# **Appendix N**

Financial Security Cost Estimate Methodology and **Assumptions** 

Meliadine Interim Closure and Reclamation Plan – Update 2020		Original -V.03
2021/04/078	674942-4000-4EER-0002	Technical Report



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**Meliadine – ICRP Update 2020 – Financial Security Cost Estimate** Title of document: **Methodology and Assumptions** 

AGNICO EAGLE MINES LTD. Client:

**Project:** Meliadine Interim Closure and Reclamation Plan - Update 2020

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#### LIST OF REVISIONS

		Revis	sion		Pages Revised	Remarks
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PB	AL	EV/SP	EV	2020-07-16	All	Issue for client's comments
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SNC-Lavalin has, in preparing estimates, as the case may be, followed accepted methodology and procedures, and exercised due care consistent with the intended level of accuracy, using its professional judgment and reasonable care, and is thus of the opinion that there is a high probability that actual values will be consistent with the estimate(s). Unless expressly stated otherwise, assumptions, data and information supplied by, or gathered from other sources (including the Client, other consultants, testing laboratories and equipment suppliers, etc.) upon which SNC-Lavalin's opinion as set out herein are based have not been verified by SNC-Lavalin; SNC-Lavalin makes no representation as to its accuracy and disclaims all liability with respect thereto.

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#### 1.0 Introduction

Agnico Eagle Mines Limited (Agnico Eagle) is operating the Meliadine Gold Project (the Project), located approximately 25 km north of Rankin Inlet, and 80 km southwest of Chesterfield Inlet in the Kivalliq Region of Nunavut. The mine plan includes open pit and underground mining methods for the development of the Tiriganiag gold deposit, with two (2) open pits (Tiriganiag Pit 1 and Tiriganiag Pit 2) and one (1) underground mine.

Agnico Eagle is required to submit a detailed financial security cost estimate for the Meliadine Gold Project Interim Closure and Reclamation Plan (ICRP) to Indigenous and Northern Affairs Canada (INAC) and to the Kivalliq Inuit Association (KIA) to support land use and water licensing requirements. RECLAIM 7.0 workbook has been used for this estimate, as per Guidelines for Closure and Reclamation Cost Estimates for Mines, issued by Indigenous and Northern Affairs Canada, Mackenzie Valley Land and Water Board and the Government of the Northwest Territories (INAC, MVLWB, GNWT, 2017).

Only the activities covered under the Meliadine Type A Water License 2AM-MEA1631 are included in the updated Meliadine ICRP 2020 and in the herein financial security cost estimate methodology. The Meliadine ICRP – update 2020 (Meliadine ICRP 2020) presents the version 3 of the Interim Closure and Reclamation Plan for the development phase of the Meliadine Gold Project. Agnico Eagle proceeded, starting in August 2020, to the Amendment process of the Meliadine Water Licence 2AM-MEL1631. The general purpose of the Meliadine ICRP 2020 is to update the interim closure and reclamation plan produced for the development phase of the Project, including the activities part of the Meliadine Water Licence Amendment, which are included in the Meliadine FEIS and Meliadine Project Certificate n.006. The financial security cost estimate presented herein includes those additional activities, in addition to the elements included in the previous version of the cost estimate (SLI, 2019a).

This last version of the ICRP and the financial security cost estimate includes the modifications discussed between Agnico Eagle, the Kivalliq Inuit Association (KivIA) and the Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) for the Meliadine closure and reclamation and reflects the agreements between the parties.

#### 2.0 Closure Measures and Considerations

The cost estimate in this technical note covers the closure and reclamation of all facilities currently identified within the Meliadine Gold Project property including the following:

- Open pits (Tiriganiag 1 and Tiriganiag 2);
- > Underground mine;
- Tailings Storage Facility (TSF);
- Waste Rock Storage Facilities (WRSF1 and WRSF3);
- Support facilities on the property including accommodations and services building, process plant (mill) and contractor facilities, power plant, water and wastewater treatment facilities, bulk fuel storage facilities, contractor facilities, warehouses and cold storage, assay lab, emulsion plant, paste plant, incinerators, laydown areas, including the P-Area laydown facilities, guarries and borrow areas and onsite roads;
- Roads to future operation area, included in the Meliadine FEIS;
- Rankin Inlet Site Facilities (Itivia Harbor);
- All Weather Access Road (AWAR);
- > Bypass Road, from Itivia Harbor to the AWAR (bypassing Rankin Inlet).



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The present updated Meliadine ICRP 2020 and cost estimate are based on the current Life of Mine (LOM) of Meliadine, including the mining and supporting activities planned, as well as the activities related to the ore processing and tailings deposition.

The cost estimate provides for the closure measures described in detail in the Meliadine ICRP 2020. Most closure activities will occur within the active closure period, from 2028 to 2030. The schedule of closure activities presented in Appendix O of the Meliadine ICRP 2020 outlines the major reclamation activities and their expected timeline.

For the purpose of this financial security cost estimate, progressive rehabilitation measures are not considered in the calculations. Only when completed, these will have to be considered in future versions of the ICRP.

#### 3.0 Cost Estimate

#### 3.1 Model

RECLAIM is a model developed in Microsoft Excel used to calculate the estimation of reclamation costs for mine sites in Northern Canada. It provides line items for each reclamation activity which might be required at a given site. For each, the model presents the "quantity" of work multiplied by the appropriate "Unit Cost" provided in the model or based in past or current Agnico Eagle experience (i.e. from Amaruq, Meliadine or Meadowbank projects).

RECLAIM version 7.0 consists of eleven (11) reclamation costing worksheets used to compute the overall closure cost estimate. These include direct costs associated with the following mine components:

- > Open pit;
- > Underground mine;
- > Tailings Storage Facilities:
- > Rock pile;
- > Building and equipment (for the Meliadine site and Itivia Harbor, including transportation roads);
- > Chemicals, hazardous materials and contaminated soils;
- > Water treatment;
- > Water management;
- > Interim care and maintenance.

It also includes the following indirect costs:

- > Closure and post-closure monitoring and maintenance;
- > Mobilization and demobilization.

Additional cost factors such as engineering, project management, health and safety / QA-QC / Engagement, bonding/insurance and contingency are automatically calculated in the cost summary worksheet, based on applied percentages to the total direct cost.

#### 3.2 Summary of Costs



The updated 2020 estimated closure and reclamation costs for the Meliadine Gold Project using RECLAIM Version 7.0 represents a total of \$69,687,246. This total includes \$40,887,775 of direct costs and \$28,799,471 of indirect costs. The costs are summarized in Table 3-1 presented below.



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Cost Items	Subtotal (Land and Water
	Liability)
Direct Costs	<b>***</b> • • • • • • • • • • • • • • • • • •
Open Pit	\$2,040,399
Tiriganiaq Pit 1	\$1,651,272
Tiriganiaq Pit 2	\$389,127
Underground Mine	\$1,096,384
Control Access	\$612,004
Remove Hazardous Materials	\$434,380
Instrumentation	\$50,000
Tailings Storage Facility	\$5,081,950
Rock Piles	\$307,350
WRSF1	\$247,350
WRSF3	\$60,000
Buildings and Equipment	\$20,247,209
Meliadine site	\$18,543,870
Itivia Harbor, AWAR and Bypass Road	\$1,703,339
Chemicals and Contaminated Soil Management	\$2,359,406
Surface and Groundwater Management	\$4,460,458
Interim Care and Maintenance	\$5,294,620
Subtotal Direct Costs	\$40,887,775
Indirect Costs	
Mobilization / Demobilization	\$6,961,400
Closure monitoring and Maintenance	\$3,216,591
Post-Closure and Maintenance	\$5,946,270
Engineering (5 %)	\$2,044,389
Project Management (5 %)	\$2,044,389
Health and Safety Plans / Monitoring / QA-QC and	<u></u>
Engagement Costs (2 %)	\$817,755
Bonding / Insurance (1 %)	\$408,878
Contingency (18 %)	\$7,359,800
Market Price Adjustment (0 %)	\$0
Subtotal Indirect Costs	\$28,799,471
GRAND TOTAL	\$69,687,246



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Refer to **Appendix A** for the RECLAIM spreadsheets, presenting the detailed breakdown of closure and reclamation costs by mine components.

The methodology and assumptions used for the calculations of the direct costs and the indirect cost calculations are explained in the sections below.

The reclamation cost estimate presented in the Meliadine ICRP (674942-4000-4EER-0002-00, July 30th 2020) was reviewed and discussed by Agnico Eagle, CIRNAC and KivIA during meetings held on December 11th 2020 and December 18th 2020. The files received from CIRNAC (30062357 Meliadine F2020 RECLAIM Post Closure 7 yr VerR2 07-nov-2020.xlsm. received December 7th. 2020) and from (Copy KivIA KivIA Updated Security Dec 9 2020.xlsx, received December 10th, 2020) were reviewed. Based on the agreements between the parties, modifications were completed in the ICRP estimate presented herein (ICRP 2020 V01, presented in 674942-4000-4EER-0002-01, January 19, 2021). The list of modifications completed can be found in Appendix A. The methodology and assumptions presented below reflect those changes.

Note that the liability repartition (land versus water) presented in the RECLAIM spreadsheets of **Appendix A** does not represent the repartition agreed between the parties for the financial security.

The key differences between this cost estimate and the cost estimate prepared for the 2019 ICRP (SLI, 2019a) are presented in section 4.0.

#### 3.3 Direct Cost Assumptions

The direct costs include the cost related to the physical work activities to be completed for the various project components, as well as the interim care and maintenance requirements.

In most cases, costs have been developed using unit rates provided by the RECLAIM 7.0 template applied to calculated quantities. Where an appropriate RECLAIM supplied rate was not available, an independent rate was used from operational data or from precedent data for similarly sized AEM projects located in comparable conditions. In this case, Meliadine, Meadowbank and Amaruq (SLI, 2019a, SLI, 2020a and AEM, 2016) sites were mainly used as comparable projects. Unit rates used assume third party contractor pricing.

The methodology and assumptions used for the financial cost estimate are provided for each closure component in sections 3.3.1 to 3.3.8. Specific quantities and unit rates used for each item can also be found in the RECLAIM spreadsheets available in **Appendix A**, if not specified below. For the site general arrangement plan and road layouts, refer to **Appendix B**. As-builts and design drawings are available in **Appendix Q** of the Meliadine Interim Closure and Reclamation Plan – Update 2020.

#### 3.3.1 Open Pits

The entrance (access ramp) and the perimeter of each pit will be blocked with non-acid generating (NPAG) berms to control access of wildlife and motorized vehicles in the open pits during flooding. Berms are assumed to be 1 m high and 1 m wide at crest, with 1.5 H:1V side slopes and made on NPAG rockfill.

#### Berms at ramp entrance and at the perimeter of Tiriganiaq Pit 1

- > Berm around perimeter 2523 m long x 1 m tall with 1.5 H:1V side slopes = 6308 m<sup>3</sup>;
- > Rock barricade at ramp access Assuming a 2 m thick rockfill barricade, a 20 m wide ramp access and a 1.5H:1V front and back slopes = 320 m³;
- > Installation of one sign every 150 m around the pit for a total of 17 signs.



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#### Berms at ramp entrance and at the perimeter of Tiriganiaq Pit 2

- > Berm around perimeter 1134 m long x 1 m tall with 1.5 H:1V side slopes = 2835 m<sup>3</sup>;
- > Rock barricade at ramp access Assuming a 2 m thick rockfill barricade, a 20 m wide ramp access and a 1.5H:1V front and back slopes = 320 m³;
- > Installation of one sign every 150 m around the pit for a total of 8 signs.

#### Pit Flooding

Following the completion of mining, the open pits will be flooded with water for over a period of three (3) years. Flooding will be achieved primarily by active pumping from Meliadine Lake, with the planned pumping period during the open water season of each year. Preliminary annual flooding rates for each pit are approximately 3.07 Mm³/year and 0.75 Mm³/year for Tiriganiaq Pit 1 and Tiriganiaq Pit 2, respectively. The total water pumped from Meliadine Lake in Tiriganiaq Pit 1 is 9.2 Mm³ and 2.25 Mm³ in Tiriganiaq Pit 2.

#### **Pumping Station**

- > Supply and install the pumping station required for pit flooding, based on 2019 Whale Tail Security (AEM, 2019f) for 800,000 \$;
- > Stationary pumping equipment will be removed, based on 2019 Whale Tail Security (AEM, 2019f) for 10.000\$;
- > Installation and removal of 5 km of piping from the freshwater intake to the pits. It was assumed the pipes are already on site and will be re-used for pits flooding, hence new pipes would not require to be supplied on site.
- > Removal of sump pumps from the pit (one for each pit) before the beginning of the flooding operations.

#### **Pumping System Maintenance**

- > Pumping system maintenance by two (2) skilled laborers over 3 years, 12 hours per day, during the four (4) months open water season. Accommodation is also considered for the two (2) laborers;
- > Annual pump servicing by two (2) manufacturer consultants once a year for a seven (7) days trip, 12 hours per day. Accommodation is also considered for the two (2) consultants;
- > Pumping costs to pump Meliadine Lake water into Tiriganiaq Pit 1 and Tiriganiaq Pit 2 based on Meadowbank pumping costs (SLI, 2020a) of \$0,0265 per cubic meter of water.

Capital and annual costs for pits flooding have been divided between Tiriganiaq Pit 1 and Tiriganiaq Pit 2 in relation with water volume to be pumped into each pit (80 % of water will be pumped in Tiriganiaq Pit 1 and 20% in Tiriganiaq Pit 2).

#### 3.3.2 Underground Mining

The underground mine workings will be flooded at closure by natural groundwater inflows. Openings and access to the underground mine works will be capped. The ground surface around the sealed surface opening will be contoured to minimize natural surface water accumulation to flow into the underground.

#### **Control Access and Backfill**

The main works for the closure of underground are:



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- Removal of Portal #1 (TTOG STEEL) 100 m long with a diameter of 6.3 m for 1980 m<sup>2</sup> of steel that will be cut and disposed in the landfill. Unit cost for salvaging steel buildings was used for the estimation of Portal #1 removal;
- Removal of Portal #2 (concrete) 131 m long with a diameter of 8.0 m for 3,300 m<sup>2</sup> of concrete wall that will be disposed in the landfill. Unit cost for the breaking of concrete foundation of buildings was used for the estimation of Portal #2 removal;
- Backfill and contour of Portal #1 for 12.600 m3:
- Backfill and contour of Portal #2 for 26,100 m3;
- Capping of four (4) raises with concrete, two (2) used as underground exhaust and two (2) used for fresh air. Based on SNC-Lavalin experience in similar Northern projects, a lump sum of \$20,000 per raise was assumed, for a total of 80,000 \$.

#### **Hazardous Materials Removal**

The cost estimation for the hazardous materials removal includes:

- > Removal of hazardous materials from underground Assuming two (2) laborers will work 12 hours per day during a three (3) months period (2,160 hours) for a total of 367,200 \$;
- Removal and decontamination of stationary and electric equipment Nine (9) stationary equipment that will require 8 hours each to be decontaminated, for a total of 3,528 \$;
- Removal and decontamination of underground mobile equipment Decontamination of 156 mobile equipment, 8 hours per equipment, for a total of 61,152 \$ (refer to Appendix C for complete list of equipment);
- Removal of miscellaneous and hazardous materials— It is assumed that 250 kg of such material will remain underground at the beginning of the closure operation at 10 \$ per kg based on past SNC-Lavalin's experience, for a total of 2,500 \$.

#### Instrumentation

In addition to the instrumentation placed during operation, it is assumed that additional instrumentation will be supplied and installed for monitoring of underground during closure and post-closure. A provision of 50,000 \$ is accounted for additional instrumentation.

#### 3.3.3 Tailings Storage Facility

The dry stack tailings produced in the mill will have a solids content of 85% and a water content of 17% by mass. The TSF will be located on the high ground west of the mill. The direct distance from the mill to the tailings pile ranges from 300 to 900 m.

Approximately 12.1 Mt of tailings will be produced during life of mine. Of this amount, about 9.7 Mt or 80% of the tailings will be deposited in the TSF with the remaining 2.4 Mt or 20% being used for the underground backfill.

Filtered tailings will be managed using a two-cell placement system and incorporating a progressive closure of waste rock cover as placement advances. The TSF cover has the objectives of controlling erosion and dust generation, in addition to enhancing the freeze-back capabilities of the facility. As presented in the Waste Management Plan (AEM, 2019), waste rock cover material over the slope of the facility will be placed progressively on the TSF slopes as the filtered tailings is brought up, mainly for stability and dust control.

For closure, it has been assumed that TSF slopes will be entirely covered during operation, leaving only the top surface of the cells to be covered. It is planned to cover the top surface of the TSF with 0.5 m of overburden overlaid



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with 2.5 m thick waste rock. It is assumed that the required overburden material source will be the planned temporary overburden stockpile and the waste rock will come from the WRSF1.

#### Tailings cover

Based on the detailed Deposition Plan of the Tailings Storage Facility (AEM, 2019a), the top surface of the TSF (2 cells) will have a final area of 15.4 ha, resulting in the placement of 77,000 m³ of overburden at 5.10\$/m³ and 385,000 m³ of waste rock at 12.05\$/m³ to complete the TSF reclamation.

#### Instrumentation

It was assumed that five (5) additional permanent instruments will be supplied and installed in the TSF for post-closure monitoring. Supply and installation of a single instrument was considered to be 10,000 \$, based on Meadowbank instrumentation installation.

#### 3.3.4 Waste Rock and Overburden Storage Facilities

Waste rock from the open pits and underground mining that will not be used for site development purposes will be transported to the waste rock storage facilities (WRSFs) until the end of mining. Two (2) WRSFs are planned for the Project: WRSF1 and WRSF3. With the start of operations, additional surface laydown and storage space in a centralized location to the portals and open pits was required. The footprint of the former WRSF2 was chosen to provide this additional storage area and the WRSF3 footprint has been extended. Overburden material stripped as part of the mine development will either be co-disposed within the WRSFs or be stored within the temporary overburden stockpile facility for later use as TSF closure cover material. Non-potentially acid generating (NPAG) and non-metal leaching (NML) material will be used for TSF cover.

The cost estimate assumes that part of WRSF 1 will be used as potential borrow material for the TSF reclamation and for the construction of the perimeter berms around the open pits. WRSF 1 will hence require to be regraded and contoured to ensure long term stability.

Permanent instrument supply and installation were also considered in the estimate for the WRSFs.

#### **Gradation and contouring of WRSF 1**

Grading of waste rock assuming a quantity equal to 1.0 m over the entire area of the last bench of WRSF 1 (ha assuming 50% of WRSF1 footprint, i.e. 41.4 ha

#### Instrumentation

> Three (3) and six (6) additional permanent instruments will respectively be supplied and installed in the WRSF 1 and WRSF 3 in closure: 3 x 10,000 \$ = 30 000 \$ for WRSF 1 and 6 x 10,000 \$ = 60 000 \$ for WRSF 3 respectively, based on Meadowbank instrumentation installation (SLI, 2020a). Three (3) additional instruments in WRSF 3 have been added to take into account its larger size, as WRSF2 is no longer considered.

#### 3.3.5 Buildings and Equipment

The footprints of buildings, infrastructures and facilities for Meliadine and Itivia Harbor were reviewed and adjusted. All the dimensions are presented in Table 3-2. The changes were communicated by AEM in 2019 and in June 2020 for the new infrastructures. Refer to **Appendix B** for the general site arrangement and road layouts.



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The area of each buildings has been scaled by the ratio of the total height over an average of 3 m height. Scaled footprints are also presented on Table 3-2.

**Table 3-2: Buildings List and Dimensions** 

<u> </u>					
Buildings / Infrastructures	Footprint (m²)	Height (m)	Stories (3 m high)	Total Demolition Scaled for Height (m²)	Concrete Foundation (m²)
Accomodation Complex	10,610	4.5	1.5	15,915	
Multi Services Building (Mine Surface General)	3,995	16.1	5.4	21,454	3,995
Core Shack	1,750	9.8	3.3	5,705	1,750
Main Building Process Plant	12,420	35.8	11.9	148,212	12,420
Crusher and Conveyor	1,524	-	-	1,524	698
Sewage Water Treatment Plant	171	5.5	1.8	311	
Effluent Water Treatment Plant	392	9.0	3.0	1,182	392
Saline Water Treatment Plant	1,897	15.5	5.2	967	1,897
Potable Water Treatment Plant	59	2.7	0.9	54	
Emulsion Plant and Garage	439	5.8	1.9	851	189
Fuel Tanks on-site	807	14.0	4.7	3,768	
Power Plant	1,976	14.3	4.8	9,392	2,566
Paste Plant	660	16.5	5.5	3,630	660
Guard House	37	3.0	1.0	37	
Incinerator Building	190	8.4	2.8	533	190
Maintenance Shop	3,279	5.8	1.9	6,285	
Exploration Camp	4,257	3.0	1.0	4,257	
Raises Building	770	8.4	2.8	2,156	239
Communication Tower	12	61.0	20.3	247	6
Batch Plant	1,105	8.2	2.7	3,013	
Tire Shop	70	5.8	1.9	134	70
Wash Bay*	325	9	3	976	325(1)
KCG Temporary*	557	9	3	1,673	557 <sup>(1)</sup>
KCG Permanent*	912	9	3	2,738	912 <sup>(1)</sup>
Fuel Tanks (Itivia)	4, 918	3.0	1.0	4,918	4,918
Saline Water Tank (Itivia)	23	3.0	1.0	23	

<sup>\*</sup> Additional buildings included in the Water Licence Amendment.

Note: Concrete foundation area for demolition of the additional buildings related to the Water Licence Amendment was based on the CIRNAC 2020 Reclamation Cost Estimation using a total area of 1974.74 m², as agreed upon with Agnico Eagle.

Source: AEM communication (2019, 2020)



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#### Removal of buildings and scarification of foundations

- Building footprints are listed in Table 3-2 with demolition areas scaled for heights assuming 3 m stories. The low unit cost was selected since it was assumed that all demolition waste from buildings demolition will be disposed in the on-site landfill. High unit cost was selected for the main building of the process plant and the fuel tanks because of the more complex demolition expected due to the height, size and components of the infrastructures;
- > Removal of concrete structures and foundations considered at 1 m below the final ground surface based on building concrete foundations listed on Table 3-2;
- > Grading and contouring of building pads is included, using the building footprint with an additional 10 % contingency to consider for larger pads. A unit cost of 8.47 \$ per m³ was selected based on Agnico Eagle cost in similar projects (AEM, 2015b, 2016 and SLI, 2019a).

#### **Landfill reclamation**

Based on the preliminary closure and reclamation plan (AEM, 2015a) and the Landfill and Waste Management Plan (AEM, 2019c), the landfill is expected to be covered with a 3.7 m thick waste rock layer. Assuming a surface of 7,750 m<sup>2</sup> that will require to be covered (Tetra Tech, 2017j), 28,675 m<sup>3</sup> of waste rock will have to be placed for landfill reclamation.

#### Ore pad reclamation

A total area of 15.9 ha (including the original ore pad of 10.3 ha and the extension of 5.6 ha) will require to be graded and contoured, considering 1m thick, at a unit cost of 8.47 \$ per m<sup>3</sup> for the ore pad reclamation. This unit cost was selected based on past Agnico Eagle experience (AEM 2015b. 2016 and SLI, 2019a).

#### Pads and staging areas

- > Laydown areas for containers (sea cans) which represents a total area of 51,562 m<sup>2</sup> will require to be graded and contoured at a unit cost of 8.47 \$ per m3. This unit cost was selected based on past Agnico Eagle experience (AEM 2015b, 2016 and SLI, 2019a).
- An approximate total area of 12.5 ha for additional pads and staging areas (within the P-area laydown) will require to be graded and contoured, considering 1m thick, at a unit cost of 8.47 \$ per m³ for the ore pad reclamation. This unit cost was selected based on past Agnico Eagle experience (AEM 2015b. 2016 and SLI, 2019a).

#### Reclaim roads areas at Meliadine site and to future deposits

- > Approximately 15 km of on-site roads (access and haul roads) will require to be scarified. Assuming that the average width of on-site road is 12 m, an area of 18 ha will be scarified;
- > A total of 16 culverts were installed on Meliadine site (AEM, 2020d). A unit cost of 4,000 \$ was considered for the removal of a culvert, based on the ICRP 2019 of Meadowbank site (SLI, 2020a);
- Approximately 15.8 km of road to Discovery pit will require to be scarified. Assuming that the average width of off-site road is 17 m, an area of 26.86 ha will be scarified. A total of four (4) water crossing including four (4) culverts each will be removed. A lump sum of \$4000 per culvert removal is accounted for in the calculation, based on the ICRP 2019 of Meadowbank site (SLI, 2020a). A total of sixteen (16) culverts are considered to be removed for the Discovery road. A small pad will be scarified and a boat launch will be removed along the Discovery Road.



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> Approximately 9.25 km road to the future operation areas (deposits) will require to be scarified. Assuming an average width of 17 m, an area of 15,73 ha will be scarified.

#### Itivia Harbor Area

- > Footprints of the infrastructures located at Itivia Harbor are listed in Table 3-2. It was assumed that all infrastructures of Itivia Harbor are one-story buildings. Low unit cost was selected since it is assumed that all demolition waste from Itivia's buildings demolition will be disposed off-site;
- > Removal and/or burial of concrete structures and foundations to 1 m below the final ground surface based on building concrete foundations listed on Table 3-2. It was assumed that the fuel tanks will have a concrete foundation to be removed;
- > Grading and contouring of pads for infrastructures is included for the fuel tanks (1.63 ha) and the saline water tank (for trucked water), considering 1m thick. A unit cost of 8.47 \$ per m³ was selected based on past Agnico Eagle experience (AEM, 2015b and 2016, SLI, 2019a);
- > Laydown areas for containers (sea cans) disposal represents a total area of 66,800 m<sup>2</sup>, considering 1m thick, will require to be graded and contoured at a unit cost of 8.47 \$ per m<sup>3</sup>. This unit cost was selected based on past Agnico Eagle experience (AEM, 2015b and 2016, SLI, 2019a);
- > Lump sum of 50,000 \$ is assumed for the reclamation of the floating dock, including the demobilization of the portable crane located at Itivia Harbor.

#### **Reclaim Quarries**

- Quarry slopes setback to 1H:1V slope, assuming cut/fill with blasted rock from the upper slope used to form lower slope;
- > The 2019 ICRP of Meadowbank (SLI, 2020a) estimated that a total volume of 14,319 m³ of blasted rock would be required for the reclamation of 22 quarries. The same order of magnitude was assumed for Meliadine, with a similar number of quarries to be reclaimed, i.e. 18 quarries (15 quarries along the AWAR and 3 quarries on site) (AEM, 2018b).

#### AWAR and Bypass Road

- > The AWAR road surface will have to become impassable for vehicles (i.e. cars and trucks) by ripping (scarification) of its 23.8 km long road bed (AEM, 2015a). Assuming a 6.5 m width, an area of 15.5 ha will be scarified:
- > A lump sum of 4,000 \$ per culvert removal and 25,000 \$ per bridge removal (unit cost based on ICRP 2019 of Meadowbank (SL!, 2020a) is accounted for in the calculation. A total of eight (8) culverts and two (2) bridges (AEM, 2015a) are considered for the AWAR;
- > The Bypass road was built around the south of the airstrip to Itivia Harbor. Its design and width are similar to the AWAR (AEM, 2015a): 6.2 km long x 6.5 m wide, for a total area of 4.0 ha that will require to be scarified;
- > A lump sum of 4,000 \$ per culvert removal (SNC-Lavalin, 2018) is assumed. A total of 19 culverts (AEM, 2015a) are considered for the Bypass road.

Waterline for saline effluent discharge into marine environment - Covered sections along the AWAR and Bypass Road



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The two (2) waterlines will be covered with material on approximately 80 to 90% of their total length of 82 km along the AWAR and Bypass road (2 pipelines x 41 km = 82 km length). At closure, the waterline system for the treated groundwater discharge will be decommissioned and the covered sections of waterlines will be excavated.

The reclamation cost related to the excavation of the covered waterline sections is based on CIRNAC 2020 estimate, as agreed with Agnico Eagle and CIRNAC. A reclamation cost of 97,601 \$ has been associated with the waterline components excavation along the AWAR and Bypass road.

A small laydown area at Itivia Harbor of 1 ha assumed for the treated groundwater waterline diffuser will be graded.

For the reclamation cost associated with the other waterline components (pipelines, outfall pipe and diffuser) being dismantled, removed and disposed on-site in a landfill, refer to section 3.3.7.

