               | 100%         | \$2 319     | \$0        |
| Airstrip lighting, navigation, mechanical                           | Accounts for Goose 6,000-ft airstrip                                                                                                           | manhours | 24             | mechH          | \$74.09                  | \$1 778               | 100%         | \$1 778     | \$0        |
| Break foundation slabs                                              |                                                                                                                                                | m2       |                | #N/A           | \$0.00                   | \$0                   |              | \$0         | \$0        |
| Consolidate & dump boneyard debris                                  |                                                                                                                                                | m3       |                | #N/A           | \$0.00                   | \$0                   |              | \$0         | \$0        |
| Other                                                               | Remove Buildings - WIR Service/Emergency Camps, total of 3 1-ha<br>area for 3 camps; assume all structures will be sprung structures.          | LS       | 3              | Sabina         | \$75 000.00              | \$225 000             |              | \$0         | \$225 000  |
| LANDFILL FOR DEMOLITION WASTE                                       | area for 5 camps, assume all structures will be sprung structures.                                                                             |          |                |                |                          |                       |              |             |            |
| Place rock cover                                                    |                                                                                                                                                | m3       | 25 000         | rr3l           | \$7.12                   | \$177 975             | 100%         | \$177 975   | \$0        |
| Place soil cover                                                    |                                                                                                                                                | m3       |                | #N/A           | \$0.00                   | \$0                   |              | \$0         | \$0        |
| Vegetate                                                            |                                                                                                                                                | ha       | -              | VHFL           | \$4 068.00               | \$0                   | 100%         |             | \$0        |
| GRADE AND CONTOUR PADS                                              |                                                                                                                                                |          |                |                |                          |                       |              |             |            |
| Accomodation Complex                                                | Goose Admin: Kitchen/camp. no concrete foundation                                                                                              | ha       | 0.2            | SCFYL          | \$4 373.10               | \$875                 | 100%         | \$875       | \$0        |
| Process Facilities                                                  | concrete foundation demolished to ground level                                                                                                 | m2       | 6 464          | BRCS           | \$6.10                   | \$39 443              | 100%         | \$39 443    | \$0        |
| Crusher                                                             | concrete foundation demolished to ground level                                                                                                 | m2       | 1 630          | BRCS           | \$6.10                   | \$9 946               | 100%         |             | \$0        |
| Power plant                                                         | no concrete foundation                                                                                                                         | ha       | 0.3            | SCFYL          | \$4 373.10               | \$1 312               | 100%         |             | \$0        |
| Emergency power plant                                               | no concrete foundation                                                                                                                         | ha       | 0.10           | SCFYL          | \$4 373.10               | \$437                 | 100%         |             | \$0        |
| Truck Shop/Office                                                   | concrete foundation demolished to ground level                                                                                                 | m2       | 2 349          | BRCS           | \$6.10                   | \$14 336              | 100%         |             | \$0        |
| Cold storage                                                        | no concrete foundation                                                                                                                         | ha       | 0.1            | SCFYL<br>SCFYL | \$4 373.10<br>\$4 373.10 | \$437                 | 100%<br>100% |             | \$0<br>\$0 |
| Water and Wastewater Treatment Facilities<br>Sewage Treatment Plant | no concrete foundation no concrete foundation                                                                                                  | ha<br>m2 | 0.1<br>33      | BRCS           | \$6.10                   | \$437<br>\$201        | 100%         |             | \$0<br>\$0 |
| Fuel Tanks                                                          | Fuel storage and distribution Goose facility; no concrete foundation                                                                           | ha       | 2.2            | SCFYL          | \$4 373.10               | \$9 621               | 100%         |             | \$0        |
|                                                                     | MLA, includes all storage/laydown pads, Fuel Tank areas, airstrip,                                                                             |          |                |                |                          |                       |              |             |            |
| Warehouse, Shops and Other                                          | shoreline pads, and camp area                                                                                                                  | ha       | 20             | SCFYL          | \$4 373.10               | \$87 462              | 100%         | \$87 462    | \$0        |
| Place rock cover                                                    |                                                                                                                                                | m3       |                | SB3S           | \$7.12                   | \$0                   | 100%         |             | \$0        |
| Vegetate                                                            |                                                                                                                                                | ha       | -              | VHFL           | \$4 068.00               | \$0                   |              | \$0         | \$0        |
| PUNCTURE LINED SUMPS                                                |                                                                                                                                                |          |                |                |                          |                       |              |             |            |
| Puncture liner and place soil cover                                 |                                                                                                                                                | m3       |                | #N/A           | \$0.00                   | \$0                   |              | \$0         | \$0        |
| RECLAIM ROADS                                                       | Restore drainage including culverts at Goose Property; no culverts at                                                                          |          |                |                |                          |                       |              |             |            |
| Restore drainage, remove culverts haul road                         | MLA. Roads will remain intact to facilitate long-term access.                                                                                  | m3       | 1 488          | Sabina         | \$11.19                  | \$16 646              |              | \$0         | \$16 646   |
| Remove bridges                                                      |                                                                                                                                                | each     |                | #N/A           | \$0.00                   | \$0                   |              | \$0         | \$0        |
| Scarify and install water breaks                                    |                                                                                                                                                | ha       |                | #N/A           | \$0.00                   | \$0                   |              | \$0         | \$0        |
| Restore drainage airstrip                                           | Accounts for Goose 6,000ft by 200ft airstrip dimensions                                                                                        | m3       | 1 360          | Sabina         | \$12.20                  | \$16 597              |              | \$0         | \$16 597   |
| Scarify laydown areas                                               | Accounts for Goose 6,000ft by 200ft airstrip (1,829 m x 61 m = 11.2 ha)                                                                        | ha       | 11.2           | SCFYL          | \$4 373.10               | \$48 979              |              | \$0         | \$48 979   |
| Scarify Winter Ice Roads                                            | Fill sections on land - 15 km x 10 m wide = 15.0 ha; plus 3 ha for WIR Service/Emergency Camps (1 ha/camp x 3)                                 | ha       | 18             | SCFYH          | \$6 132.51               | \$110 385             | 100%         | \$110 385   | \$0        |
| Vegetate                                                            | Potential vegetation of roads to include 18 ha of scarified subbase and camps, plus a nominal area of 3 ha for spill or other road remediation | ha       | 21             | VHFL           | \$4 068.00               | \$85 428              | 100%         | \$85 428    | \$0        |
| Other                                                               | area.                                                                                                                                          |          |                | #N/A           | \$0.00                   | \$0                   |              | \$0         | \$0        |
| SPECIALIZED ITEMS                                                   |                                                                                                                                                |          |                |                | 72.30                    | 70                    |              | 70          | 40         |
| Dispose of misc. debris and laydown area refu                       | ise                                                                                                                                            |          |                | #N/A           | \$0.00                   | \$0                   |              | \$0         | \$0        |
|                                                                     |                                                                                                                                                |          |                |                | Total                    | \$2 502 133           |              | \$2 194 910 | \$307 222  |
|                                                                     |                                                                                                                                                |          |                |                | % of Total               |                       |              | 88%         | 12%        |

Bldgs & Equip 1 of 1

#### Chemicals/Soil Area Name:

Note: The procedures, equipment and packaging for clean up and removal of chemicals or contaminated soils are highly dependent on the nature of the chemicals and their existing state of containment. Government guidelines should be consulted on an individual chemical basis. Any estimate made here should be considered very rough unless specific evaluations have been conducted.

