



REPORT

Mine Site and Downstream Receiving Water Quality Predictions

Whale Tail Pit - Expansion Project

Submitted to:

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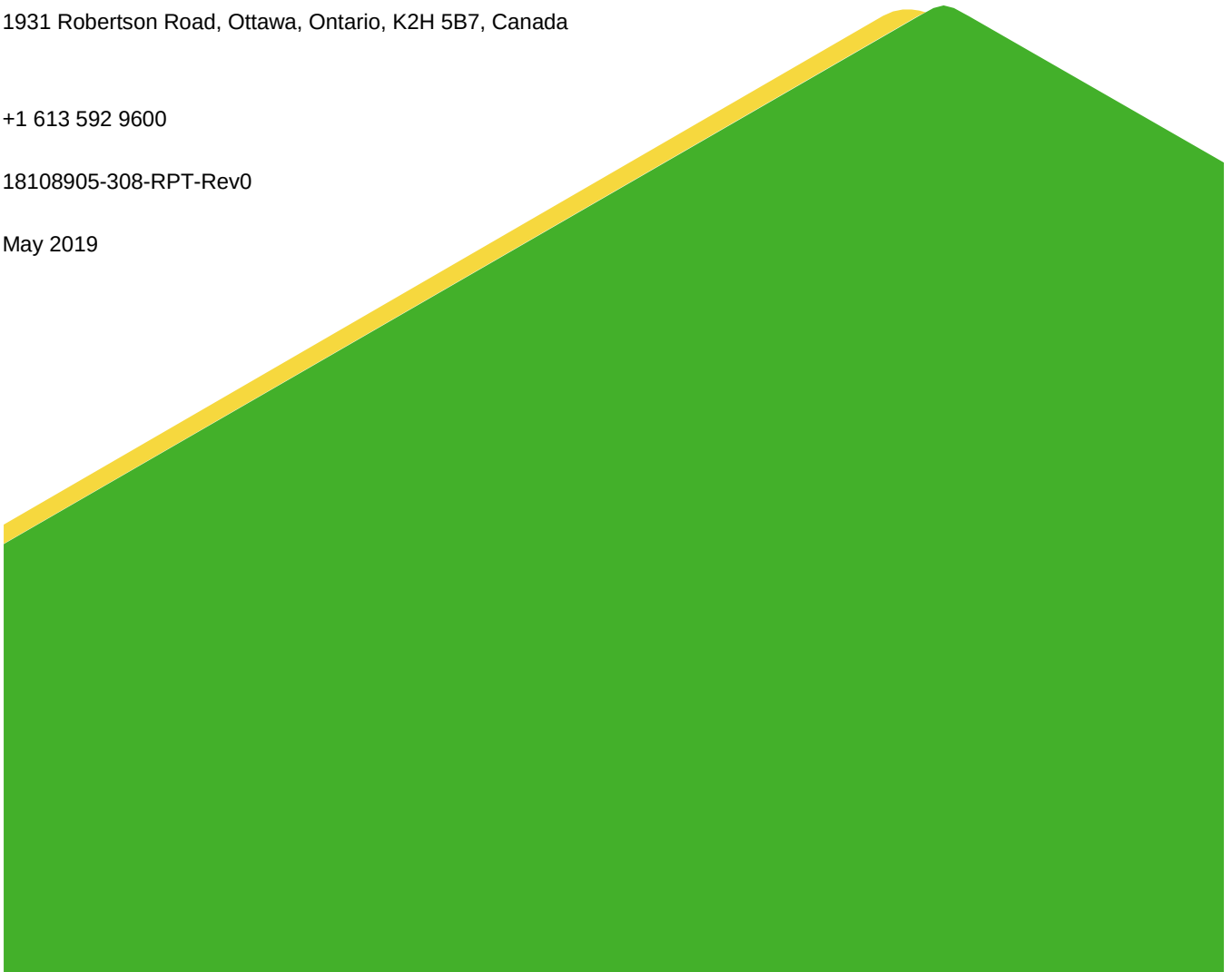
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Executive Summary

The Amaruq property is a 408 square kilometre (km²) site located on Inuit Owned Land approximately 150 kilometres (km) north of the hamlet of Baker Lake and approximately 50 km north of Meadowbank Mine in the Kivalliq Region of Nunavut. Agnico Eagle Mines Limited – Meadowbank Division (Agnico Eagle) is proposing an expansion to the Whale Tail Pit and Haul Road Project (Approved Project), a Meadowbank satellite deposit located on the Amaruq property. As an expansion to the Approved Project (Project Certificate No. 008 and Type A Water Licence 2AM-WTP1826) Agnico Eagle is proposing to expand and extend the Whale Tail Pit operations (the Expansion Project) to include a larger Whale Tail open pit, development of the IVR open pit, and underground operations while continuing to operate and process ore at the Meadowbank Mine.

Water quality predictions for the Approved Project were completed in 2016 to support the Environmental Assessment (EA) and Water Licence A Application for the Whale Tail Pit (Agnico Eagle 2016a), with revisions done in 2017 to support the regulatory process. Water quality predictions were also completed in 2016 to support the Water Licence B Application for the Whale Tail Underground Mine. Similar to the water quality predictions generated in 2016 and 2017 for the Approved Project, updated water quality predictions were generated in support of the EA for the Expansion Project, using the same modelling platform as the Approved Project, but informed by additional purpose-built and more detailed models to address issues raised during the EA of the Approved Project. The deeper Whale Tail Pit, the IVR Pit and the underground development along with their associated water and waste management infrastructures were added to reflect the Expansion. Finally, the site and downstream water quality model was updated to reflect further refinements based on updated site layouts, additional refinement to the hydrological WRSF modeling, updated management practices, and a refinement of geochemical inputs.

In 2018, Golder developed water quality predictions for the Expansion Project to support the FEIS Addendum (Golder 2018a). Since then, model inputs have been further refined to more accurately predict arsenic and phosphorus leaching to site waters. The refinements and modifications show a significant positive effect on water quality including a decrease in the arsenic and phosphorus loads to the receiving environment throughout mine life. This report presents updated results of water quality predictions associated with the Expansion Project.

The results presented herein stem from an iterative process of assessments which have lead ultimately to mine, waste and water management plans where effects are contained: all contact waters are collected and treated as necessary, discharges meet effluent water quality criteria defined in the Approved Project Water Licence and receiving water quality criteria are met thereby minimizing environmental impacts of the Extension Project.

Methods

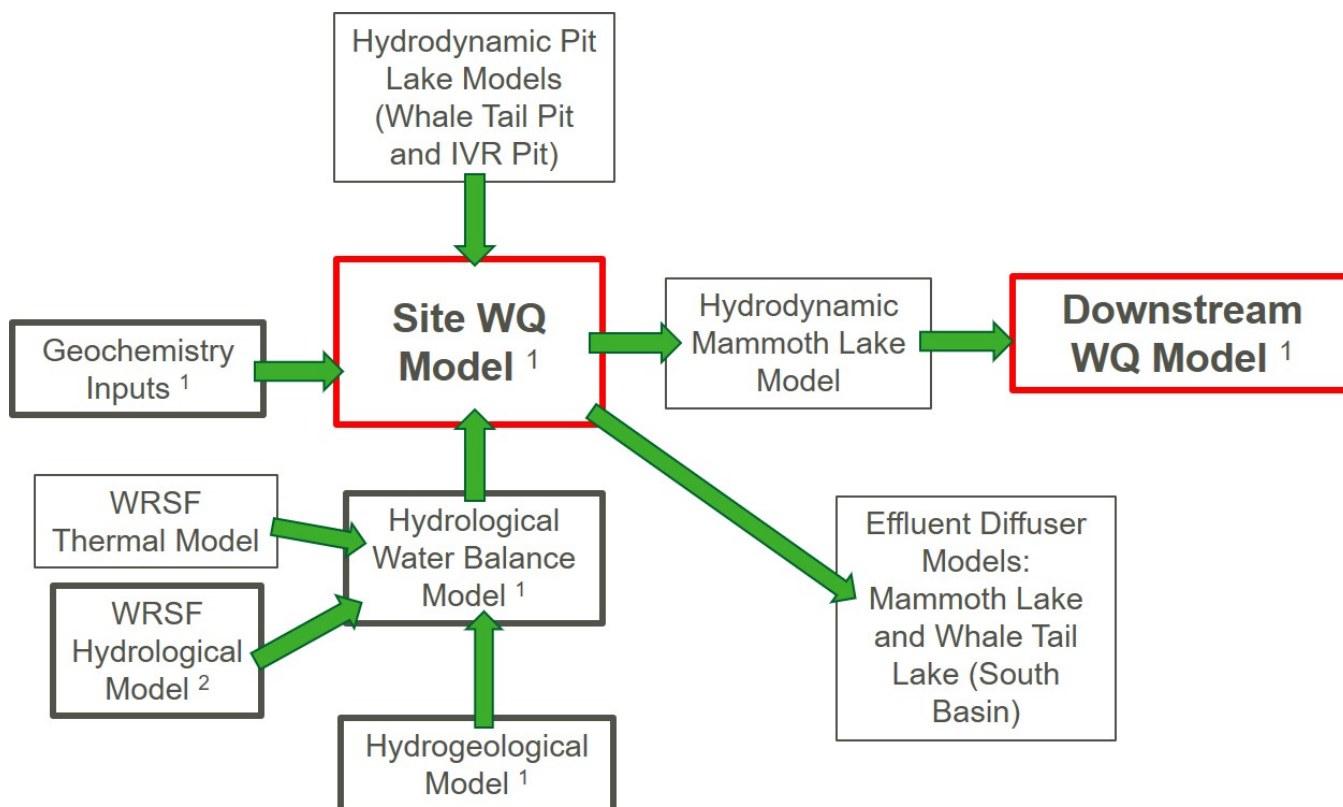
The GoldSim Mass balance model was used as the basis to evaluate site and downstream water quality. Results of the other modules that address specific components of water quality predictions in more detail fed inputs to the GoldSim Model (Figure 1). These include the following:

- Whale Tail-IVR flooded pit lake hydrodynamic model and Mammoth Lake hydrodynamic model to inform on anticipated mixing dynamics in these lakes;
- Hydrogeological model to inform on groundwater salinity and seepage flows into mine workings that are not in permafrost (the Whale Tail pit, the Whale Tail Attenuation Pond, and the Whale Tail underground mine) and to inform on the evolution of local permafrost as a result of mining;
- Thermal assessment of the Waste Rock Storage Facility (WRSF) active thaw depth assessment

- Hydrological model of the WRSF piles; and,
- Effluent diffuser model to inform on the extent of the mixing zone out of the effluent discharge during mining.

The results of these models are included in appendices and other documents; their results are discussed herein.

The GoldSim mass balance model was integrated with the water balance model for operations, closure, and post-closure, and was informed by the other models to simulate the hydrogeological inflows, submerged pit wall diffusion of arsenic and hydrogeochemical properties of the flooded pit lake and Mammoth Lake. The model and results are a representation of the anticipated conditions and future contact water quality, based on mine water and mine waste management plans for the Expansion Project.



Bold boxes highlight changes made to this model version
 1 – Models were updated for the current licence application
 2 – New model results included for refinement

Figure 1: Components of Modeling Package used for Water Quality Predictions for the Expansion Project

Direct inputs to the GoldSim model are based on geochemical laboratory studies and site groundwater monitoring data. Many of the geochemical assumptions are consistent with the model used for the Approved Project; updates were made to constituent leaching rates from new and on-going test work, to the active thaw depth, to WRSF pile hydrology and cover based on hydrological modelling; to lake flooding and post flooding water flows and mass transfer based on results of hydrodynamic modelling which indicate fully mixed conditions (i.e. no permanent chemical or thermal layering); to hydrogeological flows from updated conservative EA case flow modelling based on new hydrogeological information; and deep groundwater quality and salinity (from new groundwater hydrogeochemistry data).

The hydrodynamic pit lake models suggest twice-annual turnover; these processes are then mirrored in the GoldSim site water quality model. The hydrodynamic Mammoth Lake model suggests full mixing of effluent water within Mammoth Lake, which is mirrored in the GoldSim downstream water quality model.

This report provides a summary of water quality forecasts of the main mine components relevant to the water quality predictions, including: the Whale Tail Pit, the Whale Tail WRSF, the Whale Tail Attenuation Pond, IVR Pit, IVR WRSF, IVR Attenuation Pond, underground facilities and associated surface infrastructure, the Exploration Waste Rock Pad (includes the underground WRSF and underground ore stockpile), the two Groundwater Storage Ponds (GSP) to manage underground contact water at surface, the Water Treatment Plants, and temporary stockpiles of construction material and ore. The parameters and assumptions adopted in the mass balance model are presented. A summary of water quality model results is provided for the Whale Tail Pit sump, the Whale Tail and IVR WRSF Contact Water Collection Systems, the Whale Tail Attenuation Pond, the IVR Pit sump, the IVR Attenuation Pond, the GSPs, and final effluent water quality during operations. Downstream prediction nodes consist of the fully mixed Whale Tail Lake (South Basin), Mammoth Lake, Mammoth Outlet, and Downstream Nodes 1 and 2.

Closure and post-closure water quality predictions are summarized for the flooded Whale Tail Pit, the flooded IVR Pit, the flooded Attenuation Pond, the Whale Tail and IVR WRSF Contact Water Collection Systems, and downstream lakes (Mammoth Lake, Mammoth Outlet, Whale Tail Lake (South Basin), Downstream Node 1, and Downstream Node 2). Given the uncertainties associated with some of the assumptions used in scaling the inputs to site conditions and the natural daily variability of climate, the forecasting exercise provides order-of-magnitude estimates of anticipated average monthly contact water quality. Actual daily site water quality could differ from the average monthly forecast, so could average monthly values in a wetter or dryer season or if any changes occur in site planning.

Dissolved constituent concentrations were modelled for the effluent water quality at the point of discharge, on-site facilities, and the flooded Whale Tail Attenuation and flooded pits. The effect of suspended solids (TSS) on effluent water quality was estimated based on the contribution of 15 mg/L TSS in the effluent and on an assumed chemical composition of suspended solids particulate. Total concentrations are not carried downstream because TSS is not a modelled constituent. It is expected that TSS will settle out of the water column with distance from the point of effluent discharge and thus, only dissolved concentrations are carried downstream.

Site Water Quality – Operations

Site layout adjustments and model refinements show a positive effect on water quality, decreasing the arsenic and phosphorus loads in site contact water during operations. Contact water quality from all infrastructures are predicted to meet most Whale Tail Type A Water Licence effluent limits (NWB 2018), with the exception of dissolved arsenic, indicating that treatment is required to meet arsenic site effluent limits. Treatment of the discharge was modelled and carried into the receiving environment.

Underground Contact Water – Operations

The GSP system that manages saline waters from the underground operations is predicted to have elevated total dissolved solids (TDS), ammonia, phosphorus, arsenic, mercury, nickel, and zinc concentrations, indicating that treatment is required prior to discharge. TDS, mercury, phosphorus, and zinc are primarily a function of groundwater inflow quality, TDS is mainly due to brine addition to drilling fluid while mining is within permafrost. Natural groundwater encountered below the permafrost has comparatively low salinity (brackish water). Ammonia is a function of explosives management underground and is based on monitored results at the Meliadine underground mine. Elevated arsenic and nickel are a result of underground ore stockpile runoff. The concentrations of these constituents in the GSP-1 are further elevated by the addition of brine concentrate reject from the TDS Treatment Plant (S-WTP) (brackish). The

GSP-2 water is less charged, receiving only naturally brackish groundwater seepage into the underground mine. Water collected in the Underground contact water ponds will be treated through the S-WTP prior to discharge during operations. An additional GSP pond is planned for construction but was not included in the model. This additional pond will provide operational flexibility to manage underground mine contact water and water quality during mine life.

Downstream – Operations

Throughout operations, the receiving environment and downstream lakes are predicted to remain below the Canadian Environmental Quality Guidelines for Aquatic Life (CEQG-AL; CCME 2007) for all constituents. Maximum phosphorus concentrations in Mammoth Lake and Whale Tail Lake (South Basin) show a temporary rise above the upper end of the oligotrophic trigger range which decreases prior to mine closure. Downstream Nodes 1 and 2 remain below the phosphorus criteria throughout operations.

Closure

Closure is initiated at the end of mining, in January 2026. During closure, site water is captured and used to flood underground openings and open pits to 153.5 masl elevation, or one meter higher than baseline. Site contact water quality improves with the completion of the cover over WRSFs, flooding of the open pits, covering of the IVR pit high wall and backfilling of the underground contact water ponds and IVR Attenuation Pond with clean waste rock. Full flooding is predicted to occur in 2042. At that time, pit lake concentrations meet CEGQ-Aquatic Life (AL) water quality guidelines and concentrations are on a decreasing trend. Dikes remain in place until flooding is complete and the quality allows for re-establishment of the connection with South Basin, which is predicted to occur prior to the completion of flooding. Should water quality not be adequate at the time of completion of flooding, the Pit Lake water will be control-discharged to Mammoth Lake until the quality allows for re-establishment of the connection with South Basin and Mammoth Lake.

As there is no site contact water being discharged off-site during flooding, Mammoth Lake and downstream lakes' quality improves and trends towards baseline concentrations in that period. Phosphorus concentrations decrease to below the lower range of the oligotrophic trigger value within a few years after the start of closure. After full flooding, Whale Tail (North Basin) flows are discharged to Mammoth Lake. All constituents in Mammoth Lake remain below the CEGQ-AL, and the SSWQO for arsenic.

The reflooding strategy will be adapted during closure based on water quality predictions validated with site data. The objective will be for pit lake water to meet quality objectives concurrently with full flooding such that lake reconnection can happen as soon as possible thereafter.

Post-Closure

The post closure phase is initiated in 2042 when the Whale Tail Lake North Basin and South Basin are reconnected upon breaching of the Whale Tail dike and Mammoth Lake dike; water quality in the flooded pits is predicted to meet receiving water quality criteria prior to the underground and open pits being fully flooded. Berms will be left in place in perpetuity to maintain a surface water elevation of 153.5 masl.

In post-closure, the water quality in the flooded Pit Lake, Mammoth Lake and all downstream lakes are predicted to meet receiving water quality criteria and therefore no impacts are expected. The Whale Tail WRSF contact water quality is also predicted to meet all effluent site limits while the maximum predicted IVR WRSF contact water quality can be higher than the effluent site limit for arsenic on occasion within the mixing zone in Whale Tail Pit Lake.

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APPENDIX A

Geochemical Source Terms and Water Quality Inputs

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APPENDIX C

Site and Downstream Water Quality Model Results

APPENDIX D

Phosphorus Loading from WRSF Cover Material

List of Acronyms

AL	Aquatic Life
Agnico Eagle	Agnico Eagle Mines Limited – Meadowbank Division
APHA	American Public Health Association
Approved Project	Whale Tail Pit and Haul Road
ARD	Acid Rock Drainage
CCME	Canadian Council of Ministers of the Environment
CEQG	Canadian Environmental Quality Guidelines
EA	Environmental Assessment
EQC	Effluent Quality Criteria
Expansion Project	Whale Tail Pit – Expansion Project
FEIS	Final Environmental Impact Statement
Golder	Golder Associates Ltd.
GSP	Groundwater Storage Pond
HCT	Humidity Cell Test
ML	Metal Leaching
NML	Non-Metal Leaching
NPAG	Non-potentially Acid Generating
NWB	Nunavut Water Board
O-WTP	Operations Water Treatment Plant
PAG	Potentially Acid Generating
S-WTP	TDS Treatment Plant
SFE	Shake Flask Extraction
SSWQO	Site specific water quality objective
STP	Sewage Treatment Plant
TDS	Total Dissolved Solids
TSS	Total Suspended Solids
WRSF	Waste Rock Storage Facility
S-WTP	TDS Treatment Plant

List of Units

%	percent
°C	degrees Celsius
hr	hour
km	kilometre
km ²	square kilometre
masl	metres above sea level
m	metre
m ³ /hr	cubic metres per hour
m ³ /day	cubic metres per day
mg/L	milligrams per litre

1.0 INTRODUCTION

Agnico Eagle Mines Limited Meadowbank Division (Agnico Eagle) is proposing to develop an expansion to the Whale Tail Mine (the Approved Project), by deepening the Whale Tail Pit, and constructing and operating the IVR Pit and the Underground Mine (collectively referred to in this document as 'the Expansion Project'). Whale Tail and IVR are satellite deposits on the Amaruq exploration property, which is a 408-square kilometre (km²) site located on Inuit Owned Land approximately 150 kilometres (km) north of the hamlet of Baker Lake and approximately 50 km north of the Meadowbank Mine, in the Kivalliq region of Nunavut (Figure 2). The property was acquired by Agnico Eagle in April 2013 subject to a mineral exploration agreement with Nunavut Tunngavik Incorporated.

As an amendment to the existing operations at the Meadowbank Mine, the Expansion Project is subject to an Environmental Review established by Article 12, Part 5 of the Nunavut Agreement.

The Approved Project supports mining of ore from one open pit (i.e., Whale Tail Pit) and processed over a three to four-year mine life. The Expansion Project proposes mining additional ore from the expanded Whale Tail Pit, the IVR open pit and underground operations. A detailed Expansion Project description, and water management plan describing water management facilities examined herein can be found in the Expansion Project's Main Application Document and Supporting Documentation of the Water Licence Amendment (Agnico Eagle 2019a).

The Expansion Project will see the deposits being mined using conventional open pit and underground mining methods. Waste rock and overburden will be stored in three waste rock storage facilities (WRSFs): the Whale Tail WRSF, the IVR WRSF, and the Exploration Waste Rock Pad. All waste rock generated from the Underground Mine will be used as backfill underground (Figure 3). The ore will be processed at the existing mill in the Portage area of the Meadowbank Mine, and tailings will be deposited in the existing Meadowbank Mine tailings storage facility.

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LEGEND

- COMMUNITY
- HAUL ROAD
- ALL WEATHER ROAD
- WHALE TAIL PIT
- MEADOWBANK OPERATION AND INFRASTRUCTURE
- WATERCOURSE
- WATERBODY

KEY MAP

0 12 24
1:600,000 KILOMETRES

REFERENCE(S)

1. HAUL ROAD OBTAINED FROM AGNICO EAGLE MINES LIMITED.
2. WATERCOURSE AND WATERBODY DATA OBTAINED FROM CANVEC © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
3. INSET MAP DATA OBTAINED FROM ESRI.

DATUM: NAD 83 CSRS PROJECTION: UTM ZONE 14

CLIENT

AGNICO EAGLE

PROJECT

WHALE TAIL PIT - EXPANSION PROJECT

TITLE

PROJECT LOCATION

CONSULTANT	YYYY-MM-DD	2018-11-22
	DESIGNED	JR
	PREPARED	CDB
	REVIEWED	JR
	APPROVED	DF

PROJECT NO.	CONTROL	REV.	FIGURE
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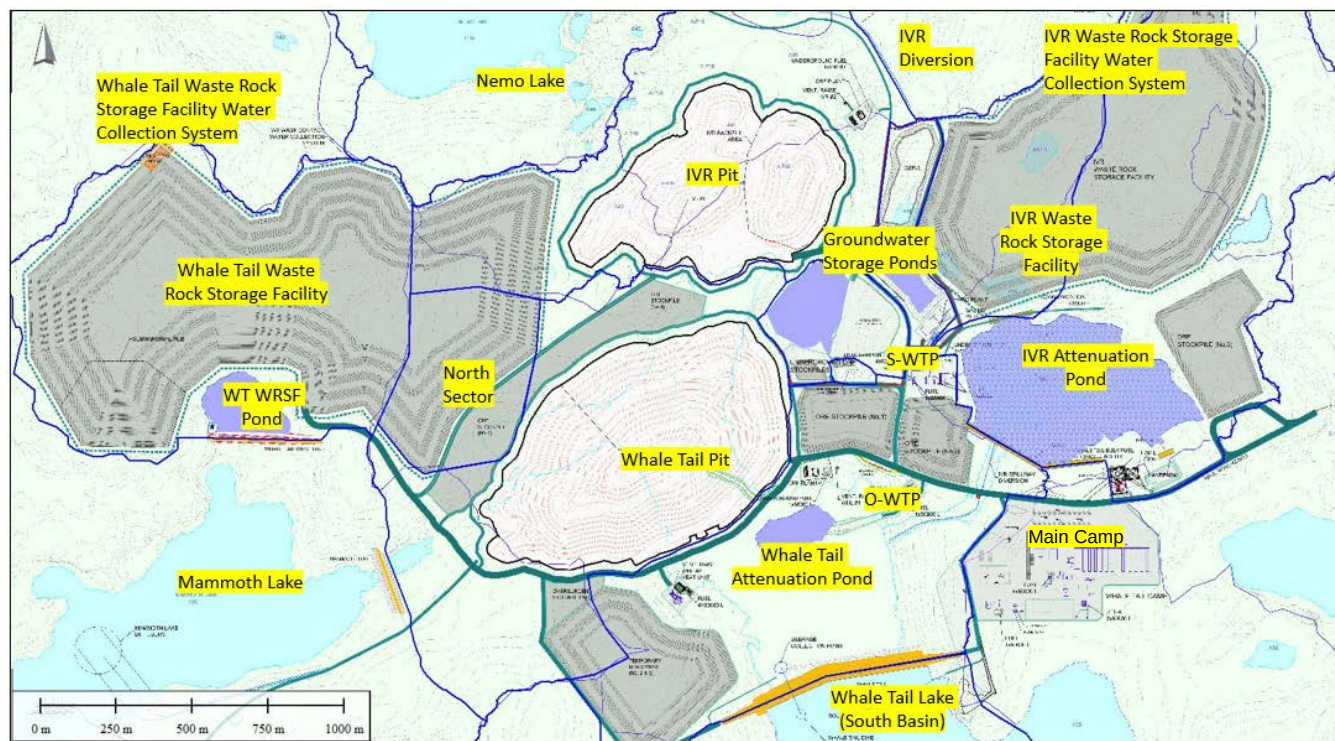


Figure 3: Site Layout, Final Mining Year 2025

Note: Prior to the dewatering of Whale Tail Lake (North Basin), Quarry 1 will be located within the footprint of Whale Tail Pit, on the east side. The Sewage Treatment Plant (STP) will be located within the Main Camp footprint.

Golder Associated Ltd. (Golder) was retained to forecast the probable quality of mine contact water to support Agnico Eagle in the design of waste rock and water management plans for the Expansion Project. The site and downstream water quality models were updated from the model used to support the Final Environmental Impact Statement (FEIS) for the Expansion Project.

Many geochemical assumptions have remained consistent with the model used for the Expansion Project. Updates were made to the site layout; chemical loading rates; water treatment limits for phosphorus; the hydrology of the WRSF piles and their cover; and hydrogeological flows based on updated modelling. These additional investigations were aimed at more accurately predicting the load of arsenic and phosphorus to site waters and increase understanding of potential water quality impacts to the receiving environment to support updates to water management planning to improve control on constituent release to the receiving environment.

The model was completed using GoldSim software. GoldSim is a graphical, object-oriented mathematical model where all input constituents and functions are defined by the user and are built as individual objects or elements linked together by mathematical expressions. The object-based nature of the model is designed to facilitate understanding of the various factors, which control an engineered or natural system and predict the future performance of the system. In GoldSim, each flow that could influence site discharge water quality for the Expansion Project was itemized and assigned a source term chemical profile based on geochemical testing of waste rock materials, observed mine site facility water quality at the Meadowbank and Meliadine Mine operations, and baseline surface water quality monitoring data. It incorporates predictions from the hydrogeological (groundwater) model, the pit lake hydrodynamic models, the receiving environment hydrodynamic model, the thermal WRSF model, and the hydrological WRSF models:

- Overall site and downstream water balance (Golder 2019a) and water quality model in GoldSim to forecast effluent water quality in operations and water quality of Whale Tail Lake (North Basin) in post-closure;
- Hydrogeological model (Golder 2019b) to project groundwater flows and water quality into the Whale Tail Attenuation Pond, Whale Tail Pit, and Underground Mine in operations, closure, and post closure;
- Thermal modelling of the Whale Tail WRSF to project the extent of the active layer (Golder 2019c);
- Hydrological modeling of the Whale Tail and IVR WRSFs to project runoff, basal seepage, and interflow volumes, flow interaction depths, and material with which the flows interact (Appendix E of Golder 2019a);
- Hydrodynamic pit lake models for Whale Tail and IVR Pits to project development of stratification and frequency of turnover events during and after flooding (Golder 2019e);
- Hydrodynamic model for Mammoth Lake (Golder 2019d) to project the extent of mixing within the lake in operations and post-closure; and,
- Effluent Diffuser models for Mammoth Lake and Whale Tail Lake (South Basin) to project the extent of the effluent plume in the receiving environment during operations (Golder 2019f).