#### **Decontamination of surface mobile equipment**

A total of 189 surface mobile equipment is considered (based on equipment list provided by Agnico Eagle and shown in **Appendix C**), with an additional 15 % contingency to consider for additional surface equipment not yet on site. Eight (8) hours per equipment are considered for decontamination (1,739 hours total). As presented in section 3.3.2, decontamination of underground equipment is included in the underground group of components. Due to the limited capacity of the landfill, it was assumed that all decontaminated surface mobile equipment will be transported to Itivia Harbor and shipped off-site (Transportation cost of equipment is available in Mobilization / Demobilization section).

#### 3.3.6 Chemicals and Soil Management

Chemicals and soil management were reviewed in accordance with the information available in the Landfarm Management Plan (AEM, 2019b), the Hazardous Materials Management Plan (AEM, 2018a) and the Meliadine Annual Report 2018 and 2019 (AEM, 2019e, 2020a).

#### **Building Decontamination**

> Building decontamination was considered for the maintenance shop, the power plant, the fuel storage, the emulsion plant and the garage area in the P laydown area (garage and wash bay area). A total cost of 42,788\$ was estimated for decontamination including 50 man-days.

#### **Hazardous Material**

- > The waste oil quantity remaining at the end of operation is estimated at 40,000 liters, corresponding to 5 % of the maximal storage capacity of 800,000 liters;
- > Fuel dregs assumed to be 0.5% (235 919 liters) of bulk fuel storage capacity (47,182,200 million liters on site and at Itivia Harbor), for a total of 101,441 \$;
- One (1) year accumulation of oil and glycol contaminated waste water is considered, for a total of 60,000 liters (Meliadine Annual Report 2018, AEM, 2019e);
- A lump sum of 3,000 \$ is considered for battery disposal, based on Meadowbank ICRP 2019 (SLI, 2020a);
- > Mill and water treatment reagents at closure assumed to be 5 % of annual consumption (5 % of 6,798 tons) (AEM, 2018a). The total amount for this item is 849,718 \$;
- A total of 10,000 kg of assay lab and environmental reagents are assumed (AEM, 2018a), for \$25,000;
- A total of 60,000 kg of glycol is considered based on the reported quantity on site (AEM, 2018a);
- Machine shop paints and solvents to be disposed of at closure assumed to be 7,500 litres, for a total of 11,250 \$;



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An allowance of 7,500 \$ and 50,000 \$ has been provided for Phase 1 and 2 for Hazmat removal audit is included.

#### **Contaminated Soil and Soil Characterization**

- > A contingency of 5,000 m<sup>3</sup> of hydrocarbon contaminated soil requiring on-site remediation at closure is considered for the operation landfarm, based on total capacity of the landfarm (AEM, 2019b);
- > The total of contaminated soil to excavate, load and haul to the landfarm at closure is estimated at 700 m³, based on the closure and reclamation volume estimate (AEM, 2019b);
- A volume of contaminated soil representing 5% (250 m³) of the total volume of contaminated soil is considered for heavily contaminated soil not treatable on site and to be managed as hazmat material;
- > For the planned landfarm extension area, it is assumed that the capacity of the new landfarm will be similar to the existing operation landfarm. Therefore, the same volume of hydrocarbon contaminated soil requiring on-site remediation at closure (5,000 m³) and the total volume of heavily contaminated soil not treatable (250 m³) are included in the estimation for the landfarm extension area.
- > Lump sums of 25,000 \$ and 100,000 \$ was considered for Phase 1 and Phase 2 of contaminated soils investigation, respectively.

#### 3.3.7 Water Management

According to the Water Management Plan (AEM, 2020d), the water management systems include the following component:

- Six (6) water containment ponds and their associated dikes or thermal berms;
- > Four (4) surface saline ponds;
- > Three (3) diversion berms;
- Ten (10) diversion channels:
- Reverse osmosis (RO) treatment plant (considered in Buildings and equipment section);
- Effluent water treatment plant (EWTP) (considered in Buildings and equipment section);
- Saline water treatment plant (SWTP) and saline effluent treatment plant (SETP) (considered in Buildings and equipment section);
- Sewage treatment plant (STP) (considered in Buildings and equipment section);
- Potable water treatment plant (WTP) (considered in Buildings and equipment section);
- Network of surface pumps, pipelines and culverts;
- > Freshwater intake causeway:
- > Effluent diffuser in Meliadine Lake;
- A waterline system and a diffuser for saline effluent discharge into marine environment.

The containment ponds, dikes and berms will remain in place to collect the surface runoff water and seepage from the Mine until the water quality meets discharge criteria. Once the water quality meets discharge criteria, dikes and berms will be breached to allow runoff to follow natural flow paths. Dike and berm breaching will involve the removal of a portion of the dikes to a minimum depth of 1 m below average water level or back to original ground levels. Excavated ponds will be backfilled.

Once monitoring results have indicated that contact water conveyed in channels and sumps meets acceptable water quality, the infrastructure will be graded, and surface treated according to site specific conditions to minimize windblown dust and erosion from surface runoff, if required.

The annual cost for operation of the water treatment plant is also calculated. However, the annual cost, considered for a period of 3 years, is included in the "Interim Care and Maintenance" portion of the cost estimate, and presented in Section 3.3.8.



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#### **Dike Breach and Berm Reclamation in Containment Ponds**

There are three (3) containment dikes, D-CP1, D-CP5, and D-CP6, that will require to be breached 1 m below the average water level. It was assumed that each breach will have a 20 m width. Dimensions and expected average water levels of each dike are based on corresponding as-built reports, except for D-CP6 that was assumed to be similar to D-CP1 in terms of design (no available documentation for D-CP6. The berms (Berm-CP3, Berm-CP4 and Berm-CP2) will be removed. The excavated pond CP2 will be backfilled:

- > D-CP1 (Tetra Tech, 2017h) Crest elevation of 67 m and average water elevation at 66.2 m, therefore the breach must be 1.8 m deep x 20 m wide breach x 19,6 m wide dike at crest = 705.6 m³ excavation;
- > D-CP5 (Tetra Tech, 2017i) Crest elevation of 66.8 m and maximum operating water elevation before and after each spring freshet at 64.8 m, therefore the breach must be 3.0 m deep x 20 m wide breach x 16,6 m wide dike at crest = 996 m³ excavation;
- > D-CP6 design is assumed identical to D-CP1, therefore a 705.6 m³ excavation will be required to breach D-CP6;
- > CP2 pond (Tetra Tech, 2020) The pond will be backfilled with material. Based on the prefeasibility level design, the volume is 188 400 m3;
- > Berm-CP3 (Tetra Tech, 2017e) Berm length of 330 m x area of 94 m² for a typical cross-section = volume of 31,020 m³ to be removed entirely;
- > Berm-CP4 (Tetra Tech, 2017e) Berm length of 260 m x area of 376 m² for a typical cross-section = volume of 97,760 m³ to be removed entirely.
- > Berm-CP2 (Tetra Tech, 2020) Based on the prefeasibility level design, the berm length of 283m with a volume of 18,600 m3 will required to be removed entirely.

#### **Saline Ponds**

Saline Ponds reclamation consists of berm excavation and complete removal of two (2) of the four (4) ponds (SP1 and SP3). Saline Ponds SP2 and SP4 are in the footprint of Tiriganiaq Pit 1 and 2. It was thus assumed that they will disappear during open pit exploitation and will not require to be reclaimed during closure.

- > SP1 berm (Tetra Tech, 2017a) Berm length of 195 m x area of 12 m² for a typical cross-section = volume of 2,340 m³ to be excavated;
- > SP3 berm (AEM, 2019d) Berm length of 246 m x area of 15 m² for a typical cross-section = volume of 3,690 m³ to be excavated.

#### **Reclamation of Diversion Channels and Berms**

- > Diversion Berm 1 (Tetra Tech, 2017b) Berm length of 485 m x area of 11 m<sup>2</sup> for a typical cross-section = volume of 5,335 m<sup>3</sup> to be removed entirely;
- > Diversion Berm 2 Based on Water Management Plan (AEM, 2020d), diversion berm 2 will remain in place to prevent non-contact water from flowing into the TSF;
- Diversion Berm 3 (Tetra Tech, 2017k) Based on the As-Built report, the volume of Diversion Berm 3 is 7,682 m³;
- Channel 1 (Tetra Tech, 2017c) Based on As-Built report, Channel 1 will require 5,625 m³ for backfill and contour;
- Channel 2 (Tetra Tech, 2017f) Based on As-Built report, Channel 2 will require 545 m³ for backfill and contour;



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- Channel 3 (Tetra Tech, 2017e) Channel length of 640 m with typical cross section area of 3.5 m<sup>2</sup> between stations 0+000 to 0+195 and of 9 m<sup>2</sup> between stations 0+195 to 0+640. A volume of 4,688 m<sup>3</sup> is expected to be required for backfill and contouring (based on design report);
- > Channel 4 (Tetra Tech, 2017e) Channel length of 923 m with typical cross section area of 12 m<sup>2</sup> between stations 0+000 to 0+135 and of 14 m<sup>2</sup> between stations 0+135 to 0+923. A volume of 12,652 m<sup>3</sup> is expected to be required for backfill and contouring (based on design report);
- > Channel 5 (Tetra Tech, 2017d) Based on As-Built report, Channel 5 will require 1,178 m³ for backfill and contour;
- Channel 6 Assumed to be about 150 m long, 1.5 m deep with 2.5H:1V slope (no available documentation since its construction is tentative based on future water management strategies downstream of WRSF2). It would require 1,350 m³ to backfill and contour;
- Channel 7 (Tetra Tech, 2017g) Based on design report, a volume of 652 m³ is expected to be required to backfill and contour Channel 7:
- Channel 8 (Tetra Tech, 2017g) Based on design report, a volume of 91 m³ is expected to be required to backfill and contour Channel 8;
- Channel 9 (Tetra Tech, 2020) Based on the prefeasibility level design, the length of Channel 9 is 660 m and it will require approximately 8,250 m³ of material to backfill and contour;
- > Channel 10 (Tetra Tech, 2020) Based on the prefeasibility level design, the length of Channel 10 is 220 m and it will require approximately 2,750 m³ to backfill and contour.

#### **Containment Pond Pumps Decommissioning**

- > Pumps decommissioning for containment ponds. A lump sum of \$80,000 per pump was considered based on SNC-Lavalin's experience for decommissioning of similar infrastructures. Four (4) pumping systems will be decommissioned in CP1, CP5, CP6 and CP2.
- Pipeline network on site of about 18.5 km length is assumed to be removed and disposed on-site in landfill.

#### Water Diffuser Reclamation at Meliadine Lake and Itivia

- > Effluent diffuser reclamation at Meliadine Lake at 3,000 \$, based on Meadowbank ICRP 2019 (SLI, 2020a). Additionally, the removal of 390 m long pipe is also included for 8,580 \$;
- > Saline water effluent diffuser for trucked groundwater at Itivia will be dismantled for 3,000 \$, based on Meadowbank ICRP 2019 (SLI, 2020a). Based on the Groundwater Management Plan (AEM, 2020b), the removal of a 778 m long pipe is also included for an additional 17,116 \$;
- > Removal of the pump associated with the freshwater intake for 3,000 \$, based on Meadowbank ICRP 2019 (SLI, 2020a).

#### Waterline components for saline effluent discharge into marine environment

- > Based on the FEIS Addendum for the treated groundwater effluent discharge (AEM, 2020c), a waterline (2 pipes) of approximately 41 km each (82 km total) along the AWAR and the Bypass road will be removed with an associated cost of 1,804,000\$. The pipeline network components will be dismantled, removed and disposed on-site in a landfill.
- A diffuser will be removed from Melvin Bay, with an associated cost of 6,000\$. The outfall pipe of 75 m for the diffuser will also be removed with an associated cost of 5,400\$. Both will be disposed on-site in the landfill.

#### **Temporary Water Treatment Plant Operation**



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- Temporary water treatment plant operation cost is estimated at 561,460\$ annually, over a period of three (3) years, based on the following considerations: Operation of the temporary water treatment plant considered for treatment of reclaim water during 6 months per year (treatment required of 742,075 m<sup>3</sup> per year, corresponding to CP1 maximum volume in normal condition). A unit cost of 0.75 \$ per m<sup>3</sup> is used (AEM communication, December 2019), considering the pumping cost and the required reagents for water treatment. This unit cost will have to be reviewed based on upcoming water quality forecast and expected treatment technology;
- > For operation, one (1) skilled labor is considered for 12 hours/day during a period of six (6) months per vear:
- Annual plant servicing provided by two (2) manufacturer consultants for a seven (7) days site visit each year (168 hours total) over three (3) years, with associated travel allowance costs.

#### 3.3.8 Interim Care and Maintenance

Based on experience at abandoned sites in northern regions, it is assumed that a minimum period of time of 2 to 3 years is required to transfer ownership of the site to the authorities, finalize a Closure and Reclamation Plan, retain a water licence for closure, mobilize equipment to the site and conduct procurement activities to retain reclamation contractors (based on GNT, 2017). The Interim Care and Maintenance cost estimation is therefore based on a 3year period and includes the annual surveillance and annual water treatment. Monitoring and surveillance costs (active closure) are presented in the Post Closure Monitoring and Maintenance section 3.4.2.

- The annual operational cost for the interim water treatment is estimated at 692,676 \$ (see Temporary Water Treatment Plant Operation of section 3.3.7);
- The annual cost related to surveillance, monitoring and inspection of the active closure period represents 1,072,197 \$, which corresponds to the annual monitoring and maintenance cost during the active closure period;
- The total cost for three (3) years of care and maintenance is evaluated at 5,294,619 \$.

#### 3.4 **Indirect Costs**

The indirect costs include the cost related to post-closure monitoring and maintenance, mobilization and demobilization, as well as some cost factors such as contingency, engineering, project management, health and safety / QA-QC / engagement costs and bonding / insurance.

Specific assumptions used for the financial security cost estimate are provided for each closure component in sections 3.4.1 to 3.4.3.

#### 341 Mobilization / Demobilization

During the active closure, mobilization costs have been accounted for by allowing costs for mobilization and demobilization of equipment from site to Itivia Harbor (Rankin Inlet), the mobilization of workers to perform closure work, in addition to barge trips into and out of Itivia Harbor exclusively for Meliadine closure.

- Mobilization and demobilization of heavy equipment (surface and underground) is based on a distance of 30 km along the AWAR and the Bypass Road from Meliadine to Itivia Harbor (Rankin Inlet). A contingency of 15% has been added to the number of mobile equipment to be demobilized to account for the additional equipment for surface mining not yet on site. Due to the limited capacity of the landfill, it was assumed that all mobile equipment will be demobilized off-site;
- Lump sum of 1,000,000 \$ for one (1) demolition shear for buildings and infrastructures demolition;
- Seasonal work for of 26 workers over three (3) years period (2028 to 2030), considering a six (6) months per year demolition / reclamation seasons, with associated accommodation and transportation costs;



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Demobilization of 3,000 seacans from Meliadine to Itivia Harbor (Rankin Inlet). It was estimated there is approximately 6,000 seacans on site and that 50 % of them will still be on site at the beginning of the active closure;

> Three (3) barge round trips are considered for seacans demobilization, demolition and hazardous material sent south (1 trip) and for equipment demobilization (2 trips), for a total cost of 3,000,000 \$.

#### 3.4.2 Active-Closure and Post-Closure Monitoring and Maintenance



The post-closure costs are separated in two (2) main categories, the monitoring / inspection program and the site maintenance / surveillance. The active-closure period will extend over a three (3) years period (2028 to 2030), including three (3) monitoring events. The post-closure activities will extent for an additional 10-year period (2031 to 2040), including ten (10) monitoring events. A 0,00 % discount rate of net present value was used for the calculation of both active and post-closure costs. The costs related to site monitoring / inspection and maintenance / surveillance are presented below.

The annual operation cost of the interim water treatment plan is not included in the post-closure costs as it is already accounted for in "Interim care and maintenance" for a period of three (3) years.

#### **Monitoring and Inspections**

- > One (1) annual geotechnical inspection is planned per year for 16,000 \$ including one (1) week visit by one (1) specialized engineer, seven (7) days, twelve (12) hours per day at \$150/hour, plus 3,000 \$ of reporting work and associated travel and accommodation fees;
- > An estimated annual cost of 42,927 \$ for the surface water quality monitoring (in closure and post-closure), based on Meliadine water sampling program costs, as presented in **Appendix C**;
- > For active closure (2028 to 2030), an estimated annual cost of 955,000 \$ for general monitoring programs (i.e. aquatic, wildlife, air quality, noise monitoring program, vegetation study), based on Meliadine monitoring program costs (communication by AEM on November 9<sup>th</sup>, 2019);
- > For post-closure (2031 to 2037), an estimated annual cost of 477,500 \$ for general monitoring programs, corresponding to 50 % of the active closure monitoring programs cost.

#### **Maintenance and Surveillance**

> For closure and post-closure, two (2) site caretakers provided with biweekly overnight visits, twelve (12) hours per day, 5 months of the year, along with annual allowances for a site vehicle and equipment (20,000 \$), accommodation and site maintenance (7,000 \$).

#### 3.4.3 Other Indirect Costs

Other indirect costs are calculated based on a percentage of the direct costs total:

- > Project management and engineering fees are assumed at 5 % each of the direct closure costs;
- > Health and safety plans / monitoring, QA & QC and engagement costs (communication with stakeholders from the community) are assumed as 2 % of the direct closure costs;
- > Bonding / insurance fees are assumed as 1 % of the direct closure costs;
- > Finally, due to the current level of engineering and uncertainties, a contingency of 18 % of the direct closure costs has been provided for.

#### 4.0 Comparison with 2019 Estimates

Table 4-1 lists the key differences between this cost estimate presented herein (ICRP 2020 V01) and the cost estimate prepared for the ICRP 2019 (SLI, 2019a), based on the changes made in relation with the new components



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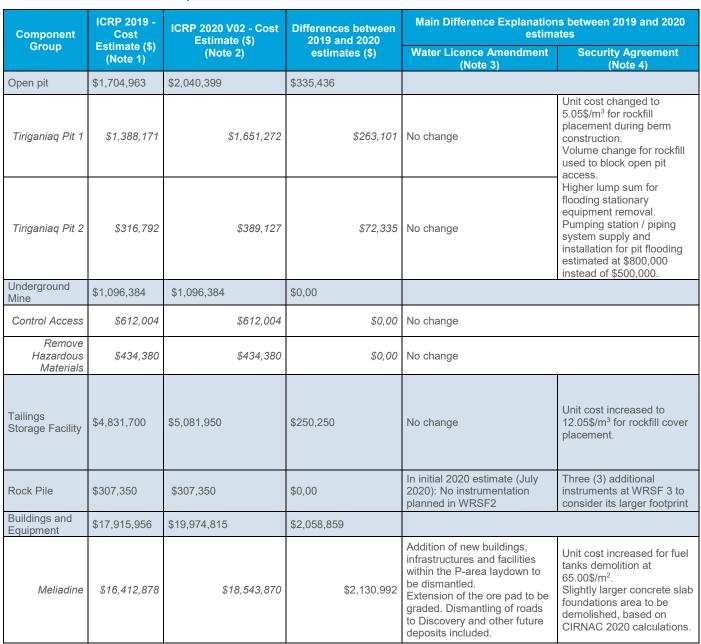
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of the Water License Amendment and as agreed with Agnico Eagle, CIRNAC and KivIA during the Security

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Component	ICRP 2019 - Cost	ICRP 2020 V02 - Cost Estimate (\$)	Differences between 2019 and 2020	Main Difference Explanations between 2019 and 2 estimates		
Group	Estimate (\$) (Note 1)	(Note 2)	estimates (\$)	Water Licence Amendment (Note 3)	Security Agreement (Note 4)	
Itivia Harbor, AWAR & Bypass Road	\$1,503,078	\$1,703,339	\$200,261	Addition of a small laydown area at Itivia Harbor for the treated saline effluent waterline diffuser to be graded.	Unit cost increased for fuel tanks demolition at 65.00\$/m². Cost associated with excavation of the covered waterline located along the AWAR and Bypass Road (97,601\$).	
Chemicals and Contaminated Soil Management	\$1,864,355	\$ 2,359,406	\$495,051	Includes volume of contaminated soil to be treated and heavily contaminated soil to transport for the new landfarm extension. Additional time for decontamination of the garage area in the P-area laydown is included.	No change	
Surface and Groundwater Management	\$1,446,713	\$4,460,458	\$3,013,745	Includes the closure requirement for the water management infrastructures related to the extension of the WRSF3: CP2 pond, 2 channels and CP2 diversion berm. Includes the dismantling of the saline effluent discharge into marine environment: waterline (41km), the outfall pipe and the diffuser.	No change	
Interim Care and Maintenance	\$5,294,620	\$5,294,620	\$0,00	No change		
Subtotal Direct Costs	\$34,462,041	\$40,887,775	\$6,425,734			
Mobilization / Demobilization	\$6,942,680	\$6,961,400	\$15,720	No change	Unit cost increased for travel time calculation (based on equipment operator unit cost rather than unskilled labour unit cost).	
Closure and Post-Closure Monitoring and Maintenance	\$6,737,523	\$9,162,861	\$2,425,328	No change	As per Agnico Eagle agreement with KivIA, 3 additional monitoring events were added during post-closure, from 2038 to 2040. The 3,00% discount rate has also been removed for both active and post-closure.	
Engineering (5%)	\$1,723,102	\$2,044,389	\$321,287	Adjusted with direct costs		
Project Management (5%)	\$1,723,102	\$2,044,389	\$321,287	Adjusted with direct costs		
Health and Safety Plans / Monitoring and	\$689,241	\$817,755	\$128,514	Adjusted with direct costs		



#### Meliadine ICRP - Update 2020

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Component	ICRP 2019 - Cost	ICRP 2020 V02 - Cost Estimate (\$)	Differences between 2019 and 2020	Main Difference Explanations estimat			
Group	Estimate (\$) (Note 1)	(Note 2)	estimates (\$)	Water Licence Amendment (Note 3)	Security Agreement (Note 4)		
QA/QC and Engagement Costs (2%)							
Bonding / Insurance (1%)	\$344,620	\$408,878	\$64,258	Adjusted with direct costs			
Contingency (20%)	\$6,892,408	\$7,359,800	\$467,392	Adjusted with direct costs. A 18% contingency has beel used in version 02 of the ICRP 2020 instead of 20%.			
Market Price Factor Adjustment (0%)	- \$	-\$	- \$	No change			
Subtotal Indirect Costs	\$25,052,677	\$28,799,471	\$3,746,794				

#### **TOTAL Notes**

GRAND

\$59,514,717

\$69,687,246

- ICRP 2019 cost estimate presented in Table 4-1 refers to the Meliadine ICRP Update 2019 (SLI, 2019a and 2019b).
- (2) ICRP 2020 V01 cost estimate presented in Table 4-1 refers to Meliadine ICRP Update 2020, January 2021 (SLI, 2021).

\$10,172,529

- Water License Amendment modifications are detailed in the document herein and in the Meliadine ICRP Update 2020, January 2021 (SLI, 2021), and previously in the Meliadine – ICRP Update 2020, July 2020 (SLI, 2020c)
- (4) Modifications discussed between Agnico Eagle, the KivlA and CIRNAC for the Security Agreement revision, as presented in Appendix



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#### 5.0 References

AEM. Agnico Eagle Mines Limited (2015a). Preliminary Closure and Reclamation Plan, Version 1.0, 6513-CRP-01, April 2015.

AEM. Agnico Eagle Mines Limited (2015b). RECLAIM Model, Meliadine Gold Project 2015, excel file 150513 2AM-MEL----AEM Reclaim 7.0 Meliadine sept 15-Rev2-IMLE.xlsm.

AEM. Agnico Eagle Mines Limited (2016). Whale Tail Pit Interim Closure and Reclamation Plan, Version WT, Report No. 1541520, June 2016.

AEM. Agnico Eagle Mines Limited (2018a). Meliadine Gold Project, Hazardous Materials Management Plan, Version 5, 6513-MPS-12, March 2018.

AEM. Agnico Eagle Mines Limited (2018b). Meliadine Gold Project, Borrow Pits and Quarries Management Plan, Version 6, 6513-MPS-04, March 2018.

AEM. Agnico Eagle Mines Limited (2019a). Tailings Storage Facility (TSF) Detailed Deposition Plan, 6515-583-163-REP-002, January 2019.

AEM. Agnico Eagle Mines Limited (2019b). Meliadine Gold Project, Landfarm Management Plan, Version 3, 6513-MPS-15, February 2019.

AEM. Agnico Eagle Mines Limited (2019c). Meliadine Gold Project, Landfill and Waste Management Plan, Version 7, 6513-MPS-06, March 2019.

AEM. Agnico Eagle Mines Limited (2019d). Design Report Meliadine Saline Pond #3 (SP-3), Prepared by WSP Canada Inc., 6528-680-132-REP-002, March 2019.

AEM. Agnico Eagle Mines Limited (2019e). Meliadine Gold Project 2018 Annual Report, March 2019.

AEM. Agnico Eagle Mines Limited (2019f). Whale Tail Pit Expansion Project, Interim Closure and Reclamation Plan, Version 3, December 2019.

AEM. Agnico Eagle Mines Limited (2020a). Meliadine Gold Project 2019 Annual Report, April 2020.

AEM. Agnico Eagle Mines Limited (2020b). Meliadine Gold Project, Groundwater Management Plan, Version 5, April 2020.

AEM (2020c). FEIS Addendum - Treated Groundwater Effluent Discharge into Marine Environment, Rankin Inlet, April 2020, Version 2

AEM (2020d). Agnico Eagle Mines Limited. (July) Meliadine Gold Project, Water Management Plan, Version 10

Government of Northwest Territories (2017). RECLAIM 7.0, User Manual, Revised November 2017.

Nunavut Water Board (2016). Water Licence No: 2AM-MEL1631, issued on April 1st, 2016.

SLI (2018). SNC-Lavalin. Report No. 654769 (June). Meadowbank Interim Closure and Reclamation Plan Update 2018.

SLI (2019a). SNC-Lavalin. Report 668523-4000-4EER-0001-00. Meliadine Interim Closure and Reclamation Plan 2019.

SLI (2019b). SNC-Lavalin. Report 668523-3000-4EER-0001-00. Meliadine – ICRP Update 2019 – Financial Security Cost Estimate Assumptions, December 2019.



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SLI (2020a). SNC-Lavalin. Report 662987-5000-4EER-0001- Version 01. Meadowbank Interim Closure and Reclamation Plan Update 2019.

SLI (2020b). SNC-Lavalin. Report 674942-4000-40ER-0001-00. Reclamation Work and Costs - Waterline for Treated Groundwater Effluent Discharge.

SLI (2020c). SNC-Lavalin. Report 674942-4000-4EER-0002-00. Meliadine – ICRP Update 2020, July 2020.

SLI (2021). SNC-Lavalin. Report 674942-4000-4EER-0002-01. Meliadine – ICRP Update 2020, January 2021.

Tetra Tech (2017a). Construction Summary (As-Built) Report for Saline Water Storage/Transfer Pond and Berm, Meliadine Gold Project, Revision 0, AEM number 6515-E-132-007-132-REP-006, February 2017.

Tetra Tech (2017b). Design Report for Channel 1, Berm 1 and Culvert 2, Meliadine Project, Nunavut, Tetra Tech number 28920, AEM number 6515-C-235-007-230-REP-001, February 2017.

Tetra Tech (2017c). Construction Summary (As-Built) Report for Channel 1 and Culvert 13, 1, 2, 15, 16, Tetra Tech number 28920, AEM number 6515-E-132-007-132-REP-018, February 2017.

Tetra Tech (2017d). Construction Summary (As-Built) Report for Channel 5, Meliadine Gold Project, Revision A, AEM number 6515-E-132-007-132-REP-008, February 2017.

Tetra Tech (2017e). Design Report for CP3, CP4, CP Berms, Berm 2, Channel 3, and Channel 4, Meliadine Project, Nunavut, AEM number 6515-E-132-007-132-REP-017. June 2017.

Tetra Tech (2017f). Construction Summary (As-Built) Report for Channel 2, Meliadine Project, Nunavut, Tetra Tech number 28920, AEM number 6515-C-230-005-230-REP-003, July 2017.

Tetra Tech (2017g). Design Report for Channel 7 and Channel 8, Meliadine Project, Nunavut, Tetra Tech number 28920, AEM number 6515-C-235-007-230-REP-002, September 2017.

Tetra Tech (2017h). Construction Summary (As-Built) Report for Dike D-CP1, Meliadine Gold Project, Nunavut, Revision 0, AEM number 6515-E-132-004-132-REP-012, October 2017.