| ACTIVITY/MATERIAL                                      | Notes                                                                                                      | Units       | Quantity | Cost<br>Code | Unit Cost                               | Cost        | % La<br>Land Co |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------|----------|--------------|-----------------------------------------|-------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HAZARDOUS MATERIALS AUDIT                              |                                                                                                            |             |          |              |                                         |             |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| azardous materials audit                               |                                                                                                            | mandays     |          | #N/A         | \$0.00                                  | \$0         |                 | \$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| hase 1 audit                                           |                                                                                                            | each        | 1        | CS1L         | \$7 627.50                              | \$7 628     |                 | \$2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| hase 2 audit                                           | IDATION OF HATABRONS MATERIALS                                                                             | each        | 1        | CS2L         | \$50 850.00                             | \$50 850    | 70% ##          | ## \$15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| UILDING DECONTAMINATION & CONSOL                       | IDATION OF HAZARDOUS MATERIALS                                                                             |             |          |              |                                         |             |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| nvironmental technician/coordinator                    |                                                                                                            | mandays     |          | #N/A         | \$0.00                                  | \$0         |                 | \$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| econtaminate: oil, fuel                                |                                                                                                            | mandays     |          | #N/A         | \$0.00                                  | \$0         |                 | \$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| econtaminate maintenance shop                          |                                                                                                            | mandays     |          | #N/A         | \$0.00                                  | \$0         |                 | \$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| econtaminate power plant                               |                                                                                                            | mandays     |          | #N/A         | \$0.00                                  | \$0         |                 | \$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| econtaminate bulk fuel storage                         |                                                                                                            | mandays     |          | #N/A         | \$0.00                                  | \$0         |                 | \$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| econtaminate ANFO plant                                |                                                                                                            | mandays     |          | #N/A         | \$0.00                                  | \$0         |                 | \$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| econtaminate offices/warehouse/accom                   |                                                                                                            | mandays     |          | #N/A         | \$0.00                                  | \$0         |                 | \$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| emoval of asbestos siding on buildings                 |                                                                                                            | m2          |          | #N/A         | \$0.00                                  | \$0         |                 | \$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| emoval of friable asbestos on equipment                |                                                                                                            | m2          |          | #N/A         | \$0.00                                  | \$0         |                 | \$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ther                                                   |                                                                                                            |             |          | #N/A         | \$0.00                                  | \$0         |                 | \$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| AZARDOUS MATERIALS REMOVAL                             |                                                                                                            |             |          |              |                                         |             |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| /aste oils                                             | Consume in a waste oil burner on-site                                                                      | litre       | 10 000   | ORL          | \$0.44                                  | \$4 373     | 70% ##          | ## \$1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| /aste fuel                                             | Consume on-site to power an incinerator, or in a waste oil burner                                          | litre       | 250 000  | ORL          | \$0.44                                  | \$109 328   | 70% ##          | ### \$32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| /aste batteries                                        | Assumed 10 20-kg batteries generated in the final year of closure                                          | kg          | 200      | PCRH         | \$2.54                                  | \$509       | 70% \$3         | 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ssay & environmental lab reagents                      | ,                                                                                                          | kg          | 500      | PCRH         | \$2.54                                  | \$1 271     | 70% \$8         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| lachine shop paints, solvents etc                      |                                                                                                            | litre       | 200      | PCRH         | \$2.54                                  | \$509       | 70% \$3         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ilycol                                                 |                                                                                                            | litre       | 5 000    | PCRH         | \$2.54                                  | \$12 713    |                 | ## \$3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| rocess reagents                                        |                                                                                                            | kg          | 130 000  | PCRH         | \$2.54                                  | \$330 525   |                 | ## \$99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| rocess reagents                                        | All sludge created and disposed during Operations. In Year 2 (Max                                          | ky          | 130 000  | FUNH         | \$2.54                                  | \$330 323   | 1070 ##         | <del>##</del> \$98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| /TP sludge from Water Treatment                        | PAG Exposure), 3 years of sludge disposal included (9,000 kg over 3 seasons)                               | kg          | 9 000    | PCRH         | \$2.54                                  | \$22 883    | 0%              | \$0 \$22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| uclear sources                                         | 554551107                                                                                                  | allow       |          | #N/A         | \$0.00                                  | \$0         |                 | \$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| lobile Equipment                                       | Remove hazardous waste from equipment not being salvaged, clean, landfill equipment                        | each        | 41       | Sabina       | \$2 318.76                              | \$95 069    | 70% ##          | ### \$28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| IAZARDOUS MATERIALS                                    |                                                                                                            |             |          |              |                                         |             |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ransportation to disposal facility                     | Included in hazardous materials removal cost                                                               | allow       |          | #N/A         | \$0.00                                  | \$0         |                 | \$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| isposal fees                                           | Included in hazardous materials removal cost                                                               | allow       |          | #N/A         | \$0.00                                  | \$0         |                 | \$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ther                                                   |                                                                                                            |             |          | #N/A         | \$0.00                                  | \$0         |                 | \$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ONTAMINATED SOILS                                      |                                                                                                            |             |          |              | 71                                      | ,,,         |                 | •-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ontam. soil investigation - Phase 1                    |                                                                                                            | LS          | 1        | BGC          | \$7 627.50                              | \$7 628     | 100% ##         | ##                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ontam. soil investigation - Phase 2                    |                                                                                                            | LS          | 1        | Sabina       | \$50 850.00                             | \$50 850    |                 | ##                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ONTAMINATED SOIL REMOVAL                               |                                                                                                            |             |          |              | *************************************** | ******      |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| xcavate and transport to onsite facility               |                                                                                                            | m3          | 10 000   | SB1H         | \$6.00                                  | \$60 003    | 100% ##         | ##                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| anage hydrocarbon remediation at facility              | Operate landfarms                                                                                          | m3          | 10 000   | CSRL         | \$47.80                                 | \$477 990   | 100% ##         | ##                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| eagents/stabilizing agent                              | ·                                                                                                          | m2          |          | #N/A         | \$0.00                                  | \$0         |                 | \$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| xcavate and transport to offsite facility              |                                                                                                            | m3          |          | #N/A         | \$0.00                                  | \$0         |                 | \$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ontour decontaminated area                             | Decommission 2 landfarms and confirmation soil sampling; estimated 6,000m3 at each of Goose and MLA sites. | m3          | 12 000   | SB1L         | \$4.37                                  | \$52 477    | 100% ##         | ##                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ONTAMINATED SOIL VERY LOW PERMEA                       |                                                                                                            |             |          |              |                                         |             |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| upply geomembrame, HDPE, ES3, GCL                      |                                                                                                            | m2          |          | #N/A         | \$0.00                                  | \$0         |                 | \$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| pper and lower bedding layers                          |                                                                                                            | m3          |          | #N/A         | \$0.00                                  | \$0         |                 | \$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| stall geomembrane, HDPE, ES3, GCL                      |                                                                                                            | m2          |          | #N/A         | \$0.00                                  | \$0         |                 | \$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| rosion protection layer                                |                                                                                                            | m3          |          | #N/A         | \$0.00                                  | \$0<br>\$0  |                 | \$0<br>\$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| egetate<br>estall infiltration/seepage instrumentation |                                                                                                            | m2<br>allow |          | #N/A<br>#N/A | \$0.00<br>\$0.00                        | \$0<br>\$0  |                 | \$0<br>\$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| istali intiltration/seepage instrumentation<br>Other   | Operate 2 landfarms: 1 at Goose, 1 at MLA                                                                  | allow       | 2        |              | \$0.00<br>\$50 850.00                   | \$101 700   | 100% ##         | \$U<br>###                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| OTHER                                                  | Operate 2 tandidities. 1 at 00056, 1 at MLA                                                                | anow        | 2        | Jabiila      | ψυυ υυυ.υυ                              | φ101700     | 10070 ##        | THE STATE OF THE S |
| _                                                      |                                                                                                            |             |          | #N/A         | \$0.00                                  | \$0         |                 | \$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                        |                                                                                                            |             |          |              | Total                                   | \$1 386 303 |                 | ### \$206                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                        |                                                                                                            |             |          |              | % of Total                              |             | 5               | 5%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

Chemicals 1 of 1

Capital Expenditures and Short Term Water Treatment identified in 'Instructions' worksheet