On-site facilities that accumulate water (water management ponds, pits, and sumps) were treated as distinct reservoirs within the model. Inflow volumes and concentrations or mass loads were included as inputs to each reservoir to account for chemical loadings from natural areas, developed areas, waste rock runoff and seepage, pit wall rock runoff, and groundwater inflows, to project the chemistry of contact water quality from each of these mine facilities.

The water quality model was designed to estimate these chemistries as a monthly average concentration, from construction (2018 – 2019), through operations (2019 – 2026), closure (2026 – 2042), into post-closure (2042+). It tracks the chemistry of the following water quality constituent groups:

- Major ions: calcium, chloride, fluoride, magnesium, potassium, sodium, sulphate and total dissolved solids (TDS);
- Nutrients: nitrate, ammonium, and total phosphorus; and,
- Dissolved metals: mercury, silver, aluminum, arsenic, barium, beryllium, boron, bismuth, cadmium, cobalt, chromium, copper, iron, manganese, molybdenum, nickel, lead, antimony, selenium, strontium, tin, thallium, uranium, vanadium, and zinc.

Total dissolved solids was not modelled but is calculated externally using the predictions as per the American Public Health Association (APHA) (2005). Total concentrations are not modelled, but a particulate fraction for each constituent is calculated based on geochemical testing. This particulate fraction, which is calculated based on the effluent limit of 15 mg/L of total suspended solids (TSS), is added to the dissolved concentrations that are predicted to calculate total concentrations. Particulate fractions are discussed further in Section 4.4.

This report summarizes the site water quality model, its inputs, and relevant results, as follows:

- Section 2.0 provides a description of mine site components and mine operation procedures relevant to the water quality predictions;
- Section 3.0 provides a description of the input values, summarizes all assumptions made in the modelling process, and geochemical controls specified in the model;
- Section 4.0 provides a summary of the predicted mine contact water quality for select mine and downstream components during operations, closure, and post-closure; and,
- Section 5.0 provides a discussion on the predictions, including risks and opportunities.

2.0 MINE COMPONENTS RELEVANT TO WATER QUALITY PREDICTIONS

This section provides an overview of the water balance aspects relevant to the mine site water quality predictions.

For operations, the following infrastructure components are considered in the prediction of mine site water quality:

- Whale Tail Lake (North Basin) as it is dewatered to Whale Tail Lake (South Basin).
- Quarry 1, the collection point for surface contact water, mine contact water prior to Whale Tail North being dewatered. Quarry 1 becomes part of the Whale Tail Pit in 2019, when the Whale Tail Attenuation Pond becomes active.
- Whale Tail Pit sump, and the flooded Whale Tail Pit through closure and post-closure.
- Whale Tail WRSF, where waste rock and overburden stripped from the Whale Tail Pit will be permanently stored, and the Whale Tail WRSF Contact Water Collection System, which will collect a portion of contact water from the Whale Tail WRSF.
- A marginal ore pile, located within the footprint of the Whale Tail WRSF.
- IVR Pit sump, and the flooded IVR Pit through closure and post-closure.
- IVR WRSF, where waste rock and overburden stripped from the IVR Pit will be permanently stored, and the IVR WRSF Contact Water Collection System, which will collect the contact water from the IVR WRSF.
- North Sump, which diverts water from the Whale Tail Pit catchment area, including some runoff from the Whale Tail WRSF.

- A non-potentially acid generating / non-metal leaching (NPAG/NML) stockpile that will store material used for the progressive cover of the WRSFs.
- Temporary stockpiles of ore and construction waste rock and soil (esker material).
- Operations pads, including the camp area and roads.
- A landfarm for storage of soils that have potentially come into contact with hydrocarbons.
- Natural areas within the Project catchment, including the diversion of runoff from the Northeast Sector.
- Lake A53 as it is dewatered to Whale Tail Lake (South Basin).
- Whale Tail Attenuation Pond, the final collection point for all surface contact waters up to June 2022.
- IVR Attenuation Pond, the final collection point for all surface contact waters from June 2022 to end of 2025.
- Underground Mine sump.
- Groundwater Storage Pond (GSP) System consisting of three ponds:
 - One pond for the collection of highly saline underground contact water when mining through the permafrost using brine drill water and for S-WTP brine concentrate reject, herein referred to as GSP-1.
 - One pond for the collection of lower salinity naturally brackish groundwater from below the permafrost and overland runoff in the immediate area of the GSP, herein referred to as GSP-2.
 - The third contingency GSP to be added to the underground water management infrastructures has not been considered in the model but may be used to manage underground contact water during operation.
- Underground Storage Stope, an additional collection point for high salinity underground contact water.
- Exploration Waste Rock Pad (WRSF and ore stockpile), where initial waste rock from Quarry 1 and the Starter Pit, and all waste rock and ore from the underground will be stored (on surface) throughout mine life. The waste rock is progressively placed back underground such that there is no waste rock on surface at the start of closure.
- Water Treatment Plant for TSS and arsenic. The TSS unit of the water treatment plant (C-WTP) is commissioned during construction prior to addition of the arsenic treatment unit. Once the arsenic treatment unit is commissioned, both units form the Operations Water Treatment Plant (O-WTP), which was assumed to treat water in the summer at a maximum rate of 1600 m³/hr and discharges to Mammoth Lake in the first two years of operation, then to Whale Tail Lake (South Basin) for the rest of operations.
- TDS Treatment Plant (S-WTP) starting in summer 2022 for high TDS underground contact water.

For the purpose of the water quality assessment, the model assumes the following treatment units as part of the S-WTP:

- A lower salinity unit to treat water prior to discharge in the winters of 2020-2021 and 2021-2022, as well as low salinity water collected in the GSP-2 over the summer months starting in 2022. This unit is assumed to treat at a rate of 1000 m³/day and to discharge clean water (permeate) to Mammoth Lake and Whale Tail Lake (South Basin) and to produce a brine concentrate reject pumped to the GSP-1. This unit is referred to herein as S-WTP (brackish).

- A high salinity unit, starting in 2022, to treat highly saline water collected in the GSP-1. It is operated year-round at a rate of 60 to 90 m³/day and discharges permeate to Mammoth Lake and Whale Tail Lake (South Basin). A residual salt product is assumed to be produced and either used at site or shipped off site. This unit is referred to herein as S-WTP (brine).
- At the end of underground mining, any remaining water in the GSP system will be pumped underground for flooding.
- A sewage treatment plant (STP), which outputs effluent at a rate of 77.8 m³/day in operations until the end of 2020 and then 192 m³/day for the remainder of operations, and 12 m³/day in closure.
- Whale Tail Lake (South Basin) (i.e., Lake A17 South or the portion of Whale Tail Lake located south of the dike).
- Mammoth Lake (Lake A16).
- Mammoth Lake Outlet.
- Two downstream locations that represent inflows to Lake DS1 (i.e., prior to entering Lake DS1), which will be the final monitoring points for downstream water quality (Downstream Nodes 1 and 2).

Collection ditches, dams, pipes, and the flooded underground mine are not considered in the water quality model.

2.1 Water Balance Elements

The operational, closure, and post-closure mine site water balance for the Expansion Project was completed and documented in the Water Balance Report (Golder 2019a). It provides monthly average flow volumes from each infrastructure component using average precipitation year climate data. Water management on site during operations and the closure plan was provided by Agnico Eagle. All stage-storage curves and watershed areas were extracted from annual-based CAD files provided by Agnico Eagle. All water treatment rates and performance were also provided by Agnico Eagle.

Water management on site is achieved through a number of holding facilities and can be generally separated into surface contact water flows, which are managed through Quarry 1, the Whale Tail Attenuation Pond and the IVR Attenuation Pond, and underground contact water (saline) flows from the Underground Mine, which are managed through an Underground Storage Stope, and the GSPs. Saline flows are managed separately from surface contact water, and highly saline waters (brines) are managed separately from the moderately saline (brackish) waters. The brine, brackish, and surface contact waters require different treatment units which differ in the TDS concentration at which they optimally function. Mixing of these waters could reduce their respective treatment efficiencies.

Surface contact water flows include:

- Natural runoff
- Runoff from constructed pads
- Runoff from construction material stockpiles and ore stockpiles
- Pit wall runoff
- Groundwater inflows to the Whale Tail Pit and to the Whale Tail Attenuation Pond
- Runoff from the Whale Tail and IVR WRSFs

- Camp use water
- Lake dewatering flows (i.e., Whale Tail Lake [North Basin] and Lake A53)

Saline contact water flows originating from the Underground Mine include:

- Groundwater affected by brined drilling fluids used when mining in permafrost and S-WTP brine reject
- Lower salinity (brackish) sub-permafrost groundwater inflows

Water Treatment Plants

Surface contact water flows are captured and treated through the O-WTP in the open water season (June through September), and through the S-WTP (brackish) in October 2020 through May 2021, and October 2021 through April 2022. These treated flows are discharged to Mammoth Lake until May 2021, and Whale Tail Lake (South Basin) starting in June 2021 through the end of operations.

High salinity (brine) and low salinity (brackish water) flows from the Underground Mine are collected and, beginning in 2022, are treated through the S-WTP. The S-WTP (brackish) unit is used to concentrate brackish water. The S-WTP (brine) units are used to further concentrate the brine into a salt, resulting in a permeate (discharged) and salt solid that is shipped off-site. From April 2022 through December 2025, the S-WTP (brine) is intended to operate year-round, while the S-WTP (brackish) operates from June through September.

2.1.1 Changes to FEIS Addendum

The following updates were made to the site water balance model and have an effect on water quality predictions. Further details can be found in Golder (2019a):

- WRSF runoff and seepage flows: These flows were updated (Appendix E of Golder 2019a). Basal seepage from the WRSFs was determined to be negligible and was therefore not included in the updates. Runoff from the WRSFs is predicted to be approximately 5% of the annual precipitation. The remaining precipitation is either lost to evaporative processes or infiltrates the piles. The water that infiltrates will percolate vertically through the WRSFs and will become locked in the frozen core. There is a negligible amount of seepage. Less than 1% of precipitation is expected to report as interflow, which is infiltrated water that flows laterally within the cover system. The interflow is not expected to interact with the PAG and metal leaching material.
- Hydrogeological inflows: Hydrogeological inflows to Whale Tail Lake (North Basin)/Whale Tail Attenuation Pond, Whale Tail Pit, IVR Pit, and the underground facilities were updated following updated hydrogeological model predictions during operations, closure, and post-closure (Golder 2019b).
- Watershed delineations: Watershed delineations used to calculate runoff volumes were updated to align with detailed design assessments.
- Updated STP effluent flow rates: STP flow rates were updated to represent an increased camp size for the Expansion Project, starting in January 2021 until the end of operations (192 m³/day). Flow rates until January 2021 and during closure remain unchanged from the Approved Project.

Table 1 summarizes the assumptions made in the site and downstream water quality model that are related to the water balance.

Table 1: General Water Balance Assumptions Pertinent to the Water Quality Model

Property	Assumption	Operations (2018 - 2025)	Closure (2026 - 2041) ¹	Post- Closure (≥2042)
On-Site Assumptions:				
Whale Tail and IVR WRSF	5% of annual precipitation on the piles reports as runoff. Basal seepage volumes occur only at the beginning of operations and were considered to be negligible. Interflow was predicted to occur after 80 years from pile initiation.	X	X	X
Whale Tail and IVR WRSF Contact Water Collection Systems	A flow-through system (i.e., no accumulation of volume) through operations and closure.	X	X	
Whale Tail Attenuation Pond	Water is allowed to accumulate in the pond when inflows are greater than the rate of pumping to the WTPs.	X		
	Receives groundwater inflows but also contains an outflow to the groundwater regime, ultimately contributing to the groundwater inflows to the Whale Tail Pit.	X	X	X
IVR Attenuation Pond	Receives surface contact water and is treated through the O-WTP.	X		
	Emptied into the underground facilities and is subsequently backfilled NPAG/NML waste rock so that it has no containment volume. Catchment runoff flows by gravity to Whale Tail Attenuation Pond / Whale Tail Lake (North Basin). (Current ongoing modeling of A53 suggests that the hydrological updates to the WRSF piles improves water quality in A53 in post-closure, and the necessity of backfilling will be evaluated based on observed water quality.)		X	X
Whale Tail Pit groundwater inflows and outflows	Groundwater inflows and outflows are determined through hydrogeological modeling. Modeling shows that freeze back of the pit walls may occur towards the end of mine life but will thaw once the Whale Tail Pit is flooded. Once flooded, the pit lake becomes a weak groundwater recharge point (Golder 2019b)	X	X	X
Hydrological reconnection of Whale Tail Lake with Mammoth Lake	The pit lake is flooded when it reaches a water surface elevation of 153.5 masl. At this point, the dikes that separate 1) Mammoth Lake and Whale Tail Lake (North Basin), and 2) Whale Tail Lake (North Basin) and Whale Tail Lake (South Basin) can be breached pending adequate water quality.			X
Whale Tail Pit and IVR Pit wall runoff	Volumes calculated using the precipitation over the progressive footprint of the pit, minus the area of the water surface in the pit sump or flooded pit	X	X	X
IVR Pit groundwater inflows	None, as pit is located entirely within permafrost.	X	X	X
Treatment efficiency of lower salinity S-WTP (brackish)	85% of inflow rate will be permeate, 15% of the inflow rate will be brine pumped to GSP-1.	X		
Underground Facilities:				
Underground recirculation rate of sump water	100% recirculation rate. Water consumed through water content (3%) of rock moved to surface. Make up water taken initially from Nemo Lake when there is no volume in the GSP-1, and from the GSP-1 when water is available.	X		
Underground facility groundwater inflows and outflows	Groundwater inflows and outflows are determined through hydrogeological modeling (EA Case). The underground facilities and the Whale Tail Pit are assumed to not be connected through groundwater flows (Addendum Volume 6, Appendix 6-B).	X	X	X
Underground Storage Stope	Volume of 10,000 m ³ .	X		

Table 1: General Water Balance Assumptions Pertinent to the Water Quality Model

Property	Assumption	Operations (2018 - 2025)	Closure (2026 - 2041) ¹	Post- Closure (≥2042)
GSPs Runoff	Land runoff over catchment area of Pond.	X		
GSPs Capacity	The total capacity of the three ponds will be at least 510,000 m ³ or more. A 200,000 m ³ capacity is needed to accommodate moderately saline (brackish) inflows and a 310,000 m ³ capacity is needed to accommodate brine inflows to GSP-1. The third GSP could bring additional capacity to collect brackish and/or brine water.	X		
GSPs Closure and Post-closure	Remaining content of all GSPs pumped into the underground facilities at closure and is subsequently backfilled with NPAG/NML waste rock so that it has no containment volume. Catchment runoff flows by gravity ultimately to the Whale Tail Pit/North Basin.		X	X
Water Treatment Plants:				
STP Membrane bioreactor Sewage Treatment Plant	The membrane bioreactor outflow is pumped to either the Whale Tail Attenuation Pond or IVR Attenuation Pond until Whale Tail Lake (North Basin) has filled, after which the camp is closed, and grey water is no longer produced nor discharged.	X	X	
C-WTP	TSS unit of the WTP is active as of May 2019	X		
O-WTP Commissioning and operation	Arsenic treatment unit of the WTP is active as of June 2019. WTP is active in June through September. No recirculation from the water treatment plant back into the Attenuation Ponds is considered.	X		
O-WTP flow rates	Treatment flow rates provided by Agnico Eagle as a maximum of 1600 m ³ /hr.	X		
S-WTP (brackish)	Active as of October 2020 to treat the Whale Tail Attenuation Pond over the winter months until the unit is required to treat water collected in the GSP-2 in 2022. Can accommodate 1000 m ³ /day inflow, and permeate (treated water) is discharged, while brine is stored in the GSP-1. Water volume efficiency rate is 85% (Agnico Eagle), based on inflow TDS and pond volumes modelled	X		
S-WTP (brackish) Treatment volume	85% of inflow rate will be permeate, 15% of the inflow rate will be a brine concentrate reject.	X		
S-WTP (brine) and treated volume	Active year-round as of April 2022 at 60 m ³ /day, up to 90 m ³ /day in January 2023. (Agnico Eagle), based on inflow TDS and pond volumes modelled.	X		
Final Effluent Discharge	Flows through the O-WTP are combined with permeate from the S-WTP (when active) and discharged to Mammoth Lake or Whale Tail (South Basin).	X		

Table 1: General Water Balance Assumptions Pertinent to the Water Quality Model

Property	Assumption	Operations (2018 - 2025)	Closure (2026 - 2041) ¹	Post- Closure (≥2042)
Receiving and Downstream Environment Assumptions:				
Ice formation	Does not induce significant cryo-centration of water quality under the ice where lake water has low TDS	X	X	X
Whale Tail Lake (South Basin)	Starting in January 2020, it receives water pumped over the Whale Tail Dike from the Whale Tail Dike Well sump, which collects shallow groundwater and seepage through base of the dike. Receives site effluent from June 2021 through the end of operations. Assumed to be instantly mixed; hydrodynamic modelling predictions showed Mammoth Lake will be fully mixed and it was assumed that Whale Tail Lake (South Basin) would have similar mixing dynamics.	X	X	X
Mammoth Lake	Receives site effluent until end of May 2021. Assumed to be instantly mixed as modelled (Golder 2019d).	X	X	X
Mammoth Lake Outlet	Represents the outflow of Mammoth Lake that routinely is hydrologically disconnected from the main body of the lake. Volume in main body of Mammoth Lake and catchment area adjusted to account for this outflow as a separate water body. This is to remain consistent with the plume mixing model which does not include this outlet volume.	X	X	X
Downstream lakes	Each individual lake receives inflow from its immediate catchment and from all upstream lakes.	X	X	X
	Water volumes are instantaneously mixed and do not account for the time it takes for mass to be dispersed throughout the water.	X	X	X

Notes:

¹ End of closure will be defined by the water level in the flooded Whale Tail Lake (North Basin) reaching 153.5 masl and water quality in Whale Tail Pit Lake meeting receiving water quality objectives. Post-closure will be initiated, and the Whale Tail and Mammoth dikes will be decommissioned.

WRSF = waste rock storage facility; WTP = water treatment plant; NPAG/NML = Non-potentially acid generating/Non-metal leaching; m = meter; masl = meters above sea level; m³/hr = meters cubed per hour % = percent.; GSP-1 = high salinity water storage pond; GSP-2 = low salinity water storage pond; TSS = total suspended solids; TDS = total dissolved solids

2.2 Water Management Infrastructure

Site facilities in the Expansion Project include five water management ponds, three WRSFs, two pits, an underground mine, several ore stockpiles, a construction material stockpile, and developed and natural areas.

2.2.1 Mine Operation Period

2.2.1.1 Waste Rock Storage Facilities and Waste Rock Storage Facility Ponds

Waste rock generated by mining and stripped overburden will be stored in three surface waste rock storage facilities on site: the Whale Tail WRSF to the west of the Whale Tail Pit, the IVR WRSF to the east of the IVR Pit, and the Exploration Waste Rock Pad. Throughout operations, the Whale Tail and IVR WRSFs will be progressively covered with NPAG/NML waste rock to a depth of 4.7 meters (Golder 2018e), so that the active thaw depth is entirely within NPAG/NML waste rock at closure. The waste rock placed in the Exploration Waste Rock Pad will not be covered because the material will be returned underground prior to closure.

Initial waste rock from Quarry 1 and the Starter Pit (which later combine to form Whale Tail Pit) will be transported to the Exploration Waste Rock Pad until Licence A is received, after which point all waste rock from the Whale Tail Pit will be stored in the Whale Tail WRSF. An area dedicated to marginal ore will be included in the Whale Tail WRSF footprint.

The ultimate footprint of the Whale Tail WRSF will span three catchment areas, and runoff from the Whale Tail WRSF will therefore report to the Whale Tail WRSF Contact Water Collection System, the North Channel Collection area, and the IVR Pit.

IVR Pit waste rock will be stored in the IVR WRSF, east of the IVR Pit and adjacent to Lake A53 (later used as the IVR Attenuation Pond). The Contact Water Collection System surrounding the IVR WRSF will direct runoff towards a primary collection sump. This water will be pumped to the Whale Tail Attenuation Pond from 2019 to 2021, and to the IVR Attenuation Pond when it is available (June 2022).

During operations, the Whale Tail and IVR WRSF Contact Water Collection Systems and the North Channel Collection area will receive runoff from WRSFs within their catchment areas, natural runoff from the surrounding area, and direct precipitation. These facilities are assumed to be kept as empty as possible and act as flow through points rather than reservoirs that could offer any substantial residence time.

All underground ore, and a portion of underground waste will be stored on the Exploration Waste Rock Pad throughout operations (the remaining waste rock will be kept underground). The Exploration Waste Rock Pad does not have a sump pond but flows by gravity to GSP-1. Starting in 2023, the waste rock stored in the Exploration Waste Rock Pad will be placed underground. For the remainder of operations and in closure, the Exploration Waste Rock Pad footprint is considered to be a developed area. It is assumed to return to a natural area in post-closure.

An NPAG/NML waste rock stock pile will be located adjacent to the Whale Tail Attenuation Pond and the Whale Tail Pit. Runoff from these piles will flow by gravity to both the Whale Tail Attenuation Pond and the Whale Tail Pit during operations. The NPAG/NML waste rock will be used for closure activities and in the water quality model it is assumed that the piles will be entirely consumed by the start of closure.

2.2.1.2 Quarry 1, Starter Pit, Whale Tail Pit, and IVR Pit

Whale Tail Pit begins with the operation of Quarry 1 and Starter Pit, in late 2017 and July 2018, respectively. Both these facilities collect natural runoff, pit wall runoff, and drilling water. Quarry 1 is used to hold water on site prior to the arsenic treatment plant being available (June 2019), and therefore also collects direct precipitation on the pond surface, site surface contact water (from developed areas, stockpiles), water pumped from the Whale Tail WRSF Contact Water Collection System, and water from the Starter Pit sump. Quarry 1 is dewatered through the O-WTP when the O-WTP becomes available and combines with the Starter Pit to form Whale Tail Pit when Whale Tail Lake (North Basin) is dewatered.

The Whale Tail Pit receives natural runoff from its catchment area, pit wall runoff, direct precipitation on the pit sump pond, groundwater inflows, and drilling water year-round. A stockpile of clean esker material for construction use will also be present within the catchment area of the Whale Tail Pit. Pit wall runoff contacts rock on the pit benches and in a portion of the pit bottom that is not submerged by the Whale Tail Pit sump pond. Incoming groundwater inflows are a combination of shallow groundwater below the lakebed, seepage from the Whale Tail Attenuation Pond through the bedrock, and seepage from Whale Tail Lake (South Basin).

IVR Pit is initiated in July of 2020. It receives natural runoff from its catchment area, pit wall runoff, drilling water inflows, direct precipitation, and runoff from a portion of the Whale Tail WRSF that lies within its catchment area. As it lies entirely within permafrost, it does not collect any groundwater inflows. Water collected in the Whale Tail

and IVR Pit sumps is pumped to the Whale Tail Attenuation Pond until June 2022, when the IVR Attenuation Pond is available for water management.

2.2.1.3 Whale Tail and IVR Attenuation Ponds

Once Whale Tail Lake (North Basin) is dewatered, the Whale Tail Attenuation Pond collects natural runoff from its catchment area, all site water runoff (developed areas runoff, NPAG/NML stockpile, and ore stockpile runoff), water pumped from the Whale Tail and IVR WRSF Contact Water Collection Systems, water pumped from the Whale Tail and IVR Pits, from the membrane bioreactor sewage treatment plant (camp use), the truck shop water, and groundwater flows.

Ore will be stockpiled within the catchment area of the Whale Tail Attenuation Pond and IVR Attenuation Pond prior to hauling and processing at the Meadowbank Mine plant. The tailings resulting from processing will be discharged to the Meadowbank Mine tailings storage facility and are not considered in this model. All stockpiles and pads are assumed to produce contact water runoff in freshet and the summer months only.

Water in the Whale Tail Attenuation Pond is treated through the O-WTP in the summer, and through the S-WTP (brackish) in the winters of 2020-2021 and 2021-2022. In the winter of 2019-2020, any water that cannot be held in the Whale Tail Attenuation Pond is pumped to the GSP-1.

The IVR Attenuation Pond becomes active as a contact water management pond as of June 2022; prior to that it collects runoff from within its catchment area, which includes the landfarm and natural runoff. At this point, all flows that were previously collected in the Whale Tail Attenuation Pond are directed to the IVR Attenuation Pond. The Whale Tail Attenuation Pond continues to collect groundwater and runoff from its catchment area, which includes the natural and developed areas, ore stockpiles, and the NPAG/NML stockpile. This collected water is then pumped from the Whale Tail Attenuation Pond to the IVR Attenuation Pond. The IVR Attenuation Pond does not receive any direct groundwater inflows.

Whale Tail South Dike seepage collection point gathers water which is primarily lake water from Whale Tail Lake (South Basin) but is assumed to interact with blasting residue in the collection ditch. A sump pumps this water back over the dike into Whale Tail Lake (South Basin).

2.2.1.4 Underground Facilities and the Groundwater Storage Pond System

A GSP system is designed to capture saline contact waters from underground. Three GSPs and an underground sump are planned to provide operational flexibility and adaptive management opportunity. The first GSP will be used to store high salinity water from early mining operations through the permafrost, a second GSP will be used to store low salinity water and a third GSP will be for contingency.

Underground Sump

The underground ramp and GSP-1 were active as of 2018. The underground ramp receives ramp runoff, disturbed and natural catchment runoff, and groundwater inflows. Water that flows into the underground sump is recirculated for underground operations at an efficiency rate of 100%, and is supplemented with water from the GSP when required. The sump acts as a flow-through system and does not have any capacity for holding water. There is a loss of water to the pore spaces of the waste rock being transported to surface (at 3% water content), and any excess water is collected in various water management facilities, namely an underground storage stope and the GSP.

Due to initial underground development occurring within permafrost, it is expected that drilling fluids will need to be brined. As such, water in the Underground Sump is assumed to contain approximately 200,000 mg/L TDS, consistent with brine concentrations used at Meliadine underground operations. Drilling fluids will be brined until

development reaches a level of -275 masl, and all excess high salinity water in the Underground Sump is directed first to an underground storage stope, and then to the GSP-1 once the underground storage stope is full. At the point that underground development reaches below the level -275 masl, it is assumed that the drilling fluid no longer needs to be brined and groundwater flows are sufficient to supply the underground operations without the need for makeup water. It is assumed that for one month following the milestone of development reaching level -275 masl, excess water will continue to be pumped to the GSP-1 to allow the recirculation system to flush the high salinity water. Following this, any excess of the brackish water within the underground sump is directed to the GSP-2 for the remainder of operations.

GSP-1

The GSP-1 collects runoff from the Underground WRSF, natural runoff from the catchment area, direct precipitation, and excess highly saline water from the underground sump. In the winter of 2019-2020, it is used to collect excess water from the Whale Tail Attenuation Pond; this water is treated through the TSS/Arsenic treatment plant in June 2020. Any makeup water needed for underground operations is sourced from the GSP-1.

Starting in October 2020, this pond begins collecting brine concentrate reject from the S-WTP (brackish). This brine is treated through S-WTP (brine) starting in April 2022, active year-round. The S-WTP (brine) produces a clean permeate (Table 2) discharged through the effluent and a solids salt which is shipped off site.

GSP-2

Starting in May 2022, one month after the assumed date that underground development reaches a level of -275 masl, excess moderately saline water from the underground sump is directed to the GSP-2. This pond also receives natural catchment runoff and direct precipitation. Water collected in the GSP-2 is treated through the S-WTP (brackish) in the summer months from June 2022 through September 2025.

2.3 Water Treatment Plants

To manage and treat water on site, several water treatment plants are required:

- Construction treatment plant (C-WTP)
- Operation treatment plant (O-WTP)
- TDS treatment plant (S-WTP)
- One sewage treatment plant (STP)

The final site effluent is a combination of water treated through the O-WTP effluent, and S-WTP permeate and the untreated dewatering flow from Lake A53. The effluent is discharged to Mammoth Lake until June 2021, then to Whale Tail Lake (South Basin); however, the water treated for TSS during the dewatering of Whale Tail Lake (North Basin) in May 2019 is discharged to Whale Tail Lake (South Basin).