Tetra Tech (2017i). Construction Summary (As-Built) Report for Dike D-CP5, Meliadine Gold Project, Nunavut, Revision 0, AEM number 6515-E-132-007-132-REP-013, October 2017.

Tetra Tech (2017j). Construction Summary (As-Built) Report for Operational Landfill (Stage 1), Meliadine Project, Nunavut, Tetra Tech number 28920, AEM number 6515-E-132-007-132-REP-014, December 2017.

Tetra Tech (2017k). Construction Summary (As-Built) Report for Berm 3, Meliadine Project, Nunavut, Tetra Tech number 28920, AEM number 6515-E-132-007-132-REP-015, December 2017.

Tetra Tech (2020). IFR Prefeasibility Level Design\_WRSF3&Water Management Infrastructure 07072020, Meliadine Project, July 2020 Water License Amendment, July 03 2020.



# Appendix A

RECLAIM 7.0

ICRP Update 2020 V03 - List of modifications based on CIRNAC and KIA security agreement reviews

Items	Required modifications (as per CIRNAC/KIA consultations)
Open pit	
1 Berm at crest (Control access)	Change unit cost to SB4L (5,50\$/m³), as per CIRNAC estimate.
2 Block roads (Control access)	Change volume by taking into account 1.5H:1V slopes for the embankment, as per CIRNAC estimate. CIRNAC volume has been revised and can be used.
3 Remove stationary equipment (Flood pit)	Change the lump sum for 10,000\$ (based on 2019 Whale Tail Security), as per CIRNAC estimate.
4 Supply/install pump station & piping system (Flood pit)	Use total cost of 800,000\$ (80% to pit 1 and 20% to pit 2), based on 2019 Whale Tail Security, as per CIRNAC estimate.
Tailings storage facility	
5 Rockfill cover (Cover Tailings)	Change unit cost to RB3L (12,05\$/m³), as per CIRNAC estimate.
Rock pile	
6 Permanent instrumentation (Specialized items)	Add three (3) additional instruments in WRSF 3 (30,000\$) (previously accounted for WRSF 2), as per CIRNAC estimate.
Buildings and equipment	
7 Meliadine - Fuel tanks on site (Remove buildings)	Change unit cost to BRS1H (65,00\$/m²), as per CIRNAC estimate.
Meliadine - Break foundation slabs (Remove buildings)	Increase area to 25,072 + 1974,74, based on F-2000 update, as per CIRNAC estimate. However, basis for the area calculation is unknown (provided by CIRNAC).
9 Itivia - Fuel tanks Itivia (Remove buildings)	Change unit cost to BRS1H (65,00\$/m²), as per CIRNAC estimate.
10 Itivia - Laydown area - Itivia diffuser (Grade and contour pads)	Remove from CIRNAC Reclaim estimate. Amount kept (4,300\$) as per original AEM/SNC estimate.
11 Itivia - Buried pipeline along the AWAR	Use the reclamation cost associated with the buried waterline estimated by CIRNAC (47,601\$+30,000\$+20,000\$=97,601\$). As per AEM request on 2020-12-15, the estimated amount from CIRNAC is included in the AEM/SNC revised estimate.
Mobilization and demobilization	
12 Reclamation activities - travel time (Mobilize worker)	Change unit cost to OPERL (41,00\$/hour), as per CIRNAC estimate.
Closure and Post-closure Monitoring and Maintenance	
13 Discount rate for calculation of net present value of closure cost	The 3% discount rate is removed for active closure and post-closure monitoring, as per AEM request on 2021-02-18.
14 Number of events in post-closure activity	AEM agreed with KIA to add 3 additional monitoring events during post-closure, during 3 consecutive years (between 2038 and 2040), for a total of 10 monitoring events in post-closure.
Active closure and post-closure monitoring - Maintenance & 15 Monitoring costs	For active closure and post-closure monitoring, the CIRNAC estimate was corrected to add the Maintenance & Monitoring costs (58,200\$ per year), as per AEM/SNC estimate. This was likely an error in the CIRNAC estimate, as this amount is indicated, but not included in the calculation.
Indirect costs	
16 Indirect costs based on direct costs percentage	Will be modified accordingly, based on direct costs modifications, assuming a 18 % contigency.

Note: These modifications were completed in the AEM/SNC estimate (ICRP 2020 V01), based on the files received from CIRNAC (30062357 Meliadine F2020 RECLAIM Post Closure 7 yr VerR2 07-nov-2020.xlsm, received Dec.7th, 2021) and from KIA (Copy of \_KivIA\_Updated\_Security\_Dec\_9\_2020.xlsx, received Dec.10th 2020).

These modifications were discussed during the meetings held on Dec.11th 2020 and Dec.18th 2020 between AEM (SNC)/CIRNAC/KIA and confirmed by AEM.

Reclaim 7.0 Project: 2021-04-07

#### **SUMMARY OF COSTS**

CAPITAL COSTS	COMPONENT NAME	COST	LAND LIABILITY	WATER LIABILITY
OPEN PIT	Tiriganiaq Pit 1	\$1 651 272	\$825 636	\$825 636
	Tiriganiaq Pit 2	\$389 127	\$194 563	\$194 563
UNDERGROUND MINE	Tiriganiaq	\$1 096 384	\$523 192	\$573 192
TAILINGS FACILITY	Tailings Storage Facility	\$5 081 950	\$2 540 975	\$2 540 975
ROCK PILE	WRSF 1	\$247 350	\$123 675	\$123 675
	WRSF 2 (removed from planning)	\$0	\$0	\$0
	WRSF 3	\$60 000	\$30 000	\$30 000
BUILDINGS AND EQUIPMENT	Meliadine	\$18 543 870	\$9 271 935	\$9 271 935
	ITIVIA + Road	\$1 703 339	\$851 669	\$851 669
CHEMICALS AND CONTAMINATED SOIL MANAGEME	ENT	\$2 359 406	\$1 179 703	\$1 179 703
SURFACE AND GROUNDWATER MANAGEMENT		\$4 460 458	-	\$4 460 458
INTERIM CARE AND MAINTENANCE	<u>-</u>	\$5 294 620	<u> </u>	\$5 294 620
	SUBTOTAL: Capital Costs	\$40 887 775	\$15 541 349	\$25 346 426
	PERCENT OF SUBTOTAL		38%	62%

INDIRECT COSTS		COST	LAND LIABILITY	WATER LIABILITY
MOBILIZATION/DEMOBILIZATION		\$6 961 400	\$2 646 012	\$4 315 388
CLOSURE MONITORING AND MAINTENANCE		\$3 216 591	\$1 222 619	\$1 993 972
POST CLOSURE MONITORING AND MAINTENANCE		\$5 946 270	\$2 260 163	\$3 686 107
ENGINEERING	5%	2 044 389 \$	\$777 067	\$1 267 321
PROJECT MANAGEMENT	5%	\$2 044 389	\$777 067	\$1 267 321
HEALTH AND SAFETY PLANS/MONITORING & QA/QC	2%	\$817 755	\$310 827	\$506 929
BONDING/INSURANCE	1%	\$408 878	155 413,49 \$	\$253 464
CONTINGENCY	18%	\$7 359 799	\$2 797 443	\$4 562 357
MARKET PRICE FACTOR ADJUSTMENT	0%	\$0	\$0	\$0
	SUBTOTAL: Indirect Costs	\$28 799 471	\$10 946 613	\$17 852 859
TOTAL COSTS		\$69 687 246	\$26 487 961	\$43 199 285

Reclaim 7.0 Project: Meliadine Interim Closure 2021-01-15

2 Open Pit Name: Tiriganiaq Pit 1 Pit # 1

		-						
A OTIVITY/M ATERIAL	Notes	11-14-	Cost	H=14 O= -4			Land	W-4 04
ACTIVITY/MATERIAL	Notes	Units	Quantity Code	Unit Cost	Cost	Land	Cost	Water Cost
CONTROL ACCESS			44517.6	<b>#0.00</b>	0.0	500/	00	Φ0
Fence	On a day 1997 450 m	m	#N/A	\$0,00	\$0		\$0	\$0
Signs	One sign every 150 m	each	17 SH	\$37,08	\$630		\$315	\$315
Berm at crest	Perimeter = 2523 m x 2.5 m <sup>2</sup> (1m high berm with 1,5H:1V slope and 1 m width on top)	m3	6308 SB4L	\$5,50	\$34 694		•	\$17 347
Rock Barricade at ramp	Assuming 20 m width ramp and barricade length of 5 m (2m thick) and 1.5H:1V for front/back slopes	m3	320 DRH	\$2,40	\$768		\$384	\$384
Other			#N/A	\$0,00	\$0	50%	\$0	\$0
STABILITY STUDY			//>	***		500/	•	
Conduct stability and setback study		allow	#N/A	\$0,00	\$0	50%	\$0	\$0
STABILIZE SLOPES		_						
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	50%	\$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	50%	\$0	\$0
Vegetate slopes		ha	#N/A	\$0,00	\$0	50%	\$0	\$0
Vegetate pit floor		ha	#N/A	\$0,00	\$0	50%	\$0	\$0
Other			#N/A	\$0,00	\$0	50%	\$0	\$0
CONSTRUCT DIVERSION DITCHES								
Excavate ditches -soil		m3	#N/A	\$0,00	\$0		\$0	\$0
Excavate ditches -rock		m3	#N/A	\$0,00	\$0		\$0	\$0
Rip rap in channel base		m3	#N/A	\$0,00	\$0		\$0	\$0
CONSTRUCT SPILLWAY								
Excavate channel		m3	#N/A	\$0,00	\$0		\$0	\$0
Concrete		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) AEM used 10,000\$ in 2019 Whale Tail Security (version 3)	each	1 PRH	\$10 000,00	\$10 000	50%	\$5 000	\$5 000
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	\$0,00	\$0		\$0	\$0
-Ditch, mat'l B		m3	#N/A	\$0,00	\$0		\$0	\$0
Construct embankment/dam		m3	#N/A	\$0,00	\$0		\$0	\$0
	g systen From 2019 Whale Tail Security (version 3), assuming 80% of the cost if for Pit 1	each	1 AEM	\$640 000,00	\$640 000	50%	\$320 000	\$320 000
Piping installation	5 km of pipes from freshwater intake to pits	m	5000 PLIL	\$50,00	\$250 000		\$125 000	\$125 000
Supply/install pump	•	each	#N/A	\$0,00	\$0		\$0	\$0
Remove pump post-closure		each	#N/A	\$0,00	\$0		\$0	\$0
		545.1		ψ0,00	ΨΟ		ΨΟ	ΨΟ

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Reclaim 7.0 Project: Meliadine Interim Closure 2021-01-15

Open Pit Name	e:	Tiriganiaq Pit 1		Pit # <u>1</u>	:			
ACTIVITY/MATERIAL	Notes	Units		Cost Code Unit Cost		% La Land C	and ost V	Water Cost
Remove piping post-closure		m	#	‡N/A \$0,00	\$0		\$0	\$0
FLOOD PIT-Annual Cost								
Operate pumps (power)		each	#	‡N/A \$0,00	\$0		\$0	\$0
Maintain pump/piping	2 skilled laborers x 12hrs days, 4 month/yr	nhours	2304 ME	3K \$49,60	\$114 278	50%	\$57 139	\$57 139
Annual Pump Servicing	2x Manufacturer Consultants x 12 hours day x 7 days/yr	\$/h	134,4 ME	3K \$120,00	\$16 128	50%	\$8 064	\$8 064
Pump Servicing Travel Allowance	Round Trip Fligth/person	visits	1,6 ME	3K \$4 000,00	\$6 400	50%	\$3 200	\$3 200
Accommodations	120 days x 2 skilled labourers + 7 days x 2 Consultants	andays	203,2 AC	CML \$100,00	\$20 320	50%	\$10 160	\$10 160
Passive/biological additives		\$/ha	#	‡N/A \$0,00	\$0		\$0	\$0
Passive additives purchase and shipping		tonne	#	‡N/A \$0,00	\$0		\$0	\$0
Water from Meliadine Lake	9.2Mm³/3 years	m3	3066667 ME	3K \$0,03	\$81 267		\$0	\$81 267
				Annual pumping costs	\$238 393			
Number of years of pump flooding		years	3					
				Total pumping costs	\$715 179	50% \$3	357 590	\$357 590
				Total	\$1 651 272	\$8	825 636	\$825 636
				% of Total			50%	50%

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Reclaim 7.0 Project: Meliadine Interim Closure 2021-01-15

Open Pit Name:	Tiriganiag Pit 2	Pit # 2

			Cost		%	, 1	Land	
ACTIVITY/MATERIAL	Notes	Units	Quantity Code	Unit Cost	Cost L	and (	Cost	Water Cost
CONTROL ACCESS								
Fence		m	#N/A	\$0,00	\$0	50%	\$0	\$0
Signs	every 150 m	each	8 SH	\$37,08	\$297	50%	\$148	\$148
Berm at crest	Perimeter = 1134 m x 2.5 m² (1m high berm with 1,5H:1V slope and 1 m width on top)	m3	2835 SB4L	\$5,50	\$15 593	50%	\$7 796	\$7 796
Rock Barricade at ramp	Assuming 20 m width ramp and barricade length of 5 m (2m thick) and 1.5H:1V for front/back slopes	m3	320 DRH	\$2,40	\$768	50%	\$384	\$384
Other			#N/A	\$0,00	\$0		\$0	\$0
STABILITY STUDY								
Conduct stability and setback study		allow	#N/A	\$0,00	\$0		\$0	\$0
STABILIZE SLOPES								
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		1110	#N/A	\$0,00	\$0		\$0	\$0 \$0
COVER/CONTOUR SLOPES			#11/7	Ψ0,00	ΨΟ		ΨΟ	ΨΟ
Place fill, soil A		m3	#N/A	\$0,00	\$0		\$0	\$0
Place fill, soil B		m3	#N/A #N/A	\$0,00	\$0 \$0		\$0 \$0	\$0 \$0
*							-	
Rip rap		m3	#N/A	\$0,00	\$0		\$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		m3	#N/A	\$0,00	\$0		\$0	\$0
Rip rap in channel base		m3	#N/A	\$0,00	\$0		\$0	\$0
CONSTRUCT SPILLWAY								
Excavate channel		m3	#N/A	\$0,00	\$0		\$0	\$0
Concrete		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 p	oumps) AEM used 10,000\$ in 2019 Whale Tail Security (version 3)	each	1 PRH	\$10 000,00	\$10 000	50%	\$5 000	\$5 000
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	\$0,00	\$0		\$0	\$0
-Ditch, mat'l B		m3	#N/A	\$0,00	\$0 \$0		\$0	\$0 \$0
Construct embankment/dam		m3	#N/A	\$0,00	\$0 \$0		\$0	\$0 \$0
	systen From 2019 Whale Tail Security (version 3), assuming 20% of the cost if for Pit 2	each	1 AEM	\$160 000,00	\$160 000	50%	\$80 000	\$80 000
Piping installation	500 m additonal	m	500 PLIL	\$50,00	\$25 000	50%	\$12 500	\$12 500

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Reclaim 7.0 Project: Meliadine Interim Closure

Open Pit Name	н	Tiriganiaq Pit 2		Pit #				
ACTIVITY/MATERIAL	Notes	Units		ost ode Unit Cost	Cost		Land Cost	Water Cost
Supply/install piping system		each	0 #1	I/A \$0,00	\$0		\$0	\$0
Remove pump post-closure		each	#1	I/A \$0,00	\$0		\$0	\$0
Remove pipeline post-closure		m	#1	I/A \$0,00	\$0		\$0	\$0
FLOOD PIT-Annual Cost								
Operate pumps (power)		each	#1	I/A \$0,00	\$0		\$0	\$0
Maintain pump/piping	2 skilled labourers x 12hrs days, 4 month/yr	anhours	576 MBH	\$49,60	\$28 570	50%	\$14 285	\$14 285
Annual Pump Servicing	2x Manufacturer Consultants x 12 hours day x 7 days/yr	\$/h	33,6 MBH	\$120,00	\$4 032	50%	\$2 016	\$2 016
Pump Servicing Travel Allowance	Round Trip Fligth/person	visits	0,4 MBH	\$4 000,00	\$1 600	50%	\$800	\$800
Accomodations	120 days x 2 skilled labourers + 7 days x 2 Consultants	andays	50,8 ACC	ML \$100,00	\$5 080	50%	\$2 540	\$2 540
Passive/biological additives		\$/ha	#1	I/A \$0,00	\$0		\$0	\$0
Passive additives purchase and shipping		tonne	#1	I/A \$0,00	\$0		\$0	\$0
Water from Meliadine Lake	2.25Mm³/3 years	m3	750000 MBH	\$0,03	\$19 875	50%	\$9 938	\$9 938
			An	nual pumping costs	\$59 157	50%	\$29 578	\$29 578
Number of years of pump flooding		years	3					
				Total pumping costs	177 469,80 \$	50%	\$88 735	\$88 735

\$194 563

50%

\$194 563

50%

2 of 2

Total

% of Total

\$389 127

Underground Mine Name	e Tiriganiao	1		UG Mine # <u>1</u>	<u>1</u>			
ACTIVITY/MATERIAL	Notes	Unit	Qty Code	Unit Cost	Cost %	Land	Land Cost	Water Cost
CONTROL ACCESS								
Fence		m	#N/A	\$0,00	\$0		\$0	\$0
Signs	One sign per portal	each	2 SH	\$37,08	\$74	50%	\$37	\$37
Block roads		m3	#N/A	\$0,00	\$0		\$0	\$0
Berm		m3	RB1H	\$17,05	\$0	100%	\$0	\$0
Remove the portal (TTOG STEEL)	cut, remove and dispose in landfill	m2	1980 BRS1L	\$45,00	\$89 100	50%	\$44 550	\$44 550
Remove the portal (concrete)	break, remove and dispose in landfill	m2	3300 BRCH	\$65,00	\$214 500	50%	\$107 250	\$107 250
Backfill portal #1 + Contour portal area	105m length with slope x 8m deep x 30m wide	m3	12 600 SB1H	\$5,90	\$74 340	50%	\$37 170	\$37 170
Backfill portal #2 + Contour portal area	116m length with slope x 15m deep x 30m wide (mean)	m3	26 100 SB1H	\$5,90	\$153 990	50%	\$76 995	\$76 995
Cap bulkhead , pit portal		each	#N/A	\$0,00	\$0		\$0	\$0
Plug portal #2		m3	#N/A	\$0,00	\$0		\$0	\$0
Raises (Cap and building demolition)	4 raises total - Concrete	m2	4 SNC	\$20 000,00	\$80 000	50%	\$40 000	\$40 000
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		m3	#N/A	\$0,00	\$0		\$0	\$0
Contour portal area		m3	#N/A	\$0,00	\$0		\$0	\$0
REMOVE HAZARDOUS MATERIALS								
Remove hazardous materials, U/G labor	2 laborers, 12hr/day, 3 months	hour	2 160 scoopl	\$170,00	\$367 200	50%	\$183 600	\$183 600
Remove/decontam. stationary & elect. equ	uip	hour	72 mechl	\$49,00	\$3 528	50%	\$1 764	\$1 764
Remove/decontam. mobile equipment	off site * Barge	hour	1 248 mechl	\$49,00	\$61 152	50%	\$30 576	\$30 576
Remove misc. haz. mat & explosives	•	kg	250 SNC	\$10,00	\$2 500	50%	\$1 250	\$1 250
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		each	#N/A	\$0,00	\$0		\$0	\$0
Supply/install piping system		each	#N/A	\$0,00	\$0		\$0	\$0
Operate pumps to flood workings		m3	#N/A	\$0,00	\$0		\$0	\$0
INSTALL GROUNDWATER COLLECTION	NSYSTEM							
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								
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
Install permanent instrumentation		each	5 MBK	\$10 000,00	\$50 000		\$0	\$50 000
				Total	\$1 096 384		\$523 192	\$573 192
				% of Total			48%	52%

<sup>\*</sup> Cost for barge

#### 1 Tailings Impoundment Name:

#### **Tailings Storage Facility**

_			
Poi	٦d	#	1

ACTIVITY/MATERIAL	Notes	Unite	Quantity	Cost Code	Unit Cost	% Cost Land	Land Cost	Water
CONTROL ACCESS	Notes	Ullits	Quantity	Code	Unit Cost	COSt Land	Lanu Cost	Cost
Fence		m		#N/A	\$0,00	\$0	\$0	\$0
Signs		each		#N/A	\$0,00	\$0	\$0	
Berm		m3		#N/A	\$0,00	\$0	\$0	
Block roads		m3		#N/A	\$0,00	\$0	\$0	
Other				#N/A	\$0,00	\$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	
Rip rap		m3		#N/A	\$0,00	\$0	\$0	\$0
Vegetate		ha		#N/A	\$0,00	\$0	\$0	\$0
Raise crest		m3		#N/A	\$0,00	\$0	\$0	\$0
Flatten slopes		m3		#N/A	\$0,00	\$0	\$0	\$0
Other				#N/A	\$0,00	\$0	\$0	\$0
COVER TAILINGS								
Grade/shape tailings surface		m3		#N/A	\$0,00	\$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		m2		#N/A	\$0,00	\$0	\$0	\$0
Soil cover	Area top of TSF = 15 400 m <sup>2</sup> x 0.5 m thick OB	m3	77000	SB3L	\$5,10	\$392 700 50%	\$196 350	\$196 350
Rock cover	Area top of TSF = 15 400 m <sup>2</sup> x 2.5 m thick WR	m3	385000	RB3L	\$12,05	\$4 639 250 50%	\$2 319 625	\$2 319 625
Vegetate		m2		#N/A	\$0,00	\$0	\$0	\$0
Other				#N/A	\$0,00	\$0	\$0	\$0
BURY PAG ROCK								
Relocate PAG rock		m3		#N/A	\$0,00	\$0	\$0	\$0
Place cover over PAG rock		m3		#N/A	\$0,00	\$0	\$0	\$0
Raise crest of dam		m3		#N/A	\$0,00	\$0	\$0	
Other				#N/A	\$0,00	\$0	\$0	\$0
STABILIZE DECANT SYSTEM								
Excavate and replace		m3		#N/A	\$0,00	\$0	\$0	
Plug/backfill with concrete or clay		m3		#N/A	\$0,00	\$0	\$0	
Other				#N/A	\$0,00	\$0	\$0	\$0
REMOVE TAILINGS DISCHARGE								
Cyclones		m3		#N/A	\$0,00	\$0	\$0	
Pipe		m3		#N/A	\$0,00	\$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

#### 1 Tailings Impoundment Name:

#### **Tailings Storage Facility**

Pond # <u>1</u>

			Cost		9/	, 0	٧	Vater
ACTIVITY/MATERIAL Notes	Units	Quantity	Code	Unit Cost	Cost L	and Land Co	st C	ost
Excavate ditches -rock	m3		#N/A	\$0,00	\$0		\$0	\$0
Rip rap in channel base	m3		#N/A	\$0,00	\$0		\$0	\$0
FLOOD TAILINGS								
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, rock	m3		#N/A	\$0,00	\$0		\$0	\$0
Excavate channel, soil	m3		#N/A	\$0,00	\$0		\$0	\$0
Concrete	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
CONSTRUCT SEEPAGE COLLECTION 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	m3		#N/A	\$0,00	\$0		\$0	\$0
Supply geomembrane	m2		#N/A	\$0,00	\$0		\$0	\$0
Install geomembrane	m2		#N/A	\$0,00	\$0		\$0	\$0
Erosion protection layer	m3		#N/A	\$0,00	\$0		\$0	\$0
INSTALL GROUNDWATER COLLECTION SYSTEM								
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 & au moins 5 ou un peu plus	each	5	MBK	\$10 000,00	\$50 000	50% \$25 (	000	\$25 000
Install permanent instrumentation, drilling	each		#N/A	\$0,00	\$0			\$0
TREAT SEEPAGE - see "Water Management" and "Water Treatment"								
TREAT SUPERNATANT								
Pump water	m3		#N/A	\$0,00	\$0		\$0	\$0
Equipment maintenance and parts	allow		#N/A	\$0,00	\$0		\$0	\$0
Supply reagents	tonne		#N/A	\$0,00	\$0		\$0	\$0
		Α		atment costs	\$0			
Number of years of treatment	years							
•	•		Total tre	atment costs	\$0			\$0
				Total	\$5 081 950	\$2 540 9	975 \$	\$2 540 975
				% of Total		5	0%	50%

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

Rock Pile Name: WRSF 1

ACTIVITY/MATERIAL	Notes	Unito	Quantity	Cost Code	Unit Cost	% Cost Lan	Land d Cost	Water Cost
STABILIZE SLOPES	Notes	Units	Quantity	Code	Unit Cost	COSt Lan	u Cost	water Cost
Flatten slopes with dozer		m3		#N/A	\$0,00	\$0	9	0 \$0
Flatten "bubble dump" areas		m3		#N/A	\$0,00	\$0		0 \$0
Divert runon, ditch mat'l A		m3		#N/A	\$0,00	\$0		0 \$0
Divert runon, ditch mat'l B		m3		#N/A	\$0,00	\$0		0 \$0
Toe buttress, drain mat'l		m3		#N/A	\$0,00	\$0		0 \$0
Toe buttress, fill mat'l A		m3		#N/A	\$0,00	\$0		0 \$0
Toe buttress, fill mat'l B		m3		#N/A	\$0,00	\$0		0 \$0
Grade WRSF 1	1.0 m over 50 % of WRSF 1 footprint (41.4 ha)	m3	207000				, 0%  \$108 67	
COVER ROCK PILE	(				ψ.,σσ	<b>42</b> 000 0	σ, σ <del>φ</del> , σ σ σ .	ψ.σσσ.σ
Subgrade preparation - doze surface		m3		#N/A	\$0,00	\$0	9	0 \$0
Soil cover - excavate, haul, spread & compact		m3		#N/A	\$0,00	\$0		50 \$0
Rock cover - excavate,haul & spread		m3		#N/A	\$0,00	\$0		50 \$0
Excavate downslope drainage channel & ch	ute	m3		#N/A	\$0,00	\$0		50 \$0
Rip rap drainage channel and chute		m3		#N/A	\$0,00	\$0		50 \$0
Vegetate		ha		#N/A	\$0,00	\$0		50 \$0
Other				#N/A	\$0,00	\$0	9	50 \$0
VERY LOW PERMEABILITY COVER (in a	ddition to above)							
Liner subgrade preparation - compact	·	m2		#N/A	\$0,00	\$0	\$	0 \$0
Supply geomembrame		m2		#N/A	\$0,00	\$0	\$	0 \$0
Install geomembrane		m2		#N/A	\$0,00	\$0	\$	0 \$0
Protective cover - excavate,haul,spread&co	mpact	m3		#N/A	\$0,00	\$0	\$	50 \$0
Vegetate		ha		#N/A	\$0,00	\$0	\$	0 \$0
Install infiltration/seepage instrumentation		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		#N/A	\$0,00	\$0	\$	50 \$0
Rip rap in channel base		m3		#N/A	\$0,00	\$0	\$	50 \$0
CONSTRUCT SEEPAGE COLLECTION P	OND							
Excavate seepage collection pond		m3		#N/A	\$0,00	\$0	\$	0 \$0
Doze & spread excavated material		m3		#N/A	\$0,00	\$0	\$	50 \$0
Vegetate spread material		ha		#N/A	\$0,00	\$0	\$	\$0 \$0
Bedding layer		m3		#N/A	\$0,00	\$0	\$	50 \$0
Supply geomembrane		m2		#N/A	\$0,00	\$0	\$	\$0 \$0
Install geomembrane		m2		#N/A	\$0,00	\$0	\$	\$0 \$0
Erosion protection layer		m3		#N/A	\$0,00	\$0	\$	\$0 \$0
INSTALL GROUNDWATER COLLECTION	SYSTEM							