| ACTIVITY/MATERIAL                                                                  | Notes                                                                                                                                                       | Units    | Quantity  | Cost<br>Code | Unit Cost        | Total Cost  |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|--------------|------------------|-------------|
| BREACH DYKE EMBANKMENT                                                             |                                                                                                                                                             |          |           |              |                  |             |
| Breach Llama Lake Diversion Berms                                                  | Breached in Year 5 when pit becomes Llama TF; removed.                                                                                                      | m3       | -         | #N/A         | \$7.42           | \$0         |
| Breach Llama WRSA Diversion Berm                                                   | Breached in Year 5 when pit becomes Llama TF; removed.                                                                                                      | m3       | -         | #N/A         | \$7.42           | \$0         |
| Breach Llama WRSA Containment Dam                                                  | Breached in Year 5 when pit becomes Llama TF; removed.                                                                                                      | m3       | -         | #N/A         | \$7.42           | \$0         |
| Breach Primary Pond Containment Dam                                                | Breach in Year 3 once Umwelt Pit mining complete and starts<br>as Umwelt Reservoir for saline water; Primary Pond will water<br>will gravity flow directly. | m3       |           | #N/A         | \$0.00           | \$0         |
| Breach Umwelt WRSA Containment Dam                                                 | Berm has been removed from water management design                                                                                                          | m3       | -         | #N/A         | \$0.00           | \$0         |
| Breach Umwelt WRSA Diversion Berm                                                  | Berm has been removed from water management design                                                                                                          | m3       | -         | #N/A         | \$0.00           | \$0         |
| Breach Echo WRSA Containment Dam                                                   | Not in current mine plan; cost remains to keep Stage in tact.                                                                                               | m3       | 190       | #N/A         | \$7.42           | \$1 411     |
| Breach Echo Diversion Berm (East and West)                                         | Not in current mine plan; cost remains to keep Stage in tact.                                                                                               | m3       | 190       | #N/A         | \$7.42           | \$1 411     |
| Breach Echo WRSA Diversion Berm                                                    | Not in current mine plan; cost remains to keep Stage in tact.                                                                                               | m3       | 95        | #N/A         | \$7.42           | \$705       |
| Breach East Echo Containment Dam                                                   | Not in current mine plan; cost remains to keep Stage in tact.                                                                                               | m3       | 95        | #N/A         | \$7.42           | \$705       |
| Breach Goose Main Diversion Berm                                                   | Breached in Year 5 when pit becomes Goose Main Reservoir                                                                                                    | m3       |           | #N/A         | \$7.42           | \$0         |
| Breach Plant Site Pond Containment Dam                                             |                                                                                                                                                             | m3       | 215       | #N/A         | \$7.42           | \$1 596     |
| Breach SWP Containment Dam                                                         | Dewatered to Umwelt Reservoir in Year 3&4; breached in<br>Year 4 of Operations                                                                              | m3       | -         | #N/A         | \$8.14           | \$0         |
| Remove Liner from all berms                                                        | Remove liner from all berms - 50% completed during Operation                                                                                                |          | 15 350    | Sabina       | \$0.71           | \$10 928    |
| Contour water intake area                                                          |                                                                                                                                                             | m3       |           | #N/A         | \$0.00           | \$0         |
| STABILIZE SEDIMENT PONDS/WATER MANAGEMENT PON                                      | DS                                                                                                                                                          |          |           |              |                  |             |
| Place soil cover                                                                   |                                                                                                                                                             | m3       |           | #N/A         | \$0.00           | \$0         |
| Doze & spread excavated material                                                   |                                                                                                                                                             | m3       |           | #N/A         | \$0.00           | \$0         |
| Vegetate spread material                                                           |                                                                                                                                                             | ha       |           | #N/A         | \$0.00           | \$0         |
| Rip rap in channel base                                                            |                                                                                                                                                             | each     |           | #N/A         | \$0.00           | \$0         |
| REDIRECT RUNOFF/CONSTRUCT DIVERSION DITCHES                                        |                                                                                                                                                             | m- 0     |           | #81/4        | #0.00            | **          |
| Excavate ditches -soil Excavate ditches -rock                                      |                                                                                                                                                             | m3       |           | #N/A<br>#N/A | \$0.00           | \$0<br>\$0  |
| Excavate ditches -rock Stabilize side slopes                                       |                                                                                                                                                             | m3<br>m3 |           | #N/A<br>#N/A | \$0.00<br>\$0.00 | \$0<br>\$0  |
| Rip rap in channel base                                                            |                                                                                                                                                             | m3<br>m3 |           | #N/A<br>#N/A | \$0.00           | \$0<br>\$0  |
| BREACH DITCHES                                                                     |                                                                                                                                                             | IIIO     |           | TIN/A        | φυ.υ0            | φυ          |
| Excavate breaches                                                                  |                                                                                                                                                             | m3       |           | #N/A         | \$0.00           | \$0         |
| Install flow dissipation                                                           |                                                                                                                                                             | m3       |           | #N/A         | \$0.00           | \$0         |
| Vegetate remainder of ditch                                                        |                                                                                                                                                             | m2       |           | #N/A         | \$0.00           | \$0         |
| DECOMISSION FRESH WATER SUPPLY                                                     |                                                                                                                                                             | 1112     |           | #14//-X      | ψ0.00            | ΨΟ          |
| Breach embankment                                                                  |                                                                                                                                                             | m3       |           | #N/A         | \$0.00           | \$0         |
| Remove pump                                                                        |                                                                                                                                                             | LS       |           | #N/A         | \$0.00           | \$0         |
| Remove pipelines                                                                   |                                                                                                                                                             | m        |           | #N/A         | \$0.00           | \$0         |
| DECOMISSION WATER RECLAIM BARGE Decommission reclaim barge from Llama TF           |                                                                                                                                                             | LS       | 1         | Sabina       | \$10 170.00      | \$10 170    |
| WATER CONTROL IN RECLAMATION QUARRY                                                |                                                                                                                                                             | LO       |           | Oubina       | ψ10 17 0.00      | Ψ10 170     |
| Install pumping system                                                             |                                                                                                                                                             | LS       |           | #N/A         | \$0.00           | \$0         |
| Remove pumping system                                                              |                                                                                                                                                             | m        |           | #N/A         | \$0.00           | \$0         |
| REMOVE PIPELINES                                                                   |                                                                                                                                                             |          |           |              | 40.00            |             |
| Decommission Llama pump and pipeline                                               |                                                                                                                                                             | m        | 700       | Sabina       | \$18.89          | \$13 221    |
| Decomission WTP-Goose Lake pipeline                                                |                                                                                                                                                             | m        | 1 140     | Sabina       | \$10.17          | \$11 594    |
| Remove Saline Water Pond pump and pipeline                                         | Decommissioned in Year 4 of Operations                                                                                                                      | m        |           | Sabina       | \$18.20          | \$0         |
| Remove Primary Pond pump and pipeline                                              | Decommissioned in Year 4 of Operations                                                                                                                      | m        |           | Sabina       | \$11.22          | \$0         |
| Remove Echo WRSA Pond pump and pipeline                                            | Not in current mine plan; cost remains to keep Stage in tact.                                                                                               | m        | 2 400     | Sabina       | \$10.17          | \$24 408    |
| Remove Echo NCW pond pump and pipeline                                             | Not in current mine plan; cost remains to keep Stage in tact.                                                                                               | m        | 220       | Sabina       | \$24.04          | \$5 288     |
| Remove Plant Site Pond pump and pipeline                                           |                                                                                                                                                             | m        | 4 550     | Sabina       | \$10.17          | \$46 274    |
| Decommission WTP pump and pipeline                                                 |                                                                                                                                                             | m        | 7 520     | Sabina       | \$11.08          | \$83 327    |
| Decommission WTP                                                                   | Two Water Treatment Plants required                                                                                                                         | LS       | 2         | Sabina       | \$9 915.75       | \$19 832    |
| Concrete plug deep pipes                                                           |                                                                                                                                                             | m3       |           | #N/A         | \$0.00           | \$0         |
| Other                                                                              |                                                                                                                                                             |          |           | #N/A         | \$0.00           | \$0         |
| OPERATE WATER TREATMENT PLANT                                                      |                                                                                                                                                             |          |           |              |                  |             |
| Pump from TSF to WTP                                                               | For May acquirity year 2. Detential Water Treatment at TSE                                                                                                  | m3       | 2 100 000 | POCL         | \$0.12           | \$256 284   |
| Treat water in WTP                                                                 | For Max security year 2, Potential Water Treatment at TSF includes 2.1 Mm3 over 3 years.                                                                    | m3       | 2 100 000 | Sabina       | \$0.66           | \$1 388 205 |
| Pump water out of WTP                                                              | • • • • • • • • • • • • • • • • • • • •                                                                                                                     | m3       | 2 100 000 | POCL         | \$0.12           | \$256 284   |
| GROUNDWATER COLLECTION SYSTEM                                                      |                                                                                                                                                             |          |           |              |                  |             |
| Excavate/install sumps                                                             |                                                                                                                                                             | m3       |           | #N/A         | \$0.00           | \$0         |
| Install pumping wells                                                              |                                                                                                                                                             | m3       |           | #N/A         | \$0.00           | \$0         |
| Install pumps/pipelines/power supply                                               |                                                                                                                                                             | LS       |           | #N/A         | \$0.00           | \$0         |
| CONSTRUCT CONTAMINATED WATER STORAGE POND                                          |                                                                                                                                                             |          |           |              |                  |             |
| Excavate pond                                                                      |                                                                                                                                                             | m3       |           | #N/A         | \$0.00           | \$0         |
| Doze & spread excavated material                                                   |                                                                                                                                                             | m3       |           | #N/A         | \$0.00           | \$0         |
| Vegetate spread material                                                           |                                                                                                                                                             | ha       |           | #N/A         | \$0.00           | \$0         |
| Bedding layer                                                                      |                                                                                                                                                             | m3       |           | #N/A         | \$0.00           | \$0         |
| Supply geomembrane                                                                 |                                                                                                                                                             | m2       |           | #N/A         | \$0.00           | \$0         |
| Install geomembrane                                                                |                                                                                                                                                             | m2       |           | #N/A         | \$0.00           | \$0         |
| Erosion protection layer<br>CONSTRUCT PASSIVE TREATMENT SYSTEM (e.g. Construction) | eted (Wetland)                                                                                                                                              | m3       |           | #N/A         | \$0.00           | \$0         |
| Construct access roads                                                             | out Wellald)                                                                                                                                                | km       |           | #N/A         | \$0.00           | \$0         |
| Install HDPE piping system from collection pond                                    |                                                                                                                                                             | m        |           | #N/A<br>#N/A | \$0.00           | \$0<br>\$0  |
| Install HDPE piping system from collection pond Inter-cell flow structures         |                                                                                                                                                             | allow    |           | #N/A<br>#N/A | \$0.00           | \$0<br>\$0  |
| Install liners                                                                     |                                                                                                                                                             | m2       |           | #N/A         | \$0.00           | \$0         |
| Install liners Install growth media                                                |                                                                                                                                                             | m2<br>m3 |           | #N/A<br>#N/A | \$0.00           | \$0<br>\$0  |
| Wetland vegetation                                                                 |                                                                                                                                                             | ha       |           | #N/A<br>#N/A | \$0.00           | \$0<br>\$0  |
| CONSTRUCT WATER TREATMENT PLANT                                                    |                                                                                                                                                             | ria      |           | #14/A        | φυ.υυ            | υψ          |
| Build treatment plant                                                              | Treatment Plant will be constructed as part of operations                                                                                                   | LS       |           | #N/A         | \$0.00           | \$0         |
|                                                                                    |                                                                                                                                                             |          |           |              | Ψ0.00            | ΨU          |
| Build sludge containment facility                                                  |                                                                                                                                                             | LS       |           | #N/A         | \$0.00           | \$0         |

 $For \ details \ of \ long-term/post-closure \ water \ treatment \ see \ "WATER \ TREATMENT" \ Worksheet"; \ costs \ included \ in \ this \ tab.$ 