All treatment plants, with the exception of the sewage treatment plant, will be decommissioned at the time of closure and will not continue treating into the closure period. The sewage treatment plant will continue operating throughout closure to support a minimal number of staff involved in closure activities, but will cease operation post-closure. The model conservatively assumes that 50 people will remain on site for closure activities until 2042; in reality, it is expected that this number be much lower.

Construction Treatment Plant (C-WTP)

The C-WTP consists of one unit that treats for TSS to 15 mg/L. The C-WTP is assumed to be active as of the beginning of May 2018, to treat contact water during Whale Tail Dike construction and to treat the last 34% of dewatering from Whale Tail Lake (North Basin), which is discharged to Whale Tail Lake (North Basin).

Operation Water Treatment Plant (O-WTP)

The O-WTP consists of one unit that treats for TSS to 15 mg/L. Another unit will be used to treat arsenic to 0.1 mg/L and phosphorus to 0.05 mg/L. The arsenic and phosphorus water treatment unit is added to the TSS unit of the C-WTP and is active as of June 2019. Subsequently, the O-WTP treat flows from Quarry 1 dewatering, Whale Tail Attenuation Pond, GSP-1 (June 2020), dewatering of the North East (June through September 2020), the final 34% of dewatering volumes of Lake A53 (which becomes the IVR Attenuation Pond), and the IVR Attenuation Pond (June 2022 through December 2025). All flows entering the treatment go through the O-WTP.

NIRB-approved site effluent criteria (NWB 2018) are used as reference limits for treated effluent. Water treated through the O-WTP was carried into the receiving environment at the minimum of the modelled arsenic concentration, or the maximum monthly mean limit (0.1 mg/L) and minimum of the modelled phosphorus concentration or the maximum treated level of 0.05 mg/L. In closure and post-closure, it is assumed that the O-WTP is decommissioned and that water on site is no longer treated.

TDS Water Treatment Plant (S-WTP)

The S-WTP will include one low salinity treatment unit (S-WTP [brackish]) and a high salinity treatment unit (S-WTP [brine]).

S-WTP (brackish)

This unit is assumed to be commissioned and active as of October 2020, at which point it will be used to treat contact water from the Whale Tail Attenuation Pond during winter months (from October to April) from 2020 to 2022.

In June 2022, this unit will be used to treat low salinity water that is stored in the GSP-2. The unit is assumed to be active only during summer months (from June to September inclusively).

S-WTP (brackish) unit is modelled to have an average water separation efficiency of 85% (i.e., 85% of the volume of effluent will be in the form of permeate, while 15% of the volume will be in the form of concentrated brine reject), and a mass removal efficiency rate of 96.5% (Agnico Eagle 2018c). The efficiency rates are dependent on inflow volumes and TDS concentrations predicted by the GoldSim model. Golder understands from Agnico Eagle that optimal mass removal efficiency rates occur when TDS concentrations are less than approximately 10,000 to 12,000 mg/L. Higher TDS concentrations in the influent will result in a sub-optimal mass removal efficiency rate, which will produce higher TDS concentrations in permeate. The permeate will be combined with the O-WTP effluent for discharge from site. The brine reject produced from the S-WTP (brackish) unit will be stored in the GSP-1.

The S-WTP (brackish) unit will be decommissioned at closure and all saline waters stored at surface will be pumped to the Underground Mine for flooding.

S-WTP (brine)

The S-WTP (brine) unit will treat high salinity water (brine) stored in the GSP-1. Starting in April 2022, the unit will treat up to 60 m³/day year-round. The treatment rate will be increased to 90 m³/day starting in January 2023. The salt solid produced from treatment will be either used at site and/or shipped off site, and the permeate will be combined with O-WTP effluent for discharge from site.

The S-WTP (brine) unit will be decommissioned at closure and all saline waters stored at surface will be pumped to the Underground Mine for flooding.

Table 2 shows the expected treatment levels by the S-WTP (brine) unit, according to pilot tests done by Agnico Eagle on Meliadine mine water. The S-WTP (brine) outflow quality is expected to be of similar water quality and assuming similar treatment efficiencies.

Table 2: Model input for S-WTP (brine) Treated Effluent (Permeate) Discharge Composition

Constituent	Treatment Level (mg/L)	Constituent	Treatment Level (mg/L)
Total Dissolved Solids	55	Manganese	<0.001
Alkalinity (as CaCO ₃)	56	Mercury	<0.00001
Aluminum	0.1	Molybdenum	0.0001
Ammonia (as N)	2.05	Nickel	<0.0005
Antimony	<0.0005	Nitrate (as N)	0.281
Arsenic	<0.0001	Phosphorus	<0.05
Barium	0.0013	Potassium	0.1
Beryllium	<0.00005	Selenium	<0.0005
Boron	0.065	Silicon	0.2
Cadmium	<0.00001	Silver	<0.0002
Calcium	0.5	Sodium	25.4
Chloride	5.7	Strontium	0.0254
Chromium	<0.0005	Sulphate	1.3
Cobalt	<0.00005	Thallium	<0.00002
Copper	0.0137	Tin	0.00008
Fluoride	<0.02	Titanium	<0.001
Iron	<0.01	Uranium	<0.00001
Lead	0.00006	Vanadium	<0.001
Lithium	0.0014	Zinc	<0.005
Magnesium	0.1		

Sewage Treatment Plant (STP)

The camp sewage flow is assumed to be treated through a membrane bioreactor with advanced nutrient removal. Phosphorus is assumed to be treated to 0.5 mg/L and nitrate is assumed to be treated to 5 mg/L-N (NWB 2018). Treated effluent from the STP is discharged to the Whale Tail Attenuation Pond until June 2022, at which point it is discharged to the IVR Attenuation Pond.

The STP is currently active and is assumed to remain on site through closure at a reduced rate to accommodate a minimum number of people required on site to complete the closure activities. The model assumes 50 people will remain on-site until post-closure begins; however, this number is likely to be smaller.

Table 3: Constituent Treatment Levels in the Sewage Treatment Plant

Constituent	Units	Treatment Levels
Phosphorus	mg/L	0.5
Nitrate	mg/L-N	5

2.4 Closure

Mining is expected to cease at the end of 2025 and closure activities will commence. Closure activities will occur until both the following conditions are met: 1) full flooding of the Whale Tail and IVR Pits and the Whale Tail Attenuation Pond achieve 153.5 masl and 2) the flooded pit water quality meets objectives to be set at that time.

Closure activities include:

- Decommissioning of site facilities (with the exception of part of the camp infrastructure, Mammoth dike and Whale Tail dike);
- Removal of temporary stockpiles (ore and construction materials);
- Complete the WRSF cover and closure activities requiring the use of NPAG/NML waste rock from the stockpile:
 - Completion of the Whale Tail and IVR WRSF covers (initiated during operations);
 - Backfilling of the GSPs;
 - Backfilling of the IVR Attenuation Pond; current ongoing modeling of A53 suggests that the hydrological updates to the WRSF piles improves water quality in A53 in post-closure, and the necessity of backfilling will be evaluated based on observed water quality;
- Backfilling of the Underground Mine with cemented rock fill; and,
- Water diversion to flood the underground facilities, Whale Tail and IVR Pits, and Whale Tail Lake (North Basin).

The flooded Whale Tail Pit, IVR Pit, and Whale Tail Attenuation Pond were modelled as three separate fully mixed entities, which individually flood to 153.5 masl. Once pits are fully flooded, it is assumed that the Mammoth dike and Whale Tail dike will remain in place and that water level will remain at 153.5 masl through controlled discharge from Whale Tail Pit lake to Mammoth Lake until the water quality meets required limits.

2.5 Post-Closure

When water quality meets the required limits, the Whale Tail dike separating the north and south basins of Whale Tail Lake and Mammoth dike will be decommissioned. In post closure, natural drainage patterns will be re-established. Water will flow from Whale Tail Lake (South Basin) through Whale Tail Lake (North Basin) and to Mammoth Lake as overflow on the Mammoth sill spillway. Water will flow from the flooded IVR Pit towards Whale Tail Lake (North Basin). Water from the Whale Tail WRSF Contact Water Collection System will flow directly to Mammoth Lake and water from the IVR WRSF Contact Water Collection System will flow directly to Whale Tail Lake (North Basin).

2.6 Off-Site / Downstream

To facilitate the assessment of the effects of effluent discharge to the downstream environment, the water balance was extended downstream of the Project area using input parameters and assumptions from the baseline water balance model described in the Hydrology Baseline Report (Agnico Eagle 2016a). Lake locations are shown on Figure 4.

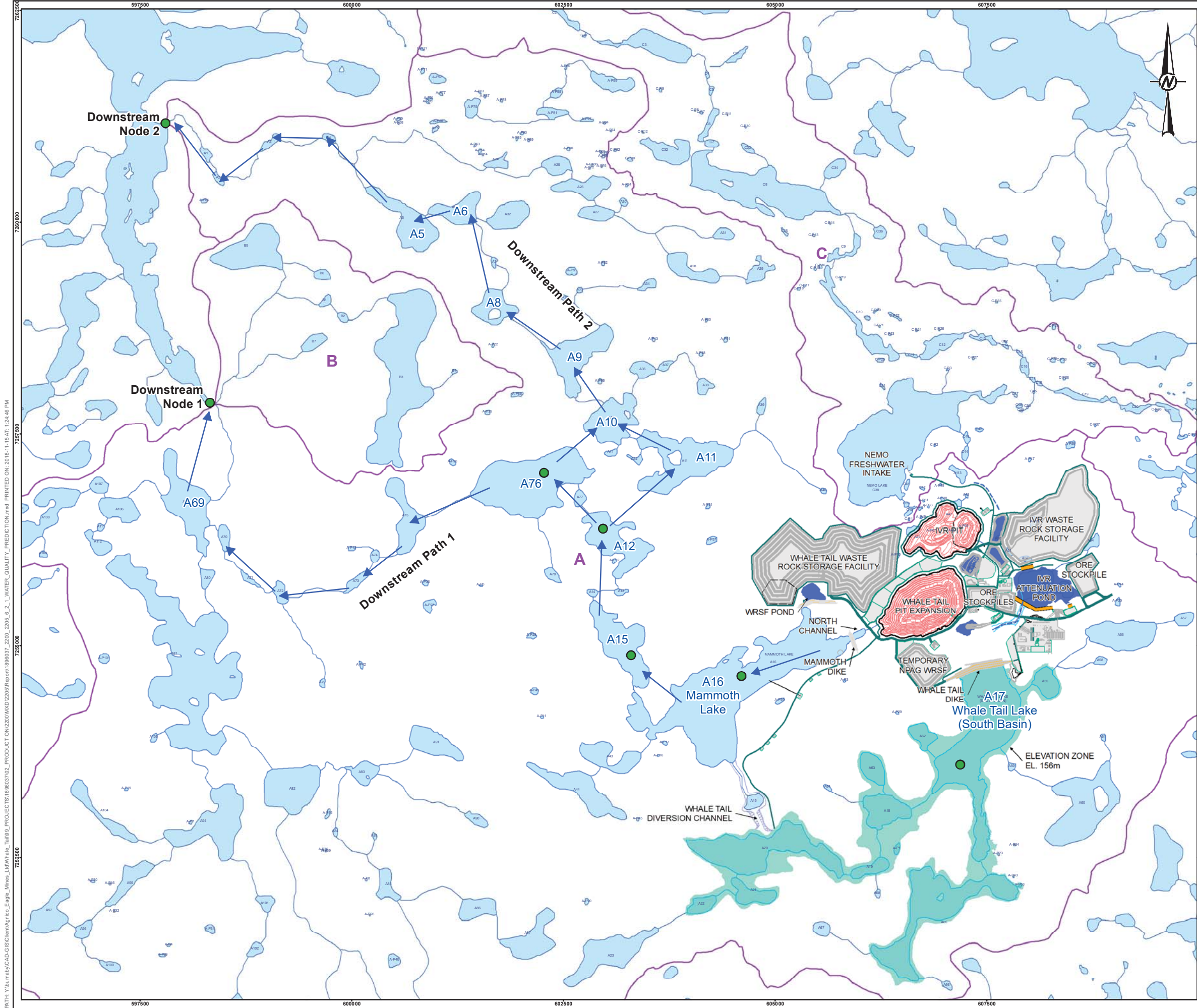
Downstream of Lake A12, the water flow splits into two pathways, where downstream path 1 flows to Downstream Node 1 and downstream path 2 flows to Downstream Node 2 (Figure 4). These modeling nodes represent the water quality of the streams that enter Lake DS1 and do not represent water quality in Lake DS1 itself.

During operations, the receiving environment receives final effluent discharge from the combined WTP effluents (O-WTP and S-WTP, and all effluent discharges will meet effluent quality criteria. Effluent discharge is directed first to Mammoth Lake, between June 2019 and May 2021. Mammoth Lake also receives inflow from Whale Tail Lake (South Basin) through the Whale Tail Diversion Channel beginning in June 2020.

In June 2021, effluent discharge is directed to Whale Tail Lake (South Basin). Whale Tail Lake (South Basin) receives water that seeps under the Whale Tail Dike, is collected in a well sump, and is pumped back over the dike, beginning in 2020.

During closure, the flow from Whale Tail Lake (South Basin) to Mammoth Lake through the Whale Tail Diversion Channel ceases as Whale Tail Lake (South Basin) is drawn down to 153.5 masl. Throughout flooding, there is no effluent discharge to either Mammoth Lake or Whale Tail Lake (South Basin), and these water bodies receive only natural runoff from their watersheds.

Once the Pit Lake is fully flooded if the Pit Lake water quality requires the dikes remain in place, flow between Whale Tail Lake South and North Basins, and between Whale Tail Lake (North Basin) and Mammoth Lake, would occur as controlled (pumped) flows. It is modelled that Mammoth Lake receives passive discharge from the Whale Tail WRSF Contact Water Collection System once the pit is fully flooded.



LEGEND

- RECEIVING ENVIRONMENT PREDICTION LOCATION
- FLOW PATH
- WATERCOURSE
- WATERSHED
- WATERBODY
- FLOODED WHALE TAIL SOUTH

0 900 1,800
1:45,000 METRES

REFERENCE(S)

- INFRASTRUCTURE OBTAINED FROM AGNICO EAGLE MINES LIMITED FROM AMQ_2025Q4V7.DWG
- WATERCOURSE AND WATERBODY DATA OBTAINED FROM PHOTOSAT

DATUM: NAD 83 CSRS PROJECTION: UTM ZONE 14

CLIENT

AGNICO EAGLE

PROJECT

WHALE TAIL PIT - EXPANSION PROJECT

TITLE

**WATER QUALITY PREDICTION
MODELLING NODES**

CONSULTANT	YYYY-MM-DD	2018-11-15
	DESIGNED	MD
	PREPARED	CDB
	REVIEWED	JR
	APPROVED	DF

PROJECT NO. 1896037

CONTROL 2200/2205

REV. 0

FIGURE 4

GOLDER

3.0 WATER QUALITY MODEL INPUT PARAMETERS

3.1 Waste Rock

Elements of the model that represent loading sources of waste rock or other material include:

- Whale Tail, IVR, and Exploration Waste Rock Pad WRSFs: Provide mass loadings from runoff over the non-covered surfaces of the WRSFs, based on annual tonnages of lithologies extracted. The annual ratio of covered WRSF surfaces to waste material that interacts with runoff was provided by the results of the hydrological WRSF modeling (Appendix E of Golder 2019a).
- Ore stockpiles: Provide mass loadings for runoff over and through the ore stockpiles. As the ore stockpiles are rolling piles (i.e., material is constantly being removed and replaced), it was assumed freezing of the piles would not occur, and the entire tonnage of the ore stockpiles are considered available for interaction with water during freshet and the summer months. However, mass release would occur only through interaction with runoff, and would thus be limited to summer months, limiting the potential to impact site water quality. In 2026, ore stockpiles are assumed to be processed, leaving pads of developed area which return to natural areas in post-closure.
- Construction Material Stockpile: Provides mass loadings for runoff over and through a stockpile of clean esker material. As the construction material stockpile is a rolling pile (i.e., material is constantly being removed and replaced), it was assumed freezing of the pile would not occur, and the entire tonnage of the construction material stockpiles is considered available for interaction with water during freshet and the summer months. However, mass release would occur only through interaction with runoff, and would thus be limited to summer months, limiting the potential to impact site water quality. At closure, the construction material stockpile is assumed to be consumed, leaving pads of developed area which return to natural areas in post-closure.
- Developed areas: Provide mass loadings for runoff over constructed pads (i.e., the Industrial Sector, the Main Camp Sector). Loadings are based on the total lithological proportions of NPAG/NML waste rock extracted over the life of mine. Developed area pads are assumed to return to natural areas in post-closure.
- Cover material on WRSFs: Using the same geochemical inputs as the developed areas loadings, it provides mass loadings for runoff over the progressively covered surfaces of the Whale Tail and IVR WRSFs. The annual ratio of covered WRSF surfaces to waste material that interacts with runoff was provided by the results of the hydrological WRSF modeling (Appendix E of Golder 2019a).
- NPAG/NML Stockpile: Provide mass loadings from runoff over the NPAG/NML stockpile, based on annual tonnages of lithologies extracted. Similar to the WRSFs, it was assumed that freezing of the pile would occur. This stockpile will have been consumed by the end of mine life as it is used for progressive cover of the WRSFs throughout operations.
- Pit walls: Provide mass loadings from direct contact runoff over pit benches and the pit floors during operations and closure, and from high wall runoff in post-closure. Also provides mass loadings for submerged flush while the pits are being flooded, and are used in calculations of diffusion from the submerged pit benches and floors. Loadings are based on lithological proportions of exposed pit wall (Golder 2018a).
- Landfarm: Provides mass loadings for runoff over and through the landfarm area, assumed to contain primarily overburden material.
- Lakebed sediment: Provides mass loadings for runoff over the dewatered area of Whale Tail Lake (North Basin) that is not part of the Whale Tail Attenuation Pond.

The composition and lithological proportions of waste rock in the Whale Tail, IVR, and Exploration Waste Rock Pad WRSFs and exposed in the pit walls are expected to change as mining progresses. Waste rock tonnages and proportions, and pit wall areas and proportions are shown in Appendix C and described below:

- The annual tonnages of each waste rock lithology mined over the life of mine from each pit were provided by Agnico Eagle (2018b).
- For the pit wall, the final area of lithologies exposed in the final pit shells were provided.
- Areas of lithologies exposed in the walls of the Starter Pit and Quarry 1 were defined based on figures of the block model provided by Agnico Eagle.

Note that the effect on water quality from materials present in ditches, dikes, berms, and other water retaining structures is expected to be insignificant compared to contact water sources and as such were not taken into account in this model.

3.1.1 Changes to the FEIS Addendum

Changes to the FEIS addendum include:

- The change in location of the NPAG/NML Stockpile from within the North Sump collection area to the Whale Tail Attenuation Pond and Whale Tail Pit catchment areas.
- The location of a landfarm within the catchment area of A53/IVR Attenuation Pond.
- The location of an ore stockpile within the catchment area of IVR Attenuation Pond.
- The location of a marginal ore stockpile within the Whale Tail WRSF footprint, which drains by gravity to the Whale Tail WRSF Pond.
- Annual proportions of waste rock and cover in the WRSFs were provided by the results of the hydrological WRSF modeling (Appendix E of Golder 2019a).
- The interaction depth of runoff from the WRSFs was updated from 1 m to 0.3 m, as per the results of the hydrological WRSF modeling (Appendix E of Golder 2019a).
- An interaction depth of 1 m was maintained for pit benches and pit floors; no interaction occurs on the pit walls between the benches.
- A scaling factor was developed to convert the phosphorus input for diorite, originally based on humidity cell data, to an input reflective of a loading based on a large column test which is more representative of site conditions than the humidity cell test. See Section **Error! Reference source not found.** and Appendix D for details.
- A change in approach of the application of water quality to lakebed sediments such that a loading-based approach is now used rather than a concentration-based approach (Appendix A).
- STP effluent limit for phosphorus was updated to 0.5 mg/L (Agnico Eagle 2019c).
- O-WTP effluent limit for phosphorus of 0.05 mg/L (Agnico Eagle 2018d, Rich 2005)

3.2 Water Quality Inputs

3.2.1 Loading Rates and Concentrations

Exposed rock in pit walls, WRSFs, pads, stockpiles

Table 7 through Table 11 summarizes the water quality related input parameters used in the water quality model. Loading rates are calculated for waste rock (based on large column leaching tests¹), ore (based on humidity cell tests [HCT] leach), and overburden, esker material, and lakebed sediments (based on shake flask extraction [SFE] leach test results). All leach tests (large columns, HCTs, SFE) are described in the Geochemistry Report (Addendum Volume 5, Appendix 5-E). Loading rates and concentrations (Appendix A) were normalized and adjusted to field conditions in the model, and further scaling factors were applied as per Table 6.

The weekly analytical results (updated since the Approved Project model to include newly available data) were used to calculate an average weekly leaching rate per unit mass for each constituent and each leaching cell or column as reported in the Geochemistry Report. Laboratory leaching rates are more aggressive than what would be observed in the field. This is usually a function of two factors:

- 1) The higher liquid to solid ratios used in testing compared to much drier site conditions maximizes the amount of material that interacts with the liquid; and
- 2) Laboratory tests carried out at room temperature accelerates oxidation rates. Laboratory temperature is not representative of colder temperature at the project site, which will slow the oxidation rates based on chemical principles and is documented at other northern sites (Davé and Clulow 1996; Davé and Blanchette 1999).

The laboratory-derived leaching rates were applied as a monthly loading rate in the model in consideration of the drier climate at site where much less precipitation falls on a unit surface area than in the laboratory leaching column. One weekly leaching cycle in the laboratory represents the volume of water that is received in 2 to 3 months of exposure in the pile for the same unit surface area². The laboratory leaching rate is repeated 4 times in one month; therefore, time in the laboratory test does not correspond to mine waste exposure time in the field. Based on the liquid to solid ratio of one laboratory leaching cycle relative to the monthly average precipitation, the chemical load associated with one laboratory leaching cycle was conservatively assumed to represent the load released from one month of precipitation in the field. Loading rates were calculated from the large column leachate water quality data as follows:

$$\text{Loading Rate} \left(\frac{\text{mg}}{\text{kg week}} \right) = \text{average of weekly rate, as: } \left\{ \frac{\left(\text{concentration} \left(\frac{\text{mg}}{\text{L}} \right) \times \text{leachate volume (L)} \right)}{\left(\text{mass of charge material (kg)} \right)} \right\}$$

Geochemical testing results showed that the komatiite (Ob) material from the IVR Pit leaches more arsenic than the same lithology in the Whale Tail Pit. At the time of source term development for the current model, no kinetic testing results were available for the lithology from the IVR Pit; however, static testing had been completed. In comparing static test results for the komatiite (Ob) unit from the IVR Pit with those for the same unit from Whale Tail Pit, it was shown that the komatiite (Ob) unit in the IVR Pit was approximately 1.75 times more leachable than that in the Whale Tail Pit. The model accounts for this by applying a factor of 1.75 to all loading rates associated with the komatiite (Ob) unit in the IVR Pit (including pit wall runoff, submerged flush, and diffusion) and in the IVR WRSF.

¹ With the exception of the diorite unit, which is based on humidity cell test results

² Based on an average climate year, total precipitations (rain and snow) for frost-free months of June to September when rock storage facility contact water may be released. This applies to the surface area of all mine wastes: rock storage facilities, pads and stockpiles.

As the pits become flooded, mass is expected to be released from the pit benches and pit floors under water. This process results from the mobilisation of sulphur salts created upon exposure of the rock to air prior to flooding. Submergence is expected to stop oxidation but will allow salts to dissolve. Thus, the amount of salts available to be released from the pit benches and floors will be a finite source. To capture the effects on water quality of the slow release of these stored salts, a finite release of mass from the pit benches and floors was applied in the model (Golder 2018a). Following the depletion of the mass due to remobilisation into the flooded pits, mass release from the pit benches and floors was assumed to be driven by equilibrium processes with groundwater concentrations.

Mass release rates from the submerged pit benches and floors were derived from diffusion modeling described in Golder (2018a). A mass release rate was estimated for all lithologies. The komatiite, iron formation, and greywacke rocks comprise approximately 62% of the Whale Tail Pit walls and 75% of the IVR Pit walls; the remaining lithologies provide negligible mass release upon submersion.

Overburden, Esker Material, and Exposed Lakebed Sediment

No kinetic leaching tests were carried out on overburden, esker material, or lakebed sediments. To calculate average leaching rates per unit mass of material, SFE static leaching test results were used as described in the Geochemistry Report. SFE static leaching tests are more aggressive than leaching rates in the field, as material is shaken for 24 hours in water with a liquid to solid ratio of 4:1. This results in a higher release of constituents per unit mass of testing material than would be observed in the field. Loading rates were calculated from the SFE data as follows:

$$\text{Loading Rate } \left(\frac{mg}{kg} \right) = \left\{ \frac{\left(\text{concentration } \left(\frac{mg}{L} \right) \times \text{leachate volume } (L) \right)}{\left(\text{mass of charge material } (kg) \right)} \right\}$$

Overburden and esker material will be piled and exposed to precipitation. As such, a conservative approach of applying the loading rates on a monthly basis was used. Scaling factors were applied as per Table 6 and Table 10.

A different approach was used for the lakebed sediment, as they will remain *in situ* and undisturbed. According to the annual net runoff depth per unit area used in the model, and under the assumption of a 5 cm interaction depth of lakebed sediments, the liquid to solid ratio for lakebed sediments on site is calculated to be approximately 2:1. When considering the entire volume of natural runoff within the catchment plus runoff over the exposed lakebed sediments, this ratio becomes approximately 4:1, which is consistent with the water to rock ratio of the SFE test. Therefore, the average loading rate was assumed to be released on an annual basis, and reports to runoff, which occurs entirely between June and September. Scaling factors were applied as per Table 10.

3.2.2 Changes to FEIS Addendum

3.2.2.1 Surface Facilities

Table 4: Changes in surface facility inputs

Item	FEIS Addendum	Water Licence Model	Reasoning
Pit wall areas	1 m interaction depth on all pit bench, floor, and wall surfaces	1 m interaction depth on pit benches and floors; no interaction with the pit walls	It is unlikely that surface runoff over the pit walls will significantly acquire a mass load; rather, the majority of the load will be sourced from pit benches and floors.
WRSF runoff interaction depth	1 m interaction depth for runoff on both horizontal and vertical faces of WRSF benches	0.3 m interaction depth for runoff on both horizontal and vertical faces of WRSF benches.	To remain consistent with the results of the hydrological WRSF modeling (Appendix E of Golder 2019a).
Seepage in WRSFs	Seepage occurs once the active layer (4.7 m) reaches field capacity.	No seepage is accounted for within the temporal boundaries of the model.	Basal seepage is predicted to occur only in negligible amounts at the beginning of operations (Appendix E of Golder 2019a).
Interflow (infiltrated flow throughout the cover material) in WRSFs	No interflow accounted for; all precipitation reported as either runoff or seepage.	No interflow accounted for within the temporal boundaries of the model.	Interflow is predicted to occur in post-closure; however, this is outside of the model's temporal boundaries (Appendix E of Golder 2019a)
Ratio of waste rock to cover material interacting with runoff in WRSFs	Areas extracted from site layouts, assuming cover material is on all previous benches and is always a 4 m wide strip around the perimeter of the top bench.	Ratio of waste rock to cover material in the Whale Tail WRSF and IVR WRSF	To remain consistent with results of the hydrological WRSF modeling (Appendix E of Golder 2019a).
Diorite phosphorus loading	Based solely on humidity cell test results	Scaled to the liquid to solid ratio of column test results (closer to field conditions), based on trends of the differences in loadings between humidity cell tests (HCTs) and column tests	Consistently higher phosphorus loading rates were observed from the HCTs compared to more site-specific columns tests, for all rock types, due to a higher dissolution rate associated with the higher volume of water used in the HCT. See Appendix D for further details.
Treatment limit for phosphorus in the STP	1 mg/L	0.5 mg/L	Agnico Eagle, 2019c
Treatment limit for phosphorus in the O-WTP	-	0.05 mg/L	Agnico Eagle 2018d

3.2.2.2 Groundwater

Updated groundwater inflows and TDS concentrations were incorporated after hydrogeological modeling updates were complete. The updated modeling generally showed a decrease in flows (Golder 2019b).

3.3 Water Quality Model Assumptions

Site specific data were used as model inputs where available. Assumptions were used where data was not available in order to simulate the complex interplay of climate, the geochemical nature of the rock materials, and the physical characteristics of the mine facilities. The water quality predictions presented in this report are a reflection of these assumptions. The modelling approach is consistent with industry practices and is appropriate for evaluating potential impacts associated with the Project, actual contact water quality during construction, operations, closure, and post-closure may differ from the predictions presented.