3 Rock Pile Name: WRSF 1

ACTIVITY/MATERIAL Notes	Units	Quantity	Cost Code	Unit Cost	% Cost L	⁄₀ ₋and	Land Cost	Water Cost
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	allow		#N/A	\$0,00	\$0		\$0	\$0
RELOCATE DUMPS								
Load, haul, dump or doze	m3		#N/A	\$0,00	\$0		\$0	\$0
Add lime	tonne		#N/A	\$0,00	\$0		\$0	\$0
Contour reclaimed area	ha		#N/A	\$0,00	\$0		\$0	\$0
Other			#N/A	\$0,00	\$0		\$0	\$0
SPECIALIZED ITEMS								
Install permanent instrumentation	each	3	MBK	\$10 000,00	\$30 000	50%	\$15 000	\$15 000
Install permanent instrumentation, drilling	each		#N/A	\$0,00	\$0		\$0	\$0
TREAT ROCK PILE SEEPAGE - see "Water Treatment"								
HEAP LEACH SEEPAGE TREATMENT - Cyanide Detox								
Cyanide destruction water treatment pumping	m3		#N/A	\$0,00	\$0		\$0	\$0
Reagents	tonnes		#N/A	\$0,00	\$0		\$0	\$0
Electrician/mechanic to maintain treatment plant	allow		#N/A	\$0,00	\$0		\$0	\$0
Equipment maintenance and parts	allow		#N/A	\$0,00	\$0		\$0	\$0
		An	nual trea	atment costs	\$0			
Number of years of treatment	years							
		Т	Total trea	atment costs	\$0			\$0
HEAP LEACH SEEPAGE TREATMENT - ARD/ML**								
Upgrade/modify pumping system - report to WTP	allow		#N/A	\$0,00	\$0			\$0
				Total % of Total	\$247 350		\$123 675 50%	

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

<sup>\*\*</sup>Heap leach ARD/ML seepage treatment becomes post-closure water treatment cost

**Rock Pile Name:** 

WRSF 2 (removed from planning)

<u>1</u>

		Cost		%	Land	Water
ACTIVITY/MATERIAL Notes	Units	Quantity Code	Unit Cost	Cost Land	Cost	Cost
STABILIZE SLOPES	•	// 1./ 4	40.00	40	Φ0	00
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	\$0
COVER ROCK PILE						
Subgrade preparation - doze surface	m3	#N/A	\$0,00	\$0	\$0	
Soil cover - excavate,haul,spread&compact	m3	#N/A	\$0,00	\$0	\$0	\$0
Rock cover - excavate,haul & spread	m3	#N/A	\$0,00	\$0	\$0	
Excavate downslope drainage channel & chute	m3	#N/A	\$0,00	\$0	\$0	\$0
Rip rap drainage channel and chute	m3	#N/A	\$0,00	\$0	\$0	\$0
Vegetate	ha	#N/A	\$0,00	\$0	\$0	\$0
Other		#N/A	\$0,00	\$0	\$0	\$0
VERY LOW PERMEABILITY COVER (in addition to above)						
Liner subgrade preparation - compact	m2	#N/A	\$0,00	\$0	\$0	\$0
Supply geomembrame	m2	#N/A	\$0,00	\$0	\$0	\$0
Install geomembrane	m2	#N/A	\$0,00	\$0	\$0	\$0
Protective cover - excavate,haul,spread&compact	m3	#N/A	\$0,00	\$0	\$0	\$0
Vegetate	ha	#N/A	\$0,00	\$0	\$0	\$0
Install infiltration/seepage instrumentation	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	#N/A	\$0,00	\$0	\$0	\$0
Rip rap in channel base	m3	#N/A	\$0,00	\$0	\$0	\$0
CONSTRUCT SEEPAGE COLLECTION 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	m3	#N/A	\$0,00	\$0	\$0	\$0
Supply geomembrane	m2	#N/A	\$0,00	\$0	\$0	
Install geomembrane	m2	#N/A	\$0,00	\$0	\$0	
•	··· <del>-</del>		T-,	<del>T -</del>	70	7.5

Rock Pile Name: WRSF 2 (removed from planning)

1

			Cost		%	Land	Water
ACTIVITY/MATERIAL Notes	Units	Quantity	Code	Unit Cost	Cost Land	Cost	Cost
Erosion protection layer	m3		#N/A	\$0,00	\$0	\$	0 \$0
INSTALL GROUNDWATER COLLECTION SYSTEM							
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	allow		#N/A	\$0,00	\$0	\$	0 \$0
RELOCATE DUMPS							
Load, haul, dump or doze	m3		#N/A	\$0,00	\$0	\$	0 \$0
Add lime	tonne		#N/A	\$0,00	\$0	\$	0 \$0
Contour reclaimed area	ha		#N/A	\$0,00	\$0	\$	0 \$0
Other			#N/A	\$0,00	\$0	\$	0 \$0
SPECIALIZED ITEMS							
Install permanent instrumentation	each	N	ИBK	\$0,00	\$0 50°	6 \$	0 \$0
Install permanent instrumentation, drilling	each		#N/A	\$0,00	\$0	\$	0 \$0
TREAT ROCK PILE SEEPAGE - see "Water Treatment"							
HEAP LEACH SEEPAGE TREATMENT - Cyanide Detox							
Cyanide destruction water treatment pumping	m3		#N/A	\$0,00	\$0	\$	0 \$0
Reagents	tonnes		#N/A	\$0,00	\$0	\$	0 \$0
Electrician/mechanic to maintain treatment plant	allow		#N/A	\$0,00	\$0	\$	0 \$0
Equipment maintenance and parts	allow		#N/A	\$0,00	\$0	\$	0 \$0
			Annual tr	eatment costs	\$0		
Number of years of treatment	years						
			Total tr	eatment costs	\$0		\$0
HEAP LEACH SEEPAGE TREATMENT - ARD/ML**							
Upgrade/modify pumping system - report to WTP	allow		#N/A	\$0,00	\$0		\$0
				Total	\$0	\$	
				% of Total		0%	6 0%

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

<sup>\*\*</sup>Heap leach ARD/ML seepage treatment becomes post-closure water treatment cost

Rock Pile Name: WRSF 3 <u>2</u>

ACTIVITY/MATERIAL Notes  STABILIZE SLOPES Flatten slopes with dozer	Units	Quantity	Code	Unit Cost			
				Jiii 0001	Cost Land	Cost	Cost
Flatten slopes with dozer	2		4N1/A	<b>#0.00</b>	¢Ω	<b>ው</b> ር	٠
Flatter Which has diving the constant	m3		#N/A	\$0,00	\$0 \$0	\$0	
Flatten "bubble dump" areas	m3		#N/A	\$0,00	<b>\$</b> 0	\$0	
Divert runon, ditch mat'l A	m3		#N/A	\$0,00	\$0 \$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	\$C	
Other			#N/A	\$0,00	\$0	\$0	\$0
COVER ROCK PILE							
Subgrade preparation - doze surface	m3		#N/A	\$0,00	\$0	\$C	
Soil cover - excavate,haul,spread&compact	m3		#N/A	\$0,00	\$0	\$C	\$0
Rock cover - excavate,haul & spread	m3		#N/A	\$0,00	\$0	\$0	\$0
Excavate downslope drainage channel & chute	m3		#N/A	\$0,00	\$0	\$0	\$0
Rip rap drainage channel and chute	m3		#N/A	\$0,00	\$0	\$0	\$0
Vegetate	ha		#N/A	\$0,00	\$0	\$0	\$0
Other			#N/A	\$0,00	\$0	\$0	\$0
VERY LOW PERMEABILITY COVER (in addition to above)							
Liner subgrade preparation - compact	m2		#N/A	\$0,00	\$0	\$0	\$0
Supply geomembrame	m2		#N/A	\$0,00	\$0	\$0	\$0
Install geomembrane	m2		#N/A	\$0,00	\$0	\$0	\$0
Protective cover - excavate,haul,spread&compact	m3		#N/A	\$0,00	\$0	\$0	\$0
Vegetate	ha		#N/A	\$0,00	\$0	\$0	\$0
Install infiltration/seepage instrumentation	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		#N/A	\$0,00	\$0	\$0	
Rip rap in channel base	m3		#N/A	\$0,00	\$0	\$0	\$0
CONSTRUCT SEEPAGE COLLECTION POND				. ,			· _
Excavate seepage collection pond	m3		#N/A	\$0,00	\$0	\$0	\$0
Doze & spread excavated material	m3		#N/A	\$0,00	\$0	\$0	
Vegetate spread material	ha		#N/A	\$0,00	\$0	\$0	

**Rock Pile Name:** 

Contour reclaimed area

SPECIALIZED ITEMS

Install permanent instrumentation

Equipment maintenance and parts

Number of years of treatment

Install permanent instrumentation, drilling

Cyanide destruction water treatment pumping

Electrician/mechanic to maintain treatment plant

HEAP LEACH SEEPAGE TREATMENT - ARD/ML\*\*
Upgrade/modify pumping system - report to WTP

TREAT ROCK PILE SEEPAGE - see "Water Treatment" HEAP LEACH SEEPAGE TREATMENT - Cyanide Detox

Other

Reagents

\$0

\$0

50% \$30 000 \$30 000

\$0

\$0

\$0

\$0

\$0

\$30 000 \$30 000

50%

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$0

50%

<u>2</u>

\$0,00

\$0,00

\$0.00

\$0,00

\$0,00

\$0,00

\$0,00

\$0,00

Total

% of Total

\$10 000,00

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$60 000

\$60 000

				Cost		%	Land	Water
ACTIVITY/MATERIAL	Notes	Units	Quantity	Code	Unit Cost	Cost Land	Cost	Cost
Bedding layer		m3		#N/A	\$0,00	\$0	\$	0 \$0
Supply geomembrane		m2		#N/A	\$0,00	\$0	\$	0 \$0
Install geomembrane		m2		#N/A	\$0,00	\$0	\$	0 \$0
Erosion protection layer		m3		#N/A	\$0,00	\$0	\$	0 \$0
<b>INSTALL GROUNDWATER COLLE</b>	CTION SYSTEM							
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 supp	у	allow		#N/A	\$0,00	\$0	\$	0 \$0
RELOCATE DUMPS								
Load, haul, dump or doze		m3		#N/A	\$0,00	\$0	\$	0 \$0
Add lime		tonne		#N/A	\$0,00	\$0	\$	0 \$0

ha

each

each

m3

tonnes

allow

allow

years

allow

#N/A

#N/A

#N/A

#N/A

#N/A

#N/A

#N/A

#N/A

Annual treatment costs

Total treatment costs

6 MBK

WRSF 3

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

<sup>\*\*</sup>Heap leach ARD/ML seepage treatment becomes post-closure water treatment cost

2 Building / Equip Name: Meliadine Bldg / Equip #: 1

ACTIVITY/MATERIAL	Notes	Unita	Overetites	Cost	Unit Cost	Coot 0	% Land	Land Coot	Water Cost
DISPOSE MOBILE EQUIPMENT (surfa)	Notes	Units	Quantity	Code	Unit Cost	Cost	⁄ <sub>6</sub> Lanu	Land Cost	water Cost
Dispose and ship off-site		allow		#N/A	\$0.00	\$0		\$0	\$0
Dispose on-site		allow		#N/A	\$0.00	\$0		\$0	\$0
Decontaminate on-site	surface equipment only	anhours	1739 ו		\$49.00	\$85 211	50%		\$42 606
REMOVE BUILDINGS - see note below	Surface Squipmont only	a i i i o a i o	1700		ψ 10,00	ψου 211	0070	ψ12 000	Ψ12 000
Accomodation Complex	dorms, corridors, kitchen, laundry, dry, rec hall, ERT	m2	15915	BRS1I	\$45,00	\$716 175	50%	\$358 088	\$358 088
Main Building process plant	Assuming 5000 TPD plant	m2	148212		\$65,00	\$9 633 780		\$4 816 890	\$4 816 890
Crusher and conveyor		m2		BRS1L	\$45,00	\$68 564	50%	•	
Tire Shop		m2		BRS1L	\$45,00	\$6 038	50%	•	\$3 019
Offices, Repair, Lab, Warehouse (MSB)	workers dry Offices, Multi Services Building	m2	21454		\$45,00	\$965 435	50%		\$482 718
Storage Facilites	,	m2	ı	BRS1L	\$45,00	\$0	50%	\$0	\$0
Sewage water Treatment Facilities		m2	311	BRS1L	\$45,00	\$14 004	50%	\$7 002	\$7 002
Effluent water treatment facilities		m2	1182	BRS1L	\$45,00	\$53 171	50%	\$26 586	\$26 586
Saline water treatment facilities		m2	9767	BRS1L	\$45,00	\$439 514	50%	\$219 757	\$219 757
Potable water treatment facilities		m2	54 1	BRS1L	\$45,00	\$2 435	50%	\$1 217	\$1 217
Water and Wastewater Treatment Facilities -	- Pu RO treatment plant, EWTP, SWTP, STP, WTP	each	5 3	SNC	\$80 000,00	\$400 000	50%	\$200 000	\$200 000
U/G Heating Plant		m2	I	BRS1L	\$45,00	\$0	50%	\$0	\$0
Emulsion Plant and garage		m2	851 I	BRS1L	\$45,00	\$38 301	50%	\$19 151	\$19 151
AN Storage Facility		m2	I	BRS1L	\$45,00	\$0	50%	\$0	\$0
Storage Facility at Laydown/Airstrip		m2		BRS1L	\$45,00	\$0	50%	\$0	\$0
Fuel tanks on-site		m2	3768	BRS1H	\$65,00	\$244 908	50%	\$122 454	\$122 454
Wash bay		m2	976 1	BRS1L	\$45,00	\$43 905	50%	\$21 952	\$21 952
KCG Temp.		m2	1673	BRS1L	\$45,00	\$75 263	50%	\$37 631	\$37 631
KCG Perm.		m2	2738	BRS1L	\$45,00	\$123 188	50%	\$61 594	\$61 594
Break foundation slabs	ICRP 2019 +new buildings 2020 (25072+1974,74) based	m2	27047	BRCS	\$6,00	\$162 280	50%	\$81 140	\$81 140
Batch Plant		m2	3013	BRS1L	\$45,00	\$135 584	50%	\$67 792	\$67 792
Power Plant		m2	9392	BRS1L	\$45,00	\$422 647	50%	\$211 324	\$211 324
Consolidate & dump boneyard debris		m3	I	BRS1L	\$45,00	\$0	50%	\$0	\$0
Paste Plant		m2	3630 I	BRS1L	\$45,00	\$163 350	50%	\$81 675	\$81 675
Guard House	Gate Trailer House	m2	37 1	BRS1L	\$45,00	\$1 652	50%	\$826	\$826
Itivia Harbour - Saline Water Tank		m2		BRS1L	\$45,00	\$0	50%	\$0	\$0
Itivia Floating Dock + Portable Crane		m2	I	BRS1L	\$45,00	\$0	50%	\$0	\$0
Incinerator Building		m2	533	BRS1L	\$45,00	\$23 997	50%	\$11 999	\$11 999
Mine Surface General	existing and future office, megadome, explos. plant	m2	I	BRS1L	\$45,00	\$0	50%	\$0	\$0
Maintenance Shop	Mechanical shops and Megadome	m2	6285	BRS1L	\$45,00	\$282 814	50%	\$141 407	\$141 407
Exploration Camp	Existing does not include fuel storage area	m2	4257	BRS1L	\$45,00	\$191 565	50%	\$95 783	\$95 783
Assay Lab/Core shack		m2	5705	BRS1L	\$45,00	\$256 725	50%	\$128 363	\$128 363
Raises Building/		m2	2156	BRS1L	\$45,00	\$97 033	50%	\$48 516	\$48 516

2 Building / Equip Name:	Meliadine	Bldg / Equip #: <u>1</u>
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ACTIVITY/MATERIAL	Notes	Units	Quantity	Cost Code	Unit Cost	Cost	% Land	Land Cost	Water Cost
Saline effluent Itivia	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	m		#N/A	\$0,00	\$0	50%	\$0	
Communication Tower		m2	247	BRS1L	\$45,00	\$11 136	50%		\$5 568
LANDFILL and landfarm									
Place rock coverfil	landfill 7750 m² (as-built), covered with 3.7 m WR	m3	28675	RR3L	\$7,00	\$200 725	50%	\$100 363	\$100 363
Place rock cover landfarm	, ,	m3		#N/A	\$0,00	\$0		\$0	\$0
Base, sides and cover of closure landfill		m3		RR3L	\$7,00	\$0		\$0	\$0
GRADE AND CONTOUR PADS									
Accomodation Complex		m3	11671,00	AEM	\$8,47	\$98 853	50%	\$49 427	\$49 427
Exploration Camp		m3	4682,70	AEM	\$8,47	\$39 662	50%	\$19 831	\$19 831
Process Facilities		m3	•	AEM	\$8,47	\$0	50%	\$0	\$0
Offices, Repair, Lab, Warehouse (MSB)		m3	4394,698	AEM	\$8,47	\$37 223	50%	\$18 612	\$18 612
Water and Wastewater Treatment Facilities		m3	2771,32	AEM	\$8,47	\$23 473	50%	\$11 737	\$11 737
U/G Heating Plant		m3		AEM	\$8,47	\$0	50%	\$0	\$0
Emulsion Plant and Garage		m3	482,60	AEM	\$8,47	\$4 088	50%	\$2 044	\$2 044
Main Building process plant		m3	13662,00	AEM	\$8,47	\$115 717	50%	\$57 859	\$57 859
Wash bay		m3	357,74	AEM	\$8,47	\$3 030	50%	\$1 515	\$1 515
KCG Temp. (foldway)		m3	613,25	AEM	\$8,47	\$5 194	50%	\$2 597	\$2 597
KCG Perm.(Honco type)		m3	1003,75	AEM	\$8,47	\$8 502	50%	\$4 251	\$4 251
Guard House		m3	40,392	AEM	\$8,47	\$342	50%	\$171	\$171
Fuel tanks on-site		m3	888,13	AEM	\$8,47	\$7 522	50%	\$3 761	\$3 761
Fuel Tanks Itivia		m3		AEM	\$8,47	\$0	50%	\$0	\$0
Incinerator Building		m3	209,00	AEM	\$8,47	\$1 770	50%	\$885	\$885
Paste Plant		m3	726,00	AEM	\$8,47	\$6 149	50%	\$3 075	\$3 075
Power Plant		m3	2173,50	AEM	\$8,47	\$18 410	50%	\$9 205	\$9 205
Assay Lab		m3		AEM	\$8,47	\$0	50%	\$0	\$0
Maintenance Shop		m3	3606,90	AEM	\$8,47	\$30 550	50%	\$15 275	\$15 275
Mine Surface General		m3		AEM	\$8,47	\$0	50%	\$0	\$0
Communication Tower		m3	13,38	AEM	\$8,47	\$113	50%	\$57	\$57
Core shack		m3	1925,00	AEM	\$8,47	\$16 305	50%	\$8 152	\$8 152
Crusher and conveyor		m3	1676,02	AEM	\$8,47	\$14 196	50%	\$7 098	\$7 098
Raises Building/		m3	847,11	AEM	\$8,47	\$7 175	50%	\$3 588	\$3 588
Batch Plant		m3	1215,50	AEM	\$8,47	\$10 295	50%	\$5 148	\$5 148
Tire Shop		m3	77,00	AEM	\$8,47	\$652	50%	\$326	\$326
	Ore pad footprint based on GA (2019+extension)								
Ore Pad +extension	10.3 ha +5.6 ha	m3	159000,00	AEM	\$8,47	\$1 346 730	50%	\$673 365	\$673 365
Storage Facilites	Containers area	m3	51562		\$8,47	\$436 730	50%	\$218 365	\$218 365
Pad Container 1	11631 m2	m3	11631,00	AEM	\$8,47	\$98 515	50%	\$49 257	\$49 257

2 Building / Equip Name:	Meliadine	Bldg / Equip #: <u>1</u>
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			Cost					
ACTIVITY/MATERIAL	Notes	Units	Quantity Code	Unit Cost	Cost %	Land	Land Cost	Water Cost
Pad Container 2	10236 m2	m3	10236,00 AEM	\$8,47	\$86 699	50%	\$43 349	\$43 349
Warehouse pad	28866 m2	m3	28866,00 AEM	\$8,47	\$244 495	50%	\$122 248	\$122 248
Garage Area	22955 m2	m3	22955,00 AEM	\$8,47	\$194 429	50%	\$97 214	\$97 214
Mobil crusher staging area	26514 m2	m3	26514,00 AEM	\$8,47	\$224 574	50%	\$112 287	\$112 287
Waste staging area	12180 m2	m3	12180,00 AEM	\$8,47	\$103 165	50%	\$51 582	\$51 582
Ore staging area	12640 m2	m3	12640,00 AEM	\$8,47	\$107 061	50%	\$53 530	\$53 530
PUNCTURE LINED SUMPS								
Puncture liner and place soil cover		m3	#N/A	\$0,00	\$0		\$0	\$0
RECLAIM ROADS								
Remove culverts	16 based on Water Management Plan	each	16 MBK	\$4 000,00	\$64 000	50%	\$32 000	\$32 000
Remove bridges		each	#N/A	\$0,00	\$0	50%	\$0	\$0
Scarify and install water breaks	About 15 km road on site, mean width about 12 m	ha	18 SCFYL	\$4 300,00	\$77 400	50%	\$38 700	\$38 700
Scarify airstriip		ha	#N/A	\$0,00	\$0		\$0	\$0
Scarify laydown areas		ha	#N/A	\$0,00	\$0		\$0	\$0
Vegetate		ha	#N/A	\$0,00	\$0		\$0	\$0
Scarify road to Discovery	15.8 km, width about 17 m	ha	26,86 SCFYL	\$4 300,00	\$115 498	50%	\$57 749	\$57 749
Scarify pad	Discovery pad	ha	1 SCFYL	\$4 300,00	\$4 300	50%	\$2 150	\$2 150
Remove culverts road to Discovery	4 crossing water* 4 culverts	each	16 MBK	\$4 000,00	\$64 000	50%	\$32 000	\$32 000
Scarify road to NORMEG	1,503 km width about 17 m	ha	2,5551 SCFYL	\$4 300,00	\$10 987	50%	\$5 493	\$5 493
Scarify road to WESTMEG 01	386 m width about 17 m	ha	0,6562 SCFYL	\$4 300,00	\$2 822	50%	\$1 411	\$1 411
Scarify road to PUMP01	4,042 km width about 17 m	ha	6,8714 SCFYL	\$4 300,00	\$29 547	50%	\$14 774	\$14 774
Scarify road to FZONE01	1,892 km width about 17 m	ha	3,2164 SCFYL	\$4 300,00	\$13 831	50%	\$6 915	\$6 915
Scarify road from FZONE01 toDiscovery road	1.432 km width about 17 m	ha	2,4344 SCFYL	\$4 300,00	\$10 468	50%	\$5 234	\$5 234
Boat launch	along the Discovery road	each	1 AEM	\$2 000,00	\$2 000	50%	\$1,000	\$1,000
Other			#N/A	\$0,00	\$0		\$0	\$0
SPECIALIZED ITEMS								
Dispose of misc. debris and laydown area refus	se		#N/A	\$0,00	\$0		\$0	\$0
				Total	\$18 543 870		\$9 271 935	\$9 271 935
				% of Total			50%	50%

Note: Unit costs are based on 3m high, single storey building. Scale larger building areas accordingly. E.g. ( H m /3) \* Foot print m2

Building / Equip Name: ITIVIA + Road Bldg / Equip #: AWAR / ITIVIA

ACTIVITY/MATERIAL	Notes	Units Qu	antity Cost Code	<b>Unit Cost</b>	Cost %	Land	Land Cost	Water Cost
DISPOSE MOBILE EQUIPMENT								
Dispose and ship off-site		allow	#N/A	\$0,00	\$0		\$0	\$0
Dispose on-site		allow	#N/A	\$0,00	\$0		\$0	\$0
Decontaminate on-site		manhours	#N/A	\$0,00	\$0		\$0	\$0
REMOVE BUILDINGS - see note below								
Accomodation Complex	dorms, corridors, kitchen, laundry, dry, rec hall, ERT	m2	BRS1H	\$65,00	\$0		\$0	\$0
Process Facilities		m2	BRS1H	\$65,00	\$0		\$0	\$0
Offices, Repair, Lab, Warehouse		m2	BRS1H	\$65,00	\$0		\$0	\$0
Storage Facilites		m2	BRS1H	\$65,00	\$0		\$0	\$0
Water and Wastewater Treatment Facilities	RO treatment plant, EWTP, SWTP, STP, WTP	m2	BRS1H	\$65,00	\$0		\$0	\$0
Water and Wastewater Treatment Facilities -	- Pumping systems	m3	#N/A	\$0,00	\$0		\$0	\$0
U/G Heating Plant		m2	BRS1H	\$65,00	\$0		\$0	\$0
Emulsion Plant		m2	BRS1H	\$65,00	\$0		\$0	\$0
AN Storage Facility		m2	BRS1H	\$65,00	\$0		\$0	\$0
Warehouse, Shops and Other		m2	BRS1H	\$65,00	\$0		\$0	\$0
Storage Facility at Laydown/Airstrip		m2	BRS1H	\$65,00	\$0		\$0	\$0
Fuel tanks on-site		m2	BRS1H	\$65,00	\$0		\$0	\$0
Fuel Tanks Itivia	3 tanks - 20ML and 13.5ML and 4ML	m2	4918 BRS1H	\$65,00	\$319 670	50%	\$159 835	\$159 835
Reclaim pumps		m2	BRS1H	\$65,00	\$0		\$0	\$0
Outfall & Diffuser		m2	BRS1H	\$65,00	\$0		\$0	\$0
Airstrip lighting, navigation, electrician		mandays	BRS1H	\$65,00	\$0		\$0	\$0
Airstrip lighting, navigation, mechanical		mandays	BRS1H	\$65,00	\$0		\$0	\$0
Break foundation slabs	about 1m below ground surface	m2	4918 BRCS	\$6,00	\$29 508	50%	\$14 754	\$14 754
Power Plant		m2	BRS1H	\$65,00	\$0		\$0	\$0
Guard House	Gate Trailer House	m2	BRS1H	\$65,00	\$0		\$0	\$0
Itivia Harbour - Saline Water Tank	salt water tank 15ML	m2	23,4 BRS1L	\$45,00	\$1 053	50%	\$527	\$527
Itivia Floating Dock + Portable Crane	Lump sum for reclamation	each	1 SNC	\$50 000,00	\$50 000	50%	\$25 000	\$25 000
Incinerator Building		m2	BRS1H	\$65,00	\$0		\$0	\$0
Mine Surface General	existing and future office, megadome, explos. plant	m2	BRS1H	\$65,00	\$0		\$0	\$0
Maintenance Shop	Including Oil Separation Treatment System	m2	BRS1H	\$65,00	\$0		\$0	\$0
Exploration Camp	Existing does not include fuel storage area	m2	BRS1H	\$65,00	\$0		\$0	\$0
Assay Lab	-	m2	BRS1H	\$65,00	\$0		\$0	\$0
Raises Building		m2	BRS1H	\$65,00	\$0		\$0	\$0
Communication tower			#N/A	\$0,00	\$0		\$0	\$0
LANDFILL FOR DEMOLITION WASTE								
Place rock cover	WR over operation landfill	m3	#N/A	\$0,00	\$0		\$0	\$0

Building / Equip Name: ITIVIA + Road Bldg / Equip #: AWAR / ITIVIA

ACTIVITY/MATERIAL	Notes	Units	Quantity	Cost Code	Unit Cost	Cost %	6 Land	Land Cost	Water Cost
Place soil cover	Soil Cap - Landfill and Septic Field	m3		#N/A	\$0,00	\$0		\$0	\$0
Base, sides and cover of closure landfill		ha		#N/A	\$0,00	\$0		\$0	\$0
GRADE AND CONTOUR PADS									
Accomodation Complex		ha		#N/A	\$0,00	\$0		\$0	\$0
Exploration Camp									
Process Facilities		ha		#N/A	\$0,00	\$0		\$0	\$0
Offices, Repair, Lab, Warehouse		ha		#N/A	\$0,00	\$0		\$0	\$0
Storage Facilites	Laydown areas and material storage area	m3	66800	AEM	\$8,47	\$565 796	50%	\$282 898	\$282 898
Water and Wastewater Treatment Facilities		ha		#N/A	\$0,00	\$0		\$0	\$0
U/G Heating Plant		ha		#N/A	\$0,00	\$0		\$0	\$0
Emulsion Plant		ha		#N/A	\$0,00	\$0		\$0	\$0
Main Building process plant		ha		#N/A	\$0,00	\$0		\$0	\$0
Place rock cover		ha		#N/A	\$0,00	\$0		\$0	\$0
Vegetate		ha		#N/A	\$0,00	\$0		\$0	\$0
Itivia Harbour - Saline Water Tank		m2	23,4	AEM	\$8,47	\$198	50%	\$99	\$99
Guard House		ha		#N/A	\$0,00	\$0		\$0	\$0
Fuel tanks on-site		ha		#N/A	\$0,00	\$0		\$0	\$0
Fuel Tanks Itivia	Tank farm	m³	16350,00	AEM	\$8,47	\$138 485	50%	\$69 242	\$69 242
Laydown area - Itivia Diffuser	Waterline Diffuser	ha	1 :	SCFYL	\$4 300,00	\$4 300	50%	\$2 150	\$2 150
Paste Plant		ha		#N/A	\$0,00	\$0		\$0	\$0
Power Plant		ha		#N/A	\$0,00	\$0		\$0	\$0
Assay Lab		ha		#N/A	\$0,00	\$0		\$0	\$0
Maintenance Shop		ha		#N/A	\$0,00	\$0		\$0	\$0
Mine Surface General		ha		#N/A	\$0,00	\$0		\$0	\$0
PUNCTURE LINED SUMPS									
Puncture liner and place soil cover		m3		#N/A	\$0,00	\$0		\$0	\$0
RECLAIM QUARRIES									
Drill and blast slopes to 1:1	18 quarries and borrow pits, including 3 from site	m3	14319	RB3H	\$17,80	\$254 878	50%	\$127 439	\$127 439
RECLAIM ROADS									
Remove culverts	8 x AWAR, 19 x Bypass	each	27	MBK	\$4 000,00	\$108 000	50%	\$54 000	\$54 000
Remove bridges	Meliadine river bridge and M5 bridge	each	2	MBK	\$25 000,00	\$50 000	50%	\$25 000	\$25 000
Scarify and install water breaks	23.8 km AWAR, 6.2 km Bypass, 6.5m width	ha	19,5	SCFYL	\$4 300,00	\$83 850	50%	\$41 925	\$41 925
Scarify airstriip		ha		#N/A	\$0,00	\$0		\$0	\$0
Scarify laydown areas		ha		#N/A	\$0,00	\$0		\$0	\$0
Vegetate		ha		#N/A	\$0,00	\$0		\$0	\$0
Burried pipeline removal along AWAR	Based on CIRNAC 2020 estimation for pipeline excavati	each	1 (	CIRNAC	\$97 601,00	\$97 601	50%	\$48 801	\$48 801