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#### Interim Care and Maintenance

| ACTIVITY/MATERIAL                   | Notes                                                                | Units     | Quantity | Cost<br>Code | Unit<br>Cost | Total Cost |
|-------------------------------------|----------------------------------------------------------------------|-----------|----------|--------------|--------------|------------|
| INTERIM CARE & MAINTENANCE          |                                                                      |           |          |              |              |            |
| Camp operation                      | Caretaker and summer personnel                                       | mandays   | 306      | Sabina       | 111.87       | \$34 232   |
| On-site staff                       | Caretaker and summer personnel                                       | manhours  | 3060     | ENVCO        | 75.42        | \$230 787  |
| extra personnel                     |                                                                      | manmonths |          | #N/A         | 0            | \$0        |
| -electrician                        |                                                                      | manmonths |          | #N/A         | 0            | \$0        |
| -mechanic                           |                                                                      | manmonths |          | #N/A         | 0            | \$0        |
| annual fuel                         | Fuel for vehicles; fuel for pumping included in water treatment cost | litre     | 5 000    | FCDH         | 1.4136       | \$7 068    |
| misc. supplies                      |                                                                      | allow     | 1        | Sabina       | 20340        | \$20 340   |
| pick-up truck                       |                                                                      | each      |          | #N/A         | 0            | \$0        |
| small dozer                         |                                                                      | allow     |          | #N/A         | 0            | \$0        |
| small excavator                     |                                                                      | allow     |          | #N/A         | 0            | \$0        |
| snow machine                        |                                                                      | allow     |          | #N/A         | 0            | \$0        |
| communications                      |                                                                      | allow     |          | #N/A         | 0            | \$0        |
| SNP/AEMP water sampling & reporting | Sampling and lab costs                                               | each      | 1        | WSH          | 10170        | \$10 170   |
| geotechnical assessment             | Annual geotechnical inspection                                       | each      | 1        | RPTH         | 20340        | \$20 340   |
| interim water treatment             | Captured under Water Treatment                                       | each      | 1        | #N/A         | 0            | \$0        |
| other                               |                                                                      | each      |          | #N/A         | 0            | \$0        |
|                                     |                                                                      |           | Annual   | Interim C    | &M Cost      | \$322 938  |
| Number of years of IC               | CM                                                                   | years     | 3        |              | Total        | \$968 813  |