Model assumptions are presented in the following tables, and reflect the updates made to this model iteration.

Table 5: General Site Water Quality and Chemical Loading Rate Input and Assumptions

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
Natural watershed on-site	Non-contact water quality input	Input as a concentration Average water quality of Watershed A tributaries upstream of Mammoth Lake (2014 through 2016)	Monitored results in the regional baseline water quality studies are considered analogous to natural runoff water quality of the area	Addendum Volume 6, Appendix 6-G	X	X	X
Developed areas / constructed pads	Developed areas loading rate input	Input as a loading rate. Weighted average load of greywacke (S3S) and intermediate intrusive (8b) mixed based on total proportion (Appendix C). Loading rate is calculated as needed by additional factors according to facility.	Segregation of these lithologies will occur to allow use of NPAG/NML material for construction and WRSF cover requirements.	Addendum Volume 5, Appendix 5-E; Appendix A, Appendix C	X	X	X
	Developed areas interaction depth	2 m interaction depth is used for calculation loadings for developed area runoff.	Pad thickness provided by Agnico Eagle (SNC)	Pad thickness provided by Agnico Eagle	X	X	
	Rock density	2 tonnes/m ³ applied to all stockpiled rock material where applicable to calculate loading rates	"Loose Density" of Whale Tail WRSF	Design Criteria for Geotechnical and Water Management Infrastructure,	X	X	
	Site channelization factor for developed areas	Factor of 0.3 applied to loading	Represents the effect of channelling compared to laboratory leaching conditions: movement or flow of mass through the constructed pads with an assumed 30% contact of water with grains	Kempton (2012); and Beddoes et al. (2013)	X	X	
	Seasonal load multiplier	June through September = 1 October through May = 0	Release of load in summer, no accumulation or release of load during winter due to frozen conditions within the active thaw depth.		X	X	
	Runoff in post-closure	Represented by non-contact runoff water quality	Developed Areas are removed by the time flooding is complete in closure.	Addendum Volume 6, Appendix 6-O			X

Table 5: General Site Water Quality and Chemical Loading Rate Input and Assumptions

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
All water surfaces	Direct precipitation	Input as a concentration Assumed pristine water (0 mg/L for all constituents)	Direct precipitation is not anticipated to provide any significant mass contributions	n.a.	X	X	X
Pit sumps and water management ponds	Solubility limits	Solubility limits were applied for iron and aluminum	PhreeqC model was run for various modelled water qualities to investigate solubility limits	Section 3.3.1.1	X	X	X
Groundwater regime	Shallow groundwater quality input	Input as a concentration Based on 75th percentile of Meadowbank groundwater quality	No shallow groundwater data from Whale Tail Pit; this source term was used for groundwater from Approved Project model.	Knight Piésold, 2015	X	X	
	Deep groundwater quality input	Input as a concentration Median of Amaruq Westbay data using conservative back-calculations of brine in drilling fluid. Major ions contributing to total dissolved solids correlated to the modelled TDS of groundwater inflows per the updated hydrogeological model.	Deep groundwater data available from Whale Tail Pit	Addendum Volume 6, Appendix 6-B; Golder 2019b	X	X	

Table 6: Water Quality and Chemical Loading Rate Input and Assumptions for the WRSFs, Ore Stockpiles, Construction Material Stockpiles, and NPAG/NML Stockpile

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
■ All WRSFs ■ Ore stockpiles ■ Construction material stockpiles ■ NPAG/NML stockpile	Temperature effect on reaction rates	Waste rock and overburden loading rates are multiplied by: ■ 0.5 for July and August ■ 0.25 for June and September ■ 0 for October to May	Loading rates are halved for every 10°C decrease in temperature from 25°C, based on monthly average temperatures. Factor is 0 in winter months as average monthly temperatures are below 0°C	Diavik (1998); Davé and Clulow (1996); Davé and Blanchette (1999)	X	X	X
	Seasonal load multiplier	June through September = 1 October through May = 0	Release of load in summer, no accumulation or release of load during winter due to frozen conditions within the active thaw depth and fast burial of waste rock (the rate of rise of the WRSFs exceed the active thaw depth).		X	X	X
	Grain size factor	Grain size factor of 0.3 applied to loading rate for both the runoff and seepage.	Represents the effect of grain size compared to laboratory leaching condition: the percentage of rock with grain size small enough that its surface contributes to the mass load.	Kempton (2012); and Beddoes et al. (2013)	X	X	X
	Rock density	2 tonnes/m ³ applied to all stockpiled rock material where applicable to calculate loading rates	"Loose Density" of Whale Tail WRSF	Design Criteria for Geotechnical and Water Management Infrastructure	X	X	X

Table 6: Water Quality and Chemical Loading Rate Input and Assumptions for the WRSFs, Ore Stockpiles, Construction Material Stockpiles, and NPAG/NML Stockpile

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
- Whale Tail WRSF - IVR WRSF	Contact runoff chemistry	Weighted average load from overburden and waste rock types based on the annual tonnage reporting to each WRSF (does not account for material used in construction).	Represents material not covered through progressive covering, and consists of ARD and/or ML waste rock and overburden.	Addendum Volume 5, Appendix 5-E	X		
		A multiplication factor of 1.75 was applied to the loading from South Wall Komatiite waste rock (V3-V4 (0b)) in the IVR WRSF	Multiplication factor was calculated through comparisons of static geochemistry results from the same lithologies in both two pits, as kinetic data was not available for the South Wall Komatiite V3-V4 (0b) from the IVR Pit at the time of source term development. This has since been supported by kinetic tests that use the South Wall Komatiite V3-V4 (0b) from the IVR pit.	Addendum Volume 5, Appendix 5-E	X		
		WRSFs are assumed to freeze annually and remain frozen, such that loadings are based only on the runoff interaction depth, and not the tonnage of the entire storage facility.	Waste rock is placed year-round; however, rock that is in place in the winter becomes frozen and subsequently covered, and is not available to interact with water come the following spring and summer.	Golder 2018e	X		
- Whale Tail WRSF - IVR WRSF	Residual explosives in WRSFs	Applied concentrations for nitrate and ammonia in operations for WRSF runoff flows: - NO₃: 12 mg/L-N - NH₄: 0.3 mg/L-N	Average of monitoring values observed in operating open pits at the Meadowbank Mine.	Meadowbank Mine water quality monitoring data from Agnico Eagle on NWB website	X		
		Applied concentrations for nitrate and ammonia in closure and post-closure for WRSF runoff and seepage flows: - NO₃: 0.02 mg/L-N - NH₄: 0.01 mg/L-N	Average of monitoring values observed in operating open pits at the Meadowbank Mine. Reduced values are used for closure and post-closure to account for decreasing residual explosive content once operations cease.	Meadowbank Mine water quality monitoring data from Agnico Eagle on NWB website		X	X

Table 6: Water Quality and Chemical Loading Rate Input and Assumptions for the WRSFs, Ore Stockpiles, Construction Material Stockpiles, and NPAG/NML Stockpile

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
■ Whale Tail WRSF ■ IVR WRSF	Runoff interaction depth	0.3m	Thickness of the layer through which runoff will flow and contact soil particles. Mass loading in runoff is calculated based on tonnage present in this depth and over the 3D area of not yet covered by cover material in the waste rock in the piles.	Appendix E of Golder 2019a	X	X	X
	WRSF cover chemistry	Uses the developed area loading input; same rock types used (South Greywacke and Diorite)	Waste rock of these lithologies will be segregated for use as WRSF cover material and for construction use	Addendum Volume 5, Appendix 5-E	X	X	X
	Progressive cover of WRSFs	Progressive cover percentages as per the hydrological WRSF modeling results	Cover is placed progressively through mine life and WRSFs will be entirely covered prior to the first spring thaw of closure.	Appendix E of Golder 2019a	X	X	

Table 6: Water Quality and Chemical Loading Rate Input and Assumptions for the WRSFs, Ore Stockpiles, Construction Material Stockpiles, and NPAG/NML Stockpile

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
■ Whale Tail WRSF ■ IVR WRSF	Flow of seepage from cover/active layer	Seepage is not accounted for.	Modelled seepage during operations is considered negligible and is not predicted to occur in closure or post-closure.	Appendix E of Golder 2019a	X	X	X
Ore stockpile	Contact runoff chemistry	Loading rate based on quarterly (2018 through 2020) and annual (2021 through 2025) ore tonnage	Average load from composite humidity cell test sample of ore.	Addendum Volume 5, Appendix 5-E	X		
		Ore stockpiles are assumed not to freeze during the winter months	Contents are expected to be continually consumed and refreshed	Agnico Eagle mine plan ^a	X		
	Runoff in closure	Represented by developed area loadings	Ore stockpile and clean material pile are removed from pad. Pad remains in place.	Addendum Volume 5, Appendix 5-E		X	
	Runoff in post-closure	Represented by non-contact runoff water quality	Stockpile pads are removed	Addendum Volume 6, Appendix 6-O			X

Table 6: Water Quality and Chemical Loading Rate Input and Assumptions for the WRSFs, Ore Stockpiles, Construction Material Stockpiles, and NPAG/NML Stockpile

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
Clean material stockpile	Contact runoff chemistry	Average load from SFE leach results for esker samples; applied to the full quantity of esker material stockpile.	Being a rolling stockpile, it is assumed to not freeze at the core.	Addendum Volume 5, Appendix 5-E	X		
		Consistent 100,000 m ³ clean construction material (esker) tonnage used to determine loading rate	Mass contribution to chemical load based on an anticipated tonnage	Agnico Eagle	X		
	Runoff in closure and post-closure	Represented by non-contact runoff water quality	Stockpile pads are removed	Addendum Volume 5, Appendix 5-E		X	X
NPAG/NML stockpile	Contact runoff chemistry	Represented by developed area loadings	Waste rock of these lithologies will be segregated for use as WRSF cover material.	Addendum Volume 5, Appendix 5-E	X		
		WRSFs are assumed to freeze annually and remain frozen, such that loadings are based only on the runoff interaction depth, and not the tonnage of the entire storage facility.	Waste rock is placed year-round; however, rock that is in place in the winter becomes frozen and subsequently covered, and is not available to interact with water come the following spring and summer.		X		
	Runoff interaction depth	0.3 m	Thickness of the layer through which runoff will flow and contact soil particles. Mass loading in runoff is calculated based on tonnage present in this depth and over the 3D area the waste rock in the pile.	Appendix E of Golder 2019a Rock pile surface by Agnico Eagle	X		
	Runoff in closure and post-closure	Represented by non-contact runoff water quality	Stockpile pads are removed	Addendum Volume 6, Appendix 6-G		X	X

Table 7: Inputs and Assumptions for the Whale Tail and IVR Pits

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
Whale Tail Pit and IVR Pit	Temperature control	Pit lake diffusion and submerged loading rates are multiplied by 0.25 year-round	Assumes temperature of water at depth in contact with pit benches and floors is 5°C all year (does not freeze but is not affected by warming surface temperatures)	Diavik (1998); Davé and Clulow (1996); Davé and Blanchette (1999)		X	X
	Seasonal load multiplier	June through September = 1 October through May = 0	Release of load in summer, no accumulation or release of load during winter due to frozen conditions		X	X	X
	Interaction Depth of Pit Walls	1 m on pit benches and floors	Represents the depth of penetration of blasting-induced fractures on horizontal benches of the pit. This volume of rock is conservatively assumed to be fragmented (have the porosity) as waste rock in consideration of the rubble that will remain on pit benches. In reality, pit benches and floors are expected to be largely free of loose fragments for pit wall stability (as at Meadowbank).	Siskind and Fumanti (1974)	X	X	X
	Pit bench channelization factor	Factor of 0.3 applied to loading from pit benches and floors	Represents the effect of channelling compared to laboratory leaching conditions: movement or flow of mass through the pit benches with an assumed 30% contact of water with rock fragments	Kempton (2012); and Beddoes et al. (2013)	X	X	X
	Source of drilling fluids	Whale Tail Lake (South Basin) water quality as modelled until September 2019, after which it is the average of baseline Nemo Lake water quality data	Described in mine plan	Volume 1	X		

Table 7: Inputs and Assumptions for the Whale Tail and IVR Pits

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
Whale Tail Pit and IVR Pit	Exposed pit wall runoff chemistry	Weighted average load from exposed rock types based on their expected proportion over exposed pit benches and floors that are not submerged: ■ Full pit during operation ■ Portion of pit benches not flooded at closure and post-closure, i.e., pit benches above elevation 153.5 meters). ■ Portion of pit benches not flooded or otherwise covered at post-closure	Assumed to stop once the pit benches and floors are submerged due to flooding, as sulfide oxidation is assumed to be arrested by submergence.	Addendum Volume 5, Appendix 5-E and Golder 2018a	X	X	X
	Flooding pit bench chemistry	Loading rate associated with one-time mass released from the pit benches and floors upon submersion during pit flooding.	Sulfide oxidation products that formed and accumulated while pit benches and floors are exposed are re-dissolved as the walls become submerged.	Addendum Volume 5, Appendix 5-E		X	
	Submerged pit bench and floor mass release	Mass release rate from submerged pit floors and benches .	Mass addition through release of built of oxidation products from exposed komatiite, iron formation, and greywacke rock in the submerged pit floors and benches that continue until the available mass is depleted. A minimal mass release, that is a function of pit water quality equilibration with groundwater quality continues in perpetuity.	Golder 2018a		X	X
	Residual explosives in pit sumps	Applied concentrations for nitrate and ammonia in operations: ■ NO₃: 12 mg/L-N ■ NH₄: 0.3 mg/L-N	Average of monitoring values observed in operating open pits at the Meadowbank Mine. No applied concentrations in closure and post-closure as pits will be reflective of the chemistry of filling sources.	Meadowbank Mine water quality monitoring data from Agnico Eagle on NWB website	X		

Table 7: Inputs and Assumptions for the Whale Tail and IVR Pits

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
Flooded Whale Tail Pit and IVR Pit	Stratification and turnover events	Fully mixed pit lakes up to an elevation of 153.5 masl in post-closure	Hydrodynamic modeling shows that the pits develop weak temperature-induced stratifications in the summer and under ice but turn over twice a year immediately before ice formation and during freshet. This indicates that generally the pits are well mixed.	Golder 2019e		X	X
	Cryo-concentration	Not considered	Site data from other mines in northern environments show that the effect of cryo-concentration on water quality is low when TDS concentrations are low. Model predictions show low TDS concentrations in the receiving environment throughout operations.	De Beers Canada Inc. 2013			
IVR Pit	Pit bench and floor loadings	A multiplication factor of 1.75 was applied to the loading from South Wall Komatiite waste rock (V3-V4 (0b)) in the IVR WRSF	Multiplication factor was calculated through comparisons of static geochemistry results from the same lithologies in both two pits, as kinetic data was not available for the South Wall Komatiite V3-V4 (0b) from the IVR Pit at the time of source term development. This has since been supported by kinetic tests that use the South Wall Komatiite V3-V4 (0b) from the IVR pit.	Addendum Volume 5, Appendix 5-E	X	X	X
	High wall runoff chemistry in closure	Represented by non-contact runoff water quality	IVR Pit high wall is assumed to be covered in post-closure	Agnico Eagle and Addendum Volume 6, Appendix 6-G			X

Table 7: Inputs and Assumptions for the Whale Tail and IVR Pits

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
Whale Tail Pit	Groundwater inflow chemistry	Regional groundwater entering the pit is assumed to be represented by the shallow water quality, combined with both the Whale Tail Attenuation Pond and Whale Tail Lake (South Basin) water quality, as modelled.	Hydrogeological modeling shows that the regional groundwater entering the pit does so in the top 40 m of fractured bedrock. Hydrogeological modeling provides the breakdown of contributions from regional groundwater, the Whale Tail Attenuation Pond, and the Whale Tail Lake (South Basin).	Addendum Volume 6, Appendix 6-B	X	X	

Table 8: Inputs and Assumptions for the Underground Mine and Saline Water Management Facilities

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
Underground ramp	At-surface catchment area runoff water quality	Developed area runoff water quality	Catchment area is primarily pad area.	Addendum Volume 6, Appendix 6-O	X	X	
		Natural runoff water quality	Pads are removed	Addendum Volume 6, Appendix 6-G			X
	Underground ramp runoff contact water chemistry	Average loading from humidity cell test data for intermediate intrusive (8b).	Intermediate intrusive (8b) is the predominant rock type in ramp.	Addendum Volume 5, Appendix 5-E	X		
	Developed areas interaction depth applied to at-surface catchment loadings and underground ramp loadings	2 m interaction depth is used for calculation loadings for developed area runoff.	Pad thickness provided by Agnico Eagle	Pad thickness provided by Agnico Eagle	X	X	
	Rock density applied to at-surface catchment loadings and underground ramp loadings	2 tonnes/m ³ applied to all loose rock material where applicable to calculate loading rates	"Loose Density" of Whale Tail WRSF	Design Criteria for Geotechnical and Water Management Infrastructure	X	X	
	Site channelization factor	Factor of 0.3 applied to loading	Represents the effect of channelling compared to laboratory leaching conditions: movement or flow of mass through the constructed pads with an assumed 30% contact of water with grains	Kempton (2012); and Beddoes et al. (2013)	X	X	
	Temperature effect on ramp rock	■ 0.5 for July and August ■ 0.25 for June and September ■ 0 for October to May	Loading rates are halved for every 10°C decrease in temperature from 25°C, based on monthly average temperatures. Factor is 0 in winter months as average monthly temperatures are below 0°C	Diavik (1998); Davé and Clulow (1996); Davé and Blanchette (1999)	X	X	X

Table 8: Inputs and Assumptions for the Underground Mine and Saline Water Management Facilities

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
	Seasonal load multiplier	June through September = 1 October through May = 0	Release of load in summer, no accumulation or release of load during winter due to frozen conditions within the active thaw depth.		X	X	
Exploration Waste Rock Pad WRSF	Temperature effect	0.5 for July and August 0.25 for June and September 0 for October to May	Loading rates are halved for every 10°C decrease in temperature from 25°C, based on monthly average temperatures. Factor is 0 in winter months as average monthly temperatures are below 0°C	Diavik (1998); Davé and Clulow (1996); Davé and Blanchette (1999)	X	X	X
	Seasonal load multiplier	June through September = 1 October through May = 0	Release of load in summer, no accumulation or release of load during winter due to frozen conditions within the active thaw depth and fast burial of waste rock (the rate of rise of the WRSFs exceed the active thaw depth).		X	X	X
	Grain size factor	Grain size factor of 0.3 applied to loading rate for the runoff	Represents the effect of grain size compared to laboratory leaching condition: the percentage of rock with grain size small enough that its surface contributes to the mass load.	Kempton (2012); and Beddoes et al. (2013)	X	X	X
	Rock density	2 tonnes/m ³ applied to calculate loading rates	"Loose Density" of Whale Tail WRSF	Design Criteria for Geotechnical and Water Management Infrastructure	X	X	X
	Contact runoff chemistry	Area is the storage for both waste rock and ore originating from underground, therefore accounts for loadings from both.	Shown in site plans as being adjacent to one another	Volume 1	X		
		Stores initial waste rock produced by Quarry 1 and Starter Pit until Whale Tail WRSF dike is built and Whale Tail waste rock can be stored in the Whale Tail WRSF	Quarry 1 and Starter Pits are initiated prior to Whale Tail WRSF being available.	Volume 1	X		

Table 8: Inputs and Assumptions for the Underground Mine and Saline Water Management Facilities

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
Exploration Waste Rock Pad WRSF		Weighted average load from waste rock types for mined from the Underground Mine, and based on the annual tonnage reporting to the WRSF	Consists of ARD and/or ML waste rock from the Underground Mine.	Addendum Volume 5, Appendix 5-E	X		
		WRSFs are assumed to freeze annually and remain frozen, such that loadings are based only on the runoff interaction depth (when applicable), and not the tonnage of the entire storage facility.	Waste rock is placed year-round; however, rock that is in place in the winter becomes frozen and subsequently covered, and is not available to interact with water come the following spring and summer.		X		
		Developed area runoff water quality	Catchment area is primarily pad area.	Addendum Volume 5, Appendix 5-E	X	X	
		Natural runoff water quality	Pads are removed	Addendum Volume 6, Appendix 6-G			X
	Runoff interaction depth	0.3 m	Thickness of the layer through which runoff will flow and contact soil particles. Mass loading in runoff is calculated based on tonnage present in this depth and over the 3D area the waste rock in the pile.	Appendix E of Golder 2019a Rock pile surface by Agnico Eagle	X		
	Residual explosives	Applied concentrations for nitrate and ammonia in operations for WRSF runoff flows: ■ NO ₃ : 12 mg/L-N ■ NH ₄ : 0.3 mg/L-N	Average of monitoring values observed in operating open pits at the Meadowbank Mine. No values in closure and post-closure as waste rock is used as cemented rockfill to backfill the Underground Mine.	Meadowbank Mine water quality monitoring data from Agnico Eagle on NWB website	X		

Table 8: Inputs and Assumptions for the Underground Mine and Saline Water Management Facilities

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
Underground Mine	Underground sump water quality while mining through permafrost (using brined drilling fluid)	To bring total dissolved solids (TDS) concentration close to 200,000 mg/L, assume underground sump contains: ■ 71,000 mg/L calcium ■ 125,848 mg/L of chloride	Underground operations will require brining of drilling fluid to approximately 200,000 mg/L TDS while development is within permafrost	Agnico Eagle	X		
	Underground sump water quality while mining below the permafrost (not using brined drilling fluid)	Modelled based on inflows to and outflows from the underground facilities; no salt addition.	Below the permafrost, it is not anticipated that underground operations will require brining of drilling fluid.	Volume 1	X		
	Date of underground development below the permafrost (level -275 masl).	April 1, 2022; assuming underground drilling fluid no longer requires brining	Roughly represents the date when increased groundwater inflows occur in conjunction with development below the permafrost.	Volume 1	X		
	Timing of collection of brackish underground water in GSP-2	One month after date of underground development below level -275 masl, to allow sump to flush salt mass that is recirculated	Professional experience with other sites shows that immediate decrease in salt content when discontinuing to brine drilling fluid does not occur.		X		
	Residual explosives in underground sump	Applied concentrations for nitrate and ammonia in underground sump: ■ NO ₃ : 321 mg/L-N ■ NH ₄ : 321 mg/L-N	Average of monitoring values observed in underground mine Sump 125 at the Meliadine Mine.	Meliadine Mine 2016/2017 water quality monitoring data	X		
	Flooded underground facilities water quality	Not modelled	Underground development groundwater will not interact with surface water nor open pit waters			X	X

Table 9: Inputs and Assumptions for Water Treatment Plants

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
All water treatment plants	Effluent water quality	Assumes site effluent water guidelines are met at the point of discharge.	Effluent must adhere to discharge limits.	NWB 2018	X		
Sewage Treatment Plant (STP)	Control on concentrations of phosphorus and nitrate as nitrogen	Applied concentrations of phosphorus and nitrate: ■ P: 0.5 mg/L ■ NO ₃ : 5 mg/L-N	Expected concentrations of nutrients (phosphorus, nitrate as nitrogen) based on information provided from the Meadowbank Mine, further refined by Agnico Eagle for lower sewage water treatment plant effluent limits	Agnico Eagle 2019c	X	X	
O-WTP	Control on concentrations of phosphorus and arsenic	Applied concentrations of phosphorus and arsenic: ■ P: 0.05 mg/L ■ As: 0.1 mg/L ■ TSS: 15 mg/L; total concentrations are calculated using a particulate fraction from 15 mg/L load in addition to dissolved fraction load.	Effluent must adhere to discharge limits.	NWB 2018; Agnico Eagle 2018d	X		
	Effluent water quality	Water quality is modelled and carries forward the maximum of either the modelled concentration or the effluent quality criteria.	Effluent must adhere to discharge limits.	NWB 2018	X		
	Sludge produced from treatment	Sludge from O-WTP disposed of in the Whale Tail WRSF. Its effect on WRSF water quality is not accounted for.	Minor amounts mixed with waste rock will not supply a notable additional load to water quality. Sludge will be frozen, located under the WRSF cover at closure and post-closure; not contact with water	Volume 1	X		
S-WTP (brackish)	Treatment efficiencies	Treatment efficiency of 96.5% of the mass of each constituent and 85% of water volume treated (remainder reports to a concentrated brine containing constituents removed the treatment unit)	Based on site data from Meliadine	Agnico Eagle	X		
S-WTP (brine)	Treatment efficiencies	See Table 2 for treatment parameters. Salt solids shipped off site.		Agnico Eagle 2018d.	X		

Table 10: Inputs and Assumptions for Other Loadings Sources

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
Attenuation Pond Exposed Lakebed Sediments	Runoff over lakebed sediments	Input as a loading. Assumed to be the loading rate equivalent to one full year of precipitation but released entirely over the open water season (June through September, a total of 122 days).	Whale Tail Lake (North Basin) dewatering will expose lakebed sediment area. Lakebeds will be submerged once Whale Tail Lake (North Basin) is full in closure. Water-rock ratios of the geochemical testing (SFE tests) indicates that applying the loading as an annual rate is conservative, based on the average annual precipitation (Section 3.2.1).	Appendix A	X	X	
	Interaction depth of runoff water on lakebed sediments	5 cm	Geochemical testing done on 5 cm of material. Lakebed sediments consist of silty clays that are hard packed and will provide a relatively impermeable surface.		X		
	Density of lakebed sediments	1.5 g/cm ³	Lakebed sediments consist primarily of silty clay.	USDA estimate of moist bulk density by texture (USDA, 2019)	X		
	Temperature effect	■ 0.5 for July and August ■ 0.25 for June and September ■ 0 for October to May	Loading rates are halved for every 10°C decrease in temperature from 25°C, based on monthly average temperatures. Factor is 0 in winter months as average monthly temperatures are below 0°C	Diavik (1998); Davé and Clulow (1996); Davé and Blanchette (1999)	X		
Attenuation Pond Natural Runoff	Runoff from natural watershed areas	If lakebed sediments are exposed, assumed to not contain mass as it will acquire mass from lakebed sediments. If lakebed sediments are not exposed, it is represented by natural runoff water quality.	The runoff flow from the natural areas will flow over the exposed lakebed sediments and acquire mass. This is anticipated to be a greater mass than natural runoff water quality.	Appendix A	X	X	X

Table 10: Inputs and Assumptions for Other Loadings Sources

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
Landfarm	Runoff over landfarm material	Represented by overburden loadings values	Landfarm will consist primarily of overburden material	Appendix A	X	X	
	Density of landfarm material	2 tonnes/m ³ applied to calculate loading rates	"Loose Density" of Whale Tail WRSF	Design Criteria for Geotechnical and Water Management Infrastructure	X	X	
	Interaction depth of landfarm material	2 m interaction depth is used for calculation loadings for developed area runoff.	Pad thickness provided by Agnico Eagle	Pad thickness provided by Agnico Eagle	X	X	
	Temperature effect	Waste rock and overburden loading rates are multiplied by: ■ 0.5 for July and August ■ 0.25 for June and September ■ 0 for October to May	Loading rates are halved for every 10°C decrease in temperature from 25°C, based on monthly average temperatures. Factor is 0 in winter months as average monthly temperatures are below 0°C	Diavik (1998); Davé and Clulow (1996); Davé and Blanchette (1999)	X	X	
	Seasonal load multiplier	June through September = 1 October through May = 0	Release of load in summer, no accumulation or release of load during winter due to frozen conditions within the active thaw depth and fast burial of waste rock (the rate of rise of the WRSFs exceed the active thaw depth).		X	X	
	Site channelization factor	Factor of 0.3 applied to loading	Represents the effect of channelling compared to laboratory leaching conditions: movement or flow of mass through the constructed pads with an assumed 30% contact of water with grains	Kempton (2012); and Beddoes et al. (2013)	X	X	
	Runoff over landfarm area in closure/post-closure	Represented by natural runoff water quality as of January 2041	Material is assumed to be removed in 2040	Agnico Eagle (2019b)		X	X

Table 10: Inputs and Assumptions for Other Loadings Sources

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
Industrial Sector / Main Camp Sector	Contact water quality	Developed area runoff water quality	Represents areas of constructed pad	Addendum Volume 5, Appendix 5-E	X	X	
		Natural runoff water quality	Pads are removed	Addendum Volume 6, Appendix 6-G			X
GSPs, and the IVR Attenuation Pond	Contact water quality in closure and post-closure	Developed area runoff water quality, treated similar to developed pads with respect to calculation of loadings.	These ponds will be backfilled with the NPAG/NML rock.	Agnico Eagle (2019a)		X	X
Whale Tail Dike Well Sump	Residual explosives in riprap used to create collection ditch	Applied concentrations for nitrate and ammonia in underground sump: ■ NO₃: 0.31 mg/L-N ■ NH₄: 0.13 mg/L-N Calculated as the difference between the average concentrations of the East Dike Seepage (ST-8) monitoring results (2016) and the average TPS Reference Area (2016).	Water collected by the Whale Tail dike well sump assumes the modelled water quality of Whale Tail Lake (South Basin) as it will be primarily seepage under the dike that is collected. However, site data from Meliadine shows that an increase in nitrogen species concentrations is possible due to explosives residues within the collection ditch.	Meadowbank Gold Project – 2016 Annual Report on NWB website	X		

Table 11: Inputs and Assumptions for the Receiving and Downstream Environment

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
Receiving and downstream environment	Watershed runoff and initial lake concentrations	Input as a concentration Applied average "Watershed A" water quality (2014 – 2016).	Monitored results in the regional baseline water quality studies are considered analogous to natural runoff water quality of the area and lakes within it	Addendum Volume 6, Appendix 6-O	X	X	X
	Mammoth Lake runoff and initial lake concentrations	Input as a concentration Applied average Mammoth Lake water quality (2014 – 2016).	Monitored results of Mammoth Lake in the regional baseline water quality studies are considered analogous to natural runoff water quality of Mammoth Lake	Addendum Volume 6, Appendix 6-G	X	X	X
	Whale Tail Lake initial lake concentrations and Whale Tail Lake (South Basin) catchment runoff	Input as a concentration Applied average Whale Tail Lake water quality (2014 – 2016).	Monitored results of Whale Tail Lake in the regional baseline water quality studies are considered analogous to natural runoff water quality of Whale Tail Lake	Addendum Volume 6, Appendix 6-G	X	X	X
	Ice formation	Not accounted for	Site data from other mines in northern environments show that the effects of cryo-concentration is low at low TDS. Model predictions show low TDS concentrations in the receiving environment throughout operations; therefore cryo-concentration is assumed to not occur to a significant extent and is not considered in the model.	Experience at other mine sites	X	X	X

3.3.1 Geochemical Controls on Water Quality

3.3.1.1 Solubility Limits

Evaporation and recirculation of water increase concentrations of some constituents to beyond their solubility limits. Geochemical modelling was carried out on the modelled water quality of Whale Tail WRSF Contact Water Collection System, Whale Tail Attenuation Pond water, and Whale Tail Pit sump water to define the likely upper concentration limit for constituents controlled by solubility for the Approved Project site water quality model. The same solubility limits were applied to the current model as pH and oxidizing conditions are expected to be similar for all inflows, assuming acid rock drainage (ARD) is prevented from PAG rock.