Building / Equip Name:	ITIVIA + Road	Bldg / Equip #: AWAR / ITIVIA

ACTIVITY/MATERIAL	Notes	Units Quantity	Cost Code	Unit Cost	Cost % Land	Land Cost	Water Cost
Other			#N/A	\$0,00	\$0	\$0	\$0
Dispose of misc. debris and laydown area refe	use		#N/A	\$0,00	\$0	\$0	\$0
				Total % of Total	\$1 703 339	\$851 669 50%	\$851 669 50%

#### 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 Code	Unit Cost	Cost	Land	Land Cost	Water Cost
HAZARDOUS MATERIALS AUDIT									
Hazardous materials audit	m	nandays		#N/A	\$0,00	\$0		\$0	\$0
Phase 1 audit		each	1	MBK	\$7 500,00	\$7 500	50%	\$3 750	\$3 750
Phase 2 audit		each	1	MBK	\$50 000,00	\$50 000	50%	\$25 000	\$25 000
BUILDING DECONTAMINATION & CONSOLIDATION	OF HAZARDOUS MATERIALS								
Environmental technician/coordinator	m	nandays		#N/A	\$0,00	\$0		\$0	\$0
Decontaminate: oil, fuel and glycol systems	m	nandays		#N/A	\$0,00	\$0		\$0	\$0
Decontaminate maintenance shop		h	140	journeyh	\$71,79	\$10 051	50%	\$5 025	\$5 025
Decontaminate power plant		h	140	journeyh	\$71,79	\$10 051	50%	\$5 025	\$5 025
Decontaminate bulk fuel storage		h	140	journeyh	\$71,79	\$10 051	50%	\$5 025	\$5 025
Decontaminate emulsion plant		h	36	journeyh	\$71,79	\$2 584	50%	\$1 292	\$1 292
Decontaminate garage in P-area Laydown		h	140	journeyh	\$71,79	\$10 051	50%	\$5 025	\$5 025
Decontaminate offices/warehouse/accom	m	nandays		#N/A	\$0,00	\$0		\$0	\$0
Removal of asbestos siding on buildings		m2		#N/A	\$0,00	\$0		\$0	\$0
Removal of friable asbestos on equipment		m2		#N/A	\$0,00	\$0		\$0	\$0
HAZARDOUS MATERIALS REMOVAL									
Waste oils		litre	40000	ORL	\$0,43	\$17 200	50%	\$8 600	\$8 600
Waste fuel	Type 1, e.g. diesel dregs	litre	235910	ORL	\$0,43	\$101 441	50%	\$50 721	\$50 721
Waste batteries		each	1	MBK	\$3 000,00	\$3 000	50%	\$1 500	\$1 500
Mill and water treatment reagents		kg	339887	PCRH	\$2,50	\$849 718	50%	\$424 859	\$424 859
Assay & environmental lab reagents		kg	10000	pcrh	\$2,50	\$25 000	50%	\$12 500	\$12 500
Machine shop paints, solvents etc		litre	7500	EXPLO	\$1,50	\$11 250	50%	\$5 625	\$5 625
Glycol		kg	60000	PCRH	\$2,50	\$150 000	50%	\$75 000	\$75 000
Process reagents		kg		#N/A	\$0,00	\$0		\$0	\$0
Nuclear sources		allow		#N/A	\$0,00	\$0		\$0	\$0
Other hazardous materials		allow		#N/A	\$0,00	\$0		\$0	\$0
HAZARDOUS MATERIALS									
Transportation to disposal facility		allow		#N/A	\$0,00	\$0		\$0	\$0
Disposal fees		allow		#N/A	\$0,00	\$0		\$0	\$0

#### 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.

Other		#N/A	\$0,00	\$0		\$0	\$0
CONTAMINATED SOILS							
Contam. soil investigation - Phase 1	each	1 MEL	\$25 000,00	\$25 000	50% \$	12 500	\$12 500
Contam. soil investigation - Phase 2	each	1 MEL	\$100 000,00	\$100 000	50% \$	50 000	\$50 000
CONTAMINATED SOIL REMOVAL							
Excavate, load, haul to biopile or: Excavate and transport to landf	arm m3	700 SC4L	\$9,30	\$6 510	50%	\$3 255	\$3 255
Remediate on-site at biopile or: Manage hydrocarbon remedlandf	arm m3	5000 CSRL	\$47,00	\$235 000	50% \$1	17 500	\$117 500
Remediate on-site at biopile or: Manage hydrocarbon							
remediation at facility (new landfarm area) landf	arm m3	5000 CSRL	\$47,00	\$235 000	50% \$1	17 500	\$117 500
Reagents/stabilizing agent	m2	#N/A	\$0,00	\$0	50%	\$0	\$0
Excavate and transport to offsite facility	m3	250	\$1 000,00	\$250 000	50% \$1	25 000	\$125 000
Excavate and transport to offsite facility (new landfarm area)	m3	250	\$1 000,00	\$250 000	50% \$1	25 000	\$125 000
Contour decontaminated area	m3	#N/A	\$0,00	\$0		\$0	\$0
CONTAMINATED SOIL VERY LOW PERMEABILITY COVER							
Supply geomembrame, HDPE, ES3, GCL	m2	#N/A	\$0,00	\$0		\$0	\$0
Upper and lower bedding layers	m3	#N/A	\$0,00	\$0		\$0	\$0
Install geomembrane, HDPE, ES3, GCL	m2	#N/A	\$0,00	\$0		\$0	\$0
Erosion protection layer	m3	#N/A	\$0,00	\$0		\$0	\$0
Vegetate	m2	#N/A	\$0,00	\$0		\$0	\$0
Install infiltration/seepage instrumentation	allow	#N/A	\$0,00	\$0		\$0	\$0
Other		#N/A	\$0,00	\$0		\$0	\$0
OTHER							
		#N/A	\$0,00	\$0		\$0	\$0
			Total	\$2 359 406	\$1 1	79 703	\$1 179 703
			% of Total			50%	50%

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

				Cost		
ACTIVITY/MATERIAL	Notes	Units	Quantity	Code	Unit Cost	Cost
BREACH DYKE EMBANKMENT						
Excavate breaches	D-CP1, D-CP5, D-CP6,	m3	2407,2		\$5,90	\$14 202
Backfill pond	CP7 - backfill	М3	188400	SB3L	\$5,10	\$960 840
Contour water intake area		m3		#N/A	\$0,00	\$0
STABILIZE SEDIMENT PONDS/WATER M	ANAGEMENT PONDS					
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
Saline Ponds	berm of SP1 and berm of SP3	m3	6030	SB1L	\$4,30	\$25 929
P-area	Water Licence B			#N/A	\$0,00	\$0
REDIRECT RUNOFF/CONSTRUCT DIVER	SION DITCHES					
Excavate ditches -soil		m3		#N/A	\$0,00	\$0
Excavate ditches -rock		m3		#N/A	\$0,00	\$0
Stabilize side slopes		m3		#N/A	\$0,00	\$0
Rip rap in channel base		m3		#N/A	\$0,00	\$0
BREACH DITCHES						
Excavate Diversion Berms	Remove completely Berm 1 and 3	m3	13017	SB1L	\$4,30	\$55 973
Removal berms of containment pond	Berm-CP3, Berm-CP4 and Berm CP7	m3	147380	SB1L	\$4,30	\$633 734
Backfill & contour channels	8 Diversion Channels, 2 Channels WRSF-3 (T-Channel 1 and 2)	m3	37781	SB3L	\$5,10	\$192 683
Install flow dissipation		m3		#N/A	\$0,00	\$0
Vegetate remainder of ditch		m2		#N/A	\$0,00	\$0
DECOMISSION FRESH WATER SUPPLY						
Breach embankment		m		#N/A	\$0,00	\$0
Remove pump	Infras CP1-CP5-CP6-CP7	each	4	SNC	\$80 000,00	\$320 000
Remove pipeline - Diffuser Meliadine Lake		m	390	PLRL	\$22,00	\$8 580
Effluent diffuser Meliadine Lake		each	1	MBK	\$3 000,00	\$3 000
Freshwater intake	remove pump	each		MBK	\$3 000,00	\$3 000
Remove pipeline - Saline effluent	•	m		PLRL	\$22,00	\$17 116
Saline water effluent (Itivia)		each		MBK	\$3 000,00	\$3 000
WATER CONTROL IN RECLAMATION QU	ARRY				, ,	, , , , ,

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

			Cost		
ACTIVITY/MATERIAL	Notes		Quantity Code	Unit Cost	Cost
Install pumping system		LS	#N/A	\$0,00	\$0
Remove pumping system		LS	#N/A	\$0,00	\$0
REMOVE PIPELINES					
Remove piping on site	18,5 km length	m	18500 PLRL	\$22,00	\$407 000
Concrete plug deep pipes		m3	#N/A	\$0,00	\$0
Remove saline pipeline	(34 km+7km) *2	m	82000 PLRL	\$22,00	\$1 804 000
Diffuser					
New diffuser	25 M	each	1 MBK	\$6 000,00	\$6 000
Diffuser pipe	Outfall pipe	m	75 PLRH	\$72,00	\$5 400
GROUNDWATER COLLECTION S	SYSTEM				
Excavate/install sumps		m3	#N/A	\$0,00	\$0
Install pumping wells		m3	#N/A	\$0,00	\$0
Install pumps/pipelines/power supp	ply	LS	#N/A	\$0,00	\$0
CONSTRUCT CONTAMINATED W	/ATER 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		m3	#N/A	\$0,00	\$0
CONSTRUCT PASSIVE TREATME	ENT SYSTEM (e.g. Constructed Wetland)				
Construct access roads		km	#N/A	\$0,00	\$0
Install HDPE piping system from co	ollection pond	m	#N/A	\$0,00	\$0
Inter-cell flow structures		allow	#N/A	\$0,00	\$0
Install liners		m2	#N/A	\$0,00	\$0
Install growth media		m3	#N/A	\$0,00	\$0
Wetland vegetation		ha	#N/A	\$0,00	\$0
CONSTRUCT WATER TREATMEN	NT PLANT				
Build treatment plant		LS	#N/A	\$0,00	\$0

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

ACTIVITY/MATERIAL	Notes	Units Quant	Cost ity Code	Unit Cost	Cost
Build sludge containment facility		LS	#N/A	\$0,00	\$0
SHORT TERM WATER TREATME	NT*				
Annual water treatment cost, from	"Water Treatment"				\$0
				Total	¢4.460.4E0

\*Note: include water treatment cost from "Water Treatment" worksheet if treatment is considered short term and is not included in a particular component worksheet.

## 1 Long-Term / Post-Closure Water Treatment

ACTIVITY/MATERIAL	Notes	Units	Quantity	Cost Code	Unit Cost	Cost
ADDITION OF REAGENTS						
H2O2		kg		#N/A	\$0,00	\$0
lime		kg		#N/A	\$0,00	\$0
ferric sulphate		kg		#N/A	\$0,00	\$0
ferrous sulphate		kg		#N/A	\$0,00	\$0
flocculents		kg		#N/A	\$0,00	\$0
Other				#N/A	\$0,00	\$0
LABOUR AND SUPPLIES						
Annual fuel		litres		#N/A	\$0,00	\$0
Annual power		kW-h		#N/A	\$0,00	\$0
Electrician/mechanic to maintain treatmen	t plant	allow		#N/A	\$0,00	\$0
Equipment maintenance and parts		allow		#N/A	\$0,00	\$0
Misc. supplies, hoses, tools		allow		#N/A	\$0,00	\$0
Communications		allow		#N/A	\$0,00	\$0
Other				#N/A	\$0,00	\$0
WATER MANAGEMENT						
Water Treatment (reagents, equip.)	CP1 volume at max water elev (normal condition)	m3	742075	AEM	\$0,75	\$556 556
Skilled laborer	1 labor x 12hr/day x 6 months/yr	manhoı	2160	OPER-W1	\$41,00	\$88 560
Annual Treatment Plant Servicing	2 consultants x 7days/year	manhoı	168	MBK	\$120,00	\$20 160
Treatment Plant Servicing Travel Allowan	ce Round trip flight/person	visits	2	MBK	\$4 000,00	\$8 000
Camps Accomodations	30 days x 6 months + 7 days x 2 consultants	days	194	ACCML	\$100,00	\$19 400
WATER SAMPLING AND ANALYSES						
Sampling equipment		allow		#N/A	\$0,00	\$0
Analyses		allow		#N/A	\$0,00	\$0
Shipping to laboratory		allow		#N/A	\$0,00	\$0
Reporting		allow		#N/A	\$0,00	\$0
Other				#N/A	\$0,00	\$0
SITE ACCESS						
Road maintenance (incl. snow removal)		allow		#N/A	\$0,00	\$0

## 1 Long-Term / Post-Closure Water Treatment

ACTIVITY/MATERIAL	Notes	Units C		ost	Unit Cost	Cost
Winter road tariff		allow	#	N/A	\$0,00	\$0
Truck rental		allow	#	N/A	\$0,00	\$0
Air support		allow	#	N/A	\$0,00	\$0
			Annual water treatment costs		eatment costs	\$692 676
Number of years of water treatme	ent	years	3			
					Total	\$2 078 029

Note: Short term water treattment is intended to be included in "Water Management", whereas long term, or post-closure, water treatment is included in "Post-Closure Monitoring and Maintenance"

### 1 Interim Care and Maintenance

ACTIVITY/MATERIAL Note:	s	Units	Quantity	Cost Code	Unit Cost	Cost
INTERIM CARE & MAINTENANCE	_					
on-site caretaker		manmonths		#N/A	0	\$0
extra personnel		manmonths		#N/A	0	\$0
-electrician		manmonths		#N/A	0	\$0
-mechanic		manmonths		#N/A	0	\$0
annual fuel		litre		#N/A	0	\$0
misc. supplies		allow		#N/A	0	\$0
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		each		#N/A	0	\$0
geotechnical assessment		each		#N/A	0	\$0
interim water treatment				#N/A		\$692 676
Maintenance, surveillance, monitoring and inspect	ion-Active closure	each	1	#N/A		\$1 072 197
				Annual	Interim C&M Cost	\$1 764 873
Number of years of ICM		years	3		Total	5 294 619,75 \$

## 1 Mobilization/Demobilization:

			Cost	Unit	
ACTIVITY/MATERIAL Notes	Units	Quantity	Code	Cost	Cost
MOBILIZE HEAVY EQUIPMENT					
Excavators	each		#N/A	0	\$0
Barge to/from Rankin Inlet	each	3 /	AEM	1000000	\$3 000 000
Dump trucks	each		#N/A	0	\$0
Dozers	each		#N/A	0	\$0
Demolition shears	each	1	#N/A	1000000	\$1 000 000
Crane	each		#N/A	0	\$0
Loader	each		#N/A	0	\$0
Compactor	each		#N/A	0	\$0
Light duty vehicles	each		#N/A	0	\$0
MOBILIZE MISC. EQUIPMENT					
Pump shipping	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					
Reclamation activities	allow		#N/A	0	\$0
Long term reclamation activities (eg pump flooding)	allow		#N/A	0	\$0
MOBILIZE WORKERS					
Reclamation activities - transport 26 workers, 4 trips/yr, 3 yr	each	312 /	AEM	1386	\$432 432
Reclamation activities - travel time 26 workers, 4 trips/yr, 6h/trip, 3 yr	hour	1872 (	perl	41	\$76 752
Long term reclamation activities (eg pump flooding) - transport	each		#N/A	0	\$0
Long term reclamation activities (eg pump flooding) - travel time	each		#N/A	0	\$0
Monitoring Airfare	each		#N/A	0	\$0
Rotations over reclamation period	manhours		#N/A	0	\$0
Crew Rotations	each		#N/A	0	\$0
WORKER ACCOMODATIONS					
Reclamation activities Maintain camp for 26 workers, 180 days/yr, 3	yr mandays	14040 /	ACCML	100	\$1 404 000
Long term reclamation activities (eg pump flooding)	manmonths		#N/A	0	\$0
MOBILIZE FUEL					

## 1 Mobilization/Demobilization:

			Cost	Unit	
ACTIVITY/MATERIAL	Notes	<b>Units Quar</b>	ntity Code	Cost	Cost
Fuel freight - long term reclamation activities		litre	#N/A	0	\$0
Fuel freight accomodations		litre	#N/A	0	\$0
WINTER ROAD					
Construction and operation		km	#N/A	0	\$0
Limited winter use		km	#N/A	0	\$0
Winter road tarriff		km	#N/A	0	\$0
DEMOBILIZE HEAVY EQUIPMENT					
Excavators		km	#N/A	0	\$0
Mobile equipment		km 1	2235 MHERH	10,25	\$125 409
Dump trucks		km	#N/A	0	\$0
	Estimated 6000 to be the maximal capacity on site,				
Seacans	50 % of which remains at the site for closure	km 9	0000 MHERH	10,25	\$922 500
Dozers		km	#N/A	0	\$0
Demolition shears		km	30 MHERH	10,25	\$308
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					
		allow	#N/A	0	\$0
DEMOBILIZE WORKERS					
crew travel time		mandays	#N/A	0	\$0
crew transportation		each	#N/A	0	\$0
WINTER ROAD					
Construction and operation		km	#N/A	0	\$0
Limited winter use		km	#N/A	0	\$0
Winter road tarriff		km	#N/A	0	\$0

Total \$6 961 400

## 1 Closure Monitoring & Maintenance:

				Cost		
ACTIVITY/MATERIAL	Notes	Units	Quantity	Code	<b>Unit Cost</b>	Cost
MONITORING & INSPECTIONS Activ	e Closure					
Annual geotechnical inspection	1 eng, trans, rep, 5 days \$150 h, accom	each	1.	AEM	\$16 000,00	\$16 000
Annual Surface water sampling	Estimated cost from AEM	each	1 '	WSH	\$42 997,00	\$42 997
Groundwater sampling	AEM sampling cost list	each	,	WSH	\$0,00	\$0
Receiving/downstream water sampling		each	,	WSH	\$0,00	\$0
Monitoring program (Meliadine and AV	VAR) AEM sampling cost list	each	1.	AEM	\$955 000,00	\$955 000
Underground water		each	1 :	SNC	\$0,00	\$0
Regulatory costs*		each		#N/A	\$0,00	\$0
Site water monitoring (AEMP and SNP)		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
Air Quality Monitoring Program (AQMP)	)	each		#N/A	\$0,00	\$0
Wildlife Effects Monitoring Program (W	EMP)	each		#N/A	\$0,00	\$0
Vegetation Monitoring		each	1	#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 ditc	hes	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
MAINTENANCE AND SURVEILLANCE						
Site care-taker	bi-weekly visits, 2 care-takers, 12hr/day, 5 months per year	ınhours	480	OPERH	\$65,00	\$31 200
Site vehicule and equipment		allow	1 .	AEM	\$20 000,00	\$20 000
Accomodation and site maintenance	mandays	ALLOWS	40 .	ACCMh	\$175,00	\$7 000

## 1 Closure Monitoring & Maintenance:

ACTIVITY/MATERIAL Notes	Cost Units Quantity Code Unit Cost Cost
Subtotal, Annual post-closure costs	<u> </u>
Discount rate for calculation of net present value of post-closure cost, %	0,00%
Number of years of post-closure activity	3 years
Present Value of payment stream	\$3 216 591

<sup>\*</sup>Regulatory costs - annual reporting, management plans, progress reports etc.

Include water treatment cost from "Water Treatment" worksheet if treatment is considered long term, such as ARD/ML.

## 1 Closure Monitoring & Maintenance:

		Cost		
ACTIVITY/MATERIAL	Notes	Units Quantity Code	<b>Unit Cost</b>	Cost
<b>POST Closure Monitorin</b>	ng & Maintenance:			

ACTIVITY/MATERIAL	Notes	Units Qua	antity Cost	Unit Cost	Cost
MONITORING & INSPECTIONS					
Annual geotechnical inspection	1 eng, trans, rep, 5 days \$150 h, accom	each	1 AEM	\$16 000,00	\$16 000
Annual Surface water sampling	Estimated cost from AEM	each	1 WSH	\$42 927,00	\$42 927
Groundwater sampling	AEM sampling cost list	each	WSH	\$0,00	\$0
Receiving/downstream water sampling	I	each	WSH	\$0,00	\$0
Monitoring program (Meliadine and A\	WAR) AEM sampling cost list	each	1 AEM	\$477 500,00	\$477 500
Survey inspection		each	#N/A	\$0,00	\$0
Regulatory costs*		each	#N/A	\$0,00	\$0
Site water monitoring (AEMP and SNP	9)	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
Air Quality Monitoring Program (AQMF	9)	each	#N/A	\$0,00	\$0
Wildlife Effects Monitoring Program (W	VEMP)	each	#N/A	\$0,00	\$0
Vegetation Monitoring		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 dito	ches	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

## 1 Closure Monitoring & Maintenance:

				Cost		
ACTIVITY/MATERIAL	Notes	Units C	Quantity (	Code	<b>Unit Cost</b>	Cost
MAINTENANCE AND SURVEILLANCE						
Site care-taker	bi-weekly visits, 2 care-takers, 12hr/day, 5 months per year	ınhours	480 OI	PERH	\$65,00	\$31 200
Site vehicule and equipment		allow	1 AE	EM	\$20 000,00	\$20 000
Accomodation and site maintenance	mandays	s/ALLOWS	40 A0	CCMh	\$175,00	\$7 000
Subtotal, Annual post-closure costs						\$594 627
Discount rate for calculation of net prese	ent value of post-closure cost, %			0,00%		
Number of years of post-closure activity				10	years	
Present Value of payment stream						\$5 946 270
Total closure and post closure				10	years	\$9 162 861

Include water treatment cost from "Water Treatment" worksheet if treatment is considered long term, such as ARD/ML.

<sup>\*</sup>Regulatory costs - annual reporting, management plans, progress reports etc.