ICM 1 of 1

#### Post Closure Water Treatment (Not Applicable this scenario)

| MONITORING & INSPECTIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ACTIVITY/MATERIAL - WATER TREATMENT                       | Notes             | Units | Quantity | Cost<br>Code | Unit Cost    | Total Cos   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------|-------|----------|--------------|--------------|-------------|
| Waste Rock Piles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MONITORING & INSPECTIONS                                  |                   |       |          |              |              |             |
| Pit Walls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Fotal geotechnical inspections (1 yearly)                 |                   | year  | -        | #N/A         | \$0.00       | \$0         |
| WR GTC Monitoring   Year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Waste Rock Piles                                          |                   | year  |          | #N/A         | \$0.00       | \$0         |
| Survey inspection   each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Pit Walls                                                 |                   | year  |          | #N/A         | \$0.00       | \$0         |
| Regulatory costs   year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | WR GTC Monitoring                                         | year              |       | #N/A     | \$0.00       | \$0          |             |
| Regulatory costs   year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Survey inspection                                         | each              |       | #N/A     | \$0.00       | \$0          |             |
| Site water monitoring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | • •                                                       |                   |       |          |              |              | \$0         |
| - Active closure and flooding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                           |                   | ,     |          |              |              | \$0         |
| - Post pit flooding - Wildlife Effects Monitoring Program (WEMP) - Year - Wildlife Effects Monitoring Program (WEMP) - Year - Wildlife Effects Monitoring Program (WEMP) - Year - Wildlife Effects Monitoring - Year - Wildlife States Millife States Millif                                                                                                                                                | <u> </u>                                                  |                   |       |          |              |              | \$0         |
| Wildlife Effects Monitoring Program (WEMP)         year         #N/A         \$0.00           Terrestrial Animal Monitoring         year         #N/A         \$0.00           Vegetation Monitoring         each         #N/A         \$0.00           Maintain gravel road surface         each         #N/A         \$0.00           Maintain airstrip surface         each         #N/A         \$0.00           Other         #N/A         \$0.00           COVER MAINTENANCE         Bepair erosion - infill guilles         allow         #N/A         \$0.00           Repair erosion - upgrade diversion ditches         allow         #N/A         \$0.00           Repair erosion - upgrade diversion ditches         allow         #N/A         \$0.00           Repair animal damage         allow         #N/A         \$0.00           Repair/upgrade access controls         allow         #N/A         \$0.00           Cher         by Allow         #N/A         \$0.00           SPILLWAY MAINTENANCE         Bepair erosion         m3         #N/A         \$0.00           Celear spillway         each         #N/A         \$0.00           CVETS MAINTENANCE         Baintain flow, restore vegetation         allow         #N/A         \$0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -                                                         |                   |       |          |              |              | \$0         |
| Terrestrial Animal Monitoring         year         #N/A         \$0.00           Vegetation Monitoring         each         #N/A         \$0.00           Maintain gravel road surface         each         #N/A         \$0.00           Maintain airstrip surface         each         #N/A         \$0.00           COHER         #N/A         \$0.00           COVER MAINTENANCE         #N/A         \$0.00           Repair erosion - infill gullies         allow         #N/A         \$0.00           Repair erosion - upgrade diversion ditches         allow         #N/A         \$0.00           Repair erosion - upgrade diversion ditches         allow         #N/A         \$0.00           Repair animal damage         allow         #N/A         \$0.00           Repair injurgarde access controls         allow         #N/A         \$0.00           Other         #N/A         \$0.00         #N/A         \$0.00           Sepair reosion         m3         #N/A         \$0.00           Clear spillway         each         #N/A         \$0.00           Clear spillway         each         #N/A         \$0.00           CWTS MAINTENANCE         Baintain flow, restore vegetation         allow         #N/A         \$0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                           |                   |       |          |              |              | \$0         |
| Vegetation Monitoring         each         #N/A         \$0.00           Maintain gravel road surface         each         #N/A         \$0.00           Maintain airstrip surface         each         #N/A         \$0.00           Other         #N/A         \$0.00           COVER MAINTENANCE         Whyla         \$0.00           Repair erosion - infill gullies         allow         #N/A         \$0.00           Repair erosion - upgrade diversion ditches         allow         #N/A         \$0.00           Remove problem vegetation         allow         #N/A         \$0.00           Repair animal damage         allow         #N/A         \$0.00           Repair/upgrade access controls         allow         #N/A         \$0.00           Other         #N/A         \$0.00         Whyla         \$0.00           SPILLWAY MAINTENANCE         #N/A         \$0.00           Repair erosion         m3         #N/A         \$0.00           Clear spillway         each         #N/A         \$0.00           CWTS MAINTENANCE         Waintain flow, restore vegetation         allow         #N/A         \$0.00           POST-CLOSURE WATER TREATMENT         LS         1         #N/A         \$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                           |                   | -     |          |              |              | \$0         |
| Maintain gravel road surface       each       #N/A       \$0.00         Maintain airstrip surface       each       #N/A       \$0.00         COVER MAINTENANCE       Repair erosion - infill gullies       allow       #N/A       \$0.00         Repair erosion - upgrade diversion ditches       allow       #N/A       \$0.00         Repair erosion - upgrade diversion ditches       allow       #N/A       \$0.00         Repair erosion - upgrade diversion ditches       allow       #N/A       \$0.00         Repair erosion - upgrade diversion ditches       allow       #N/A       \$0.00         Repair animal damage       allow       #N/A       \$0.00         Repair animal damage       allow       #N/A       \$0.00         Other       #N/A       \$0.00         SPILLWAY MAINTENANCE       #N/A       \$0.00         Repair erosion       m3       #N/A       \$0.00         Clear spillway       each       #N/A       \$0.00         CWTS MAINTENANCE       #N/A       \$0.00         Maintain flow, restore vegetation       allow       #N/A       \$0.00         POST-CLOSURE WATER TREATMENT       **N/A       \$0.00         Annual water treatment cost, from "Water Treatment"       **Wate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                         |                   | •     |          |              |              | \$0         |
| Maintain airstrip surface         each         #N/A         \$0.00           Other         #N/A         \$0.00           COVER MAINTENANCE         Repair erosion - infill gullies         allow         #N/A         \$0.00           Repair erosion - upgrade diversion ditches         allow         #N/A         \$0.00           Repair erosion - upgrade diversion ditches         allow         #N/A         \$0.00           Repair erosion upgrade diversion ditches         allow         #N/A         \$0.00           Repair animal damage         allow         #N/A         \$0.00           Repair/upgrade access controls         allow         #N/A         \$0.00           SPILLWAY MAINTENANCE         Repair erosion         m 3         #N/A         \$0.00           SPILLWAY MAINTENANCE         Repair erosion         m 3         #N/A         \$0.00           CWTS MAINTENANCE         Maintain flow, restore vegetation         allow         #N/A         \$0.00           CWTS MAINTENANCE         Maintain flow, restore vegetation         allow         #N/A         \$0.00           POST-CLOSURE WATER TREATMENT         Annual water treatment cost, from "Water Trea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | •                                                         |                   |       |          |              |              | \$0         |
| Other         #N/A         \$0.00           COVER MAINTENANCE         allow         #N/A         \$0.00           Repair erosion - infill gullies         allow         #N/A         \$0.00           Remove problem vegetation         allow         #N/A         \$0.00           Repair animal damage         allow         #N/A         \$0.00           Repair/upgrade access controls         allow         #N/A         \$0.00           Other         #N/A         \$0.00           SPILLWAY MAINTENANCE         #N/A         \$0.00           Repair erosion         m3         #N/A         \$0.00           Clear spillway         each         #N/A         \$0.00           CWTS MAINTENANCE         Water treatment for tallings pond included under tallings tallow         #N/A         \$0.00           POST-CLOSURE WATER TREATMENT         Water treatment for tallings pond included under tallings tallow         LS         1         #N/A         \$0           Subtotal, Annual post-closure costs         Discount rate for calculation of net present value of post-closure cost, %         0.00%         Value           Number of years of post-closure activity         2         years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | •                                                         |                   |       |          |              |              | \$0         |
| COVER MAINTENANCE  Repair erosion - infill gullies Repair erosion - upgrade diversion ditches Repair animal damage Repair animal damage Allow Repair/upgrade access controls Repair/upgrade access controls Repair/upgrade access controls Repair erosion Repair/upgrade access controls Repair erosion Repair erosion Repair/upgrade access controls Repair/upgrade access controls Repair erosion Repair/upgrade access controls Repair erosion Repair erosio                                                                                                                                                | •                                                         |                   | eacii |          |              |              | \$0         |
| Repair erosion - infill gullies Repair erosion - upgrade diversion ditches Repair erosion - upgrade diversion ditches Repair erosion - upgrade diversion ditches Remove problem vegetation Repair animal damage Repair/upgrade access controls Repair/up                                                                                                                                                |                                                           |                   |       |          | #IN/A        | \$0.00       | φυ          |
| Repair erosion - upgrade diversion ditches  Repair erosion - upgrade diversion ditches  Repair erosion - upgrade diversion ditches  Repair animal damage  allow  #N/A \$0.00  Repair animal damage  allow  #N/A \$0.00  Repair/upgrade access controls  allow  #N/A \$0.00  Cher  #N/A \$0.00  SPILLWAY MAINTENANCE  Repair erosion  m3 #N/A \$0.00  Clear spillway  each  #N/A \$0.00  Clear spillway  each  #N/A \$0.00  CWTS MAINTENANCE  Maintain flow, restore vegetation  Annual water treatment cost, from "Water Treatment"  Water treatment for tailings pond included under tailings tab  LS 1 #N/A \$0  Subtotal, Annual post-closure costs  Discount rate for calculation of net present value of post-closure cost, %  Number of years of post-closure activity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                           |                   |       |          | //51/6       | <b>#0.00</b> |             |
| Remove problem vegetation allow #N/A \$0.00 Repair animal damage allow #N/A \$0.00 Repair animal damage allow #N/A \$0.00 Repair/upgrade access controls allow #N/A \$0.00 Other #N/A \$0.00 SPILLWAY MAINTENANCE Repair erosion m3 #N/A \$0.00 Clear spillway each #N/A \$0.00 Clear spillway each #N/A \$0.00 Clear spillway each #N/A \$0.00 CWTS MAINTENANCE Maintain flow, restore vegetation allow #N/A \$0.00 POST-CLOSURE WATER TREATMENT Annual water treatment cost, from "Water Treatment" water treatment for tailings pond included under tailings tab  Subtotal, Annual post-closure costs Discount rate for calculation of net present value of post-closure cost, % Number of years of post-closure activity  2 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | · ·                                                       |                   |       |          |              |              | \$0         |
| Repair animal damage allow #N/A \$0.00 Repair/upgrade access controls allow #N/A \$0.00 Other #N/A \$0.00 SPILLWAY MAINTENANCE Repair erosion m3 #N/A \$0.00 Clear spillway each #N/A \$0.00 CWTS MAINTENANCE  Maintain flow, restore vegetation allow #N/A \$0.00 POST-CLOSURE WATER TREATMENT  Annual water treatment cost, from "Water Treatment" water treatment for tailings pond included under tailings tab  Subtotal, Annual post-closure costs Discount rate for calculation of net present value of post-closure cost, % Number of years of post-closure activity  Annual water treatment cost, from the present value of post-closure cost, % Number of years of post-closure activity  Annual water treatment cost, from the present value of post-closure cost, % Number of years of post-closure activity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                           |                   |       |          |              |              | \$0         |
| Repair/upgrade access controls Other #N/A \$0.00 Other #N/A \$0.00 SPILLWAY MAINTENANCE Repair erosion #M3 #N/A \$0.00 Clear spillway each #N/A \$0.00 Clear spillway each #N/A \$0.00 CWTS MAINTENANCE Maintain flow, restore vegetation allow #N/A \$0.00 POST-CLOSURE WATER TREATMENT Annual water treatment cost, from "Water Treatment" water treatment for tailings pond included under tailings tab  Subtotal, Annual post-closure costs Discount rate for calculation of net present value of post-closure cost, % Number of years of post-closure activity  #N/A \$0.00 #M/A \$0.00 #N/A \$0.00 #N/A \$0.00 #N/A \$0.00 #N/A \$0.00 #N/A \$0.00 #M/A \$0.00 #N/A \$0.00 #M/A \$0 |                                                           |                   |       |          |              |              | \$0         |
| Other #N/A \$0.00  SPILLWAY MAINTENANCE  Repair erosion m3 #N/A \$0.00  Clear spillway each #N/A \$0.00  CWTS MAINTENANCE  Maintain flow, restore vegetation allow #N/A \$0.00  POST-CLOSURE WATER TREATMENT  Annual water treatment cost, from "Water Treatment" water treatment for tailings pond included under tailings tab  Subtotal, Annual post-closure costs  Discount rate for calculation of net present value of post-closure cost, %  Number of years of post-closure activity  #N/A \$0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                           |                   |       |          |              |              | \$0         |
| SPILLWAY MAINTENANCE  Repair erosion m3 #N/A \$0.00  Clear spillway each #N/A \$0.00  CWTS MAINTENANCE  Maintain flow, restore vegetation allow #N/A \$0.00  POST-CLOSURE WATER TREATMENT  Annual water treatment cost, from "Water Treatment" water treatment for tailings pond included under tailings tab  Subtotal, Annual post-closure costs  Discount rate for calculation of net present value of post-closure cost, %  Number of years of post-closure activity  A \$0.00  #N/A \$0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                           |                   | allow |          |              |              | \$0         |
| Repair erosion m3 #N/A \$0.00 Clear spillway each #N/A \$0.00 Clear spillway each #N/A \$0.00 CWTS MAINTENANCE  Maintain flow, restore vegetation allow #N/A \$0.00 POST-CLOSURE WATER TREATMENT  Annual water treatment cost, from "Water Treatment" water treatment for tailings pond included under tailings tab  Subtotal, Annual post-closure costs Discount rate for calculation of net present value of post-closure cost, %  Number of years of post-closure activity  Annual water treatment of tailings tab  But the substitute of the present value of post-closure cost, %  Output  Discount rate for calculation of net present value of post-closure cost, %  Number of years of post-closure activity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                           |                   |       |          | #N/A         | \$0.00       | \$0         |
| Clear spillway each #N/A \$0.00  CWTS MAINTENANCE  Maintain flow, restore vegetation allow #N/A \$0.00  POST-CLOSURE WATER TREATMENT  Annual water treatment cost, from "Water Treatment" water treatment for tailings pond included under tailings tab  Subtotal, Annual post-closure costs  Discount rate for calculation of net present value of post-closure cost, %  Number of years of post-closure activity  Substitute of #N/A \$0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                           |                   | m2    |          | #NI/A        | ድስ በበ        | \$0         |
| CWTS MAINTENANCE  Maintain flow, restore vegetation allow #N/A \$0.00  POST-CLOSURE WATER TREATMENT  Annual water treatment cost, from "Water Treatment" water treatment for tailings pond included under tailings tab  Subtotal, Annual post-closure costs  Discount rate for calculation of net present value of post-closure cost, %  Number of years of post-closure activity  Annual water treatment for tailings pond included under tailings tab  LS 1 #N/A \$0  0.00%  0.00%  2 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | •                                                         |                   |       |          |              |              | \$0         |
| Maintain flow, restore vegetation allow #N/A \$0.00  POST-CLOSURE WATER TREATMENT  Annual water treatment cost, from "Water Treatment" Water treatment for tailings pond included under tailings tab LS 1 #N/A \$0  Subtotal, Annual post-closure costs  Discount rate for calculation of net present value of post-closure cost, %  Number of years of post-closure activity 2 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                           |                   | eacn  |          | #IN/A        | \$0.00       | φυ          |
| POST-CLOSURE WATER TREATMENT  Annual water treatment cost, from "Water Treatment"  Water treatment for tailings pond included under tailings tab  LS 1 #N/A \$0  Subtotal, Annual post-closure costs  Discount rate for calculation of net present value of post-closure cost, %  Number of years of post-closure activity  Water treatment for tailings pond included under tailings tab  LS 1 #N/A \$0  0.00%  2 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                           |                   | allow |          | #NI/Δ        | 90.00        | \$0         |
| Annual water treatment cost, from "Water Treatment"  Water treatment for tailings pond included under tailings tab  LS 1 #N/A \$0  Subtotal, Annual post-closure costs  Discount rate for calculation of net present value of post-closure cost, %  Number of years of post-closure activity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <u>-</u>                                                  |                   | allow |          | πIN//A       | ψ0.00        | ΨΟ          |
| Discount rate for calculation of net present value of post-closure cost, %  Number of years of post-closure activity  2 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                           |                   | LS    | 1        | #N/A         | \$0          | \$0         |
| Number of years of post-closure activity 2 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Subtotal, Annual post-closure costs                       |                   |       |          |              |              | \$0         |
| · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Discount rate for calculation of net present value of pos | t-closure cost, % |       |          | 0.00%        |              |             |
| Present Value of payment stream                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Number of years of post-closure activity                  |                   |       |          | 2            | years        |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Present Value of payment stream                           |                   |       |          |              |              | \$0         |
| Combined NPV of payment stream \$19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | O                                                         |                   |       |          |              |              | \$1 981 838 |