The United States Geological Society mass transfer and speciation modelling code PhreeqC (Version 2.15.0) (Parkhurst and Appelo 1999) was used for this purpose. PhreeqC calculates aqueous speciation and solubility indices of solutions using the thermodynamic equations of mineral phases, assuming equilibrium conditions between mineral and soluble phases. The user specifies credible mineral phases that are allowed to precipitate. PhreeqC returns concentrations remaining after precipitation of the specified mineral phases and solubility indices for all mineral phases in the PhreeqC database. This code is widely used and accepted by the scientific and regulatory community.

GoldSim water quality results consisting of the water quality output from distinct time-steps for each of the stated ponds were used as input to PhreeqC. Pond waters were assumed to have a pH of 7 based on observed pH ranges in kinetic testing (Addendum Volume 5, Appendix 5-E), and to be fully oxidizing.

The PhreeqC results identified iron and aluminum as being supersaturated in predicted water quality, and subject to solubility control through the precipitation of diaspore $[\text{AlO}(\text{OH})]$, and ferrihydrite in the expected neutral pH and oxidizing conditions in the ponds. The precipitates formed were assumed to be permanently removed from the mass balance and the remaining aqueous concentration of iron and aluminum were considered to represent maximum concentrations in these ponds at any time. These solubility limits were applied to aluminum and iron as summarized in Table 12, and were hardwired into the GoldSim model as upper concentration limits for these constituents in water. The GoldSim model was then re-run with these fixed upper concentration limits.

Table 12: Solubility Limits Applied in the Water Quality Model

Constituent	Unit	Whale Tail and IVR Waste Rock Storage Facility Pond	Whale Tail and IVR Pit Sump Ponds	Whale Tail and IVR Attenuation Ponds, GSP-brine, and GSP-brackish
Aluminum	mg/L	0.0003	0.0002	0.0001
Iron	mg/L	0.06	0.7	0.3

Notes: mg/L = milligrams per litre

4.0 WATER QUALITY PREDICTIONS

Water quality model results for on-site facilities and downstream lakes during operations, closure, and post-closure are presented in Appendix C as tables containing model output results. Time series figures are included in the following sections for arsenic and phosphorus as these constituents presented the highest number of exceedances.

Model predictions represent dissolved constituent concentrations. Those that are predicted to exceed the applicable criteria are highlighted in Appendix C. On-site water quality predictions are compared to the Water Licence effluent limits (NWB 2018) in operations and closure, while the post-closure predictions in the receiving environment are compared to the CCME Canadian Environmental Quality Guidelines for the Protection of Aquatic Life (CEQG-AL). Downstream predictions throughout operations, closure, and post-closure, are also compared to the CEQG-AL. Note that where applicable, arsenic concentrations are compared to the Site-Specific Water Quality Objective (SSWQO) of 0.025 mg/L in place of the CEQG-AL.

Predicted concentrations are monthly mean values during operations and closure. Given the uncertainties associated with the modeling exercise and use of an average climate year, the predicted concentrations are considered to be order-of-magnitude estimates. Actual water quality will largely depend on the mine plan and management practices followed during mining, and on-site conditions related to water movement and chemical loading. In that respect, the extent to which actual dissolution of rock particles in waste rock piles and the subsequent release of chemical constituents into drainage water will affect water quality will be influenced by the mining sequence (the quantity and types of rock lithologies exposed and area of development as mining advances) and on the volume of water infiltrating into the rock pile, the contact surface between water and rock, the dissolution kinetics under site conditions, and the internal characteristics of the piles themselves (e.g., temperature, degree of saturation, presence of ice). The latter will depend largely on climate, particularly the amount of precipitation and evaporation, and the ambient air temperature.

The pH of most contact water streams is expected to be circum-neutral given the low sulphide content and ample carbonate mineral buffering capacity of mine wastes. The rock types that have been identified as PAG demonstrate slow reaction rates in kinetic testing (Addendum Volume 5, Appendix 5-E). It is assumed that PAG rock management is effective at preventing the development of ARD by segregating and progressively covering the Whale Tail and IVR WRSFs with a cover of NPAG/NML waste rock that encompasses the full depth of the anticipated active thaw layer (4.7 m; Golder 2018e), allowing the centre of the pile to freeze.

The concentration of explosives by-products (ammonia and nitrate) in site contact water is sensitive to the management of blasting agents during their use. Given the proximity and similarity both in setting and operation of the Project to the Meadowbank Mine (similar mining rate, explosives type and explosives usage rate), it was assumed that similar nitrogen and ammonia contents would occur in the waste rock, and open pit drainages. Similarly, average ammonia and nitrate concentrations observed in the underground sumps at the Meliadine Mine were used as input chemistry to the model for underground sump concentrations.

TSS were not considered in the mass load model, but TSS concentration is regulated in effluents. Suspended solids will require monitoring and management or attenuation before discharge. TSS can contribute to chemical loading of water (i.e., can increase the total concentration of chemicals). The effect of 5 mg/L, 10 mg/L, and 15 mg/L TSS on particulate concentrations, which are added to the predicted dissolved concentrations to calculate total concentrations, was assessed and are presented in Table 13.

Water quality predictions for on-site mine contact waters and downstream receiving lakes for the operations phase, closure and post-closure are discussed in the next sections.

4.1 Operations Phase

4.1.1 Surface Operations

The quality of surface infrastructure contact waters including the Whale Tail and IVR WRSF Contact Water Collection Systems, Whale Tail Pit sump pond, Quarry 1, Whale Tail Attenuation Pond, IVR Pit sump pond, and IVR Attenuation Pond are all predicted to meet the effluent limits for all dissolved constituents except arsenic and occasionally, phosphorus, indicating the need for treatment in order to meet site effluent limits. Treatment of arsenic in the discharge was modelled and carried into the receiving environment; all other parameters are not modelled as being treated at the discharge point. Phosphorus receives treatment at the STP, prior to mixing in the active attenuation pond.

WRSF

Phosphorus and arsenic concentration in WRSF Collection Pond are shown in Figure 5. Concentrations are higher in the summer months when there is a lower contact water runoff volume. Peak concentrations are reached in July and August, when rainfall is the lowest and there is less runoff from the pile.

Open Pit Sumps

In the pit sumps (Figure 6), predicted arsenic concentrations are lowest throughout the winter (October through May), when there is no pit wall runoff and proportionally more contribution of groundwater and drilling water to the pit sumps, which have lower arsenic concentrations. Pit sump water concentrations increase through the summer months, reaching a peak in July and August before decreasing from September through the winter months. Elevated concentrations in the summer months are related to loading from pit wall runoff, as well as, for the IVR Pit, uncaptured runoff from the Whale Tail WRSF.

At the Whale Tail pit sump, the largest source of arsenic is from runoff over pit benches and floors, followed by shallow groundwater seepage at the south wall which is sourced in part from seepage at the base of the Whale Tail Attenuation Pond. This trend stabilizes quickly showing similar concentration patterns through most of mine life. The largest source of phosphorus is the shallow groundwater seepage at the south wall, which contains both regional groundwater and seepage from the base of the Whale Tail Attenuation Pond.

Conversely, at IVR pit, sources of arsenic and other constituent loading include runoff over the pit benches and floors, but also Whale Tail WRSF contact water from the northeast section of that WRSF. This section of the Whale Tail WRSF naturally drains toward IVR Pit (note that contact water from the rest of Whale Tail WRSF and the IVR WRSF is captured in the collection pond system and pumped to the active Attenuation Pond). Pit benches and floors contribute a stable chemical load once the maximum footprint of the pit is reached, but the load from the Whale Tail WRSF is variable as the proportion of the covered surface changes over time. At the start of closure, both pits receive little to no load of arsenic or other constituent, and a large volume of fresh water for flooding results in an improvement of water quality (lower constituent concentrations) in the pit as it floods during closure.

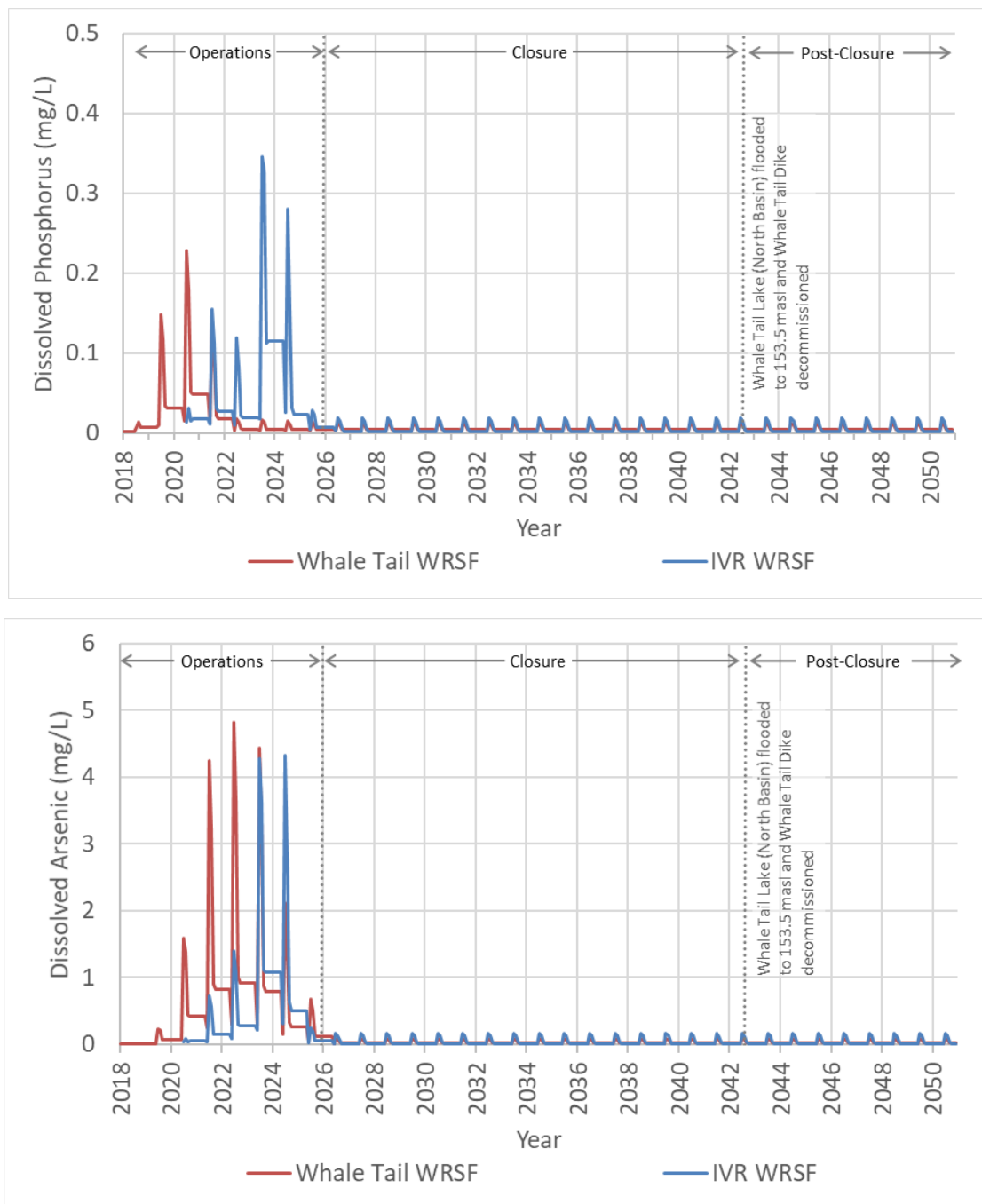


Figure 5: Projected dissolved phosphorus (a) and dissolved arsenic (b) concentrations for the Whale Tail and IVR WRSFs during operations through closure

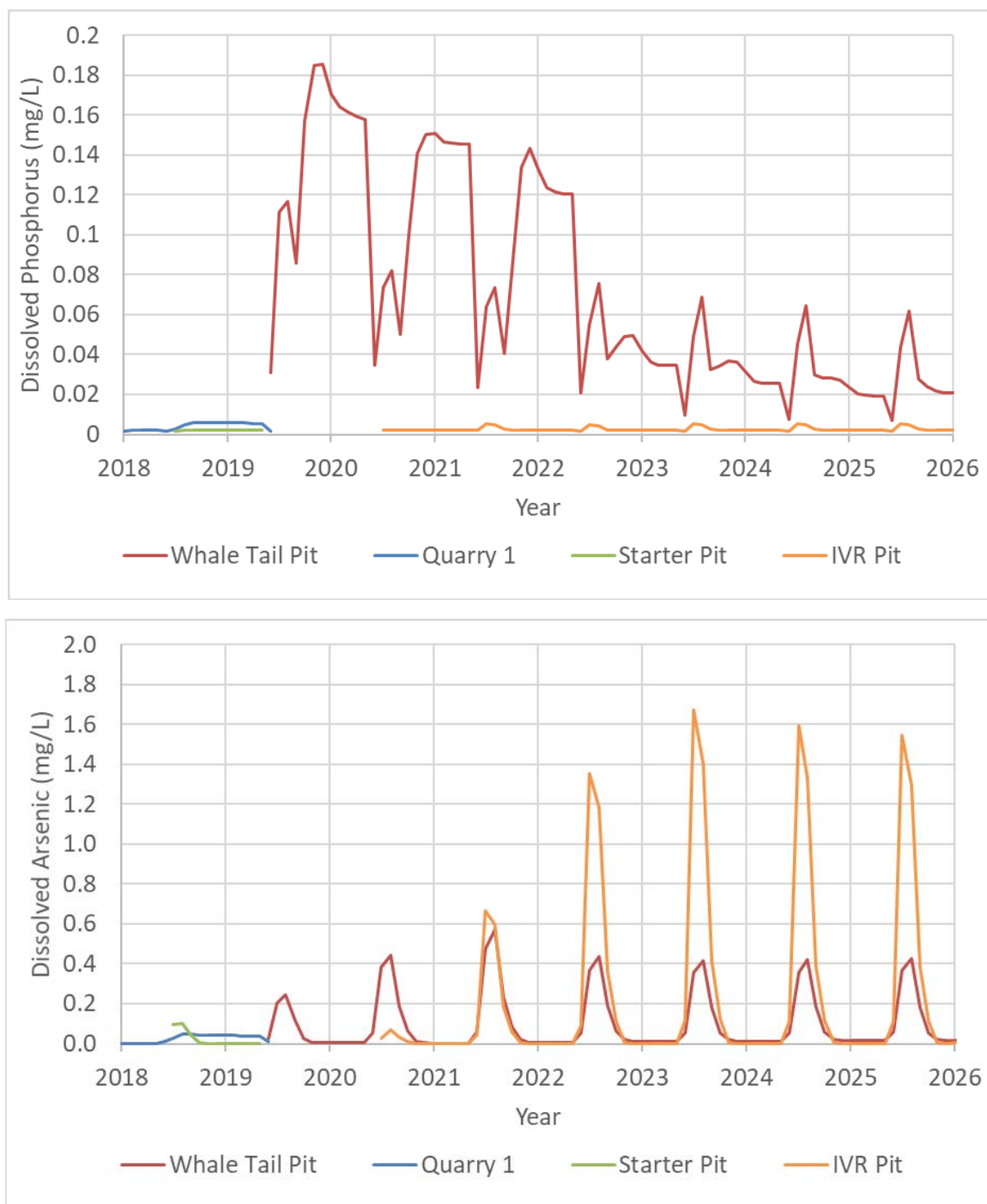


Figure 6: Projected dissolved phosphorus (a) and dissolved arsenic (b) concentrations for Quarry 1, Starter Pit, and the Whale Tail and IVR Pit sumps during operations (pits are flooding through closure).

Attenuation Ponds

The Whale Tail and IVR Attenuation Ponds (Figure 7) predict arsenic concentrations increase from July through August and decrease again from September through the winter months. During operations, this water is expected to require treatment for arsenic before discharge to the receiving environment. Once treated to effluent limits, the effluent from O-WTP will be combined with treated water effluent from the S-WTP for discharge.

The Whale Tail Attenuation Pond is flooded during closure; its water quality at that time is shown on Figure 10, while the IVR Attenuation Pond is backfilled with NPAG/NML waste rock to avoid accumulation of water, and behaves like a waste rock pad after that point.

WTP Effluent Discharge

The O-WTP effluent (Figure 7) will meet licence limits (NWB 2018). The WTP effluent is mixed with lower concentration permeate from the S-WTP (Section 2.3) which lowers the concentrations in the effluent discharged to the receiving environment for most constituents. All constituents that are regulated under the Water Licence A (NWB 2018) are predicted to be less than their respective effluent limits and are not anticipated to require treatment, with the exception of arsenic. Though phosphorus is not predicted to exceed the Water Licence A effluent limit (0.3 mg/L), it is expected to be treated to 0.05 mg/L through the O-WTP.

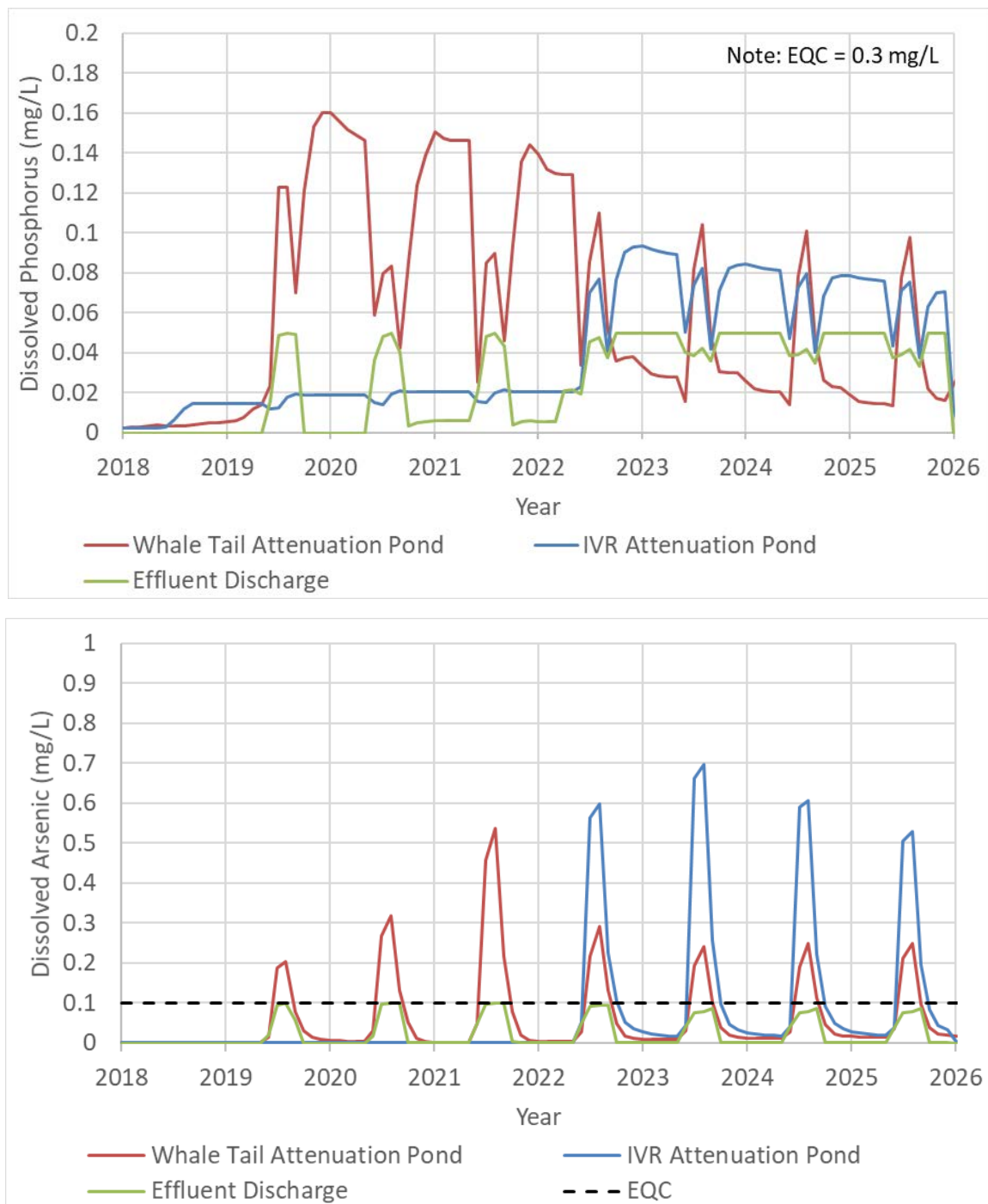


Figure 7: Projected dissolved phosphorus (a) and dissolved arsenic (b) concentrations for the Whale Tail Attenuation Pond, IVR Attenuation Pond prior to treatment, and treated WTP effluent discharge during operations.

4.1.2 Underground Operations

Operations underground yield saline water, both from the naturally brackish groundwater flowing into the mine workings below the permafrost and through the use of brine drilling fluids for mine development within the permafrost. Drilling fluid will be brined to approximately 200,000 mg/L TDS to prevent freezing until April 2022 when development is predicted to reach below the permafrost. After this time, Agnico Eagle will no longer add brine to any part of the underground mine. The model assumes the saline drilling fluids are flushed out of the mine within one month of stopping its use.

The early groundwater flows will be highly saline and will be captured in the GSP-1. Inflows after April 2022 are predicted to have moderate salinity based on the natural groundwater salinity predicted to reach 11,000 mg/L TDS. This water will be captured in GSP-2. A third GSP will be included to increase operational flexibility on the management of saline contact water. This contingency measure has not been considered in the water balance nor the water quality model. GSP water quality is expected to require treatment for salinity prior to discharge via the S-WTP. This S-WTP will also attenuate all constituent concentrations such that permeate (treated water) will have significantly lower concentrations for most constituents, as well as better quality and lower discharge flow rates than O-WTP effluent. The water quality of the GSPs is predicted to exceed effluent quality guidelines for TDS, ammonia, phosphorus, arsenic, mercury, nickel, and zinc; however, this water will be treated through the S-WTP and no further treatment will be required. Treatment through the S-WTP is applied in the model prior to discharge (discretized results in Appendix C). Dissolved concentrations of chromium are within the effluent guidelines, but total chromium concentration has the potential to exceed the effluent guidelines depending on the amount and composition of TSS (Section 4.4).

The concentration of ammonia is a function of the source terms used. Underground sump water is assigned an ammonia concentration of 321 mg/L, the average of available underground sump monitoring data at Meliadine Mine. If explosives waste management differs from that which is practiced at Meliadine, the sump concentrations may differ from the model predictions. Ammonia is expected to be attenuated through the S-WTP.

Between October 2019 and May 2020, the GSP-1 also collects excess water from the Whale Tail Attenuation Pond; this results in a slight increase in phosphorus and zinc concentrations, as concentrations in the Whale Tail Attenuation Pond during that time are higher than initial concentrations in this GSP. For TDS, ammonia, aluminum, arsenic, chromium, and mercury, the transfer of excess water from the Whale Tail Attenuation Pond causes no appreciable change in concentrations in the GSP-1 water.

The relatively elevated concentrations in the GSP-1 are a function of runoff from the Exploration Pad WRSF and ore stockpile, groundwater inflows to the underground, and brine concentrate reject produced by S-WTP (brackish). As the outflow from this S-WTP is a concentrated brine, it is predicted to significantly increase concentrations in the GSP-1 upon commissioning in October 2020. Water from this GSP-1 is treated via the S-WTP (brine). The treatment rate is devised to prevent pond overflow rather than empty the pond such that this pond is predicted to still contain water at closure.

The GSP-2 is active as of May 2022 and collects excess water from the underground sump that is assumed to not come into contact with drilling brine (and is therefore less salty). Similar to GSP-1, it shows elevated TDS, ammonia, and zinc relative to surface infrastructure contact water ponds. Water from this pond is treated via the S-WTP (brackish). The treatment rate is devised to prevent pond overflow rather than empty the pond such that this pond is predicted to still contain water at closure.

At closure, water remaining in all GSP ponds is pumped to the underground for flooding and once empty, they are backfilled with NPAG/NML waste rock to avoid water accumulation such that they no longer contribute significant loads of constituents to site water quality at closure and post-closure.



Figure 8: Projected total dissolved solids (TDS) (a), dissolved phosphorus (b) and dissolved arsenic (c) concentrations in the GSP-1 and GSP-2 during operations.

4.1.3 Receiving Environment and Downstream Lakes

Results presented for the receiving environment and downstream lakes assume fully mixed conditions (as predicted for Mammoth Lake (Golder 2019d) where the effluent and downstream lake overflows and associated chemical load are conservatively assumed to be transferred instantaneously. In reality, changes in concentrations in the downstream lakes due to effluent discharge will show a lag, which will increase in time with distance from the discharge location.

During the operations phase, treated water is discharged to Mammoth Lake through May 2021, then to Whale Tail Lake (South Basin) from June 2021 to 2026. Seepage through the Whale Tail Dike is also collected in a sump and pumped over the dike into Whale Tail Lake (South Basin). The seepage water is expected to be similar in quality to Whale Tail Lake (South Basin) but based on Meadowbank data, can be expected to have additional nitrogen species loadings due to contact with blasted riprap in the collection ditch.

Model results for the receiving and downstream environment were compared to CEQG-AL. Phosphorus concentrations in the receiving lakes show temporary increases while effluent is being discharged. The phosphorus concentration in Mammoth Lake shows a temporary rise above the upper end of the oligotrophic trigger range (oligotrophic-mesotrophic range of 0.004 to 0.01 mg/L P) from June 2020 through June 2021. Similarly, the phosphorus concentration in Whale Tail Lake (South Basin) shows a temporary rise above the upper end of the oligotrophic trigger range from late 2023 through the end of operations. Both receiving lakes reach a maximum average monthly concentration of approximately 0.013 mg/L. Phosphorus concentrations in the receiving environment decrease during closure, and the concentration in Mammoth Lake rises again temporarily upon receiving flooded pit lake overflow discharge after 2042 (Figure 9), but continues to meet the criteria. Downstream Node 1 and Node 2 are predicted to meet the CEQG-AL and SSWQO throughout operations and closure for all constituents.