# Appendix B

Site Layout

AE-CART-ARCH D

WATER CROSSING #1-

PARKING AREA

WATER CROSSING #3

WATER CROSSING #2

NORTH SIDE

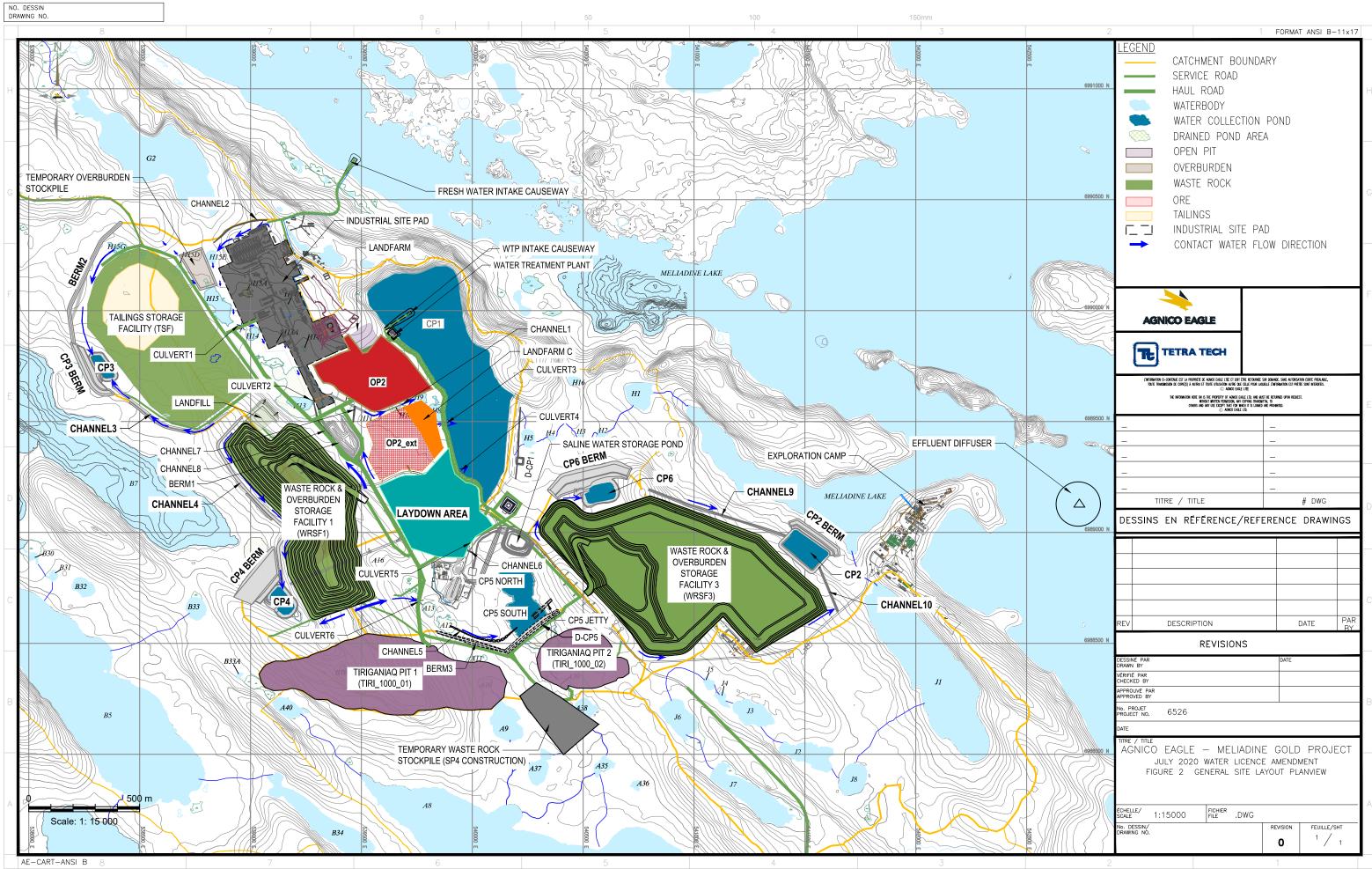
Min. TOTAL FILL THICKNESS -1.5m

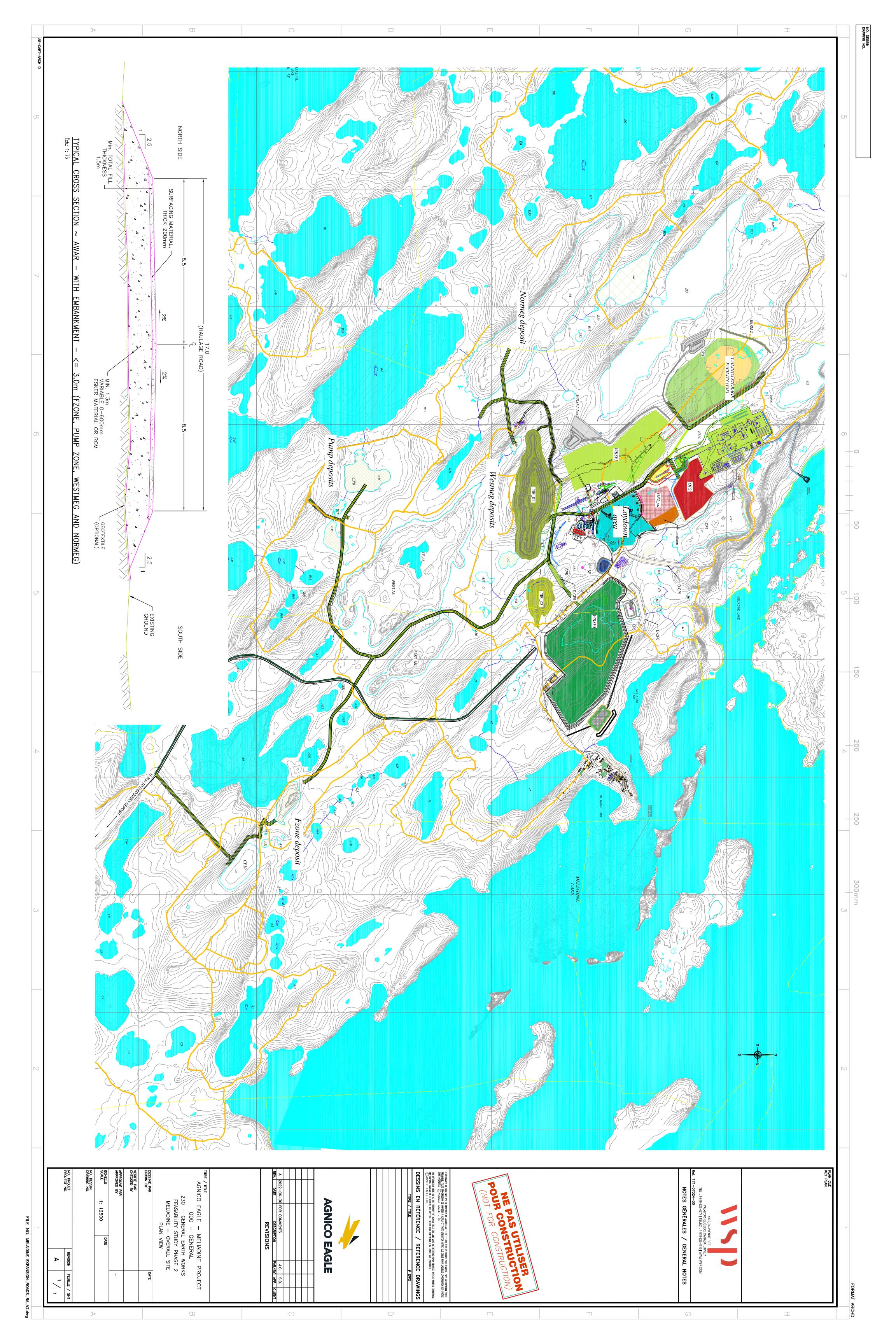
SURFACING MATERIAL, -THICK 200mm

2%

LAUNCH

GATE FOR ACCESS TO DISCOVERY SITE







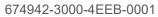
## Appendix C

Equipment list and sampling list



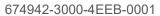
**Table C-1: List of Mobile Equipment** 

Unit Number	Description	<b>Equipment Group</b>
65ATV01	HONDA ATV #01	Surface
65ATV02	HONDA ATV #02	Surface
65ATV03	HONDA ATV #03	Surface
65ATV04	HONDA ATV #04	Surface
65ATV05	HONDA ATV #05	Surface
65ATV06	HONDA ATV #06	Surface
65ATV07	CANAM ATV #07	Surface
65ATV08	HONDA ATV 420 4X4	Surface
65ATV09	CAN AM ATV	Surface
65ATV10	ENVIRONMENT ATV KUBOTA	Surface
65ATV11	ENVIRONMENT 4X4 ATV	Surface
65ATV12	TUNDRA BUGGY BV26	Surface
65BAC01	BACKOE CATERPILLAR 420E IT	Surface
65BAC02	BACKOE KUBOTA BX25	Surface
65BAC03	MINI EXCAVATOR 303.5 CAT	Underground
65BAC04	MINI EXCAVATOR 430 CAT	Surface
65BAC05	BACKOE CATERPILLAR 330F	Surface
65BOL03	MEM-946 SCISSOR BOLTER	Underground
65BOL04	MEM-946 SCISSOR BOLTER	Underground
65BOL06	BOLTER MACLEAN MEM-975	Underground
65BOL07	BOLTER MACLEAN MEM-975	Underground
65BOL08	BOLTER MACLEAN MEM-975	Underground
65BOL09	BOLTER MACLEAN MEM-975	Underground
65BOL10	BOLTER MACLEAN MEM-975	Underground
65BOL11	BOLTER MACLEAN MEM-975	Underground
65BOL12	BOLTER MACLEAN MEM-975	Underground
65BOL13	BOLTER MACLEAN MEM-975	Underground
65BUS01	BUS E450 SD FORD	Surface
65BUS02	BLUE BIRD BUS VISION SL	Surface
65BUS04	BLUE BIRD BUS VISION SL	Surface
65BUS05	BUS EXPRESS 4500 CHEVY	Surface
65CLD01	CONTAINER HANDLER HYSTER RS46	Surface
65CLD02	CONTAINER HANDLER HYSTER RS46	Surface
65COM01	KAESER M50 COMPRESSOR	Underground
65COM02	ATLAS COPCO XATS 400	Underground
65COM03	ATLAS COPCO XATS 375 JD6	Underground



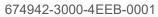


<b>Unit Number</b>	Description	<b>Equipment Group</b>
65COM04	ATLAS COPCO XATS 375	Underground
65COM05	PORTABLE ELECTRIC COMPRESSOR	Underground
65COM06	PORTABLE ELECTRIC COMPRESSOR	Underground
65COM07	DOOSAN DIESEL COMPRESSOR	Underground
65COM08	DIESEL COMPRESSOR 1600 CFM	Underground
65COM09	MOBILE COMPRESSOR 915 CFM	Underground
65COM10	MOBILE COMPRESSOR 915 CFM	Underground
65COM11	MOBILE COMPRESSOR 425 CFM	Underground
65CPT01	CATERPILLAR CS56B COMPACTOR	Surface
65CPT02	COMPACTOR CS56B	Surface
65DOZ01	DOZER D6K LGP CATERPILLAR	Surface
65DOZ02	DOZER D6K LGP CATERPILLAR	Surface
65DRL02	CABLE DRILL DS422I	Underground
65DRL03	ITH DRILL DU411	Underground
65DRL04	TOP HAMMER DRILL	Underground
65DRL05	TOP HAMMER DRILL	Underground
65DRL06	RAISE BORER RHINO 100	Underground
65DRL07	BLOCK HOLER DRILL BH3	Underground
65DRL08	CABLE DRILL DS422I	Underground
65DRL09	TOP HAMMER DRILL	Underground
65DRL10	ITH DRILL	Underground
65DRL11	TOP HAMMER DRILL	Underground
65EQH01	PIPE HANDLER	Underground
65EQH02	PIPE HANDLER	Underground
65EQH03	FUEL-LUBE CASSETTE MEM-CS3	Underground
65EQH04	BOOM TRUCK CASSETTE MEM-CS3	Underground
65EQH05	PIPE HANDLER DA201	Underground
65EQM01	V30 HEAD	Underground
65EQM02	HIGH PRESSURE SUPPRESSOR	Underground
65EQM03	MENCARRIER CASSETTE CS3	Underground
65EQM04	MENCARRIER CASSETTE CS3	Underground
65EQM05	FUEL CASSETTE CS3	Underground
65EQM06	PROD. EMULSION CASSETTE CS3	Underground
65EQM07	PROD. EMULSION CASSETTE CS3	Underground
65EQM09	MENCARRIER CASSETTE CS3	Underground
65EQM10	MENCARRIER CASSETTE CS3	Underground
65FKL01	FORKLIFT MANITOU 625	Surface
65FKL02	FORKLIFT MANITOU 625	Surface
65FKL03	FORKLIFT YALE	Surface
65FKL04	YALE ELECTRIC FORKLIFT	Surface





Unit Number	Description	<b>Equipment Group</b>
65FKL05	ELECTRIC WALKIE PALLET	Surface
65FKL07	FORKLIFT HELI CPCD30	Surface
65FKL08	CAT 2ET4000 FORK LIFT	Surface
65FKL09	CAT FORKLIFT DP25N5	Surface
65FKL10	CAT FORKLIFT EP4000	Surface
65GRA01	GRADER 12M2 CAT	Underground
65GRA02	CATERPILLAR GRADER 140M	Surface
65GRA03	GRADER UG20M CAT	Underground
65HEA03	FROST FIGHTER IDF500	Surface
65HEA04	FROST FIGHTER IDF500	Surface
65HEA05	FROST FIGHTER NPV400	Surface
65HEA06	FROST FIGHTER IDF500	Surface
65HEA07	FROST FIGHTER IDF500	Surface
65HEA08	FROST FIGHTER IDF500	Surface
65HEA09	FROST FIGHTER IDF500	Surface
65HEA10	FROST FIGHTER IDF500	Surface
65HEA11	FROST FIGHTER IDF500	Surface
65HEA12	FROST FIGHTER IDF500	Surface
65HEA13	FROST FIGHTER IDF500	Surface
65HEA14	FROST FIGHTER IDF500	Surface
65HEA15	FROST FIGHTER IDF500	Surface
65HEA16	FROST FIGHTER IDF500	Surface
65HEA17	FROST FIGHTER IDF500	Surface
65HEA18	FROST FIGHTER IDF500	Surface
65HEA19	ALLMAND HEATER TRAILER (CONST)	Surface
65HEA20	ALLMAND HEATER TRAILER (CONST)	Surface
65HEA21	ALLMAND HEATER TRAILER (CONST)	Surface
65HEA22	ALLMAND HEATER TRAILER	Surface
65HEA23	ICE FIGHTER HEATER	Surface
65HEA24	ALLMAND HEATER TRAILER	Surface
65HTR04	AD30 MF CAT U/G TRUCK	Underground
65HTR06	U/G TRUCK CAT AD30	Underground
65HTR08	U/G TRUCK CAT AD30	Underground
65HTR09	U/G TRUCK CAT AD30	Underground
65HTR10	TRUCK VOLVO A40G	Surface
65HTR11	TRUCK VOLVO A40G	Surface
65HTR12	U/G 50 TONS TRUCK	Underground





<b>Unit Number</b>	Description	<b>Equipment Group</b>
65HTR13	U/G 50 TONS TRUCK	Underground
65HTR14	U/G 50 TONS TRUCK	Underground
65HTR15	U/G 50 TONS TRUCK	Underground
65HTR16	U/G 50 TONS TRUCK	Underground
65HTR17	U/G 50 TONS TRUCK	Underground
65HTR18	A40G HAUL TRAUCKS	Surface
65HTR19	A40G HAUL TRAUCKS	Surface
65HTR20	A40G HAUL TRAUCKS	Surface
65HTR21	U/G 50 TONS TRUCK	Underground
65HTR22	U/G 50 TONS TRUCK	Underground
65HTR23	U/G 50 TONS TRUCK	Underground
65HTR24	U/G 50 TONS TRUCK	Underground
65HTR25	U/G 50 TONS TRUCK	Underground
65JUM03	LONGTOM	Underground
65JUM05	JUMBO DRILL DD421	Underground
65JUM06	JUMBO DRILL DD4221-60C	Underground
65JUM07	JUMBO DRILL DD4221-60C	Underground
65JUM08	JUMBO DRILL DD422I	Underground
65LGT01	TOWER LIGHT	Surface
65LGT02	TOWER LIGHT	Surface
65LGT03	TOWER LIGHT	Surface
65LGT04	TOWER LIGHT	Surface
65LGT05	TOWER LIGHT	Surface
65LGT06	TOWER LIGHT	Surface
65LGT07	TOWER LIGHT	Surface
65LGT08	TOWER LIGHT	Surface
65LGT09	TOWER LIGHT	Surface
65LGT10	TOWER LIGHT	Surface
65LHM01	PLH LONG HOLE	Underground
65LOA01	LOADER CATERPILLAR IT 62H	Surface
65LOA02	LOADER WA500 KOMATSU	Surface
65LOA03	LOADER WA500 KOMATSU	Surface
65LOA04	DYNO - CAT 962H LOADER	Surface
65LOA05	WHEEL LOADER CAT 908M	Underground
65LOA06	WHEEL LOADER 980M CAT	Surface
65LOA07	WHEEL LOADER 914M CAT	Surface
65LOA08	WHEEL LOADER 988K CAT	Surface
65LOA09	WHEEL LOADER 988K CAT	Surface
65LOA10	WHEEL LOADER 988K CAT	Surface
65LOA11	WHEEL LOADER 988K CAT	Surface



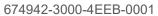


<b>Unit Number</b>	Description	<b>Equipment Group</b>
65LOA12	WHEEL LOADER 914M CAT	Underground
65LOA13	FOUNTAIN TIRE LOADER	Surface
65LOM01	DYNO - CAT 297D SKID STEER	Surface
65LOM02	BOBCAT S770	Underground
65LOM03	BOBCAT S650	Surface
65MCR01	CRANE FREIGHTLINER	Surface
65MCR02	BRODERSON MOBILE CRANE 18T	Surface
65MCR03	BRODERSON MOBILE CRANE	Surface
65MCR04	MOBILE CRANE MANITOWOC 220T	Surface
65MCR05	MOBILE CRANE GROVE 130T	Surface
65PCK01	PICK UP SUBERBAN	Surface
65PCK02	PICK UP F550 (MECHANIC)	Surface
65PCK03	PICK UP F250 (IT)	Surface
65PCK04	PICK UP F250 (GEOLOGY)	Surface
65PCK05	PICK UP F350 (MINE)	Surface
65PCK06	PICK UP F250 (SITE SERVICES)	Surface
65PCK07	PICK UP CUTAWAY (AMBULANCE)	Surface
65PCK11	PICK UP F250 (MECHANIC)	Surface
65PCK12	PICK UP F250 (ELECTRICIAN)	Surface
65PCK13	PICK UP F250 (CARPENTER)	Surface
65PCK14	PICK UP F250 (CONSTRUCTION)	Surface
65PCK15	PICK UP F250 2011 (LOG/ROAD)	Surface
65PCK16	PICK UP F250 (CONSTRUCTION)	Surface
65PCK17	PICK UP F250 (CONSTRUCTION)	Surface
65PCK18	DYNO - FORD F250 PICKUP	Surface
65PCK19	PICK UP F250 (WAREHOUSE GF)	Surface
65PCK20	PICK UP F250 (CONSTRUCTION)	Surface
65PCK21	PICK UP F250 (MOBILE GF)	Surface
65PCK22	PICK UP F250 (WAREHOUSE)	Surface
65PCK23	PICK UP F250 (MANAGEMENT)	Surface
65PCK24	PICK UP F250 (LONNY/GUILLAUME)	Surface
65PCK25	PICKUP F-250 (OPERATION)	Surface
65PCK26	PICKUP F-250 (MOBILE SUPER)	Surface
65PCK27	PICKUP FORD F250 (JACK DUTIL)	Surface
65PCK28	PICKUP FORD F250 (JACK DUTIL)	Surface
65PCK29	PICKUP FORD F250 (JACK DUTIL)	Surface
65PCK30	PICKUP FORD F250 (JACK DUTIL)	Surface
65PCK31	PICKUP F250 FORD (JACK)	Surface
65PCK32	PICKUP F250 (KITCHEN AND CAMP)	Surface
65PCK33	PICKUP F250 (ENVIRONMENT)	Surface





<b>Unit Number</b>	Description	<b>Equipment Group</b>
65PCK34	PICKUP F250 (H&S)	Surface
65PCK35	PICKUP F250 (MANAGEMENT)	Surface
65PCK36	PICKUP F250 (E&I)	Surface
65PCK37	PICKUP F250 (E&I)	Surface
65PCK38	PICKUP F250 (TRAINING)	Surface
65PCK39	PICKUP F250 (UNDERGROUND)	Surface
65PCK40	PICKUP F250 (WAREHOUSE)	Surface
65PCK41	PICKUP F350 UG MOBILE MNTCE	Underground
65PCK42	CONSTRUCTION PICK UP	Surface
65PCK43	CONSTRUCTION PICK UP	Surface
65PCK44	CONSTRUCTION PICK UP	Surface
65PCK45	TANGMAARVIK PICK UP	Surface
65PCK46	DYNO PICK UP	Surface
65PCK49	F250 PICKUP TRUCK	Surface
65PCK50	F250 PICK-UP TRUCK	Surface
65PCK51	F250 PICK-UP TRUCK	Surface
65PCO01	GROUT PUMP #1	Underground
65PCO02	GROUT PUMP #2	Underground
65PCO03	GROUT PUMP #3	Underground
65PCO04	GROUT PUMP #4	Underground
65PCO05	GROUT PUMP #5	Underground
65PCO06	GROUT PUMP #6	Surface
65POD01	DIESEL FUEL PUMP KOHLER	Surface
65POD02	DIESEL FUEL PUMP KOHLER	Surface
65POD03	DIESEL FUEL PUMP KOHLER	Surface
65PWA01	WATER PUMP	Surface
65PWA02	WATER PUMP	Surface
65PWA03	WATER PUMP	Surface
65PWA04	WATER PUMP	Surface
65PWA05	WATER PUMP	Surface
65PWA06	WATER PUMP	Surface
65PWA07	WATER PUMP	Surface
65PWA08	WATER PUMP	Surface
65RBR01	MOBILE ROCK BREAKER RB3	Underground
65SBL01	SNOWBLOWER T85	Surface
65SCI02	GENIE LIFT S60	Surface
65SCI03	SCISSOR LIFT MACLEAN	Underground
65SCI05	SL3 SCISSOR LIFT	Underground
65SCI06	SL3 SCISSOR LIFT	Underground
65SCI07	SCISSOR LIFT MACLEAN SL3	Underground



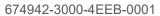


Unit Number	Description	<b>Equipment Group</b>
65SCI08	SCISSOR LIFT MACLEAN SL3	Underground
65SCI09	MAN LIFT GENIE Z-45/25	Surface
65SCI10	MAN LIFT GENIE Z-45/25	Surface
65SCI11	MAN LIFT GENIE Z-45/25	Surface
65SCI12	MAN LIFT GENIE SX125	Surface
65SCI13	SL3 SCISSOR LIFT	Underground
65SCI14	SCISSOR LIFT MACLEAN SL3	Underground
65SCI15	SCISSOR LIFT MACLEAN SL3	Underground
65SCI16	ELECTRICAL SCISSOR LIFT	Underground
65SCO04	SCOOP LH514	Underground
65SCO05	SCOOP LH514	Underground
65SCO06	SCOOP LH514	Underground
65SCO07	SCOOP LH514	Underground
65SCO08	SANDVIK EJC-210	Underground
65SCO09	SCOOP R1300G CAT	Underground
65SCO10	SCOOP LH517	Underground
65SCO11	SCOOP LH517	Underground
65SCO12	SCOOP LH517	Underground
65SCO13	SCOOP LH517	Underground
65SCO14	SCOOP LH517	Underground
65SCO15	SCOOP R1300G CAT	Underground
65SKD01	SKID STEER 226D CATERPILLAR	Surface
65SKD02	SKID STEER 262D CATERPILLAR	Surface
65SKD03	SKID STEER 262D CATERPILLAR	Surface
65SNO02	SNOWMOBILE PRINOTH SNOWCAT	Surface
65SNO03	BEARCAT SNOWMOBILE	Surface
65SNO04	BEARCAT SNOWMOBILE	Surface
65SNO05	BEARCAT SNOWMOBILE	Surface
65SNO06	BEARCAT SNOWMOBILE	Surface
65TOO01	KIDNEY LOOP	Surface
65TOO04	WIRELESS JACK SET	Surface
65TOO05	A/C MACHINE	Surface
65TPA01	CAT PALLET HANDLER EJE120	Underground
65TPA02	CAT PALLET HANDLER EJE120	Surface
65TRA03	KUBOTA M5-111CAB	Underground
65TRA04	KUBOTA M5-111CAB	Underground
65TRA05	TRACTOR KUBOTA M8540DT	Underground
65TRA06	TRACTOR KUBOTA M9540DT	Underground
65TRA07	TRACTOR KUBOTA M9540DT	Underground
65TRA08	TRACTOR KUBOTA M9540DT	Underground



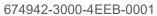


<b>Unit Num</b>	ber	Description	<b>Equipment Group</b>
65TRA0	19	KUBOTA M8540DT	Underground
65TRA1	.0	TRACTOR M5-111CAB	Underground
65TRA1		TRACTOR M5-111CAB	Underground
65TRA1	.2	TRACTOR M5-111CAB	Underground
65TRA1		TRACTOR M5-111CAB	Underground
65TRA1		TRACTOR M5-111CAB	Underground
65TRA1	.5	TRACTOR M5-111HDC	Underground
65TRA1	.6	TRACTOR KUBOTA M9960D	Underground
		TRACTOR M5-111CAB	_
65TRA1	./	(SUPERVISOR)	Underground
65TRA1	0	TRACTOR M5-111CAB	Underground
OSTRAI	.0	(SUPERVISOR)	Underground
65TRA1	9	TRACTOR M5-111CAB	Underground
		(SUPERVISOR)	
65TRA2		TRACTOR M5-111CAB (MECHANIC)	Underground
65TRA2		TRACTOR M5-111CAB (SERVICE +)	Underground
65TRA2		TRACTOR M5-111CAB (SERVICE +)	Underground
65TRA2		TRACTOR M5-111CAB (SERVICE)	Underground
65TRA2		TRACTOR M5-111CAB (SERVICE)	Underground
65TRA2	.5	TRACTOR M5-111CAB (SERVICE)	Underground
65TRA2	6	TRACTOR 6110M JOHN DEERE	Underground
65TRA2		TRACTOR 6110M JOHN DEERE	Underground
65TRA2	.8	TRACTOR M5-111CAB	Underground
65TRA2	.9	TRACTOR M5-111CAB	Underground
65TRA3	0	TRACTOR M5-111CAB	Underground
65TRA3	1	TRACTOR M5-111CAB	Underground
65TRA3	2	TRACTOR M5-111CAB	Underground
65TRA3	3	TRACTOR M5-111CAB	Underground
65TRK0	1	FUEL TRUCK	Surface
65TRK0	2	HIAB SERVICE TRUCK	Surface
65TRK0	3	WATER SERVICE TRUCK	Surface
65TRKO	4	VACUUM TRUCK	Surface
65TRK0	8	BOOM TRUCK MACLEAN BT3	Underground
65TRK0	9	CASSETTE CARRIER MACLEAN CS3	Underground
65TRK1	1	ROLL OFF KENWORTH TRUCK	Surface
65TRK1	2	FUEL TRUCK T800	Surface
65TRK1	3	WATER TRUCK	Surface
65TRK1	4	TRUCK T800	Surface
65TRK1	5	CASSETTE CARRIER MACLEAN CS3	Underground
65TRK1	6	CASSETTE CARRIER MACLEAN CS3	Underground





Unit Number	Description	<b>Equipment Group</b>
65TRK17	CASSETTE CARRIER MACLEAN CS3	Underground
65TRK19	CONCRETE TRUCK AG3	Underground
65TRK20	BOOM TRUCK MACLEAN BT3	Underground
65TRK21	FIRE TRUCK	Surface
65TRK22	CASSETTE CARRIER MACLEAN CS3	Underground
65TRK23	CASSETTE CARRIER MACLEAN CS3	Underground
65TRK24	DYNO EMULSION TRUCK	Surface
65TRK25	CASSETTE CARRIER MACLEAN CS3	Underground
65VSE01	KUBOTA MULE RTV1140	Underground
65VSE04	KAWASKI MULE	Surface
65VSE05	KAWASKI MULE	Surface
65VSE06	KUBOTA MULE RTV1100	Underground
65VSE08	ZOOM BOOM GRADALL 544D	Underground
65VSE09	TELEHANDLER GENIE 1056	Surface
65VSE10	ZOOM BOOM GENIE 1056	Surface
65VSE13	EMULSION CHARGER MACLEAN EC3	Underground
65VSE14	LANDCRUISER HZJ79 AMBULANCE	Underground
65VSE15	LANDCRUISER HZJ79 MENCARRIER	Underground
65VSE16	TELEHANDLER TL1055D CAT	Underground
65VSE17	LANDCRUISER HZJ79 MENCARRIER	Underground
65VSE18	LANDCRUISER HZJ79 MENCARRIER	Underground
65VSE19	TRANSIT 12 PASSENGERS (JACK D)	Surface
65VSE20	TRANSIT 12 PASSENGERS (JACK D)	Surface
65VSE21	TELEHANDLER TL943D CAT (E&I)	Surface
65VSE22	TELEHANDLER TL943D CAT WAREH.	Surface
65VSE23	EMERGENCY RESPONSE VEHICLE	Surface
65VSE24	SHOTCRETE ALIVA MODEL 246	Underground
65VSE25	TELEHANDLER GENIE 1056	Surface
65VSE26	TELEHANDLER GENIE 1056	Surface
65VSE27	SHOTCRETE SPRAYER SS3	Underground
65VSE28	DEV. EMULSION CHARGER EC3	Underground
65VSE29	DEV. EMULSION CHARGER EC3	Underground
65VSE30	LANDCRUISER HZJ79 MENCARRIER	Underground
65VSE31	LANDCRUISER HZJ79 MENCARRIER	Underground
65VSE32	LANDCRUISER HZJ79 MENCARRIER	Underground
65VSE33	LANDCRUISER HZJ79 MENCARRIER	Underground
65VSE34	LANDCRUISER HZJ79 MENCARRIER	Underground
65VSE35	TELEHANDLER TL1055D CAT	Underground
65VSE36	ZOOM BOOM MANITOU MLT625	Underground





Unit Number	Description	<b>Equipment Group</b>
65VSE37	SWATCRETE	Underground
65VSE38	LANDCRUISER HZJ79 MENCARRIER	Underground
65WMC01	PORTABLE WELDER	Surface
65WMC02	PORTABLE WELDER	Surface
65WMC03	PORTABLE WELDER	Surface
65WMC04	U/G WELDING MACHINE	Underground
65WMC05	MILLER WELDING MACHINE	Underground