PostClosure 1 of 5

1 Year

| ACTIVITY/MATERIAL - GEOTECHNICAL                                | Notes                                                                                     | Units | Quantity | Cost  | Unit Cost   | Total Cost |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------|----------|-------|-------------|------------|
| INSPECTIONS OF TSF MONITORING & INSPECTIONS                     |                                                                                           |       | •        | Code  |             |            |
| MONITORING & INSPECTIONS                                        |                                                                                           |       |          |       |             |            |
| Total geotechnical inspections (1 yearly)                       | Annual inspection of the TSF from Closure until embankment breaching in Year 13 (1 year). | year  | 1        | RPTH  | \$20 340.00 | \$20 340   |
| Waste Rock Piles                                                |                                                                                           | year  |          | #N/A  | \$0.00      | \$0        |
| Pit Walls                                                       |                                                                                           | year  |          | #N/A  | \$0.00      | \$0        |
| WR GTC Monitoring                                               |                                                                                           | year  |          | #N/A  | \$0.00      | \$0        |
| Survey inspection                                               |                                                                                           | each  |          | #N/A  | \$0.00      | \$0        |
| Regulatory costs                                                |                                                                                           | year  |          | #N/A  | \$0.00      | \$0        |
| Site water monitoring                                           |                                                                                           | each  |          | #N/A  | \$0.00      | \$0        |
| - Active closure and flooding                                   |                                                                                           | each  |          | #N/A  | \$0.00      | \$0        |
| - Post pit flooding                                             |                                                                                           | each  |          | #N/A  | \$0.00      | \$0        |
| Wildlife Effects Monitoring Program (WEMP)                      |                                                                                           | year  |          | #N/A  | \$0.00      | \$0        |
| Terrestrial Animal Monitoring                                   |                                                                                           | year  |          | #N/A  | \$0.00      | \$0        |
| Vegetation Monitoring                                           |                                                                                           | each  |          | #N/A  | \$0.00      | \$0        |
| Maintain gravel road surface                                    |                                                                                           | each  |          | #N/A  | \$0.00      | \$0        |
| Maintain airstrip surface                                       |                                                                                           | each  |          | #N/A  | \$0.00      | \$0        |
| Other                                                           |                                                                                           |       |          | #N/A  | \$0.00      | \$0        |
| COVER MAINTENANCE                                               |                                                                                           |       |          |       |             |            |
| Repair erosion - infill gullies                                 |                                                                                           | allow |          | #N/A  | \$0.00      | \$0        |
| Repair erosion - upgrade diversion ditches                      |                                                                                           | allow |          | #N/A  | \$0.00      | \$0        |
| Remove problem vegetation                                       |                                                                                           | allow |          | #N/A  | \$0.00      | \$0        |
| Repair animal damage                                            |                                                                                           | allow |          | #N/A  | \$0.00      | \$0        |
| Repair/upgrade access controls                                  |                                                                                           | allow |          | #N/A  | \$0.00      | \$0        |
| Other                                                           |                                                                                           |       |          | #N/A  | \$0.00      | \$0        |
| SPILLWAY MAINTENANCE                                            |                                                                                           |       |          |       |             |            |
| Repair erosion                                                  |                                                                                           | m3    |          | #N/A  | \$0.00      | \$0        |
| Clear spillway                                                  |                                                                                           | each  |          | #N/A  | \$0.00      | \$0        |
| CWTS MAINTENANCE                                                |                                                                                           |       |          |       |             |            |
| Maintain flow, restore vegetation                               |                                                                                           | allow |          | #N/A  | \$0.00      | \$0        |
| POST-CLOSURE WATER TREATMENT                                    |                                                                                           |       |          |       |             |            |
| Annual water treatment cost, from "Water Treatment"             |                                                                                           | LS    |          | #N/A  | \$0.00      | \$0        |
| Subtotal, Annual post-closure costs                             |                                                                                           |       |          |       |             | \$20 340   |
| Discount rate for calculation of net present value of post-clos | sure cost, %                                                                              |       |          | 0.00% |             |            |
| Number of years of post-closure activity                        |                                                                                           |       |          | 1     | years       |            |
| Present Value of payment stream                                 |                                                                                           |       |          |       |             | \$20 340   |

PostClosure 2 of 5

10 Years

| ACTIVITY/MATERIAL - WEMP and TERRESTRIAL              | Notes                                          | Units | Quantity | Cost<br>Code | Unit Cost   | Total Cost |
|-------------------------------------------------------|------------------------------------------------|-------|----------|--------------|-------------|------------|
| MONITORING & INSPECTIONS                              |                                                |       |          |              |             |            |
| Total geotechnical inspections (1 yearly)             |                                                | year  |          | #N/A         | \$0.00      | \$0        |
| Waste Rock Piles                                      |                                                | year  |          | #N/A         | \$0.00      | \$0        |
| Pit Walls                                             |                                                | year  |          | #N/A         | \$0.00      | \$0        |
| WR GTC Monitoring                                     |                                                | year  |          | #N/A         | \$0.00      | \$0        |
| Survey inspection                                     |                                                | each  |          | #N/A         | \$0.00      | \$0        |
| Regulatory costs*                                     |                                                | year  |          | #N/A         | \$0.00      | \$0        |
| Site water monitoring                                 |                                                | each  |          | #N/A         | \$0.00      | \$0        |
| - Active closure and flooding                         |                                                | each  |          | #N/A         | \$0.00      | \$0        |
| - Post pit flooding                                   |                                                | each  |          | #N/A         | \$0.00      | \$0        |
| Wildlife Effects Monitoring Program (WEMP)            | Aquatics - Non-contact water basins (10 years) | year  | 1        | Sabina       | \$4 881.60  | \$4 882    |
| Terrestrial Animal Monitoring                         | Terrestrial Animal Monitoring (10 years)       | year  | 1        | Sabina       | \$24 408.00 | \$24 408   |
| Vegetation Monitoring                                 | 3(1)                                           | each  |          | #N/A         | \$0.00      | \$0        |
| Maintain gravel road surface                          |                                                | year  |          | #N/A         | \$0.00      | \$0        |
| Maintain airstrip surface                             |                                                | year  |          | #N/A         | \$0.00      | \$0        |
| Other                                                 |                                                | ,     |          | #N/A         | \$0.00      | \$0        |
| COVER MAINTENANCE                                     |                                                |       |          |              | •           |            |
| Repair erosion - infill gullies                       |                                                | allow |          | #N/A         | \$0.00      | \$0        |
| Repair erosion - upgrade diversion ditches            |                                                | allow |          | #N/A         | \$0.00      | \$0        |
| Remove problem vegetation                             |                                                | allow |          | #N/A         | \$0.00      | \$0        |
| Repair animal damage                                  |                                                | allow |          | #N/A         | \$0.00      | \$0        |
| Repair/upgrade access controls                        |                                                | allow |          | #N/A         | \$0.00      | \$0        |
| Other                                                 |                                                |       |          | #N/A         | \$0.00      | \$0        |
| SPILLWAY MAINTENANCE                                  |                                                |       |          |              |             |            |
| Repair erosion                                        |                                                | m3    |          | #N/A         | \$0.00      | \$0        |
| Clear spillway                                        |                                                | each  |          | #N/A         | \$0.00      | \$0        |
| CWTS MAINTENANCE                                      |                                                |       |          |              |             |            |
| Maintain flow, restore vegetation                     |                                                | allow |          | #N/A         | \$0.00      | \$0        |
| POST-CLOSURE WATER TREATMENT                          |                                                |       |          |              |             |            |
| Annual water treatment cost, from "Water Treatmer     | nt"                                            | LS    |          | #N/A         | \$0.00      | \$0        |
| Subtotal, Annual post-closure costs                   |                                                |       |          |              |             | \$29 290   |
| Discount rate for calculation of net present value of | post-closure cost, %                           |       |          | 0.00%        |             |            |
| Number of years of post-closure activity              |                                                |       |          | 10           | years       |            |
| Present Value of payment stream                       |                                                |       |          |              |             | \$292 896  |