Arsenic concentrations meet the SSWQO in Mammoth Lake and Whale Tail Lake (South Basin) throughout operations, closure and post closure.

Alternative discharge locations for the O-WTP and S-WTP are currently being investigated to improve predicted water quality in the receivers during operation.

Upon breaching of the dikes to allow for overflow of the fully flooded pit lake to Mammoth Lake in 2042, arsenic concentration shows a slight increase, but concentrations do not exceed the SSWQO.

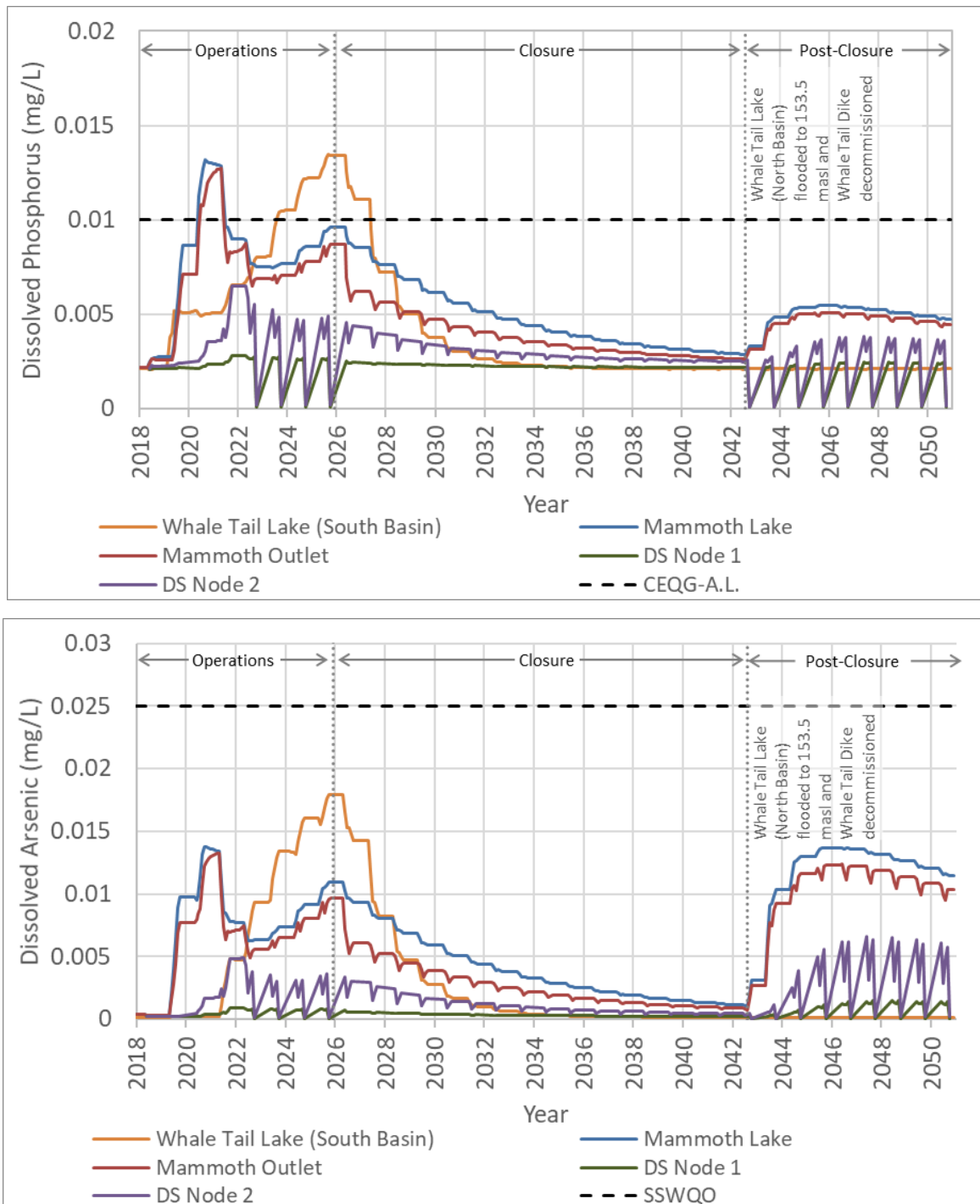


Figure 9: Projected dissolved phosphorus (a) and dissolved arsenic (b) concentrations for the receiving and downstream environment during operations through closure. Mammoth Outlet is a small water body at the mouth of Mammoth Lake

4.2 Closure

In early closure, all site contact water is captured and used to flood underground workings and open pits which is predicted to be completely flooded to 153.5 masl by 2042. During this time, site contact water quality improves as a result of closure activities including: the completion of the cover over WRSFs, flooding of the open pits, covering of the IVR pit high wall and backfilling of the underground contact water ponds and IVR Attenuation Pond with NPAG/NML waste rock.

As there is no site water being discharged off-site during flooding, water quality improves and trends towards baseline concentrations in Mammoth Lake and the downstream lakes. Phosphorus concentrations decrease to below the lower range of the oligotrophic trigger value within a few years after the start of closure. The Mammoth dike and Whale Tail dike remain in place until water quality meets receiving water quality data, predicted to occur by the time full flooding of the pits is achieved.

The reflooding strategy will be adapted during closure based on future water quality predictions validated with site monitoring data. The objective will be for pit lake water to meet quality objectives concurrently with completed reflooding such that lake reconnection can happen as soon as possible after thereafter.

WRSFs

The WRSF contact water quality shows a marked improvement upon completion of the cover (Figure 5). Arsenic and phosphorus concentrations are predicted to be lowest during the spring freshet due to dilution by melt water and non-contact flows. Concentrations are slightly higher in the summer months when there is a lower contact water runoff volume, peaking in July. Basal seepage is not anticipated to occur, as per the results of the hydrological modelling of the WRSFs (Appendix E of Golder 2019a).

Open Pits

The Whale Tail and IVR Pit water quality (Figure 10) are predicted to have some elevated constituent concentrations initially during flooding. This results from the comparatively large mass load from the pit benches and floors compared to the small volume of water present in the pit sump at the onset of flooding. This water remains in the pit and water quality improves with flooding as the exposed pit wall surface area decreases with pumped inflows from Whale Tail (South Basin) and natural runoff from the drainage basin.

Phosphorus and arsenic concentrations in the flooded Whale Tail Attenuation Pond show a drop in 20141 – this is due to the Whale Tail Attenuation Pond water mixing freely at surface with the Whale Tail Pit water as the water rises past the spill elevation. All constituent concentrations are predicted to be below their receiving water quality criteria once the pit is fully flooded.

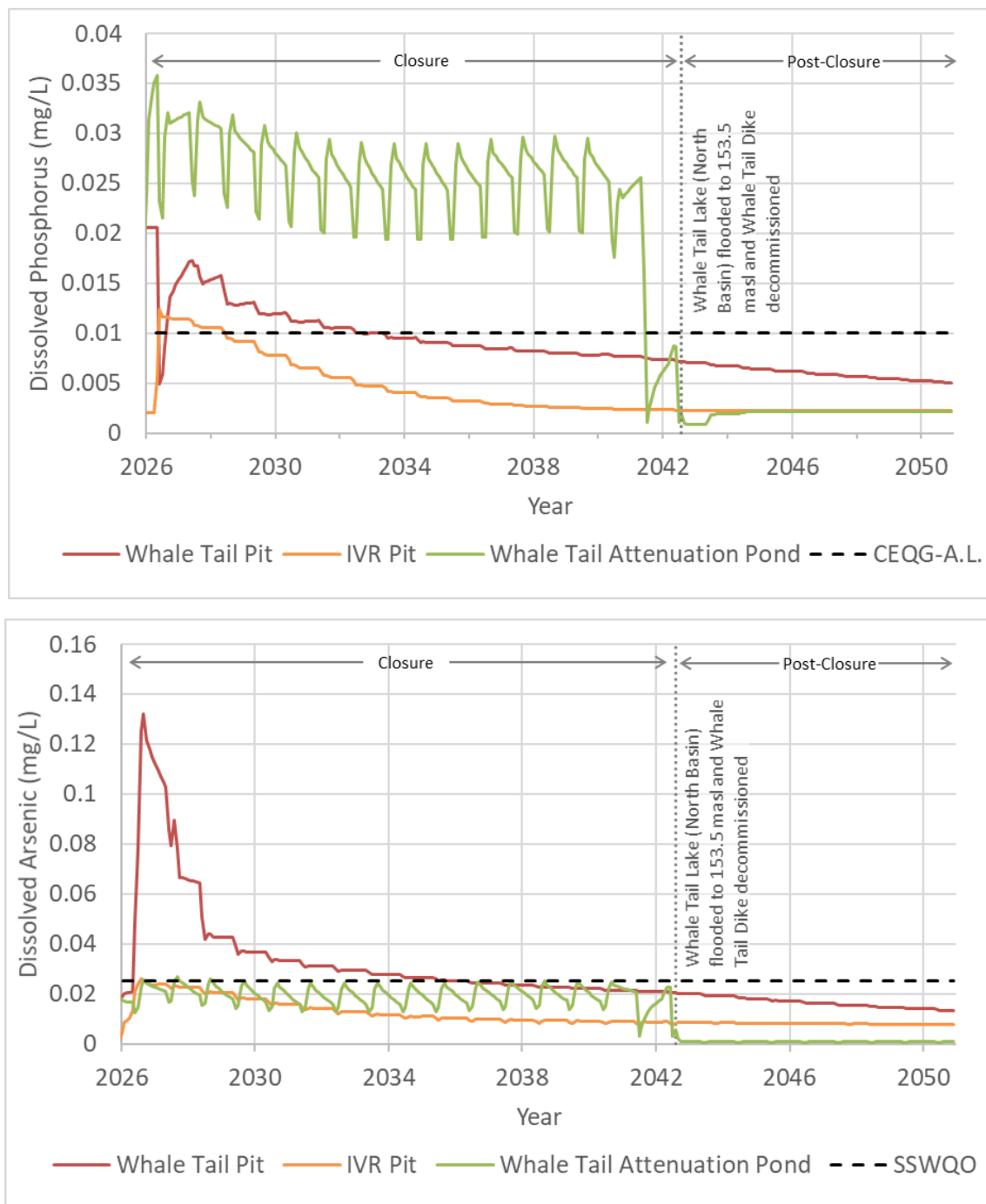


Figure 10: Projected dissolved phosphorus (a) and dissolved arsenic (b) concentrations for the Whale Tail and IVR Pits, and the Whale Tail Attenuation Pond during closure

4.2.1 Receiving Environment and Downstream Lakes

During flooding, all site discharges to the receiving environment cease and are redirected to the open pits and underground mine until all facilities on site reach a flooded elevation of 153.5 masl (predicted to occur in September 2042). Whale Tail Lake (South Basin) is drawn down to 153.5 masl and flow through the Whale Tail Lake (South Basin) Diversion Channel to Mammoth Lake ceases. During active flooding Mammoth Lake, Whale Tail Lake (South Basin), and all downstream lakes show an improvement in water quality, trending towards baseline values, since only natural runoff enters their systems. Constituent concentrations are rapidly flushed through the system during this time (Figure 11).

The improvement of the Whale Tail Attenuation Pond area of the pit lake results from transfer of Whale Tail Lake (South Basin) water. This does not significantly affect water quality in the Whale Tail pit area of the pit lake.

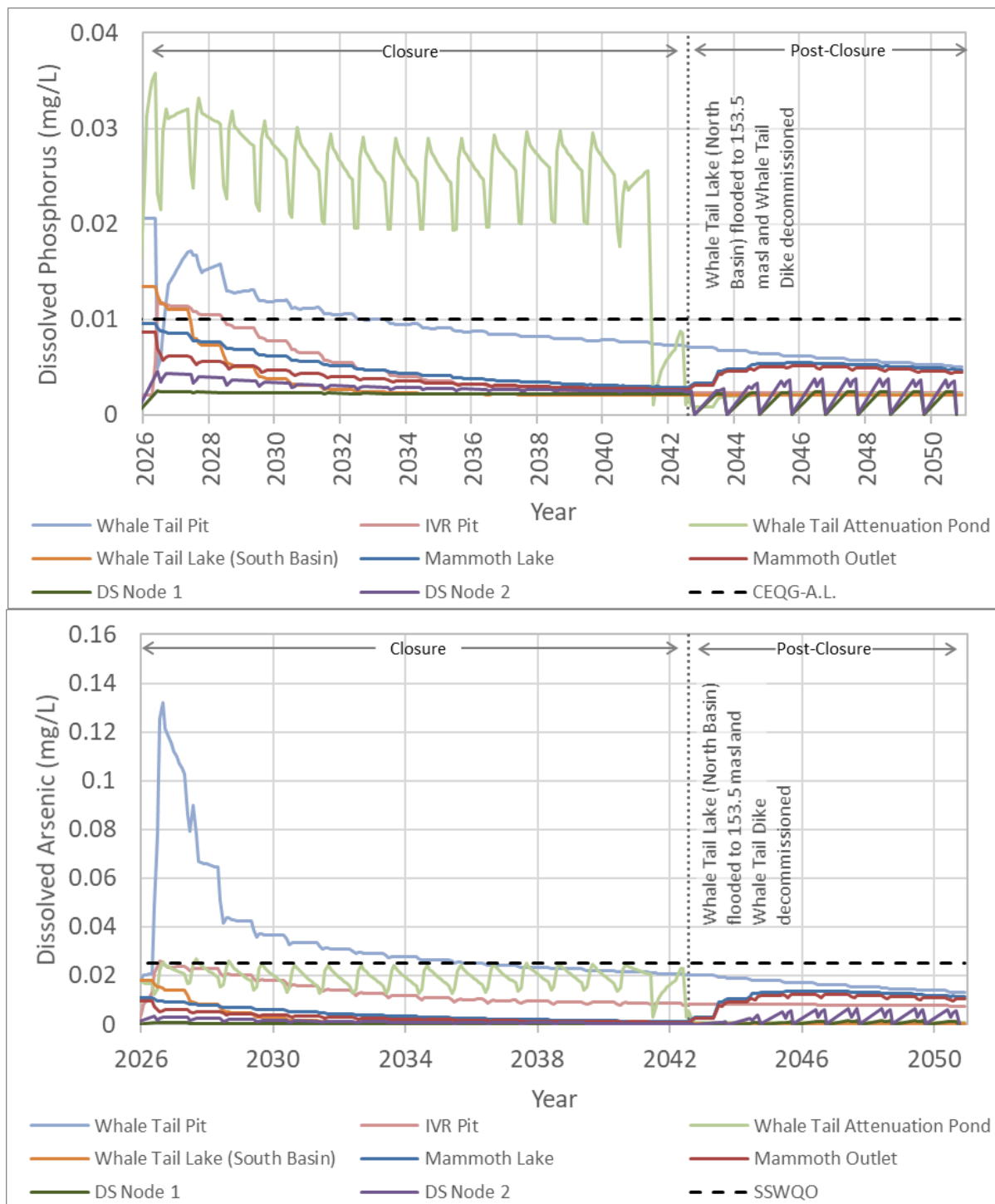


Figure 11: Projected dissolved phosphorus (a) and dissolved arsenic (b) concentrations for the receiving and downstream environment during closure

4.3 Post-Closure

Post-closure occurs when the Whale Tail pit lake is fully flooded and water meets quality objectives, which is predicted to occur prior the completion of flooding, in 2042. At that time, both the Mammoth Dike and the Whale Tail Dike are decommissioned, the Whale Tail North and South basin are reconnected, and water naturally flows over the Mammoth sill into Mammoth Lake from the Whale Tail Lake (North Basin).

Pit Lake

Concentrations of all constituents in all areas of the pit lake are below receiving water quality objectives in post-closure. The two open pits and the Whale Tail Attenuation Pond are connected at the surface and water is exchanged between them. Notwithstanding this, hydrodynamic modelling of the pit lake indicates that there could be slight differences in water quality between the areas of the flooded IVR Pit, the flooded Whale Tail pit and the area of the former Whale Tail Attenuation Pond (Golder 2019e).

Downstream Water Quality

Mammoth Lake and downstream lake water qualities are fully recovered by post-closure, with all concentrations meeting CEQG-AL criteria and arsenic SSWQO, and trending downward in time.

4.4 Effect of Total Suspended Solids on Total Constituent Concentrations

Total metal concentrations for Project discharges were estimated by adding a calculated particulate fraction to the dissolved concentration results from the model. Particulate fractions for the relevant constituents were based on solid phase geochemistry of each rock type, the proportion of each rock type in the final waste rock mass, and an assumed TSS concentration of 15 mg/L in the Project discharge, the maximum monthly average limit in Type A Water Licence Part F Item 4 Whale Tail effluent (NWB 2018).

During operations, the addition of the particulate fraction did not produce any substantial change from the dissolved concentrations for most constituents except aluminum, chromium, and iron, which showed a substantial increase in total concentration. This is expected for aluminum and iron as they were assumed to constitute the bulk of the chemical make up of TSS. Any presence of total aluminum or iron in effluent would be attributed to particulates rather than the dissolved phase given the anticipated neutral pH and oxidative environment of all site surface waters. Calcium and magnesium also comprise an important part of the suspended solids chemical composition, but their concentration is predicted to be elevated such that the additional contribution from TSS does not cause significant change.

Modelled particulate aluminum, chromium, and iron exceed CEQG-AL regardless of dissolved concentrations in the flooded pit lakes. Total concentrations could differ from predicted if TSS in the Expansion Project is lower than 15 mg/L or if the TSS has a different chemical composition, but there is also the potential for the concentrations to be higher depending on the actual composition of the TSS. Table 13 presents modelled particulate concentrations for TSS concentrations of 5 mg/L, 10 mg/L, and 15 mg/L. Total concentrations are calculated by adding these particulate concentrations to the predicted dissolved concentrations for any water being discharged, as well as the Whale Tail Attenuation Pond, Whale Tail Pit, IVR Pit, and Whale Tail WRSF in closure and post-closure.

Table 13: Particulate Concentrations at 5 mg/L, 10 mg/L, and 15 mg/L TSS. Bolded and underlined values reflect exceedances of the CEQG-AL, and shaded values represent exceedances of the effluent quality guideline

Constituent	Unit	Amaruq Effluent Quality Guideline	CEQG-AL	Particulate Concentration Added to Dissolved Concentrations		
				5 mg/L TSS	10 mg/L TSS	15 mg/L TSS
Cl	mg/L		120	0	0	0
F	mg/L		0.12	0.00094	0.0019	0.0028
SO ₄	mg/L			0.016	0.032	0.049
NH ₃	mg/L	16		0	0	0
NO ₃	mg/L		2.93	0	0	0
P	mg/L	0.3	0.01	0.0039	0.0078	<u>0.012</u>
Al	mg/L	0.5	0.1	<u>0.11</u>	<u>0.22</u>	<u>0.33</u>
Sb	mg/L			0.0000054	0.000011	0.000016
As	mg/L	0.1	0.025 ^a	0.0012	0.0024	0.0036
Ba	mg/L			0.0011	0.0022	0.0033
Be	mg/L			0.0000023	0.0000047	0.000007
Bi	mg/L			0.0000008	0.0000016	0.0000024
B	mg/L		1.5	0.000014	0.000028	0.000042
Cd	mg/L	0.002	0.00004	0.00000055	0.0000011	0.0000017
Ca	mg/L			0.092	0.18	0.28
Cr	mg/L	0.02	0.001	<u>0.0027</u>	<u>0.0054</u>	<u>0.0082</u>
Co	mg/L			0.00016	0.00032	0.00048
Cu	mg/L	0.1	0.002	0.00017	0.00034	0.0005
Fe	mg/L	1	0.3	0.23	<u>0.46</u>	<u>0.7</u>
Pb	mg/L	0.05	0.001	0.000044	0.000087	0.00013
Li	mg/L			0.000098	0.0002	0.00029
Mg	mg/L			0.13	0.27	0.4
Mn	mg/L			0.0037	0.0074	0.011
Hg	mg/L	0.004	0.000026	2.3E-08	4.5E-08	6.8E-08
Mo	mg/L		0.073	0.000007	0.000014	0.000021

Constituent	Unit	Amaruq Effluent Quality Guideline	CEQG-AL	Particulate Concentration Added to Dissolved Concentrations		
				5 mg/L TSS	10 mg/L TSS	15 mg/L TSS
Ni	mg/L	0.25	0.025	0.0012	0.0024	0.0036
K	mg/L			0.057	0.11	0.17
Se	mg/L		0.001	0.0000015	0.000003	0.0000045
Ag	mg/L		0.00025	0.000007	0.000014	0.000021
Na	mg/L			0.0015	0.003	0.0044
Sr	mg/L			0.00045	0.00089	0.0013
Tl	mg/L		0.0008	0.0000018	0.0000037	0.0000055
Sn	mg/L			0.0000024	0.0000048	0.0000072
U	mg/L		0.015	0.0000056	0.000011	0.000017
V	mg/L			0.0003	0.00059	0.00089
Zn	mg/L	0.1	0.007	0.00024	0.00049	0.00073

Notes: ^a Arsenic is compared to the SSWQO of 0.025 mg/L.

This sensitivity analysis suggests that the presence of suspended solids to a maximum concentration of 15 mg/L is not likely to affect trace constituent concentrations such as arsenic because the concentration in the original mass is too low to result in a significant change in constituent concentrations. Conversely, rock forming elements such as iron, aluminum, potassium, magnesium and calcium can impart a measurable concentration to the total constituent concentration. Aluminum, iron and phosphorus maximum contributions from TSS are close to their effluent limit values. This exercise informs the need for TSS control in order to meet effluent criteria for these constituents. TSS control will occur at the discharge point during operation via the C-WTP and O-WTP as well as the S-WTP.

5.0 CONCLUSIONS

The Expansion Project water quality model submitted to Nunavut Impact Review Board for impact assessment in 2018 has been updated to include refined input parameters and assumptions related to the loadings of arsenic and phosphorus, which are the constituents of environmental interest at the site. The additional investigations and modifications to the site layout completed since 2018 were aimed at more accurately predicting the load of arsenic and phosphorus to site waters and increase understanding of potential water quality impacts to the receiving environment to support updates to water management planning.

The updated model incorporates results from the following investigations and modifications completed since 2018:

- Hydrological assessment of WRSF to refine runoff and seepage flow estimates
- Hydrogeological inflows to the Whale Tail Pit and underground facilities
- Watershed delineation refinement
- More realistic arsenic and phosphorus mass release rate from mine rock
- Waste rock phosphorus load assessment
- Updated water treatment limits for phosphorus for the STP and O-WTP based on enhanced understanding of the treatment units
- Updated STP effluent treatment rate

These refinements and modifications show a positive effect on water quality; they have effectively decreased the arsenic and phosphorus loads to the receiving environment throughout mine life. During operation, constituent loads coming from the WRSF and the open pits, which report to the Attenuation Ponds, are lower.

At closure and post-closure, flooded pit water quality is predicted to meet receiving water quality criteria upon full flooding. Arsenic release from submerged Whale Tail and IVR Pit walls is anticipated to be a relatively short-lived source to the flooded pit lakes and is predicted to have minimal effect on the quality of the pit lake in the long term. Updated predictions indicate that breaching of dikes would be possible in 2042, earlier than previously predicted.

5.1 Water Management Considerations

The following water management considerations aim to provide operational flexibility and control on constituent release from the mine to minimize risks to receiving environment water quality and to update adaptive management strategies developed for the Approved Project.

- A third groundwater storage pond is planned to manage underground water, while only two GSPs will be sufficient based on the hydrogeological model results. The additional water storage volume will improve flexibility in water management and could have a positive effect on effluent discharge (capacity to manage higher groundwater inflows and optimize water treatment process).
- The small volume of Mammoth Lake is sensitive to the effluent flow volume and quality discharged from the Project during operations and overflow water quality from Whale Tail Lake (North Basin) in post-closure. Whale Tail Lake (South Basin) also shows some sensitivity but is a larger water body with more attenuating capacity than Mammoth Lake. Alternative discharge locations are currently being considered in the event there is a need to further decrease the chemical load to Mammoth Lake and Whale Tail Lake South Basin water quality.

- Monitoring and forecast predictions on water quality of the GSP and IVR Attenuation Pond will assist in evaluating whether a waste rock backfill is required at closure.
- Treated limits may be improved through optimization of the efficiency of the treatment plants. Should water treatment be more effective and treat to lower levels, then receiving water quality will be improved in the short and long-term.
- Per the Water Quality and Flow Monitoring Plan, site water quality monitoring will be carried out during construction, operations, closure, and post-closure. This information will be used to validate and update the mass load inputs to the site water quality model and calibrate forecasted water qualities. As per NWB Type A Water Licence Part E Item 7 and 8 requirements, the site wide water balance and water quality model, as well as the pit-reflooding model and post-closure downstream environment model, will be updated as part of the annual water management plan, and waste and water management plans will be updated to ensure that environmental performance criteria are met and to optimize open pit flooding process and water quality during closure.

6.0 CLOSURE

Should you have any questions regarding this report, please do not hesitate to contact the undersigned.