	AEM - Meliadine - Sampling Program					Bureau Veritas			AGAT			H2Lab		SGS		
Sample Group Name	Analysis	Sampling frequency	Sampling Stations for Reference	Estimated number of samples (nb/year	Unit Rate	Total Group Cost per sample	Total Group cost x Annual Samples	Unit Rate	Total Group Cost per sample	Total Group cost x Annual Samples	Unit Rate	Total Group Cost per sample	Total Group cost x Annual Samples	Unit Rate	Total Group Cost per sample	Total Group cost x Annual Samples
Potable water	Atypical colonies Total coliforms Fecal coliforms E.coli and AAHB	- Weekly	DW Produced, DW- Kitchen, DW-Kitchen 2, DW-WTP, DW- Wings	208	9.00 \$ 13.50 \$ 9.00 \$	31.50 \$	6 552.00 \$	included with total 14.00 \$ 12.00 \$ included	26.00 \$	5 408.00 \$	12.00 \$ 12.00 \$ 20.00 \$	44.00\$	9 152.00 \$	2.00 \$ 35.00 \$ 19.00 \$ included	56.00 \$	11 648.00 \$
Wastewater	Atypical colonies Total coliforms Fecal coliforms E.coli and AAHB pH BOD5 COD Ammonia Ammonia nitrogen Nitrite Nitrate Kjedhal Nitrogen Total Phosphorus Total Oil and Grease TSS	Weekly	MEL-7, STP-IN, STP- FINAL, STP- LIQUOR MIXED	208	included with total 9.00 \$ 13.50 \$ 13.50 \$ 4.50 \$ 18.23 \$ 12.78 \$ 7.88 \$ 7.88 \$ 12.78 \$ 13.23 \$ 10.35 \$	170.60 \$	35 483.76\$	included with total  10.00 \$  10.00 \$  12.00 \$  7.00 \$  12.00 \$  15.00 \$  15.00 \$  15.00 \$  16.00 \$  30.00 \$  10.00 \$	179.00\$	37 232.00 \$	included with total  12.00 \$  12.00 \$  20.00 \$  5.00 \$  15.00 \$  12.00 \$  12.00 \$  12.00 \$  12.00 \$  12.00 \$  12.00 \$  12.00 \$  12.00 \$  12.00 \$  12.00 \$  12.00 \$  13.00 \$	189.50 \$	39 416.00 \$	2.00 \$ 19.00 \$ 19.00 \$ 40.00 \$ 5.00 \$ 14.00 \$ 15.00 \$ 10.00 \$ 10.00 \$ 10.00 \$ 10.00 \$ 10.00 \$ 10.00 \$ 10.00 \$ 10.00 \$	208.00 \$	43 264.00 \$
Group 1	pH Turbidity Hardness Alkalinity Chloride Fluoride Sulphate TDS TSS Total Cyanide Ammonia nitrogen Nitrate Nitrite Total Phosphorus Orthophosphate  Total Metals - 16 (Aluminum, Arsenic, Barium, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Thallium, Zinc)	Monthly during open water	Mel SR-1-14, MEL-12, MEL-19, MEL-20, MEL- 21, MEL-22, MEL-23, MEL-24	84	4.50 \$ 9.32 \$ 0.00 \$ 8.37 \$ 12.78 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$ 12.78 \$ 7.88 \$ 7.88 \$ 13.23 \$ 12.78 \$	226.89 \$	19 058.76 \$	7.00 \$ 12.00 \$ 18.00 \$ 15.00 \$ 35.00 \$ included included 15.00 \$ 10.00 \$ 18.00 \$ 15.00 \$ 43.00 \$	222.00 \$	18 648.00 \$	5.00 \$ 8.00 \$ 15.00 \$ 7.00 \$ 16.00 \$ 20.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$ 12.00 \$ 12.00 \$ 15.00 \$ 35.00 \$	239.30 \$	20 101.20 \$	15.00 \$ 15.00 \$ included with metals included with ph 20.00 \$ 10.00 \$ included 12.00 \$ 9.00 \$ 12.00 \$ 9.00 \$ included included included included included included with metals 10.00 \$ 38.00 \$	150.00\$	12 600.00 \$
Group 2	Mercury (cold vapor) pH Turbidity Conductivity Hardness Bicarbonate Alkalinity Carbonate Alkalinity Total Alkalinity Total Alkalinity Chloride Sulphate TDS TSS Total Cyanide Free Cyanide Cyanide WAD Ammonia nitrogen Total Kjeldahl Nitrogen Nitrate Nitrite Total Phosphorus Orthophosphate Total Organic Carbon (TOC) Dissolved Organic Carbon (DOC) Reactive Silica Total Metals - (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Lithium, Manganese, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin, Titanium, Uranium, Vanadium, Zinc) Ca, K, Mg, Na Mercury (cold vapor)	Bi-Annually	MEL-15, MEL-16, MEL- 17, MEL-18, RO-In and Out (Weekly during discharge, approx 3 months)	32	15.75 \$ 4.50 \$ 9.32 \$ 9.32 \$ 9.32 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$ 23.99 \$ 23.99 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 51.39 \$ 51.39 \$	427.05 \$	13 665.60\$	included 7.00 \$ 12.00 \$ 12.00 \$ 18.00 \$ 15.00 \$ 15.00 \$ included 15.00 \$ 35.00 \$ included 15.00 \$ 36.00 \$ 10.00 \$ 18.00 \$ 19.00 \$ 16.00 \$ included included 16.00 \$ 18.00 \$ 25.00 \$ 27.00 \$ 40.00 \$	469.00 \$	15 008.00 \$	20.00 \$ 5.00 \$ 8.00 \$ 5.00 \$ 15.00 \$ 15.00 \$ 15.00 \$ 15.00 \$ 15.00 \$ 16.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$ 15.00 \$ 15.00 \$ 15.00 \$ 15.00 \$ 15.00 \$ 15.00 \$ 12.00 \$ 12.00 \$ 12.00 \$ 15.00 \$ 14.00 \$ 15	459.80 \$	14 713.60 \$	included  15.00 \$  15.00 \$  included included included included included included 12.00 \$  9.00 \$  12.00 \$  15.00 \$  15.00 \$  15.00 \$  15.00 \$  10.00 \$  included included included included 30.00 \$  30.00 \$	256.00\$	8 192.00 \$

							•		_							
	Dissolved Metals - (Aluminum, Antimony, Arsenic, Barium,															
	Beryllium, Boron, Cadmium, Chromium, Copper, Iron,															
	Lead, Lithium, Manganese, Molybdenum, Nickel,				51.39 \$			53.00 \$			47.00 \$			38.00 \$		
	Selenium, Silver, Strontium, Thallium, Tin, Titanium,															
	Uranium, Vanadium, Zinc)															
	Dissolved Mercury (cold vapor)				15.75 \$			included			22.50 \$			included		
	рН				4.50 \$			7.00 \$	1		5.00\$			5.00 \$		
	Turbidity				9.32 \$			12.00\$	1		8.00\$			15.00 \$		
	EEM parameters				-						-					
	Total Metals (As, Cu, Pb, Ni, Zn) + (Al, Cd, Fe, Mo, Se, Cr,															
	Co, Tl, U, Mn)				45.00 \$						35.00 \$					
	Mercury (cold vapor)				15.75 \$						20.00 \$					
	Alkalinity				8.37 \$						7.00\$					
	Hardness		Calculate in the		included						15.00 \$					
Group 3	Total CN	Monthly	MDMER sections	12	23.99 \$	580.22 \$	6 962.58 \$	142.00 \$	586.00\$	7 032.00 \$	15.00 \$	726.00 \$	8 712.00 \$	210.00 \$	960.00\$	11 520.00 \$
	Total Phosphorous				13.23 \$						15.00 \$					
	TSS				10.35 \$						7.50 \$					
	Radium 226 Sulphate				103.50 \$ 12.78 \$						75.00 \$ 13.50 \$					
	NNH3 (as N)				12.78 \$						12.00 \$					
	Nitrate				7.88 \$						12.00 \$					
	Chloride				12.78\$						16.00\$					
	Acute Toxicity to Rainbow Trout and Daphnia Magna				300.00 \$			425.00 \$			470.00 \$			730.00 \$		
	, , ,				300.00 \$						470.00 \$			750.00 \$		
	Total Metals (Arsenic, Copper, Lead, Nickel)				31.50 \$			25.00\$			28.00 \$			30.00 \$		
	TSS				10.35 \$			10.00 \$	1		7.50 \$			9.00 \$		
	Ammonia				12.78 \$			15.00 \$	1		12.00 \$			9.00 \$		
Group 4	Benzene Toluene	2 or 3	MEL-25 (when	3		178.97 \$	536.90 \$		122.00\$	366.00 \$		152.50 \$	457.50 \$		178.00 \$	534.00 \$
Group 4	Ethylbenzene	2013	needed)	3	119.84 \$	176.57 \$	330.30 \$	30.00\$	122.00 \$	300.00 \$	100.00\$	132.30 \$	437.30 \$	125.00 \$	178.00 \$	334.00 \$
	Xylene				113.010						100.00 φ			125.00 γ		
	Total Petroleum Hydrocarbons (TPH)							35.00 \$								
	рН				4.50 \$			7.00 \$	Ì		5.00\$			5.00 \$		
	рН				4.50 \$			7.00 \$			5.00\$			15.00 \$		
	Turbidity				9.32 \$			12.00\$			8.00\$			15.00 \$		
	Conductivity				9.32 \$			12.00 \$			5.00 \$			included		
	Hardness Picarla Alla Visita				0.00 \$	_		18.00 \$			15.00 \$			included		
	Bicarbonate Alkalinity				0.00\$			15.00 \$			15.00 \$			included		
					0.00 ¢				†							
	Carbonate Alkalinity				0.00 \$ 8 37 \$			included	<del> </del>		15.00 \$			included		
	Carbonate Alkalinity Total Alkalinity				8.37 \$			included 15.00 \$	†   		15.00 \$ 7.00 \$			included included		
	Carbonate Alkalinity Total Alkalinity Chloride				8.37 \$ 12.78 \$			included 15.00 \$ 35.00 \$	†    -		15.00 \$ 7.00 \$ 16.00 \$			included		
	Carbonate Alkalinity Total Alkalinity				8.37 \$			included 15.00 \$			15.00 \$ 7.00 \$			included included 20.00 \$		
	Carbonate Alkalinity Total Alkalinity Chloride Calcium				8.37 \$ 12.78 \$ 0.00 \$			included 15.00 \$ 35.00 \$ included			15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$			included included		
	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium				8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$			included 15.00 \$ 35.00 \$ included included included included			15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$			included included 20.00 \$ included with metals		
	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate				8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$			included 15.00 \$ 35.00 \$ included included included included included included			15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$			included included 20.00 \$ included with metals included		
	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate TDS		MEL-11, (year round)		8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$			included 15.00 \$ 35.00 \$ included included included included included 15.00 \$			15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$			included included 20.00 \$ included with metals included 12.00 \$		
	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sulphate TDS TSS		MEL-13 (monthly		8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$			included 15.00 \$ 35.00 \$ included included included included included 15.00 \$ 10.00 \$			15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$			included included 20.00 \$ included with metals included 12.00 \$ 9.00 \$		
	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate TDS TSS Total Cyanide		MEL-13 (monthly during open water),		8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$			included 15.00 \$ 35.00 \$ included included included included included 15.00 \$ 10.00 \$			15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$			included included 20.00 \$ included with metals  included 12.00 \$ 9.00 \$ 12.00 \$		
	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate TDS TSS Total Cyanide Free Cyanide		MEL-13 (monthly during open water), MEL-14 (weekly		8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$ 23.99 \$			included 15.00 \$ 35.00 \$ included included included included included included 15.00 \$ 10.00 \$ 18.00 \$ 19.00 \$			15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$			included included 20.00 \$  included with metals  included 12.00 \$ 9.00 \$ 12.00 \$ 15.00 \$		
	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate TDS TSS Total Cyanide		MEL-13 (monthly during open water),		8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$			included 15.00 \$ 35.00 \$ included included included included included 15.00 \$ 10.00 \$			15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$			included included 20.00 \$ included with metals  included 12.00 \$ 9.00 \$ 12.00 \$		
	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate TDS TSS Total Cyanide Free Cyanide Cyanide WAD		MEL-13 (monthly during open water), MEL-14 (weekly during open water),		8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$ 23.99 \$			included 15.00 \$ 35.00 \$ included included included included included 15.00 \$ 10.00 \$ 18.00 \$ 19.00 \$ 30.00 \$			15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$			included included 20.00 \$ included with metals included 12.00 \$ 9.00 \$ 12.00 \$ 15.00 \$ 15.00 \$		
Full Suite	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate TDS TSS Total Cyanide Free Cyanide Cyanide WAD Ammonia nitrogen Total Kjeldahl Nitrogen Nitrate	Monthly during oper	MEL-13 (monthly during open water), MEL-14 (weekly during open water), Culvert 2, 3, 4 (2x/month during open water) and	90	8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$ 23.99 \$ 23.99 \$ 12.78 \$ 12.78 \$ 12.78 \$	472.05 \$	42 484 50 \$	included 15.00 \$ 35.00 \$ included included included included included 15.00 \$ 10.00 \$ 18.00 \$ 19.00 \$ 30.00 \$ 15.00 \$ 16.00 \$ included	504.00 \$	45 360.00 \$	15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$ 15.00 \$ 15.00 \$ 12.00 \$	511.80 \$	46 062 00 S	included included 20.00 \$ included with metals included 12.00 \$ 9.00 \$ 12.00 \$ 15.00 \$ 15.00 \$ 9.00 \$ 10.00 \$ included \$ 10.00	381.00 \$	34 290.00 \$
Full Suite	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate TDS TSS Total Cyanide Free Cyanide Cyanide WAD Ammonia nitrogen Total Kjeldahl Nitrogen Nitrate Nitrite	Monthly during oper water	MEL-13 (monthly during open water), MEL-14 (weekly during open water), Culvert 2, 3, 4 (2x/month during open water) and channel 1, 2 and 5	90	8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$ 23.99 \$ 23.99 \$ 12.78 \$ 12.78 \$ 7.88 \$	472.05 \$	42 484.50 \$	included  15.00 \$  35.00 \$  included  included  included  included  included  15.00 \$  10.00 \$  18.00 \$  19.00 \$  30.00 \$  15.00 \$  16.00 \$  included  included	504.00 \$	45 360.00 \$	15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$ 15.00 \$ 12.00 \$ 12.00 \$	511.80 \$	46 062.00 \$	included included 20.00 \$ included with metals included 12.00 \$ 9.00 \$ 12.00 \$ 15.00 \$ 15.00 \$ 10.00 \$ included included included	381.00 \$	34 290.00 \$
Full Suite	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate TDS TSS Total Cyanide Free Cyanide Cyanide WAD Ammonia nitrogen Total Kjeldahl Nitrogen Nitrate Nitrite Phosphorus		MEL-13 (monthly during open water), MEL-14 (weekly during open water), Culvert 2, 3, 4 (2x/month during open water) and channel 1, 2 and 5 (2x/month during	90	8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$ 23.99 \$ 23.99 \$ 12.78 \$ 12.78 \$ 12.78 \$ 13.23 \$	472.05 \$	42 484.50 \$	included  15.00 \$  35.00 \$  included  included  included  included  included  15.00 \$  10.00 \$  18.00 \$  19.00 \$  30.00 \$  15.00 \$  16.00 \$  included  included	504.00 \$	45 360.00 \$	15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$ 15.00 \$ 12.00 \$ 12.00 \$ 12.00 \$ 12.00 \$	511.80\$	46 062.00 \$	included included 20.00 \$ included with metals included 12.00 \$ 9.00 \$ 12.00 \$ 15.00 \$ 15.00 \$ 15.00 \$ included	381.00\$	34 290.00 \$
Full Suite	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate TDS TSS Total Cyanide Free Cyanide Cyanide WAD Ammonia nitrogen Total Kjeldahl Nitrogen Nitrate Nitrite Phosphorus Orthophosphate		MEL-13 (monthly during open water), MEL-14 (weekly during open water), Culvert 2, 3, 4 (2x/month during open water) and channel 1, 2 and 5 (2x/month during open water), Nipissar	90	8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$ 23.99 \$ 23.99 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$	472.05 \$	42 484.50 \$	included 15.00 \$ 35.00 \$ included included included included included included 15.00 \$ 10.00 \$ 18.00 \$ 19.00 \$ 30.00 \$ 16.00 \$ included included	504.00\$	45 360.00 \$	15.00 \$ 7.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$ 15.00 \$ 12.00 \$ 12.00 \$ 12.00 \$ 15.00 \$	511.80\$	46 062.00 \$	included included 20.00 \$  included with metals  included 12.00 \$ 9.00 \$ 12.00 \$ 15.00 \$ 9.00 \$ 15.00 \$ included included included included with metals 10.00 \$	381.00\$	34 290.00 \$
Full Suite	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate TDS TSS Total Cyanide Free Cyanide Cyanide WAD Ammonia nitrogen Total Kjeldahl Nitrogen Nitrate Nitrite Phosphorus Orthophosphate Total Organic Carbon		MEL-13 (monthly during open water), MEL-14 (weekly during open water), Culvert 2, 3, 4 (2x/month during open water) and channel 1, 2 and 5 (2x/month during open water), Nipissar Lake and Little	90	8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$ 23.99 \$ 23.99 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 13.23 \$ 12.78 \$	472.05 \$	42 484.50 \$	included 15.00 \$ 35.00 \$ included included included included included included 15.00 \$ 10.00 \$ 18.00 \$ 19.00 \$ 30.00 \$ 16.00 \$ included included included	504.00\$	45 360.00 \$	15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$ 15.00 \$ 12.00 \$ 12.00 \$ 12.00 \$ 15.00 \$ 15.00 \$	511.80 \$	46 062.00 \$	included included 20.00 \$ included with metals included 12.00 \$ 9.00 \$ 12.00 \$ 15.00 \$ 15.00 \$ 10.00 \$ included included included with metals 10.00 \$	381.00\$	34 290.00 \$
Full Suite	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate TDS TSS Total Cyanide Free Cyanide Cyanide WAD Ammonia nitrogen Total Kjeldahl Nitrogen Nitrate Nitrite Phosphorus Orthophosphate Total Organic Carbon Dissolved Organic Carbon		MEL-13 (monthly during open water), MEL-14 (weekly during open water), Culvert 2, 3, 4 (2x/month during open water) and channel 1, 2 and 5 (2x/month during open water), Nipissar Lake and Little Meliadine Lake		8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$ 23.99 \$ 23.99 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 13.23 \$ 13.23 \$ 14.78 \$ 15.78 \$ 15.78 \$ 15.78 \$ 15.78 \$ 15.78 \$ 15.78 \$ 15.78 \$ 15.78 \$ 15.78 \$ 15.78 \$ 15.78 \$ 15.78 \$ 15.78 \$ 15.78 \$ 15.78 \$ 15.78 \$ 15.78 \$ 15.78 \$	472.05 \$	42 484.50 \$	included 15.00 \$ 35.00 \$ included included included included included included 15.00 \$ 10.00 \$ 18.00 \$ 19.00 \$ 30.00 \$ 15.00 \$ included included included 25.00 \$ 25.00 \$ 27.00 \$	504.00 \$	45 360.00 \$	15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$ 15.00 \$ 12.00 \$ 12.00 \$ 12.00 \$ 15.00 \$ 12.00 \$ 12.00 \$ 15.00 \$ 15.00 \$	511.80 \$	46 062.00 \$	included included 20.00 \$ included with metals included 12.00 \$ 9.00 \$ 12.00 \$ 15.00 \$ 15.00 \$ 15.00 \$ included included included included with metals 10.00 \$	381.00\$	34 290.00 \$
Full Suite	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate TDS TSS Total Cyanide Free Cyanide Cyanide WAD Ammonia nitrogen Total Kjeldahl Nitrogen Nitrate Nitrite Phosphorus Orthophosphate Total Organic Carbon		MEL-13 (monthly during open water), MEL-14 (weekly during open water), Culvert 2, 3, 4 (2x/month during open water) and channel 1, 2 and 5 (2x/month during open water), Nipissar Lake and Little Meliadine Lake (Annually), P1 and P3		8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$ 23.99 \$ 23.99 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 13.23 \$ 12.78 \$	472.05 \$	42 484.50 \$	included 15.00 \$ 35.00 \$ included included included included included included 15.00 \$ 10.00 \$ 18.00 \$ 19.00 \$ 30.00 \$ 16.00 \$ included included included	504.00 \$	45 360.00 \$	15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$ 15.00 \$ 12.00 \$ 12.00 \$ 12.00 \$ 15.00 \$ 15.00 \$	511.80 \$	46 062.00 \$	included included 20.00 \$ included with metals included 12.00 \$ 9.00 \$ 12.00 \$ 15.00 \$ 15.00 \$ 10.00 \$ included included included with metals 10.00 \$	381.00\$	34 290.00 \$
Full Suite	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate TDS TSS Total Cyanide Free Cyanide Cyanide WAD Ammonia nitrogen Total Kjeldahl Nitrogen Nitrate Nitrite Phosphorus Orthophosphate Total Organic Carbon Dissolved Organic Carbon Reactive Silica Total Petroleum Hydrocarbons (TPH)		MEL-13 (monthly during open water), MEL-14 (weekly during open water), Culvert 2, 3, 4 (2x/month during open water) and channel 1, 2 and 5 (2x/month during open water), Nipissar Lake and Little Meliadine Lake		8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$ 23.99 \$ 23.99 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 13.23 \$ 12.78 \$ 13.23 \$ 13.23 \$ 13.23 \$ 33.34 \$	472.05 \$	42 484.50 \$	included 15.00 \$ 35.00 \$ included included included included included included 15.00 \$ 10.00 \$ 18.00 \$ 19.00 \$ 30.00 \$ 15.00 \$ included included included 25.00 \$ 25.00 \$ 27.00 \$ 40.00 \$	504.00 \$	45 360.00 \$	15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$ 15.00 \$ 12.00 \$ 12.00 \$ 12.00 \$ 15.00 \$ 12.00 \$ 15.0	511.80\$	46 062.00 \$	included included 20.00 \$ included with metals included 12.00 \$ 9.00 \$ 12.00 \$ 15.00 \$ 15.00 \$ 10.00 \$ included included included included included included included 30.00 \$ 10.00 \$	381.00\$	34 290.00 \$
Full Suite	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate TDS TSS Total Cyanide Free Cyanide Cyanide WAD Ammonia nitrogen Total Kjeldahl Nitrogen Nitrate Nitrite Phosphorus Orthophosphate Total Organic Carbon Dissolved Organic Carbon Reactive Silica Total Petroleum Hydrocarbons (TPH) Total Metals (Aluminum, Antimony, Arsenic, Barium,		MEL-13 (monthly during open water), MEL-14 (weekly during open water), Culvert 2, 3, 4 (2x/month during open water) and channel 1, 2 and 5 (2x/month during open water), Nipissar Lake and Little Meliadine Lake (Annually), P1 and P3 (monthly during open		8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$ 23.99 \$ 23.99 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 13.23 \$ 12.78 \$ 13.23 \$ 13.23 \$ 13.23 \$ 33.34 \$	472.05 \$	42 484.50 \$	included 15.00 \$ 35.00 \$ included included included included included included 15.00 \$ 10.00 \$ 18.00 \$ 19.00 \$ 30.00 \$ 15.00 \$ included included included 25.00 \$ 25.00 \$ 27.00 \$ 40.00 \$	504.00\$	45 360.00 \$	15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$ 15.00 \$ 12.00 \$ 12.00 \$ 12.00 \$ 15.00 \$ 12.00 \$ 15.0	511.80 \$	46 062.00 \$	included included 20.00 \$ included with metals included 12.00 \$ 9.00 \$ 12.00 \$ 15.00 \$ 15.00 \$ 10.00 \$ included included included included included included included 30.00 \$ 10.00 \$	381.00\$	34 290.00 \$
Full Suite	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate TDS TSS Total Cyanide Free Cyanide Cyanide WAD Ammonia nitrogen Total Kjeldahl Nitrogen Nitrate Nitrite Phosphorus Orthophosphate Total Organic Carbon Dissolved Organic Carbon Reactive Silica Total Petroleum Hydrocarbons (TPH) Total Metals (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron,		MEL-13 (monthly during open water), MEL-14 (weekly during open water), Culvert 2, 3, 4 (2x/month during open water) and channel 1, 2 and 5 (2x/month during open water), Nipissar Lake and Little Meliadine Lake (Annually), P1 and P3 (monthly during open		8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$ 23.99 \$ 23.99 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 14.78 \$ 15.78 \$ 15.78 \$ 15.78 \$ 16.78 \$ 16.78 \$ 17.88 \$ 17.88 \$ 18.23 \$ 18.23 \$ 38.34 \$ 45.00 \$	472.05 \$	42 484.50 \$	included 15.00 \$ 35.00 \$ included included included included included included 15.00 \$ 10.00 \$ 18.00 \$ 19.00 \$ 30.00 \$ 15.00 \$ included included included 25.00 \$ 25.00 \$ 27.00 \$ 40.00 \$	504.00\$	45 360.00 \$	15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$ 15.00 \$ 12.00 \$ 12.00 \$ 12.00 \$ 15.0	511.80\$	46 062.00 \$	included included 20.00 \$ included with metals included 12.00 \$ 9.00 \$ 12.00 \$ 15.00 \$ 15.00 \$ 10.00 \$ included included included included included included 30.00 \$ 1	381.00\$	34 290.00 \$
Full Suite	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate TDS TSS Total Cyanide Free Cyanide Cyanide WAD Ammonia nitrogen Total Kjeldahl Nitrogen Nitrate Nitrite Phosphorus Orthophosphate Total Organic Carbon Dissolved Organic Carbon Reactive Silica Total Petroleum Hydrocarbons (TPH) Total Metals (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Lithium, Manganese, Molybdenum, Nickel,		MEL-13 (monthly during open water), MEL-14 (weekly during open water), Culvert 2, 3, 4 (2x/month during open water) and channel 1, 2 and 5 (2x/month during open water), Nipissar Lake and Little Meliadine Lake (Annually), P1 and P3 (monthly during open		8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$ 23.99 \$ 23.99 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 13.23 \$ 12.78 \$ 13.23 \$ 13.23 \$ 13.23 \$ 33.34 \$	472.05 \$	42 484.50 \$	included 15.00 \$ 35.00 \$ included included included included included included 15.00 \$ 10.00 \$ 18.00 \$ 19.00 \$ 30.00 \$ 15.00 \$ included included included 25.00 \$ 25.00 \$ 27.00 \$ 40.00 \$	504.00 \$	45 360.00 \$	15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$ 15.00 \$ 12.00 \$ 12.00 \$ 12.00 \$ 15.00 \$ 12.00 \$ 15.0	511.80 \$	46 062.00 \$	included included 20.00 \$ included with metals included 12.00 \$ 9.00 \$ 12.00 \$ 15.00 \$ 15.00 \$ 10.00 \$ included included included included included included included 30.00 \$ 10.00 \$	381.00\$	34 290.00 \$
Full Suite	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate TDS TSS Total Cyanide Free Cyanide Cyanide WAD Ammonia nitrogen Total Kjeldahl Nitrogen Nitrate Nitrite Phosphorus Orthophosphate Total Organic Carbon Dissolved Organic Carbon Reactive Silica Total Petroleum Hydrocarbons (TPH) Total Metals (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron,		MEL-13 (monthly during open water), MEL-14 (weekly during open water), Culvert 2, 3, 4 (2x/month during open water) and channel 1, 2 and 5 (2x/month during open water), Nipissar Lake and Little Meliadine Lake (Annually), P1 and P3 (monthly during open		8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$ 23.99 \$ 23.99 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 14.78 \$ 15.78 \$ 15.78 \$ 15.78 \$ 16.78 \$ 16.78 \$ 17.88 \$ 17.88 \$ 18.23 \$ 18.23 \$ 38.34 \$ 45.00 \$	472.05 \$	42 484.50 \$	included 15.00 \$ 35.00 \$ included included included included included included 15.00 \$ 10.00 \$ 18.00 \$ 19.00 \$ 30.00 \$ 15.00 \$ included included included 25.00 \$ 25.00 \$ 27.00 \$ 40.00 \$	504.00 \$	45 360.00 \$	15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$ 15.00 \$ 12.00 \$ 12.00 \$ 12.00 \$ 15.0	511.80 \$	46 062.00 \$	included included 20.00 \$ included with metals included 12.00 \$ 9.00 \$ 12.00 \$ 15.00 \$ 15.00 \$ 10.00 \$ included included included included included included 30.00 \$ 1	381.00\$	34 290.00 \$
Full Suite	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate TDS TSS Total Cyanide Free Cyanide Cyanide WAD Ammonia nitrogen Total Kjeldahl Nitrogen Nitrate Nitrite Phosphorus Orthophosphate Total Organic Carbon Dissolved Organic Carbon Reactive Silica Total Petroleum Hydrocarbons (TPH) Total Metals (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Lithium, Manganese, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin, Titanium, Uranium, Vanadium, Zinc)		MEL-13 (monthly during open water), MEL-14 (weekly during open water), Culvert 2, 3, 4 (2x/month during open water) and channel 1, 2 and 5 (2x/month during open water), Nipissar Lake and Little Meliadine Lake (Annually), P1 and P3 (monthly during open		8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$ 23.99 \$ 23.99 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 14.78 \$ 15.	472.05 \$	42 484.50 \$	included 15.00 \$ 35.00 \$ included included included included included 15.00 \$ 10.00 \$ 18.00 \$ 19.00 \$ 30.00 \$ 15.00 \$ included included 25.00 \$ 25.00 \$ 27.00 \$ 40.00 \$ 35.00 \$	504.00 \$	45 360.00 \$	15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$ 15.00 \$ 12.00 \$ 12.00 \$ 12.00 \$ 15.00 \$ 15.00 \$ 45.00 \$	511.80 \$	46 062.00 \$	included included 20.00 \$ included with metals included 12.00 \$ 9.00 \$ 12.00 \$ 15.00 \$ 15.00 \$ 10.00 \$ included included included included included included 31.00 \$ 10.00 \$ 1	381.00\$	34 290.00 \$
Full Suite	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate TDS TSS TSS Total Cyanide Free Cyanide Cyanide WAD Ammonia nitrogen Total Kjeldahl Nitrogen Nitrate Nitrate Nitrite Phosphorus Orthophosphate Total Organic Carbon Dissolved Organic Carbon Reactive Silica Total Metals (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Lithium, Manganese, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin, Titanium,		MEL-13 (monthly during open water), MEL-14 (weekly during open water), Culvert 2, 3, 4 (2x/month during open water) and channel 1, 2 and 5 (2x/month during open water), Nipissar Lake and Little Meliadine Lake (Annually), P1 and P3 (monthly during open		8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$ 23.99 \$ 23.99 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 14.78 \$ 15.78 \$ 15.78 \$ 15.78 \$ 16.78 \$ 16.78 \$ 17.88 \$ 17.88 \$ 18.23 \$ 18.23 \$ 38.34 \$ 45.00 \$	472.05 \$	42 484.50 \$	included 15.00 \$ 35.00 \$ included included included included included included 15.00 \$ 10.00 \$ 18.00 \$ 19.00 \$ 30.00 \$ 15.00 \$ included included included 25.00 \$ 25.00 \$ 27.00 \$ 40.00 \$	504.00\$	45 360.00 \$	15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$ 15.00 \$ 12.00 \$ 12.00 \$ 12.00 \$ 15.0	511.80 \$	46 062.00 \$	included included 20.00 \$ included with metals included 12.00 \$ 9.00 \$ 12.00 \$ 15.00 \$ 15.00 \$ 10.00 \$ included included included included included included 30.00 \$ 1	381.00\$	34 290.00 \$
Full Suite	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate TDS TSS TSS Total Cyanide Free Cyanide Cyanide WAD Ammonia nitrogen Total Kjeldahl Nitrogen Nitrate Nitrite Phosphorus Orthophosphate Total Organic Carbon Dissolved Organic Carbon Dissolved Organic Carbon Carbon Dissolved Organic Carbon Dissolved Organic Carbon Reactive Silica Total Petroleum Hydrocarbons (TPH) Total Metals (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Lithium, Manganese, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin, Titanium, Uranium, Vanadium, Zinc) Mercury (cold vapor) Dissolved Metals (Aluminum, Antimony, Arsenic, Barium,		MEL-13 (monthly during open water), MEL-14 (weekly during open water), Culvert 2, 3, 4 (2x/month during open water) and channel 1, 2 and 5 (2x/month during open water), Nipissar Lake and Little Meliadine Lake (Annually), P1 and P3 (monthly during open		8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$ 23.99 \$ 23.99 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 14.78 \$ 15.	472.05 \$	42 484.50 \$	included 15.00 \$ 35.00 \$ included included included included included 15.00 \$ 10.00 \$ 18.00 \$ 19.00 \$ 30.00 \$ 15.00 \$ included included 25.00 \$ 25.00 \$ 27.00 \$ 40.00 \$ 35.00 \$	504.00\$	45 360.00 \$	15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$ 15.00 \$ 12.00 \$ 12.00 \$ 12.00 \$ 15.00 \$ 15.00 \$ 45.00 \$	511.80 \$	46 062.00 \$	included included 20.00 \$ included with metals included 12.00 \$ 9.00 \$ 12.00 \$ 15.00 \$ 15.00 \$ 10.00 \$ included included included included included included 31.00 \$ 10.00 \$ 1	381.00\$	34 290.00 \$
Full Suite	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate TDS TSS TSS Total Cyanide Free Cyanide Cyanide WAD Ammonia nitrogen Total Kjeldahl Nitrogen Nitrate Nitrite Phosphorus Orthophosphate Total Organic Carbon Dissolved Organic Carbon Dissolved Organic Carbon Carbon Dissolved Organic Carbon Carbon Dissolved Organic Carbon Dissolved Organic Carbon Reactive Silica Total Petroleum Hydrocarbons (TPH) Total Metals (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Lithium, Manganese, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin, Titanium, Uranium, Vanadium, Zinc) Mercury (cold vapor) Dissolved Metals (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron,		MEL-13 (monthly during open water), MEL-14 (weekly during open water), Culvert 2, 3, 4 (2x/month during open water) and channel 1, 2 and 5 (2x/month during open water), Nipissar Lake and Little Meliadine Lake (Annually), P1 and P3 (monthly during open		8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$ 23.99 \$ 23.99 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 14.78 \$ 15.75 \$ 15.75 \$	472.05 \$	42 484.50 \$	included 15.00 \$ 35.00 \$ included included included included included 15.00 \$ 10.00 \$ 18.00 \$ 19.00 \$ 30.00 \$ 15.00 \$ 16.00 \$ included included included \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ 3	504.00\$	45 360.00 \$	15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$ 15.00 \$ 12.00 \$ 12.00 \$ 15.00 \$ 15.00 \$ 45.00 \$ 24.00 \$ 30.00 \$ 45.00 \$	511.80\$	46 062.00 \$	included included 20.00 \$ included 4 20.00 \$ included 4 20.00 \$ included 12.00 \$ 9.00 \$ 12.00 \$ 15.00 \$ 15.00 \$ 15.00 \$ 10.00 \$ included included included included 3 10.00 \$ 10.00 \$ 10.00 \$ 12.00 \$ 12.00 \$ 13.00 \$	381.00\$	34 290.00 \$
Full Suite	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate TDS TSS TSS Total Cyanide Free Cyanide Cyanide WAD Ammonia nitrogen Total Kjeldahl Nitrogen Nitrate Nitrate Phosphorus Orthophosphate Total Organic Carbon Dissolved Organic Carbon Reactive Silica Total Petroleum Hydrocarbons (TPH) Total Metals (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Lithium, Manganese, Molybdenum, Nickel, Selenium, Vanadium, Zinc) Mercury (cold vapor) Dissolved Metals (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Lithium, Manganese, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin, Titanium, Uranium, Vanadium, Zinc)		MEL-13 (monthly during open water), MEL-14 (weekly during open water), Culvert 2, 3, 4 (2x/month during open water) and channel 1, 2 and 5 (2x/month during open water), Nipissar Lake and Little Meliadine Lake (Annually), P1 and P3 (monthly during open		8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$ 23.99 \$ 23.99 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 14.78 \$ 15.	472.05 \$	42 484.50 \$	included 15.00 \$ 35.00 \$ included included included included included 15.00 \$ 10.00 \$ 18.00 \$ 19.00 \$ 30.00 \$ 15.00 \$ included included 25.00 \$ 25.00 \$ 27.00 \$ 40.00 \$ 35.00 \$	504.00\$	45 360.00 \$	15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$ 15.00 \$ 12.00 \$ 12.00 \$ 12.00 \$ 15.00 \$ 15.00 \$ 45.00 \$	511.80 \$	46 062.00 \$	included included 20.00 \$ included with metals included 12.00 \$ 9.00 \$ 12.00 \$ 15.00 \$ 15.00 \$ 10.00 \$ included included included included included included 31.00 \$ 10.00 \$ 1	381.00\$	34 290.00 \$
Full Suite	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate TDS TSS Total Cyanide Free Cyanide Cyanide WAD Ammonia nitrogen Total Kjeldahl Nitrogen Nitrate Nitrite Phosphorus Orthophosphate Total Organic Carbon Dissolved Organic Carbon Reactive Silica Total Petroleum Hydrocarbons (TPH) Total Metals (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Lithium, Vanadium, Zinc) Mercury (cold vapor) Dissolved Metals (Aluminum, Antimony, Arsenic, Barium, Uranium, Vanadium, Zinc) Mercury (cold vapor) Dissolved Metals (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Lithium, Manganese, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin, Titanium, Uranium, Vanadium, Zinc)		MEL-13 (monthly during open water), MEL-14 (weekly during open water), Culvert 2, 3, 4 (2x/month during open water) and channel 1, 2 and 5 (2x/month during open water), Nipissar Lake and Little Meliadine Lake (Annually), P1 and P3 (monthly during open		8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$ 23.99 \$ 23.99 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 14.78 \$ 15.75 \$ 15.75 \$	472.05 \$	42 484.50 \$	included 15.00 \$ 35.00 \$ included included included included included 15.00 \$ 10.00 \$ 18.00 \$ 19.00 \$ 30.00 \$ 15.00 \$ 16.00 \$ included included included \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ \$ 30.00 \$ 3	504.00\$	45 360.00 \$	15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$ 15.00 \$ 12.00 \$ 12.00 \$ 15.00 \$ 15.00 \$ 45.00 \$ 24.00 \$ 30.00 \$ 45.00 \$	511.80 \$	46 062.00 \$	included included 20.00 \$ included 4 20.00 \$ included 4 20.00 \$ included 12.00 \$ 9.00 \$ 12.00 \$ 15.00 \$ 15.00 \$ 15.00 \$ 10.00 \$ included included included included 3 10.00 \$ 10.00 \$ 10.00 \$ 12.00 \$ 12.00 \$ 13.00 \$	381.00\$	34 290.00 \$
Full Suite	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate TDS TSS TSS Total Cyanide Free Cyanide Cyanide WAD Ammonia nitrogen Total Kjeldahl Nitrogen Nitrate Nitrite Phosphorus Orthophosphate Total Organic Carbon Dissolved Organic Carbon Dissolved Organic Carbon Reactive Silica Total Petroleum Hydrocarbons (TPH) Total Metals (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Lithium, Manganese, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin, Titanium, Uranium, Vanadium, Zinc) Dissolved Metals (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Lithium, Manganese, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin, Titanium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Lithium, Manganese, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin, Titanium, Uranium, Vanadium, Zinc)		MEL-13 (monthly during open water), MEL-14 (weekly during open water), Culvert 2, 3, 4 (2x/month during open water) and channel 1, 2 and 5 (2x/month during open water), Nipissar Lake and Little Meliadine Lake (Annually), P1 and P3 (monthly during open		8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$ 23.99 \$ 23.99 \$ 12.78 \$ 12.78 \$ 7.88 \$ 7.88 \$ 7.88 \$ 13.23 \$ 12.78 \$ 19.17 \$ 18.23 \$ 38.34 \$ 45.00 \$	472.05 \$	42 484.50 \$	included 15.00 \$ 35.00 \$ included included included included included included 15.00 \$ 10.00 \$ 18.00 \$ 19.00 \$ 30.00 \$ 15.00 \$ 16.00 \$ included included included \$ 53.00 \$ 25.00 \$ 27.00 \$ 40.00 \$ 35.00 \$  included included	504.00\$	45 360.00 \$	15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$ 15.00 \$ 12.00 \$ 12.00 \$ 12.00 \$ 12.00 \$ 15.00 \$ 45.00 \$ 24.0	511.80 \$	46 062.00 \$	included included 20.00 \$ included 412.00 \$ included 12.00 \$ 9.00 \$ 12.00 \$ 15.00 \$ 15.00 \$ 15.00 \$ 10	381.00\$	34 290.00 \$
Full Suite	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate TDS TSS TSS Total Cyanide Free Cyanide Cyanide WAD Ammonia nitrogen Total Kjeldahl Nitrogen Nitrate Nitrate Phosphorus Orthophosphate Total Organic Carbon Dissolved Organic Carbon Reactive Silica Total Petroleum Hydrocarbons (TPH) Total Metals (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Lithium, Manganese, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin, Titanium, Uranium, Vanadium, Zinc) Dissolved Metals (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Lithium, Manganese, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin, Titanium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Lithium, Manganese, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin, Titanium, Uranium, Vanadium, Zinc) Dissolved Mercury (cold vapor)		MEL-13 (monthly during open water), MEL-14 (weekly during open water), Culvert 2, 3, 4 (2x/month during open water) and channel 1, 2 and 5 (2x/month during open water), Nipissar Lake and Little Meliadine Lake (Annually), P1 and P3 (monthly during open		8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$ 23.99 \$ 23.99 \$ 12.78 \$ 7.88 \$ 7.88 \$ 7.88 \$ 13.23 \$ 12.78 \$ 19.17 \$ 18.23 \$ 38.34 \$ 45.00 \$	472.05 \$	42 484.50 \$	included  15.00 \$  35.00 \$  included included included included  included 15.00 \$  10.00 \$  18.00 \$  19.00 \$  30.00 \$  16.00 \$  included i	504.00 \$	45 360.00 \$	15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$ 15.00 \$ 12.00 \$ 12.00 \$ 12.00 \$ 12.00 \$ 15.00 \$ 45.00 \$ 24.00 \$ 25.00 \$	511.80 \$	46 062.00 \$	included included 20.00 \$ included 4 20.00 \$ included 4 20.00 \$ included 12.00 \$ 9.00 \$ 12.00 \$ 15.00 \$ 15.00 \$ 15.00 \$ 10.00 \$ included included included included 3 10.00 \$	381.00\$	34 290.00 \$
Full Suite	Carbonate Alkalinity Total Alkalinity Chloride Calcium Potassium Magnesium Sodium Sulphate TDS TSS TSS Total Cyanide Free Cyanide Cyanide WAD Ammonia nitrogen Total Kjeldahl Nitrogen Nitrate Nitrite Phosphorus Orthophosphate Total Organic Carbon Dissolved Organic Carbon Dissolved Organic Carbon Reactive Silica Total Petroleum Hydrocarbons (TPH) Total Metals (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Lithium, Manganese, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin, Titanium, Uranium, Vanadium, Zinc) Dissolved Metals (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Lithium, Manganese, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin, Titanium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Lithium, Manganese, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin, Titanium, Uranium, Vanadium, Zinc)		MEL-13 (monthly during open water), MEL-14 (weekly during open water), Culvert 2, 3, 4 (2x/month during open water) and channel 1, 2 and 5 (2x/month during open water), Nipissar Lake and Little Meliadine Lake (Annually), P1 and P3 (monthly during open		8.37 \$ 12.78 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$ 10.35 \$ 23.99 \$ 23.99 \$ 23.99 \$ 12.78 \$ 12.78 \$ 7.88 \$ 7.88 \$ 7.88 \$ 13.23 \$ 12.78 \$ 19.17 \$ 18.23 \$ 38.34 \$ 45.00 \$	472.05 \$	42 484.50 \$	included 15.00 \$ 35.00 \$ included included included included included included 15.00 \$ 10.00 \$ 18.00 \$ 19.00 \$ 30.00 \$ 15.00 \$ 16.00 \$ included included included \$ 53.00 \$ 25.00 \$ 27.00 \$ 40.00 \$ 35.00 \$  included included	504.00 \$	45 360.00 \$	15.00 \$ 7.00 \$ 16.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 15.00 \$ 15.00 \$ 12.00 \$ 12.00 \$ 12.00 \$ 12.00 \$ 15.00 \$ 45.00 \$ 24.0	511.80 \$	46 062.00 \$	included included 20.00 \$ included 412.00 \$ included 12.00 \$ 9.00 \$ 12.00 \$ 15.00 \$ 15.00 \$ 15.00 \$ 10	381.00\$	34 290.00 \$