PostClosure 3 of 5

13 Years (Year 13 to 25)

| ACTIVITY/MATERIAL - Monitoring & Maintenance            | Notes                                                                                            | Units | Quantity | Cost<br>Code | Unit Cost   | Total Cost  |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------|----------|--------------|-------------|-------------|
| MONITORING & INSPECTIONS                                |                                                                                                  |       |          |              |             |             |
| Total geotechnical inspections (1 yearly)               |                                                                                                  | year  |          | #N/A         | \$0.00      | \$0         |
| Waste Rock Piles                                        | Annual inspection of WR piles from closure to post-closure (13 years)                            | year  | 1        | Sabina       | \$8 441.10  | \$8 441     |
| Pit Walls                                               | Annual inspection of pit walls from closure to post-closure (13 years)                           | year  | 1        | Sabina       | \$4 068.00  | \$4 068     |
| WR GTC Monitoring                                       | Umwelt, Llama, and TSF WRSA ground temp cable annual monitoring. No GTCs at Echo WRSA (13 years) | year  | 1        | Sabina       | \$14 644.80 | \$14 645    |
| Survey inspection                                       | , , ,                                                                                            | each  |          | #N/A         | \$0.00      | \$0         |
| Regulatory costs                                        | annual reporting, management plans, progress reports (13 years)                                  | year  | 1        | Sabina       | \$25 425.00 | \$25 425    |
| Site water monitoring                                   | All pits and WR piles closure and post closure monitoring (13 years)                             | year  | 1        | Sabina       | \$9 275.04  | \$9 275     |
| - Active closure and flooding                           |                                                                                                  | each  |          | #N/A         | \$0.00      | \$0         |
| - Post pit flooding                                     |                                                                                                  | each  |          | #N/A         | \$0.00      | \$0         |
| Wildlife Effects Monitoring Program (WEMP)              |                                                                                                  | year  |          | #N/A         | \$0.00      | \$0         |
| Terrestrial Animal Monitoring                           |                                                                                                  | year  |          | #N/A         | \$0.00      | \$0         |
| Vegetation Monitoring                                   |                                                                                                  | each  |          | #N/A         | \$0.00      | \$0         |
| Maintain gravel road surface                            | maintence from closure to post-closure (13 years)                                                | year  | 1        | Sabina       | \$13 882.05 | \$13 882    |
| Maintain airstrip surface                               | maintence from closure to post-closure (13 years)                                                | year  | 1        | Sabina       | \$3 966.30  | \$3 966     |
| Other                                                   |                                                                                                  |       |          | #N/A         | \$0.00      | \$0         |
| COVER MAINTENANCE                                       |                                                                                                  |       |          |              |             |             |
| Repair erosion - infill gullies                         |                                                                                                  | allow |          | #N/A         | \$0.00      | \$0         |
| Repair erosion - upgrade diversion ditches              |                                                                                                  | allow |          | #N/A         | \$0.00      | \$0         |
| Remove problem vegetation                               |                                                                                                  | allow |          | #N/A         | \$0.00      | \$0         |
| Repair animal damage                                    |                                                                                                  | allow |          | #N/A         | \$0.00      | \$0         |
| Repair/upgrade access controls                          |                                                                                                  | allow |          | #N/A         | \$0.00      | \$0         |
| Other                                                   |                                                                                                  |       |          | #N/A         | \$0.00      | \$0         |
| SPILLWAY MAINTENANCE                                    |                                                                                                  |       |          |              |             |             |
| Repair erosion                                          |                                                                                                  | m3    |          | #N/A         | \$0.00      | \$0         |
| Clear spillway                                          |                                                                                                  | each  |          | #N/A         | \$0.00      | \$0         |
| CWTS MAINTENANCE                                        |                                                                                                  | -     |          |              |             |             |
| Maintain flow, restore vegetation                       |                                                                                                  | allow |          | #N/A         | \$0.00      | \$0         |
| POST-CLOSURE WATER TREATMENT                            |                                                                                                  |       |          |              |             |             |
| Annual water treatment cost, from "Water Treatment      | ,                                                                                                | LS    |          | #N/A         | \$0.00      | \$0         |
| Subtotal, Annual post-closure costs                     |                                                                                                  |       |          |              |             | \$79 702    |
| Discount rate for calculation of net present value of p | post-closure cost, %                                                                             |       |          | 0.00%        |             |             |
| Number of years of post-closure activity                |                                                                                                  |       |          | 13           | years       |             |
| Present Value of payment stream                         |                                                                                                  |       |          |              |             | \$1 036 130 |

PostClosure 4 of 5

Beyond Post Closure (Long Term 1 to 5, 7, 10, 15, 25 poste closure)

| ACTIVITY/MATERIAL - Long Term Monitoring           | Notes                        | Units | Quantity | Cost<br>Code | Unit Cost   | Total Cost |
|----------------------------------------------------|------------------------------|-------|----------|--------------|-------------|------------|
| MONITORING & INSPECTIONS                           |                              |       |          |              |             |            |
| General Water Sampling and Stability<br>Monitoring | long term general monitoring | year  | 1        | Sabina       | \$40 680.00 | \$40 680   |
| Waste Rock Piles                                   |                              | year  |          | #N/A         | \$0.00      | \$0        |
| Pit Walls                                          |                              | year  |          | #N/A         | \$0.00      | \$0        |
| WR GTC Monitoring                                  |                              | year  |          | #N/A         | \$0.00      | \$0        |
| Survey inspection                                  |                              | each  |          | #N/A         | \$0.00      | \$0        |
| Regulatory costs                                   |                              | each  | 1        | RPTH         | \$20 340.00 | \$20 340   |
| Site water monitoring                              |                              | year  |          | #N/A         | \$0.00      | \$0        |
| - Active closure and flooding                      |                              | each  |          | #N/A         | \$0.00      | \$0        |
| - Post pit flooding                                |                              | each  |          | #N/A         | \$0.00      | \$0        |
| Wildlife Effects Monitoring Program (WEMP)         |                              | year  |          | #N/A         | \$0.00      | \$0        |
| Terrestrial Animal Monitoring                      |                              | year  |          | #N/A         | \$0.00      | \$0        |
| Vegetation Monitoring                              |                              | each  |          | #N/A         | \$0.00      | \$0        |
| Maintain gravel road surface                       |                              | year  |          | #N/A         | \$0.00      | \$0        |
| Maintain airstrip surface                          |                              | year  |          | #N/A         | \$0.00      | \$0        |
| Other - Site Access                                | Float plane access           | each  | 1        | MWH          | \$9 254.70  | \$9 255    |
| COVER MAINTENANCE                                  | · ·                          |       |          |              |             |            |
| Repair erosion - infill gullies                    |                              | allow |          | #N/A         | \$0.00      | \$0        |
| Repair erosion - upgrade diversion ditches         |                              | allow |          | #N/A         | \$0.00      | \$0        |
| Remove problem vegetation                          |                              | allow |          | #N/A         | \$0.00      | \$0        |
| Repair animal damage                               |                              | allow |          | #N/A         | \$0.00      | \$0        |
| Repair/upgrade access controls                     |                              | allow |          | #N/A         | \$0.00      | \$0        |
| Other                                              |                              |       |          | #N/A         | \$0.00      | \$0        |
| SPILLWAY MAINTENANCE                               |                              |       |          |              |             |            |
| Repair erosion                                     |                              | m3    |          | #N/A         | \$0.00      | \$0        |
| Clear spillway                                     |                              | each  |          | #N/A         | \$0.00      | \$0        |
| CWTS MAINTENANCE                                   |                              |       |          |              |             |            |
| Maintain flow, restore vegetation                  |                              | allow |          | #N/A         | \$0.00      | \$0        |
| POST-CLOSURE WATER TREATMENT                       |                              |       |          |              |             |            |
| Annual water treatment cost, from "Water Tre       | atment"                      | LS    |          | #N/A         | \$0.00      | \$0        |
| Subtotal, Annual post-closure costs                |                              |       |          |              |             | \$70 275   |
| Discount rate for calculation of net present va    | lue of post-closure cost, %  |       |          | 0.00%        |             |            |
| Number of years of post-closure activity           |                              |       | See L    | ong Term     | years       |            |
| Present Value of payment stream                    |                              |       |          |              |             | \$632 472  |

PostClosure 5 of 5

| Annual Discout Rate: 0% |
|-------------------------|
| Annual Discoul Rate: 09 |

| Project Phase | Project Year |           | Post-Closure<br>Monitoring Year | Long Term Monitoring<br>(GTCs, physical, water) |                                        |  |
|---------------|--------------|-----------|---------------------------------|-------------------------------------------------|----------------------------------------|--|
|               |              |           | _                               | One Time<br>Cost                                | Yearly Total<br>NPV                    |  |
|               | 1            |           |                                 |                                                 | \$0                                    |  |
|               | 2            |           |                                 |                                                 | \$0                                    |  |
|               | 3            |           |                                 |                                                 | \$0                                    |  |
|               | 4            | <br> <br> |                                 |                                                 | \$0                                    |  |
|               | 5            |           |                                 |                                                 | \$0                                    |  |
|               | 6            |           |                                 |                                                 | \$0                                    |  |
| Operations    |              |           |                                 |                                                 | \$0                                    |  |
|               |              |           |                                 |                                                 |                                        |  |
|               | 8            | i<br>     |                                 |                                                 | <u>\$0</u>                             |  |
|               | 9            |           |                                 |                                                 | \$0                                    |  |
|               | 10           | i<br>     |                                 |                                                 | \$0                                    |  |
|               | 11           |           |                                 |                                                 | \$0                                    |  |
|               | 12           |           |                                 |                                                 | \$0                                    |  |
| Active        | 13           | 1         |                                 |                                                 | \$0                                    |  |
| Closure       | 14           | 2         |                                 |                                                 | \$0                                    |  |
|               | 15           | 3         |                                 |                                                 | <u>\$0</u>                             |  |
| Deseive       | 16           | 4         |                                 |                                                 | <u>\$0</u>                             |  |
| Passive       | 17<br>18     | 5<br>6    |                                 |                                                 | \$0<br>\$0                             |  |
| Closure       | 19           | 7         |                                 |                                                 | \$0                                    |  |
|               | 20           | 8         |                                 |                                                 | \$0<br>\$0                             |  |
|               | 21           | 9         | 1                               | \$70 275                                        | \$70 275                               |  |
|               | 22           | 10        | 2                               | \$70 275                                        | \$70 275                               |  |
| Post Closure  | 23           | 11        | 3                               | \$70 275                                        | \$70 275                               |  |
|               | 24           | 12        | 4                               | \$70 275                                        | \$70 275                               |  |
|               | 25           | 13        | 5                               | \$70 275                                        | \$70 275                               |  |
|               | 26           | 14        | 6                               |                                                 | \$0                                    |  |
|               | 27           | 15        | 7                               | \$70 275                                        | \$70 275                               |  |
|               | 28           | 16        | 8                               |                                                 | \$0                                    |  |
|               | 29           | 17        | 9                               | <br>  <del></del>                               | \$0                                    |  |
|               | 30           | 18        | 10                              | \$70 275                                        | \$70 275                               |  |
|               | 31<br>32     | 19<br>20  | 11<br>12                        |                                                 | \$0<br>\$0                             |  |
|               | 33           | 21        | 13                              |                                                 | \$0<br>\$0                             |  |
|               | 34           | 22        | 14                              |                                                 | <del>\$0</del>                         |  |
| Beyond Post   | 35           | 23        | 15                              | \$70 275                                        | ************************************** |  |
| Closure       | 36           | 24        | 16                              |                                                 | \$0                                    |  |
|               | 37           | 25        | 17                              |                                                 | \$0                                    |  |
|               | 38           | 26        | 18                              |                                                 | \$0                                    |  |
|               | 39           | 27        | 19                              |                                                 | \$0                                    |  |
|               | 40           | 28        | 20                              |                                                 | \$0                                    |  |
|               | 41           | 29        | 21                              |                                                 | \$0                                    |  |
|               | 42           | 30        | 22                              | <b> </b>                                        | \$0                                    |  |
|               | 43           | 31        | 23                              |                                                 | <u>\$0</u>                             |  |
|               | 44           | 32        | 24                              | <del></del>                                     | \$0<br><del>6</del> 70.375             |  |
| L             | 45           | 33        | 25                              | \$70 275                                        | \$70 275                               |  |
|               |              |           | Net Present Value:              |                                                 | \$632 472                              |  |