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APPENDIX A

Geochemical Source Terms and Water Quality Inputs

Constituents	Whale Tail Lake	Natural Runoff	Mammoth Lake	Nemo Lake	Watershed A	Deep Groundwater	Shallow Groundwater
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Acidity	0	0	0	0	0	0	0
Alkalinity	4.5	4.9	5.2	7.5	5.6	43	102
Sulphate	1.4	1.4	2.3	3.3	2.1	46	46
Calcium	2.1	1.8	3.1	2.3	1.9	1,037	73
Chloride	2.6	2.3	4.2	0.56	1.2	2,477	255
Fluoride	0.026	0.032	0.026	0.024	0.027	0.67	0.37
Mercury	0.000005	0.000005	0.0000051	0.000005	0.000005	0.0022	0.000005
Silver	0.00001	0.00001	0.00001	0.00001	0.00001	0.0001	0.000025
Aluminum	0.0053	0.019	0.0034	0.0017	0.0037	0.006	0.04
Arsenic	0.00015	0.00019	0.00035	0.00028	0.00017	0.0034	0.003
Barium	0.0041	0.0048	0.0059	0.0042	0.0055	0.29	0.13
Beryllium	0.00002	0.00002	0.00002	0.00002	0.00002	0.0005	0.0001
Boron	0.01	0.01	0.010	0.010	0.01	0.54	0.46
Bismuth	0.00005	0.00005	0.00005	0.00005	0.00005	0.0005	0.0001
Cadmium	0.000005	0.000005	0.000005	0.000005	0.0000052	0.000024	0.00012
Cobalt	0.0001	0.0001	0.0001	0.0001	0.0001	0.0017	0.0018
Chromium	0.0001	0.0002	0.0001	0.0001	0.0001	0.0068	0.0012
Copper	0.00048	0.00069	0.0004	0.00026	0.0006	0.0048	0.0039
Iron	0.015	0.058	0.010	0.010	0.012	0.16	0.05
Potassium	0.4	0.42	0.59	0.61	0.48	23	6.4
Lithium	0.001	0.001	0.0011	0.001	0.001	0.49	0.018
Magnesium	0.72	0.85	0.94	1.1	0.64	14	30
Manganese	0.0015	0.0021	0.0011	0.0019	0.00066	0.026	0.32
Molybdenum	0.00005	0.00005	0.000051	0.000052	0.000051	0.016	0.027
Nickel	0.00063	0.00096	0.00074	0.00058	0.00054	0.054	0.0058
Phosphorus	0.0021	0.0022	0.0022	0.002	0.0021	0.2	0.2
Lead	0.000054	0.000081	0.000066	0.00009	0.000062	0.0012	0.001
Antimony	0.0001	0.0001	0.0001	0.0001	0.0001	0.0023	0.00028
Selenium	0.00005	0.00005	0.00005	0.00005	0.00005	0.12	0.00075
Strontium	0.014	0.011	0.02	0.0097	0.0084	17	0.62
Tin	0.0001	0.0001	0.0001	0.00011	0.00013	0.0011	0.0001
Thallium	0.00001	0.00001	0.00001	0.00001	0.00001	0.0008	0.00001
Uranium	0.000031	0.000074	0.00002	0.00001	0.000025	0.001	0.0078
Vanadium	0.0005	0.0005	0.0005	0.0005	0.0005	0.0011	0.00053
Zinc	0.0011	0.0012	0.001	0.0011	0.0011	0.87	0.012
Nitrate	0.0051	0.0079	0.0051	0.005	0.0074	0.053	0.13
Sodium	0.55	0.67	0.6	0.51	0.65	311	56
Ammonia	0.0061	0.0055	0.0065	0.0051	0.0053	0.18	0.33

Constituents	Ore	South Greywacke (S3S)	Central Greywacke (S3C)	North Greywacke (S3N)	Chert (S10e)	Iron Formation (SE9)	Komatiite (0a)	Komatiite (0b)
	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/mon
Acidity	11	0.073	0.2	0.31	0.19	0.22	0.2	0.19
Alkalinity	5.8	1.2	4.4	2.8	6.2	3.4	3.3	3.8
Sulphate	19	1.6	22	34	34	4.1	2.1	3.2
Calcium	8.6	0.73	8.7	12	13	1.6	1.1	1.3
Chloride	6.1	0.072	0.26	0.33	0.33	0.54	0.29	0.27
Fluoride	0.064	0.0053	0.024	0.027	0.032	0.0074	0.008	0.0098
Mercury	0.0000098	0.00000037	0.00000094	0.00000096	0.00000098	0.00000099	0.000001	0.00000092
Silver	0.000052	0.00000073	0.0000012	0.0000045	0.0000029	0.0000035	0.0000016	0.0000025
Aluminum	0.025	0.0022	0.0024	0.00094	0.00075	0.0017	0.0016	0.0038
Arsenic	0.065	0.0021	0.0014	0.00025	0.0024	0.55	0.52	0.13
Barium	0.0067	0.0011	0.0014	0.00098	0.0025	0.0015	0.0029	0.0038
Beryllium	0.000011	0.00000025	0.00000067	0.00000063	0.00000067	0.00000067	0.00000072	0.00000064
Boron	0.0097	0.001	0.0033	0.0038	0.0055	0.003	0.0025	0.0013
Bismuth	0.000011	0.00000031	0.00000071	0.00000064	0.00000073	0.0000012	0.00000086	0.00000071
Cadmium	0.0000051	0.00000039	0.0000019	0.000016	0.0000047	0.00000033	0.00000056	0.00000048
Cobalt	0.00082	0.0000089	0.000057	0.00034	0.00021	0.000082	0.000088	0.000062
Chromium	0.000069	0.0000045	0.0000037	0.00001	0.0000063	0.000013	0.000021	0.000017
Copper	0.00091	0.000025	0.000055	0.0001	0.000033	0.000042	0.000081	0.000045
Iron	0.24	0.00029	0.0010	0.00081	0.0011	0.00083	0.0014	0.00082
Potassium	3.7	0.54	3.6	2.5	4.7	2.2	1.7	2.0
Lithium	0.0014	0.00015	0.00045	0.00059	0.00052	0.00032	0.00031	0.00051
Magnesium	1.0	0.14	0.65	1.8	1.2	0.49	0.48	0.59
Manganese	0.089	0.00042	0.0097	0.13	0.049	0.0017	0.001	0.0015
Molybdenum	0.0013	0.0002	0.00068	0.00011	0.0003	0.00014	0.00017	0.00043
Nickel	0.031	0.00004	0.00025	0.0013	0.0017	0.0024	0.0012	0.00057
Phosphorus	0.0048	0.00017	0.00038	0.00039	0.00038	0.00048	0.0004	0.0004
Lead	0.000032	0.0000047	0.0000033	0.0000065	0.0000036	0.000002	0.000004	0.0000042
Antimony	0.0017	0.000082	0.00026	0.00012	0.00028	0.0083	0.0046	0.0006
Selenium	0.00017	0.000031	0.00017	0.00026	0.00014	0.000054	0.000085	0.00012
Strontium	0.022	0.0046	0.017	0.023	0.038	0.0095	0.011	0.011
Tin	0.00013	0.000012	0.00018	0.000046	0.000016	0.0000046	0.0000075	0.000014
Thallium	0.000028	0.0000013	0.0000011	0.000002	0.0000014	0.0000013	0.0000045	0.000005
Uranium	0.00004	0.00023	0.00078	0.00039	0.0003	0.000034	0.000081	0.00029
Vanadium	0.00026	0.000074	0.000016	0.0000068	0.0000083	0.00067	0.0011	0.00076
Zinc	0.002	0.000079	0.00019	0.00047	0.00025	0.00019	0.00019	0.00018
Nitrate	0	0	0	0	0	0	0	0
Sodium	1.1	0.064	1.0	0.53	2.1	0.39	0.18	0.17
Ammonia	0	0	0	0	0	0	0	0

Constituents	Basalt (1b)	Diorite (8b)	Gabbro (13)	Overburden	Lake Sediment	Developed Area and Cover Material	Esker Material
	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/yr	mg/kg/mon	mg/kg/mon
Acidity	0.19	2.0	0.19	0	0	0.93	0
Alkalinity	3.9	3.2	3.9	65	254	2.1	112
Sulphate	2.3	1.8	2.3	4.1	170	1.7	8.0
Calcium	1.2	1.1	1.2	2.1	35	0.89	2.8
Chloride	0.19	0.98	0.19	7.1	15	0.48	0
Fluoride	0.018	0.059	0.018	0.89	1.6	0.029	0
Mercury	0.00000091	0.0000098	0.00000091	0.000058	0.00004	0.0000046	0.00004
Silver	0.0000022	0.0000028	0.0000022	0.000042	0.00024	0.0000017	0.00015
Aluminum	0.0028	0.039	0.0028	2.6	2.5	0.019	3.4
Arsenic	0.068	0.0048	0.068	0.014	0.7	0.0033	0.009
Barium	0.0094	0.0023	0.0094	0.033	0.48	0.0016	0.029
Beryllium	0.00000064	0.0000069	0.00000064	0.00017	0.00015	0.0000032	0.000074
Boron	0.0014	0.0017	0.0014	0.16	2.2	0.0013	1.5
Bismuth	0.00000065	0.0000069	0.00000065	0.000063	0.00014	0.0000033	0.00003
Cadmium	0.00000066	0.0000031	0.00000066	0.000022	0.00054	0.0000016	0.000043
Cobalt	0.000049	0.00015	0.000049	0.0028	0.041	0.000074	0.004
Chromium	0.000036	0.000029	0.000036	0.01	0.019	0.000016	0.015
Copper	0.00012	0.00021	0.00012	0.015	0.05	0.00011	0.011
Iron	0.001	0.0074	0.001	2.9	6.5	0.0035	2.5
Potassium	2.0	1.0	2.0	2.0	8.5	0.76	5.4
Lithium	0.00075	0.00063	0.00075	0.0048	0.019	0.00036	0.003
Magnesium	0.54	0.13	0.54	1.2	7.1	0.14	1.6
Manganese	0.0013	0.0048	0.0013	0.069	12	0.0024	0.15
Molybdenum	0.00051	0.0013	0.00051	0.0014	0.0014	0.0007	0.0026
Nickel	0.00041	0.0003	0.00041	0.0096	0.48	0.00016	0.0092
Phosphorus	0.0018	0.00058	0.0018	0.13	0.77	0.00036	0
Lead	0.000016	0.000021	0.000016	0.0024	0.014	0.000012	0.0039
Antimony	0.00043	0.00038	0.00043	0.0017	0.0077	0.00021	0.0031
Selenium	0.00061	0.000075	0.00061	0.00063	0.0048	0.000051	0.004
Strontium	0.019	0.0031	0.019	0.011	0.18	0.0039	0.0067
Tin	0.000024	0.00011	0.000024	0.00021	0.00099	0.000054	0.00017
Thallium	0.000004	0.0000052	0.000004	0.000021	0.000073	0.000003	0.000046
Uranium	0.00032	0.00043	0.00032	0.0024	0.0027	0.00032	0.0005
Vanadium	0.0018	0.00052	0.0018	0.0047	0.0039	0.00028	0.0054
Zinc	0.00018	0.002	0.00018	0.0086	0.027	0.00093	0.011
Nitrate	0	0	0	0	2.4	0	0
Sodium	0.18	0.1	0.18	35	148	0.082	39
Ammonia	0	0	0	0	0	0	0

APPENDIX B

Lithological Proportions and Areas for Waste Rock Storage Facilities and Pit Wall Exposures

Table B-1: Whale Tail WRSF Annual Proportions (%)

Lithology / Material Type	2017	2018	2019	2020	2021	2022	2023	2024	2025
PAG and/or Moderate to High Arsenic Leachability Waste¹									
Gabbro (I3)	0	0	0	0	0	0	0	0	0
Chert (S10) ²	0	19	17	18	16	12	8.3	15	0
Greywacke North (S3N)	0	0	11	9.2	7.7	6.6	12	0.6	0
Central Greywacke (S3C)	0	5.7	9.4	3.5	5.0	6.8	4.8	7.7	0
Iron Formation (SE9)	0	0	10	16	22	20	15	6.2	0
Ultramafic (0b)	0	0	17	18	24	14	35	31	0
Ultramafic (0a) ³	34	6.2	4.3	12	12	18	14	18	0
Basalt (1b)	0.29	12	8.0	13	13	22	9.9	21	0
Overburden	65	57	23	9.9	0	0	0	0	0
NPAG and/or Low Arsenic Leachability Waste⁴									
Diorite (8b)	31	0	20	46	49	47	38	14	0
Greywacke North (S3N)	0	0	23	8.7	8.7	4.4	11	1.2	0
South Greywacke (S3S)	69	100	56	45	43	49	51	85	0

Notes:

1. Proportions applied to PAG and/or moderate to high arsenic leachability waste stockpile within the Whale Tail WRSF.
2. Includes Chert Central (S10C) and Chert zone R (S10R)
3. Includes Non-Defined Waste
4. Proportions applied to NPAG and/or low arsenic leachability waste stockpile.

Table B-2: IVR WRSF Annual Proportions (%)

Lithology / Material Type	2017	2018	2019	2020	2021	2022	2023	2024	2025
Gabbro (I3)	0	0	0	0	0.016	0.86	48	46	34
Chert (S10) ¹	0	0	0	0.74	0.046	0.14	0.38	1.5	2.0
Greywacke North (S3N)	0	0	0	1.0	0.19	0.65	2.6	4.7	4.2
Central Greywacke (S3C)	0	0	0	0.0067	9.8	4.5	0	0.018	0
Iron Formation (SE9)	0	0	0	0	0	0	0	0	0
Ultramafic (0b)	0	0	0	40	32	79	27	38	57
Ultramafic (0a) ²	0	0	0	15	31	8.5	8.0	9.8	3.5
Basalt (1b)	0	0	0	0	2.1	0.13	0	0	0
Overburden	0	0	0	44	25	5.9	14	0	0
Diorite (8b)	0	0	0	0	0	0	0	0	0
South Greywacke (S3S)	0	0	0	0	0	0	0	0	0

Notes:

1. Includes Chert Central (S10C) and Chert zone R (S10R)

2. Includes Non-Defined Waste

Table B-3: Underground WRSF Annual Proportions (%)

Lithology / Material Type	2017	2018	2019	2020	2021	2022	2023	2024	2025
Gabbro (I3)	0	0	0	0	0	0.0001	0	0	0
Chert (S10) ¹	0	0	0	1.9	23	19	4.3	18	0
Greywacke North (S3N)	0	0	0	0	0.32	0.00028	2.4	0	0
Central Greywacke (S3C)	0	0	0	0	1.6	3.0	0.039	0.24	0
Iron Formation (SE9)	0	0	0	0	2.2	1.8	1.2	6.5	0
Ultramafic (0b)	0	0	0	0	2.8	2.2	4.5	8.9	0
Ultramafic (0a) ²	0	0	0	5.0	13	8.3	8.6	21	0
Basalt (1b)	0	0	0.021	9.4	8.3	2.6	3.1	4.7	0
Overburden	0	0	0	0	0	0	0	0	0
Diorite (8b)	0	100	100	84	48	59	71	41	0
South Greywacke (S3S)	0	0	0	0	0.69	4.3	5.3	0	0

Notes:

1. Includes Chert Central (S10C) and Chert zone R (S10R)

2. Includes Non-Defined Waste

Table B-4: Footprint areas (m²) for the Whale Tail WRSF, Marginal Ore Pile, NPAG/NML Stockpile, IVR WRSF, and Underground WRSF

Year	Whale Tail WRSF	Marginal Ore Pile	NPAG/NML Stockpile	IVR WRSF	Underground WRSF
2018	0	0	0	0	11,461
2019	479,610	23,659	0	0	18,149
2020	744,624	92,590	70,048	214,277	37,627
2021	1,101,085	92,590	70,048	214,278	37,627
2022	1,101,514	92,590	199,360	214,278	37,627
2023	1,101,514	92,590	199,360	784,110	37,627
2024	1,101,514	92,590	199,360	784,110	37,627
2025	1,101,514	92,590	199,360	784,110	0

Table B-5: 3D surface areas (m²) for the Whale Tail WRSF, Marginal Ore Pile, NPAG/NML Stockpile, IVR WRSF, and Underground WRSF

Year	Whale Tail WRSF	Marginal Ore Pile	NPAG/NML Stockpile	IVR WRSF	Underground WRSF
2018	0	0	0	0	12,182
2019	507,278	24,625	0	0	19,160
2020	784,849	99,480	76,830	219,159	39,415
2021	1,156,766	99,485	76,830	238,837	40,937
2022	1,181,255	101,977	217,528	238,837	43,335
2023	1,190,874	102,937	217,528	816,420	41,351
2024	1,210,331	104,457	217,528	819,175	39,643
2025	1,212,523	104,592	217,528	820,404	0

Table B-6: Exposed pit wall proportions (%) by lithology for Whale Tail and IVR Pits

Lithology / Material Type	Whale Tail Pit	IVR Pit
Gabbro (I3)	0	22
Chert (S10) ¹	8.1	2.0
Greywacke North (S3N)	17	6.0
Central Greywacke (S3C)	7.3	1.8
Iron Formation (SE9)	5.7	0
Ultramafic (Ob)	17	55
Ultramafic (Oa) ²	5.8	14
Basalt (1b)	6.6	0
Overburden ³	0	0
Diorite (8b)	16	0
South Greywacke (S3S)	16	0

Notes:

1. Includes Chert Central (S10C) and Chert zone R (S10R)
2. Includes Non-Defined Waste
3. In the pit wall, the overburden is pushed back from the pit wall and does not contribute chemical load to the runoff flowing into the Whale Tail Pit.

APPENDIX C

Site and Downstream Water Quality Model Results

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1				0.002		
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁶	Ca
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Waste Rock Storage Facility Pond	Construction and Operations	July	2018	17	0.0047	7.4	2.6	0.066	1.9	0.019	0.54	0.0072	0.0003	0.00022	0.007	0.0061	0.000026	0.000052	0.016	0.0000058	2.0
		August		20	0.011	11	2.9	0.11	2.5	0.0056	0.012	0.014	0.0003	0.00037	0.015	0.0079	0.000034	0.000055	0.024	0.000007	2.3
		September		15	0.0051	7.5	2.6	0.067	1.9	0.0055	0.0087	0.0073	0.0003	0.00021	0.006	0.0062	0.000026	0.000052	0.016	0.0000059	2.0
		October		15	0.0057	7.8	2.6	0.071	2.0	0.0055	0.0087	0.0078	0.0003	0.00022	0.0062	0.0063	0.000027	0.000053	0.017	0.000006	2.1
		November		15	0.0057	7.8	2.6	0.071	2.0	0.0055	0.0087	0.0078	0.0003	0.00022	0.0062	0.0063	0.000027	0.000053	0.017	0.000006	2.1
		December		15	0.0057	7.8	2.6	0.071	2.0	0.0055	0.0087	0.0078	0.0003	0.00022	0.0062	0.0063	0.000027	0.000053	0.017	0.000006	2.1
		January	2019	15	0.0057	7.8	2.6	0.071	2.0	0.0055	0.0087	0.0078	0.0003	0.00022	0.0062	0.0063	0.000027	0.000053	0.017	0.000006	2.1
		February		15	0.0057	7.8	2.6	0.071	2.0	0.0055	0.0087	0.0078	0.0003	0.00022	0.0062	0.0063	0.000027	0.000053	0.017	0.000006	2.1
		March		15	0.0057	7.8	2.6	0.071	2.0	0.0055	0.0087	0.0078	0.0003	0.00022	0.0062	0.0063	0.000027	0.000053	0.017	0.000006	2.1
		April		15	0.0057	7.8	2.6	0.071	2.0	0.0055	0.0087	0.0078	0.0003	0.00022	0.0062	0.0063	0.000027	0.000053	0.017	0.000006	2.1
		May		15	0.0057	7.8	2.6	0.071	2.0	0.0055	0.0087	0.0078	0.0003	0.00022	0.0062	0.0063	0.000027	0.000053	0.017	0.000006	2.1
		June		19	0.028	9.1	2.7	0.087	3.1	0.0066	0.052	0.01	0.0003	0.00032	0.011	0.007	0.00003	0.000054	0.02	0.0000066	2.5
		July		166	0.63	84	11	1.0	36	0.0063	0.041	0.15	0.0003	0.0045	0.24	0.047	0.0002	0.00012	0.19	0.000035	16
		August		139	0.59	68	9.0	0.84	31	0.0061	0.035	0.12	0.0003	0.0039	0.21	0.039	0.00016	0.00011	0.16	0.000029	14
		September		48	0.19	23	4.2	0.26	11	0.0056	0.014	0.034	0.0003	0.0013	0.068	0.014	0.00006	0.000066	0.051	0.000012	5.5
		October		46	0.2	22	4.0	0.24	10	0.0056	0.013	0.032	0.0003	0.0012	0.068	0.014	0.000057	0.000065	0.048	0.000012	5.4
		November		46	0.2	22	4.0	0.24	10	0.0056	0.013	0.032	0.0003	0.0012	0.068	0.014	0.000057	0.000065	0.048	0.000012	5.4
		December		46	0.2	22	4.0	0.24	10	0.0056	0.013	0.032	0.0003	0.0012	0.068	0.014	0.000057	0.000065	0.048	0.000012	5.4
		January	2020	46	0.2	22	4.0	0.24	10	0.0056	0.013	0.032	0.0003	0.0012	0.068	0.014	0.000057	0.000065	0.048	0.000012	5.4
		February		46	0.2	22	4.0	0.24	10	0.0056	0.013	0.032	0.0003	0.0012	0.068	0.014	0.000057	0.000065	0.048	0.000012	5.4
		March		46	0.2	22	4.0	0.24	10	0.0056	0.013	0.032	0.0003	0.0012	0.068	0.014	0.000057	0.000065	0.048	0.000012	5.4
		April		46	0.2	22	4.0	0.24	10	0.0056	0.013	0.032	0.0003	0.0012	0.068	0.014	0.000057	0.000065	0.048	0.000012	5.4
		May		46	0.2	22	4.0	0.24	10	0.0056	0.013	0.032	0.0003	0.0012	0.068	0.014	0.000057	0.000065	0.048	0.000012	5.4
		June		33	0.19	13	3.1	0.13	8.6	0.010	0.19	0.015	0.0003	0.0012	0.08	0.0095	0.000036	0.000056	0.027	0.0000087	4.6
		July		409	3.7	153	18	1.7	137	0.0087	0.14	0.23	0.0003	0.022	1.6	0.091	0.00031	0.00017	0.31	0.000073	56
		August		335	3.1	123	15	1.4	114	0.0081	0.11	0.18	0.0003	0.019	1.4	0.074	0.00024	0.00014	0.25	0.00006	46
		September		106	0.95	39	5.8	0.41	35	0.006	0.03	0.052	0.0003	0.0058	0.44	0.025	0.000083	0.000076	0.077	0.000021	15
		October		101	0.92	37	5.6	0.39	34	0.006	0.029	0.048	0.0003	0.0057	0.43	0.024	0.000079	0.000075	0.072	0.00002	15
		November		101	0.92	37	5.6	0.39	34	0.006	0.029	0.048	0.0003	0.0057	0.43	0.024	0.000079	0.000075	0.072	0.00002	15
		December		101	0.92	37	5.6	0.39	34	0.006	0.029	0.048	0.0003	0.0057	0.43	0.024	0.000079	0.000075	0.072	0.00002	15
		January	2021	101	0.92	37	5.6	0.39	34	0.006	0.029	0.048	0.0003	0.0057	0.43	0.024	0.000079	0.000075	0.072	0.00002	15
		February		101	0.92	37	5.6	0.39	34	0.006	0.029	0.048	0.0003	0.0057	0.43	0.024	0.000079	0.000075	0.072	0.00002	15
		March		101	0.92	37	5.6	0.39	34	0.006	0.029	0.048	0.0003	0.0057	0.43	0.024	0.000079	0.000075	0.072	0.00002	15
		April		101	0.92	37	5.6	0.39	34	0.006	0.029	0.048	0.0003	0.0057	0.43	0.024	0.000079	0.000075	0.072	0.00002	15
		May		101	0.92	37	5.6	0.39	34	0.006	0.029	0.048	0.0003	0.0057	0.43	0.024	0.000079	0.000075	0.072	0.00002	15
		June		47	0.53	15	3.2	0.12	16	0.016	0.43	0.012	0.0003	0.0031	0.25	0.011	0.000033	0.000055	0.025	0.00001	7.6
		July		583	9.2	155	18	1.3	249	0.012	0.29	0.14	0.0003	0.052	4.2	0.11	0.0002	0.00014	0.22	0.000086	100
		August		431	7.1	111	13	0.91	187	0.01	0.21	0.089	0.0003	0.04	3.2	0.08	0.00014	0.00011	0.15	0.000064	75
		September		122	2.0	32	5.1	0.24	52	0.0064	0.047	0.021	0.0003	0.011	0.9	0.024	0.000047	0.000065	0.043	0.00002	22
		October		111	1.8	28	4.7	0.21	47	0.0063	0.042	0.017	0.0003	0.01	0.82	0.022	0.000042	0.000063	0.037	0.000019	20
		November		111	1.8	28	4.7	0.21	47	0.0063	0.042	0.017	0.0003	0.01	0.82	0.022	0.000042	0.000063	0.037	0.000019	20
		December		111	1.8	28	4.7	0.21	47	0.0063	0.042	0.017	0.0003	0.01	0.82	0.022	0.000042	0.000063	0.037	0.000019	20

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.02		0.1	1.0	0.05				0.004		0.25										0.1
Constituent				Cr ⁵	Co	Cu ⁶	Fe	Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Waste Rock Storage Facility Pond	Construction and Operations	July	2018	0.00058	0.00021	0.0013	0.06	0.00017	0.0012	0.91	0.005	0.0000072	0.00011	0.0013	0.56	0.000078	0.000012	2.0	0.012	0.000011	0.00011	0.00017	0.00069	0.0015
		August		0.0011	0.00035	0.002	0.06	0.00029	0.0014	0.99	0.009	0.00001	0.00019	0.0019	0.75	0.00012	0.000014	3.8	0.013	0.000012	0.00012	0.00029	0.00095	0.0019
		September		0.00059	0.00021	0.0013	0.06	0.00017	0.0012	0.91	0.0052	0.0000072	0.00011	0.0014	0.58	0.00008	0.000012	2.0	0.012	0.000011	0.00011	0.00017	0.0007	0.0015
		October		0.00064	0.00022	0.0013	0.06	0.00018	0.0012	0.92	0.0056	0.0000075	0.00012	0.0014	0.59	0.000083	0.000012	2.2	0.012	0.000011	0.00011	0.00018	0.00072	0.0015
		November		0.00064	0.00022	0.0013	0.06	0.00018	0.0012	0.92	0.0056	0.0000075	0.00012	0.0014	0.59	0.000083	0.000012	2.2	0.012	0.000011	0.00011	0.00018	0.00072	0.0015
		December		0.00064	0.00022	0.0013	0.06	0.00018	0.0012	0.92	0.0056	0.0000075	0.00012	0.0014	0.59	0.000083	0.000012	2.2	0.012	0.000011	0.00011	0.00018	0.00072	0.0015
		January	2019	0.00064	0.00022	0.0013	0.06	0.00018	0.0012	0.92	0.0056	0.0000075	0.00012	0.0014	0.59	0.000083	0.000012	2.2	0.012	0.000011	0.00011	0.00018	0.00072	0.0015
		February		0.00064	0.00022	0.0013	0.06	0.00018	0.0012	0.92	0.0056	0.0000075	0.00012	0.0014	0.59	0.000083	0.000012	2.2	0.012	0.000011	0.00011	0.00018	0.00072	0.0015
		March		0.00064	0.00022	0.0013	0.06	0.00018	0.0012	0.92	0.0056	0.0000075	0.00012	0.0014	0.59	0.000083	0.000012	2.2	0.012	0.000011	0.00011	0.00018	0.00072	0.0015
		April		0.00064	0.00022	0.0013	0.06	0.00018	0.0012	0.92	0.0056	0.0000075	0.00012	0.0014	0.59	0.000083	0.000012	2.2	0.012	0.000011	0.00011	0.00018	0.00072	0.0015
		May		0.00064	0.00022	0.0013	0.06	0.00018	0.0012	0.92	0.0056	0.0000075	0.00012	0.0014	0.59	0.000083	0.000012	2.2	0.012	0.000011	0.00011	0.00018	0.00072	0.0015
		June		0.00081	0.00028	0.0016	0.06	0.00023	0.0013	0.99	0.0085	0.0000085	0.00017	0.0016	0.8	0.00011	0.000013	2.8	0.014	0.000011	0.00012	0.00024	0.00083	0.0017
		July		0.011	0.0035	0.017	0.06	0.0028	0.0072	3.7	0.13	0.000071	0.0024	0.013	8.0	0.0011	0.000061	41	0.061	0.000038	0.00041	0.0033	0.0067	0.011
		August		0.009	0.0028	0.014	0.06	0.0022	0.006	3.3	0.11	0.000057	0.002	0.011	6.9	0.00093	0.000051	32	0.054	0.000033	0.00036	0.0027	0.0055	0.0092
		September		0.0027	0.00086	0.0043	0.06	0.00067	0.0024	1.6	0.033	0.00002	0.00062	0.0038	2.4	0.0003	0.000022	9.6	0.024	0.000016	0.00018	0.00083	0.0019	0.0034
		October		0.0025	0.0008	0.0041	0.06	0.00062	0.0023	1.5	0.032	0.000019	0.0006	0.0036	2.3	0.00029	0.000021	8.9	0.024	0.000016	0.00017	0.00079	0.0018	0.0033
		November		0.0025	0.0008	0.0041	0.06	0.00062	0.0023	1.5	0.032	0.000019	0.0006	0.0036	2.3	0.00029	0.000021	8.9	0.024	0.000016	0.00017	0.00079	0.0018	0.0033
		December		0.0025	0.0008	0.0041	0.06	0.00062	0.0023	1.5	0.032	0.000019	0.0006	0.0036	2.3	0.00029	0.000021	8.9	0.024	0.000016	0.00017	0.00079	0.0018	0.0033
		January	2020	0.0025	0.0008	0.0041	0.06	0.00062	0.0023	1.5	0.032	0.000019	0.0006	0.0036	2.3	0.00029	0.000021	8.9	0.024	0.000016	0.00017	0.00079	0.0018	0.0033
		February		0.0025	0.0008	0.0041	0.06	0.00062	0.0023	1.5	0.032	0.000019	0.0006	0.0036	2.3	0.00029	0.000021	8.9	0.024	0.000016	0.00017	0.00079	0.0018	0.0033
		March		0.0025	0.0008	0.0041	0.06	0.00062	0.0023	1.5	0.032	0.000019	0.0006	0.0036	2.3	0.00029	0.000021	8.9	0.024	0.000016	0.00017	0.00079	0.0018	0.0033
		April		0.0025	0.0008	0.0041	0.06	0.00062	0.0023	1.5	0.032	0.000019	0.0006	0.0036	2.3	0.00029	0.000021	8.9	0.024	0.000016	0.00017	0.00079	0.0018	0.0033
		May		0.0025	0.0008	0.0041	0.06	0.00062	0.0023	1.5	0.032	0.000019	0.0006	0.0036	2.3	0.00029	0.000021	8.9	0.024	0.000016	0.00017	0.00079	0.0018	0.0033
		June		0.0012	0.00044	0.0022	0.06	0.00032	0.0017	1.3	0.022	0.000011	0.00041	0.0024	1.9	0.0002	0.000015	4.4	0.021	0.000013	0.00014	0.00047	0.0012	0.0022
		July		0.017	0.0061	0.026	0.06	0.0042	0.014	10	0.36	0.00012	0.0066	0.028	29	0.0029	0.00011	66	0.2	0.000075	0.00081	0.0071	0.014	0.019
		August		0.014	0.0049	0.021	0.06	0.0033	0.012	8.8	0.29	0.000095	0.0054	0.023	24	0.0024	0.000088	52	0.17	0.000063	0.00067	0.0057	0.012	0.016
		September		0.004	0.0015	0.0064	0.06	0.00099	0.0041	3.2	0.088	0.00003	0.0016	0.0073	7.6	0.00074	0.000032	15	0.06	0.000025	0.00027	0.0017	0.0038	0.0053
		October		0.0037	0.0014	0.006	0.06	0.00092	0.0039	3.1	0.084	0.000029	0.0016	0.007	7.4	0.00072	0.000031	14	0.059	0.000025	0.00026	0.0016	0.0036	0.005
		November		0.0037	0.0014	0.006	0.06	0.00092	0.0039	3.1	0.084	0.000029	0.0016	0.007	7.4	0.00072	0.000031	14	0.059	0.000025	0.00026	0.0016	0.0036	0.005
		December		0.0037	0.0014	0.006	0.06	0.00092	0.0039	3.1	0.084	0.000029	0.0016	0.007	7.4	0.00072	0.000031	14	0.059	0.000025	0.00026	0.0016	0.0036	0.005
		January	2021	0.0037	0.0014	0.006	0.06	0.00092	0.0039	3.1	0.084	0.000029	0.0016	0.007	7.4	0.00072	0.000031	14	0.059	0.000025	0.00026	0.0016	0.0036	0.005
		February		0.0037	0.0014	0.006	0.06	0.00092	0.0039	3.1	0.084	0.000029	0.0016	0.007	7.4	0.00072	0.000031	14	0.059	0.000025	0.00026	0.0016	0.0036	0.005
		March		0.0037	0.0014	0.006	0.06	0.00092	0.0039	3.1	0.084	0.000029	0.0016	0.007	7.4	0.00072	0.000031	14	0.059	0.000025	0.00026	0.0016	0.0036	0.005
		April		0.0037	0.0014	0.006	0.06	0.00092	0.0039	3.1	0.084	0.000029	0.0016	0.007	7.4	0.00072	0.000031	14	0.059	0.000025	0.00026	0.0016	0.0036	0.005
		May		0.0037	0.0014	0.006	0.06	0.00092	0.0039	3.1	0.084	0.000029	0.0016	0.007	7.4	0.00072	0.000031	14	0.059	0.000025	0.00026	0.0016	0.0036	0.005
		June		0.00095	0.00046	0.0018	0.06	0.00026	0.002	1.8	0.034	0.000011	0.00072	0.0031	3.8	0.00033	0.000016	3.9	0.033	0.000015	0.00016	0.00063	0.0017	0.0023
		July		0.01	0.0055	0.016	0.06	0.0025	0.017	18	0.51	0.0001	0.011	0.035	57	0.0046	0.00011	46	0.39	0.0001	0.001	0.0089	0.02	0.019
		August		0.0064	0.0038	0.011	0.06	0.0016	0.012	13	0.37	0.000072	0.0085	0.025	43	0.0034	0.000082	31	0.3	0.000079	0.0008	0.0065	0.015	0.013
		September		0.0015	0.001	0.0029	0.06	0.00042	0.004	4.3	0.099	0.000022	0.0023	0.0074	12	0.00094	0.000028	7.7	0.089	0.000028	0.00029	0.0018	0.0042	0.0043
		October		0.0012	0.00089	0.0025	0.06	0.00035	0.0037	3.9	0.089	0.000019	0.0021	0.0066	11	0.00085	0.000026	6.4	0.082	0.000026	0.00027	0.0016	0.0038	0.0039
		November		0.0012	0.00089	0.0025	0.06	0.00035	0.0037	3.9	0.089	0.000019	0.0021	0.0066	11	0.00085	0.000026	6.4	0.082	0.000026	0.00027	0.0016	0.0038	0.0039
		December		0.0012	0.00089	0.0025	0.06	0.00035	0.0037	3.9	0.089	0.000019	0.0021	0.0066	11	0.00085	0.000026	6.4	0.082	0.000026	0.00027	0.0016		