Underground Water	Carbonate Alkalinity Total Alkalinity Chloride Conductivity Hardness Calcium Potassium Magnesium Sodium Sulphate TDS TSS Turbidity Ammonia nitrogen Total Kjeldahl Nitrogen Nitrate Nitrite Orthophosphate Total Phosphorus TOC DOC Reactive Silica Radium 226 TPH - included with BTEX costs below if 0,00\$) Oil and Grease BTEX Total Cyanide Free Cyanide Total Metals (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Lithium, Manganese, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin, Titanium, Uranium, Vanadium, Zinc) Dissolved Metals (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Lithium, Manganese, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin, Titanium, Uranium, Vanadium, Zinc) Dissolved Metals (Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Lithium, Manganese, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin, Titanium, Uranium, Vanadium, Zinc) Dissolved Mercury (cold vapor)	Monthly	DDH, Level 50, 75, 125	24	0.00 \$ 8.37 \$ 12.78 \$ 9.32 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 12.78 \$ 10.35 \$ 10.35 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 12.78 \$ 13.23 \$ 19.17 \$ 18.23 \$ 38.34 \$ 191.70 \$ 0.00 \$ 28.76 \$ 119.84 \$ 23.99 \$ 23.99 \$ 51.39 \$	743.36\$	17 840.52 \$	included  15.00 \$  35.00 \$  12.00 \$  18.00 \$  included  15.00 \$  10.00 \$  12.00 \$  15.00 \$  16.00 \$  included	714.00 \$	17 136.00 \$	15.00 \$ 7.00 \$ 16.00 \$ 5.00 \$ 15.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 13.50 \$ 11.30 \$ 7.50 \$ 8.00 \$ 12.00 \$ 12.00 \$ 15.00 \$ 12.00 \$ 15.00 \$	644.80\$	15 475.20 \$	included included 20.00 \$ included  included  included  included  included  12.00 \$ 9.00 \$ 15.00 \$ 9.00 \$ included in TPH 12.00 \$ 15.00 \$ 155.00 \$	556.00\$	13 344.00 \$
MDMER - Effluent Monitoring	pH TSS Radium 226 Total Cyanide Total Ammonia (as N) Metals ICPMS (As, Cu, Ni, Pb, Zn)	Weekly during periods of discharge (approx 3months)	MEL-14, MEL-26	24	4.50 \$ 10.35 \$ 191.70 \$ 23.99 \$ 12.78 \$ 31.50 \$	274.82 \$	6 595.56 \$	7.00 \$ 10.00 \$ 180.00 \$ 18.00 \$ 15.00 \$ 25.00 \$	255.00 \$	6 120.00 \$	5.00 \$ 7.00 \$ 75.00 \$ 15.00 \$ 12.00 \$	142.00 \$	3 408.00 \$	5.00 \$ 9.00 \$ 150.00 \$ 12.00 \$ 9.00 \$	215.00\$	5 160.00 \$
MDMER - EEM - Mixing Zone	pH Alkalinity Chloride Conductivity Hardness Nitrate Sulphate Ammonia (expressed as N) Total Phosphorus Metals - Trace (Al, Cd, Co, Cr, Fe, Hg, Mn, Mo, Se, Tl, U)	Monthly during periods of discharge (approx 3 months)	MEL-13, MEL-26-EEM	6	4.50 \$ 8.37 \$ 12.78 \$ 9.32 \$ 0.00 \$ 7.88 \$ 12.78 \$ 12.78 \$ 12.78 \$ 13.23 \$	158.13\$	948.78\$	7.00 \$ 15.00 \$ 35.00 \$ 12.00 \$ 18.00 \$ included included 15.00 \$ 16.00 \$	161.00 \$	966.00\$	5.00 \$ 7.00 \$ 16.00 \$ 5.00 \$ 15.00 \$ 12.00 \$ 12.00 \$ 13.50 \$ 12.00 \$ 35.00 \$	135.50\$	813.00\$	15.00 \$ included with pH 20.00 \$ included with pH include with metals included included journal of the photostate of the	82.00 \$	492.00\$
	pH Dissolved Oxygen Carbonate Alkalinity Bicarbonate Alkalinity Total Alkalinity TDS TSS Chloride Conductivity Turbidity TPH Hardness Calcium Potassium Magnesium Sodium				4.50 \$ 19.80 \$ 0.00 \$ 0.00 \$ 8.37 \$ 10.35 \$ 10.35 \$ 12.78 \$ 9.32 \$ 9.32 \$ 45.00 \$ 0.00 \$ 0.00 \$ 0.00 \$			7.00 \$ 12.00 \$ 15.00 \$ included 15.00 \$ 15.00 \$ 15.00 \$ 10.00 \$ 35.00 \$ 12.00 \$ 35.00 \$ 12.00 \$ included included included			5.00 \$ 16.00 \$ 15.00 \$ 15.00 \$ 7.00 \$ 11.30 \$ 7.50 \$ 16.00 \$ 5.00 \$ 8.00 \$ 55.00 \$ 0.00 \$ 0.00 \$			15.00 \$ 10.00 \$ included  12.00 \$ 9.00 \$ 20.00 \$ included  15.00 \$ 125.00 \$		

1	Ammonia		1 1		12.78\$			-			12.00 \$					
	Ammonia nitrogen				-			15.00 \$			12.00 \$			9.00\$		
	Total Kjeldahl Nitrogen				12.78 \$			16.00 \$	†		18.00 \$			10.00 \$		
MDMER - EEM -					7.88 \$			included	+		12.00 \$			included		
Receiving	Nitrate	3 / year	MEL-03-01, MEL-26	6		702.27 \$	4 213.62 \$		696.00\$	4 176.00 \$		575.30 \$	3 451.80 \$		541.00\$	3 246.00 \$
Environment	Nitrite	3 / Year	Reference	Ü	7.88 \$	,02.2, 0	· 213.02 ¢	included	ο30.00 φ	1 17 0.00 ¢	12.00 \$	373.30 ¢	5 152166 ¢	included	3 12100 ¢	5 Z 10.00 Ç
Liiviioiiiieit	Orthophosphate				12.78 \$			18.00\$	1		15.00 \$			10.00 \$		
	Total Phosphorus				13.23 \$			16.00\$			15.00 \$			included with metals		
	TOC				19.17 \$			25.00\$			24.00 \$			10.00 \$		
	DOC				18.23 \$			27.00 \$			24.00 \$			10.00 \$		
	Reactive Silica				38.34 \$			40.00\$			30.00 \$			18.00 \$		
	Radium 226				191.70\$			180.00 \$			75.00 \$			150.00 \$		
	Total Cyanide				23.99 \$			18.00\$			15.00 \$			12.00 \$		
	Free Cyanide				23.99 \$			19.00 \$			15.00 \$			15.00 \$		
	Cyanide WAD				23.99 \$			30.00\$			15.00 \$			15.00 \$		
	Total Metals - <b>Trace</b> (Aluminum, Antimony, Arsenic,															
	Barium, Beryllium, Boron, Cadmium, Chromium, Copper,															
	Iron, Lead, Lithium, Manganese, Mercury, Molybdenum,				76.50 \$			53.00\$			45.00 \$			38.00 \$		
	Nickel, Selenium, Silver, Strontium, Thallium, Tin, Titanium,															
	Uranium, Vanadium, Zinc)															
									†							
	Dissolved Metals - Trace (Aluminum, Antimony, Arsenic,															
	Barium, Beryllium, Boron, Cadmium, Chromium, Copper,															
	Iron, Lead, Lithium, Manganese, Mercury, Molybdenum,				76.50 \$			53.00\$			47.00 \$			38.00 \$		
	Nickel, Selenium, Silver, Strontium, Thallium, Tin, Titanium,															
	Uranium, Vanadium, Zinc)															
	Acute Toxicity to Rainbow Trout	- ,			200.00\$						350.00 \$			440.00\$		
Acute Lethality	Acute Toxicity to Daphnia Magna	5 / year	MEL-14, MEL-26	10	100.00 \$	300.00 \$	3 000.00 \$	425.00 \$	425.00\$	4 250.00 \$	120.00 \$	470.00 \$	4 700.00 \$	290.00 \$	730.00 \$	7 300.00 \$
	Fathead minnow; 7 day survival and growth				1 728.00 \$			1 100.00 \$			1 250.00 \$			1 440.00 \$		
					·				Ī							
Sublethal Toxicity	Ceriodaphnia dubia; 7-day survival and reproduction	2 / year	MEL-14, MEL-26	4	1 620.00 \$	5 013.00 \$	20 052.00 \$	1 000.00 \$	3 750.00 \$	15 000.00 \$	1 400.00 \$	4 450.00 \$	17 800.00 \$	1 305.00 \$	4 815.00 \$	19 260.00 \$
,	Lemna minor; 7-day growth inhibition	, ,	, ,		1 125.00 \$			1 150.00 \$		,	1 250.00 \$			1 200.00 \$	,	
	Pseudokirchneriella subcapitata				540.00\$			500.00 \$	1		550.00 \$			870.00 Ś		
	Metals (Cd, Cr, Pb)				208.80 \$			45.00\$						50.00 \$		
	PCB			_	118.13 \$			72.50\$						40.00\$		
Oil	Total Organic Halogens (as CI)		W-Oil	4	175.50 \$	614.93 \$	2 459.70 \$	116.50 \$	299.00\$	1 196.00 \$	650.00 \$	650.00 \$	2 600.00 \$	1 075.00 \$	1 365.00 \$	5 460.00 \$
	Flash Point				112.50 \$			65.00 \$	†					200.00 \$		
	Leachate: metals in mg/L				112.50 \$			05.00 \$						200.00 γ		
Ash	(Ag, As, Ba, Cd, Cr, Pb, Se, Zn)	Monthly	I-Ash	12	27.00 \$	42.75 \$	513.00 \$	88.00 \$	88.00 \$	1 056.00 \$	35.00 \$	55.50 \$	666.00\$	115.00 \$	115.00 \$	1 380.00 \$
Asii	Mercury in leachate	Wichting	I-A3II	12	15.75 \$	42.75 \$	313.00 \$	00.00 Ç	ου.υυ γ	1 050.00 \$	20.50 \$	33.30 \$	000.00 φ	115.00 \$	115.00 \$	1 300.00 \$
Hudrocarbon Cnill	PHC F1-F4 BTEX (water and soil)	as nooded		1	119.84 \$	110 04 ¢	119.84 \$	125.00 \$	125.00 \$	125.00 \$	45.00 \$	45.00 \$	45.00 \$	125.00 \$	125.00 \$	125.00 \$
Hydrocarbon Spill	` '	as needed		1	54.90 \$	119.84 \$	119.84 \$	55.00 \$	125.00 \$	125.00 \$	45.00 \$	45.00 \$	45.00 \$	100.10 \$	125.00 \$	125.00 \$
Air Passive	SO2 NO2	Monthly	DF-5, DF-7	24	54.90 \$	109.80 \$	2 635.20 \$	55.00 \$	110.00\$	2 640.00 \$	180.00 \$	180.00 \$	4 320.00 \$	100.10 \$	200.20\$	4 804.80 \$
	PM2.5				54.90 \$			33.00 \$						27.30 \$		
Air Activo		Every 6 days	2 partisol stations	122		164.70 \$	20 020 E0 ¢	16 E0 ¢	16.50 \$	2.007.50.6	270 00 ¢	270.00 \$	22 050 00 ¢		81.90 \$	9 964.50 \$
Air Active	PM10 TSP	Every 6 days	2 partisol stations	122	54.90 \$	104.70 \$	20 038.50 \$	16.50\$	10.50 \$	2 007.50 \$	270.00 \$	270.00 \$	32 850.00 \$	27.30 \$	81.90 \$	9 964.50 \$
	171				54.90 \$									27.30 \$		
	Dustfall Total		5 site, 3 AWAR, 13		120.60\$			106.00\$			180.00 \$			45.00 \$		
Dust fall	Dustfall Fixed	Monthly	Rankin Inlet, more	240		194.40 \$	46 656.00 \$		156.00\$	37 440.00 \$		245.00 \$	58 800.00 \$		115.00\$	27 600.00 \$
Dasc raii	Dustfall Metals		stations to be added	2.0	73.80 \$	25 11 10 \$	ιο οσοίου φ	50.00\$	130.00 φ	37 110.00 ¢	65.00 \$	215.00 \$	30 000.00 ¢	70.00 \$	115.00 \$	Σ, σσσισσ φ
	Dustraii Metais		stations to be duded		75.80 \$			30.00 \$			05.00 \$			70.00 \$		
Snowpack	Total Metals	Annually	4 site dustfall stations	4	45.00 \$	45.00 \$	180.00\$	40.00 \$	40.00 \$	160.00\$	220.00 \$	220.00 \$	880.00\$	35.00 \$	35.00 \$	140.00\$
	ABA							48.00 \$			130.00 \$			100.00 \$		
Tailings-solid	Bulk Metals	Weekly	tailings-solid	52		0.00\$	0.00\$	14.00\$	62.00\$	3 224.00 \$	78.00 \$	208.00 \$	10 816.00 \$	55.00 \$	155.00\$	8 060.00 \$
	Sample preparation and disposal							48.00 \$			130.00 \$			- 100.00 ¢		
	ABA Bulk Metals							48.00 \$ 14.00 \$	+		130.00 \$ 78.00 \$			100.00 \$ 55.00 \$		
Waste Rock	WRA	Monthly	10 waste rock	120	339.75 \$	339.75 \$	40 770.00 \$	25.00 \$	137.00 \$	16 440.00 \$	78.00 \$ 50.00 \$	463.00 \$	55 560.00 \$	35.00 \$ 35.00 \$	330.00\$	39 600.00 \$
Waste Nock	Shake Flask	iviolitiny	10 Waste lock	120	333.73 \$	333.73 \$	40 7 70.00 9	50.00 \$	137.00 \$	10 440.00 9	180.00 \$	403.00 Ş	33 300.00 ş	140.00 \$		
	Sample preparation and disposal							-			25.00 \$			-		
SUBTOTAL							249 996.81 \$			221 326.50 \$			284 423.30 \$			220 324.30 \$
	Environmental Disposal			1118	5.00 \$	5.00 \$	5 588.33 \$	5.00 \$	5.00 \$			0.00 \$	·		5.00 \$	5 588.33 \$
TOTAL				1110	5.50 y	5.00 \$	255 585.14 \$	3.30 y	5.00 9	226 914.83 \$		0.00 \$	284 423.30 \$		5.00 \$	225 912.63 \$
IOIAL							233 303.14 3			220 314.03 3			204 423.30 3			223 312.03 3

<sup>\*</sup> Tailings and waste rock analysis was removed from the total for easier comparison

\* Aquatox pricing