#### Mobilization/Demobilization:

| ACTIVITY/MATERIAL                                   | Notes                                                                               | Units            | Quantity       | Cost<br>Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Unit Cost         | Cost        |
|-----------------------------------------------------|-------------------------------------------------------------------------------------|------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|
| MOBILIZE HEAVY EQUIPMENT                            | Assumes mining equipment on abandoned mine site is operable and available.          |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |             |
| Light duty vehicles                                 | Purchase pickups and Vans                                                           | each             |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Telehandlers                                        | Purchase (standby)                                                                  | each             |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Excavators                                          | Purchase (320 Ex)                                                                   | each             |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Dump trucks                                         | Purchase 30T                                                                        | each             |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Dozers                                              | Purchase (D6T)                                                                      | each             |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Grader                                              | Purchase (140M)                                                                     | each             |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Demolition shears                                   | For a 320 Exc                                                                       | each             |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Crane                                               | Purchase                                                                            | each             |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Loader                                              | Purchase (966 Loader)                                                               | each             |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Manlifts                                            | Ourchase (standby)                                                                  | each             |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Small Equipment                                     | ***                                                                                 | LS               |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Compactor                                           |                                                                                     | each             |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| MOBILIZE MISC. EQUIPMENT                            | Assumes mining equipment on abandoned mine                                          | e site is operab | ole and availa | able.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |             |
| Pump shipping                                       | <b>.</b>                                                                            | each             |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Pipe shipping                                       |                                                                                     | m                |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Minor tools and equipment                           |                                                                                     | allow            |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Truck tires                                         |                                                                                     | allow            |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Other                                               |                                                                                     |                  |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| MOBILIZE CAMP                                       |                                                                                     |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                 | *-          |
| Build 20 Person Camp                                | Goose Closure Camp                                                                  | LS               | 1              | Sabina                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | \$19 577.25       | \$19 577    |
| Build 20 Person Power Plant                         | Goose Closure Camp                                                                  | LS               | 1              | Sabina                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | \$19 577.25       | \$19 577    |
| Reclamation activities                              |                                                                                     | allow            |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Long term reclamation activities (eg pump flooding) |                                                                                     | allow            |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| WORKER ACCOMODATIONS                                |                                                                                     | anow             |                | 111111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   | ΨΟ          |
| Camp operation                                      |                                                                                     | mandays          | 12 000         | Sabina                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | \$111.87          | \$1 342 440 |
| Reclamation activities                              |                                                                                     | manmonths        | .2 000         | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Long term reclamation activities (eg pump flooding) |                                                                                     | manmonths        |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| MOBILIZE FUEL                                       |                                                                                     | mammonalo        |                | 111111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   | ΨΟ          |
| Fuel freight - reclamation activities               |                                                                                     | litre            |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Fuel freight - long term reclamation activities     |                                                                                     | litre            |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Oil & Other                                         |                                                                                     | litre            |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Fuel freight accomodations                          |                                                                                     | litre            |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| GENERAL CONSTRUCTION INDIRECT                       |                                                                                     | ilito            |                | π1 <b>3</b> //-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | · ·               | ΨΟ          |
| Tooling, consumables, office & safety supplies      | convered in Summary tab indirects                                                   | mandays          |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| DEMOBILIZE HEAVY EQUIPMENT                          | Some of the Cummary tab maneoto                                                     | manaayo          |                | // <b>(</b> )) <b>(</b> / <b>(</b> // <b>(</b> // <b>(</b> // <b>(</b> )) <b>(</b> / <b>(</b> // <b>(</b> // <b>(</b> // <b>(</b> )) <b>(</b> / <b>(</b> // <b>( (</b> // <b>(</b> )) <b>(</b> / <b>( (</b> // <b>( (</b> )) <b>( ( ( / ( ( ( ( () <b>( ( / ( ( ( ( ( ( ( ( () <b>( ( ( ( ( ( ( ( () <b>( ( ( ( ( ( ( ( ( (</b></b></b></b> | · · ·             | Ψ           |
| Excavators                                          |                                                                                     | km               |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Dump trucks                                         |                                                                                     | km               |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Dozers                                              |                                                                                     | km               |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Demolition shears                                   |                                                                                     | km               |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Crane                                               |                                                                                     | km               |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Loader                                              |                                                                                     | km               |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Compactor                                           |                                                                                     | each             |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Light duty vehicles                                 |                                                                                     | km               |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Other                                               |                                                                                     | km               |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| DEMOBILIZE CAMP                                     |                                                                                     |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | *-          |
| Food and Freight                                    |                                                                                     | kg               | 27 600         | Sabina                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | \$12.20           | \$336 830   |
| Freight                                             |                                                                                     | Lot              | 1              | Sabina                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | \$508 500.00      | \$508 500   |
| Site Services Labor                                 |                                                                                     | hr               | _              | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Mobilization                                        |                                                                                     | tonnes           | 500            | Sabina                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | \$1 525.50        | \$762 750   |
| MOBILZE & DEMOBILIZE WORKERS                        |                                                                                     | 101100           |                | o di bili di                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   | Ψ. σΞ . σσ  |
| Crew travel time - inbound & outbound               | 16 manhours per rotation                                                            | manhours         | 6 864          | lab-sh                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | \$50.44           | \$346 242   |
| Crew transportation - in& outbound from Yellowknife | •                                                                                   | each             | 286            | Sabina                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | \$582.19          | \$166 506   |
| Crew transportation - in& outbound from south       | 28 day rotations - 12,000 man days - 1/3                                            | each             | 143            | Sabina                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | \$1 141.54        | \$163 240   |
| WINTER ROAD                                         | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,                                             |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | ,           |
| Construction and operation                          | Assumes construction and maintance of 2-160 km winter ice roads; once during Active | km               | 320            | WRCL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | \$2 034.00        | \$650 880   |
| Construction and operation                          | Closure and once in approximately Year 18.                                          | MIII             | 320            | WINCL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ψ <b>∠</b> U34.UU | ψυου σου    |
| Limited winter use                                  | 2 a and another approximatory rout to.                                              | km               |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
| Winter road tarriff                                 |                                                                                     | km               |                | #N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | \$0         |
|                                                     |                                                                                     |                  |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Total             | \$4 316 542 |

Mobilization 1 of 1

# **Annex B**

# Comments on draft water licence

CIRNAC has reviewed the draft water licence provided by Sabina on April 19, 2021. Our comments are compiled in the table below.

| Part | Item | Page | Comment                                                                                                                                                                                                                                                                                                                                                               |
|------|------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| А    | 1    | 1-3  | Additions to scope of licence.                                                                                                                                                                                                                                                                                                                                        |
|      |      |      | The additions on page 3, as well as the airstrip at the marine laydown area on page 2, match what was discussed during the amendment review. CIRNAC does not recall discussing changes to include reservoirs or de-watering of additional structures and recommends leaving these additions out.                                                                      |
| E    | 2    | 9-10 | Removal of condition to provide revised Water Management<br>Plan within 60 days of Minister approval to replace it with a<br>modified repetition of condition 1.                                                                                                                                                                                                      |
|      |      |      | During the technical meeting, as noted in the list of commitments found in the Pre-hearing Conference Decision Report, Sabina committed to providing updated management plans, including the water management plan 90 days prior to initiation of proposed activity or within 2021 Annual Report. CIRNAC recommends the commitment be captured in an amended licence. |
| Е    | 3    | 10   | Modification of maximum water use quantities from Goose and Big Lakes.                                                                                                                                                                                                                                                                                                |
|      |      |      | The modifications match the amendment application. CIRNAC agrees with the proposed change.                                                                                                                                                                                                                                                                            |
| E    | 5    | 10   | Modification of maximum water use quantities for the winter ice road.                                                                                                                                                                                                                                                                                                 |
|      |      |      | The modifications match the amendment application. CIRNAC agrees with the proposed change.                                                                                                                                                                                                                                                                            |



| Part        | Item | Page | Comment                                                                                                                                                          |
|-------------|------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Е           | 15   | 11   | Replacement of condition to submit an updated Water and Load Balance Model, with condition to submit updated hydrodynamic model.                                 |
|             |      |      | CIRNAC prefers the wording of commitment #6 in the Pre-<br>Hearing Conference Report list of commitments, then Sabina's<br>proposal in this draft water licence. |
| Sched.<br>B | new  |      | CIRNAC recommends integrating Sabina's commitment for an annual comparison of measured groundwater inflow rates to model predictions.                            |