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1				0.002				
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁶	Ca		
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
		January	2022	111	1.8	28	4.7	0.21	47	0.0063	0.042	0.017	0.0003	0.01	0.82	0.022	0.000042	0.000063	0.037	0.000019	20		
		February		111	1.8	28	4.7	0.21	47	0.0063	0.042	0.017	0.0003	0.01	0.82	0.022	0.000042	0.000063	0.037	0.000019	20		
		March		111	1.8	28	4.7	0.21	47	0.0063	0.042	0.017	0.0003	0.01	0.82	0.022	0.000042	0.000063	0.037	0.000019	20		
		April		111	1.8	28	4.7	0.21	47	0.0063	0.042	0.017	0.0003	0.01	0.82	0.022	0.000042	0.000063	0.037	0.000019	20		
		May		111	1.8	28	4.7	0.21	47	0.0063	0.042	0.017	0.0003	0.01	0.82	0.022	0.000042	0.000063	0.037	0.000019	20		
		June		42	0.67	11	2.8	0.067	16	0.017	0.46	0.0035	0.0003	0.0036	0.29	0.010	0.000022	0.000051	0.014	0.0000086	7.5		
		July		490	11	102	12	0.56	233	0.013	0.31	0.018	0.0003	0.057	4.8	0.091	0.000056	0.000089	0.076	0.000064	95		
		August		370	8.3	78	9.9	0.43	174	0.011	0.22	0.014	0.0003	0.043	3.7	0.07	0.000047	0.000079	0.06	0.000049	71		
		September		108	2.3	25	4.4	0.14	48	0.0065	0.049	0.0056	0.0003	0.012	1.0	0.023	0.000028	0.000058	0.023	0.000017	21		
		October		99	2.1	23	4.2	0.13	44	0.0063	0.043	0.0053	0.0003	0.011	0.92	0.021	0.000027	0.000057	0.022	0.000016	19		
		November		99	2.1	23	4.2	0.13	44	0.0063	0.043	0.0053	0.0003	0.011	0.92	0.021	0.000027	0.000057	0.022	0.000016	19		
		December		99	2.1	23	4.2	0.13	44	0.0063	0.043	0.0053	0.0003	0.011	0.92	0.021	0.000027	0.000057	0.022	0.000016	19		
		January	2023	99	2.1	23	4.2	0.13	44	0.0063	0.043	0.0053	0.0003	0.011	0.92	0.021	0.000027	0.000057	0.022	0.000016	19		
		February		99	2.1	23	4.2	0.13	44	0.0063	0.043	0.0053	0.0003	0.011	0.92	0.021	0.000027	0.000057	0.022	0.000016	19		
		March		99	2.1	23	4.2	0.13	44	0.0063	0.043	0.0053	0.0003	0.011	0.92	0.021	0.000027	0.000057	0.022	0.000016	19		
		April		99	2.1	23	4.2	0.13	44	0.0063	0.043	0.0053	0.0003	0.011	0.92	0.021	0.000027	0.000057	0.022	0.000016	19		
		May		99	2.1	23	4.2	0.13	44	0.0063	0.043	0.0053	0.0003	0.011	0.92	0.021	0.000027	0.000057	0.022	0.000016	19		
		June		40	0.73	11	2.8	0.065	15	0.017	0.46	0.0031	0.0003	0.0033	0.28	0.0099	0.000022	0.000051	0.014	0.0000087	7.1		
		July		456	12	98	13	0.58	214	0.013	0.31	0.017	0.0003	0.05	4.4	0.088	0.00006	0.000092	0.072	0.000068	87		
		August		344	9.3	75	10	0.44	161	0.011	0.22	0.013	0.0003	0.037	3.3	0.067	0.000051	0.000082	0.056	0.000054	66		
		September		101	2.6	24	4.4	0.15	44	0.0065	0.049	0.0052	0.0003	0.0099	0.88	0.021	0.000029	0.000059	0.022	0.000018	19		
		October		92	2.3	22	4.2	0.14	40	0.0063	0.043	0.0049	0.0003	0.0089	0.79	0.02	0.000028	0.000058	0.021	0.000017	17		
		November		92	2.3	22	4.2	0.14	40	0.0063	0.043	0.0049	0.0003	0.0089	0.79	0.02	0.000028	0.000058	0.021	0.000017	17		
		December		92	2.3	22	4.2	0.14	40	0.0063	0.043	0.0049	0.0003	0.0089	0.79	0.02	0.000028	0.000058	0.021	0.000017	17		
Whale Tail Waste Rock Storage Facility Pond	Construction and Operations	January	2024	92	2.3	22	4.2	0.14	40	0.0063	0.043	0.0049	0.0003	0.0089	0.79	0.02	0.000028	0.000058	0.021	0.000017	17		
		February		92	2.3	22	4.2	0.14	40	0.0063	0.043	0.0049	0.0003	0.0089	0.79	0.02	0.000028	0.000058	0.021	0.000017	17		
		March		92	2.3	22	4.2	0.14	40	0.0063	0.043	0.0049	0.0003	0.0089	0.79	0.02	0.000028	0.000058	0.021	0.000017	17		
		April		92	2.3	22	4.2	0.14	40	0.0063	0.043	0.0049	0.0003	0.0089	0.79	0.02	0.000028	0.000058	0.021	0.000017	17		
		May		92	2.3	22	4.2	0.14	40	0.0063	0.043	0.0049	0.0003	0.0089	0.79	0.02	0.000028	0.000058	0.021	0.000017	17		
		June		33	1.1	9.8	2.9	0.072	10	0.017	0.46	0.0029	0.0003	0.0019	0.16	0.0091	0.000023	0.000052	0.013	0.0000081	5.6		
		July		312	19	84	14	0.72	131	0.013	0.31	0.015	0.0003	0.024	2.1	0.073	0.000085	0.00012	0.059	0.000055	57		
		August		223	15	63	11	0.57	91	0.011	0.22	0.012	0.0003	0.016	1.4	0.055	0.000072	0.0001	0.046	0.000042	41		
		September		65	4.3	20	4.8	0.18	24	0.0065	0.049	0.0047	0.0003	0.004	0.33	0.018	0.000035	0.000065	0.02	0.000015	12		
		October		58	4.0	19	4.6	0.17	20	0.0063	0.043	0.0045	0.0003	0.0034	0.27	0.017	0.000034	0.000064	0.019	0.000014	10		
		November		58	4.0	19	4.6	0.17	20	0.0063	0.043	0.0045	0.0003	0.0034	0.27	0.017	0.000034	0.000064	0.019	0.000014	10		
		December		58	4.0	19	4.6	0.17	20	0.0063	0.043	0.0045	0.0003	0.0034	0.27	0.017	0.000034	0.000064	0.019	0.000014	10		
		January	2025	58	4.0	19	4.6	0.17	20	0.0063	0.043	0.0045	0.0003	0.0034	0.27	0.017	0.000034	0.000064	0.019	0.000014	10		
		February		58	4.0	19	4.6	0.17	20	0.0063	0.043	0.0045	0.0003	0.0034	0.27	0.017	0.000034	0.000064	0.019	0.000014	10		
		March		58	4.0	19	4.6	0.17	20	0.0063	0.043	0.0045	0.0003	0.0034	0.27	0.017	0.000034	0.000064	0.019	0.000014	10		
		April		58	4.0	19	4.6	0.17	20	0.0063	0.043	0.0045	0.0003	0.0034	0.27	0.017	0.000034	0.000064	0.019	0.000014	10		
		May		58	4.0	19	4.6	0.17	20	0.0063	0.043	0.0045	0.0003	0.0034	0.27	0.017	0.000034	0.000064	0.019	0.000014	10		
		June		25	1.5	8.9	3.0	0.08	6.0	0.017	0.46	0.0028	0.0003	0.00081	0.047	0.0081	0.000024	0.000053	0.012	0.0000076	3.9		
		July		209	24	72	15	0.83	73	0.013	0.31	0.013	0.0003	0.011	0.68	0.059	0.0001	0.00013	0.051	0.00005	36		
		August		160	18	56	12	0.64	55	0.011	0.22	0.011	0.0003	0.0083	0.51	0.046	0.000083	0.00011	0.041	0.000039	28		
		September		51	5.0	19	5.0	0.2	16	0.0065	0.049	0.0045	0.0003	0.0023	0.14	0.016	0.000037	0.000067	0.019	0.000014	8.9		
		October		47	4.6	17	4.7	0.18	15	0.0063	0.043	0.0043	0.0003	0.0021	0.13	0.015	0.000036	0.000066	0.018	0.000013	8.2		
		November		47	4.6	17	4.7	0.18	15	0.0063	0.043	0.0043	0.0003	0.0021	0.13	0.015	0.000036	0.000066	0.018	0.000013	8.2		
		December		47	4.6	17	4.7	0.18	15	0.0063	0.043	0.0043	0.0003	0.0021	0.13	0.015	0.000036	0.000066	0.018	0.000013	8.2		
		MINIMUM			15	0.0047	5.2	2.6	0.026	1.9	0.0055	0.0051	0.0021	0.0003	0.00010	0.00035	0.0059	0.00002	0.00005	0.010	0.000005	2.0	
		MAXIMUM			583	24	155	18	1.7	249	0.019	0.54	0.23	0.0003	0.057	4.8	0.11	0.00031	0.00017	0.31	0.000086	100	
		AVERAGE			103	3.0	31	5.4	0.27	40	0.0074	0.086	0.023	0.0003	0.0081	0.66	0.024	0.000052	0.000068	0.044	0.000019	18	
		MAXIMUM (total)			583	24	155	18	1.7	249	0.019	0.54	0.24	0.33	0.057	4.8	0.11	0.00031	0.00017	0.31	0.000088	100	
		AVERAGE (total)			103	3.0	31	5.4	0.27	40	0.0074	0.086	0.035	0.33	0.0081	0.67	0.027	0.000059	0.000071	0.044	0.		

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.02		0.1	1.0	0.05				0.004		0.25										0.1
Constituent				Cr ⁵	Co	Cu ⁶	Fe	Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		January	2022	0.0012	0.00089	0.0025	0.06	0.00035	0.0037	3.9	0.089	0.000019	0.0021	0.0066	11	0.00085	0.000026	6.4	0.082	0.000026	0.00027	0.0016	0.0038	0.0039
		February		0.0012	0.00089	0.0025	0.06	0.00035	0.0037	3.9	0.089	0.000019	0.0021	0.0066	11	0.00085	0.000026	6.4	0.082	0.000026	0.00027	0.0016	0.0038	0.0039
		March		0.0012	0.00089	0.0025	0.06	0.00035	0.0037	3.9	0.089	0.000019	0.0021	0.0066	11	0.00085	0.000026	6.4	0.082	0.000026	0.00027	0.0016	0.0038	0.0039
		April		0.0012	0.00089	0.0025	0.06	0.00035	0.0037	3.9	0.089	0.000019	0.0021	0.0066	11	0.00085	0.000026	6.4	0.082	0.000026	0.00027	0.0016	0.0038	0.0039
		May		0.0012	0.00089	0.0025	0.06	0.00035	0.0037	3.9	0.089	0.000019	0.0021	0.0066	11	0.00085	0.000026	6.4	0.082	0.000026	0.00027	0.0016	0.0038	0.0039
		June		0.00025	0.00028	0.00084	0.059	0.000098	0.0018	1.8	0.027	0.0000082	0.00076	0.0026	4.0	0.00032	0.000014	1.5	0.034	0.000015	0.00016	0.00054	0.0016	0.0018
		July		0.00066	0.0029	0.0028	0.06	0.00028	0.014	17	0.39	0.000058	0.012	0.027	58	0.0046	0.000076	13	0.39	0.000094	0.001	0.0075	0.018	0.012
		August		0.00055	0.0022	0.0023	0.06	0.00023	0.011	13	0.29	0.000045	0.0088	0.02	43	0.0035	0.00006	10.0	0.3	0.000073	0.00079	0.0057	0.014	0.0095
		September		0.0003	0.00066	0.0011	0.06	0.00012	0.0036	4.1	0.08	0.000016	0.0024	0.0063	12	0.001	0.000023	3.2	0.09	0.000027	0.00029	0.0016	0.0043	0.0034
		October		0.00029	0.00061	0.0011	0.06	0.00012	0.0034	3.8	0.073	0.000015	0.0022	0.0058	11	0.00094	0.000022	2.9	0.082	0.000026	0.00028	0.0015	0.004	0.0032
		November		0.00029	0.00061	0.0011	0.06	0.00012	0.0034	3.8	0.073	0.000015	0.0022	0.0058	11	0.00094	0.000022	2.9	0.082	0.000026	0.00028	0.0015	0.004	0.0032
		December		0.00029	0.00061	0.0011	0.06	0.00012	0.0034	3.8	0.073	0.000015	0.0022	0.0058	11	0.00094	0.000022	2.9	0.082	0.000026	0.00028	0.0015	0.004	0.0032
		January	2023	0.00029	0.00061	0.0011	0.06	0.00012	0.0034	3.8	0.073	0.000015	0.0022	0.0058	11	0.00094	0.000022	2.9	0.082	0.000026	0.00028	0.0015	0.004	0.0032
		February		0.00029	0.00061	0.0011	0.06	0.00012	0.0034	3.8	0.073	0.000015	0.0022	0.0058	11	0.00094	0.000022	2.9	0.082	0.000026	0.00028	0.0015	0.004	0.0032
		March		0.00029	0.00061	0.0011	0.06	0.00012	0.0034	3.8	0.073	0.000015	0.0022	0.0058	11	0.00094	0.000022	2.9	0.082	0.000026	0.00028	0.0015	0.004	0.0032
		April		0.00029	0.00061	0.0011	0.06	0.00012	0.0034	3.8	0.073	0.000015	0.0022	0.0058	11	0.00094	0.000022	2.9	0.082	0.000026	0.00028	0.0015	0.004	0.0032
		May		0.00029	0.00061	0.0011	0.06	0.00012	0.0034	3.8	0.073	0.000015	0.0022	0.0058	11	0.00094	0.000022	2.9	0.082	0.000026	0.00028	0.0015	0.004	0.0032
		June		0.00022	0.00027	0.0008	0.059	0.000091	0.0018	1.8	0.026	0.0000084	0.0008	0.0024	3.8	0.00032	0.000014	1.3	0.033	0.000015	0.00016	0.00055	0.0016	0.0019
		July		0.00067	0.0029	0.0029	0.06	0.00029	0.014	16	0.4	0.000063	0.012	0.024	54	0.0043	0.000076	11	0.36	0.000099	0.0011	0.0079	0.018	0.013
		August		0.00055	0.0022	0.0024	0.06	0.00024	0.011	12	0.31	0.00005	0.0094	0.018	40	0.0032	0.000059	8.3	0.27	0.000078	0.00083	0.006	0.013	0.011
		September		0.0003	0.00067	0.0011	0.06	0.00012	0.0036	4.0	0.086	0.000017	0.0026	0.0056	11	0.00089	0.000024	2.7	0.082	0.000029	0.0003	0.0017	0.004	0.0038
		October		0.00029	0.00062	0.0011	0.06	0.00012	0.0034	3.7	0.079	0.000016	0.0024	0.0052	10	0.0008	0.000022	2.5	0.075	0.000027	0.00029	0.0015	0.0036	0.0035
		November		0.00029	0.00062	0.0011	0.06	0.00012	0.0034	3.7	0.079	0.000016	0.0024	0.0052	10	0.0008	0.000022	2.5	0.075	0.000027	0.00029	0.0015	0.0036	0.0035
		December		0.00029	0.00062	0.0011	0.06	0.00012	0.0034	3.7	0.079	0.000016	0.0024	0.0052	10	0.0008	0.000022	2.5	0.075	0.000027	0.00029	0.0015	0.0036	0.0035
Whale Tail Waste Rock Storage Facility Pond	Construction and Operations	January	2024	0.00029	0.00062	0.0011	0.06	0.00012	0.0034	3.7	0.079	0.000016	0.0024	0.0052	10	0.0008	0.000022	2.5	0.075	0.000027	0.00029	0.0015	0.0036	0.0035
		February		0.00029	0.00062	0.0011	0.06	0.00012	0.0034	3.7	0.079	0.000016	0.0024	0.0052	10	0.0008	0.000022	2.5	0.075	0.000027	0.00029	0.0015	0.0036	0.0035
		March		0.00029	0.00062	0.0011	0.06	0.00012	0.0034	3.7	0.079	0.000016	0.0024	0.0052	10	0.0008	0.000022	2.5	0.075	0.000027	0.00029	0.0015	0.0036	0.0035
		April		0.00029	0.00062	0.0011	0.06	0.00012	0.0034	3.7	0.079	0.000016	0.0024	0.0052	10	0.0008	0.000022	2.5	0.075	0.000027	0.00029	0.0015	0.0036	0.0035
		May		0.00029	0.00062	0.0011	0.06	0.00012	0.0034	3.7	0.079	0.000016	0.0024	0.0052	10	0.0008	0.000022	2.5	0.075	0.000027	0.00029	0.0015	0.0036	0.0035
		June		0.00022	0.00025	0.00082	0.06	0.000094	0.0017	1.5	0.018	0.00001	0.001	0.0019	3.0	0.00025	0.000013	1.1	0.027	0.000015	0.00017	0.0006	0.0013	0.0022
		July		0.00066	0.0025	0.0033	0.06	0.00036	0.013	11	0.21	0.000099	0.016	0.014	39	0.003	0.000066	7.4	0.25	0.0001	0.0014	0.0088	0.014	0.02
		August		0.00055	0.0019	0.0027	0.06	0.00029	0.0098	7.6	0.14	0.000079	0.013	0.0099	28	0.0022	0.000051	5.4	0.18	0.000079	0.0011	0.0067	0.01	0.016
		September		0.0003	0.00057	0.0013	0.06	0.00014	0.0034	2.5	0.034	0.000026	0.0036	0.0032	7.6	0.0006	0.000021	1.9	0.055	0.000029	0.00038	0.0019	0.003	0.0054
		October		0.00029	0.00052	0.0012	0.06	0.00014	0.0031	2.3	0.029	0.000025	0.0033	0.0028	6.8	0.00053	0.00002	1.7	0.049	0.000027	0.00036	0.0017	0.0027	0.0052
		November		0.00029	0.00052	0.0012	0.06	0.00014	0.0031	2.3	0.029	0.000025	0.0033	0.0028	6.8	0.00053	0.00002	1.7	0.049	0.000027	0.00036	0.0017	0.0027	0.0052
		December		0.00029	0.00052	0.0012	0.06	0.00014	0.0031	2.3	0.029	0.000025	0.0033	0.0028	6.8	0.00053	0.00002	1.7	0.049	0.000027	0.00036	0.001		

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002	
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁶	Ca
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Waste Rock Storage Facility Pond	Closure	January	≥2026	47	4.6	17	4.7	0.18	15	0.0063	0.043	0.0043	0.0003	0.0021	0.13	0.015	0.000036	0.000066	0.018	0.000013	8.2
		February		47	4.6	17	4.7	0.18	15	0.0063	0.043	0.0043	0.0003	0.0021	0.13	0.015	0.000036	0.000066	0.018	0.000013	8.2
		March		47	4.6	17	4.7	0.18	15	0.0063	0.043	0.0043	0.0003	0.0021	0.13	0.015	0.000036	0.000066	0.018	0.000013	8.2
		April		47	4.6	17	4.7	0.18	15	0.0063	0.043	0.0043	0.0003	0.0021	0.13	0.015	0.000036	0.000066	0.018	0.000013	8.2
		May		47	4.6	17	4.7	0.18	15	0.0063	0.043	0.0043	0.0003	0.0021	0.13	0.015	0.000036	0.000066	0.018	0.000013	8.2
		June		20	1.6	8.5	3.1	0.083	4.5	0.0057	0.0096	0.0028	0.0003	0.00051	0.0097	0.0076	0.000025	0.000054	0.012	0.0000077	3.4
		July		164	27	66	16	0.88	49	0.0056	0.0082	0.012	0.0003	0.0063	0.096	0.051	0.00011	0.00014	0.048	0.000051	27
		August		126	20	51	13	0.67	37	0.0055	0.0081	0.0099	0.0003	0.0048	0.072	0.04	0.00009	0.00012	0.039	0.00004	21
		September		42	5.5	17	5.1	0.21	11	0.0055	0.008	0.0043	0.0003	0.0014	0.02	0.014	0.000039	0.000069	0.018	0.000014	7.1
		October		39	5.0	16	4.9	0.19	10	0.0055	0.008	0.0041	0.0003	0.0013	0.018	0.013	0.000037	0.000067	0.017	0.000014	6.6
		November		39	5.0	16	4.9	0.19	10	0.0055	0.008	0.0041	0.0003	0.0013	0.018	0.013	0.000037	0.000067	0.017	0.000014	6.6
		December		39	5.0	16	4.9	0.19	10	0.0055	0.008	0.0041	0.0003	0.0013	0.018	0.013	0.000037	0.000067	0.017	0.000014	6.6
	Closure	Closure Period	MINIMUM	19	1.5	8.2	3.0	0.08	4.1	0.0055	0.008	0.0027	0.0003	0.00045	0.0057	0.0073	0.000025	0.000053	0.012	0.0000075	3.2
			MAXIMUM	167	27	67	16	0.9	50	0.0056	0.0084	0.013	0.0003	0.0064	0.098	0.052	0.00011	0.00014	0.049	0.000052	28
			AVERAGE	55	7.8	23	6.3	0.28	15	0.0055	0.008	0.0052	0.0003	0.0019	0.028	0.018	0.000047	0.000077	0.021	0.000018	9.3
			MAXIMUM (total)	167	27	67	16	0.9	50	0.0056	0.0084	0.024	0.33	0.0064	0.1	0.055	0.00012	0.00015	0.049	0.000054	28
			AVERAGE (total)	55	7.8	23	6.3	0.28	15	0.0055	0.008	0.017	0.33	0.0019	0.032	0.022	0.000054	0.000079	0.021	0.00002	9.6

Notes:

¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.02		0.1	1.0	0.05				0.004		0.25									0.1	
Constituent				Cr ⁵	Co	Cu ⁶	Fe	Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Waste Rock Storage Facility Pond	Closure	January	≥2026	0.00029	0.00051	0.0013	0.06	0.00014	0.003	1.9	0.02	0.000028	0.0036	0.0022	5.6	0.00042	0.000019	1.4	0.04	0.000027	0.00038	0.0018	0.0023	0.0057
		February		0.00029	0.00051	0.0013	0.06	0.00014	0.003	1.9	0.02	0.000028	0.0036	0.0022	5.6	0.00042	0.000019	1.4	0.04	0.000027	0.00038	0.0018	0.0023	0.0057
		March		0.00029	0.00051	0.0013	0.06	0.00014	0.003	1.9	0.02	0.000028	0.0036	0.0022	5.6	0.00042	0.000019	1.4	0.04	0.000027	0.00038	0.0018	0.0023	0.0057
		April		0.00029	0.00051	0.0013	0.06	0.00014	0.003	1.9	0.02	0.000028	0.0036	0.0022	5.6	0.00042	0.000019	1.4	0.04	0.000027	0.00038	0.0018	0.0023	0.0057
		May		0.00029	0.00051	0.0013	0.06	0.00014	0.003	1.9	0.02	0.000028	0.0036	0.0022	5.6	0.00042	0.000019	1.4	0.04	0.000027	0.00038	0.0018	0.0023	0.0057
		June		0.00022	0.00023	0.00086	0.06	0.000099	0.0016	1.1	0.0065	0.000013	0.0013	0.0012	1.8	0.00014	0.000013	0.8	0.018	0.000015	0.0002	0.00065	0.00099	0.0028
		July		0.00065	0.0022	0.0038	0.06	0.00042	0.011	4.9	0.071	0.00014	0.02	0.0054	22	0.0015	0.000058	3.0	0.12	0.000097	0.0017	0.0094	0.0085	0.028
		August		0.00054	0.0017	0.0031	0.06	0.00034	0.0089	3.9	0.054	0.00011	0.015	0.0043	17	0.0012	0.000046	2.4	0.096	0.000076	0.0013	0.0071	0.0065	0.021
		September		0.00029	0.00054	0.0013	0.06	0.00015	0.0032	1.7	0.016	0.000032	0.0042	0.0019	4.9	0.00035	0.00002	1.2	0.034	0.000028	0.00042	0.002	0.0021	0.0066
		October		0.00028	0.0005	0.0013	0.06	0.00014	0.003	1.6	0.015	0.00003	0.0038	0.0018	4.5	0.00032	0.000019	1.1	0.032	0.000026	0.00039	0.0018	0.002	0.0061
		November		0.00028	0.0005	0.0013	0.06	0.00014	0.003	1.6	0.015	0.00003	0.0038	0.0018	4.5	0.00032	0.000019	1.1	0.032	0.000026	0.00039	0.0018	0.002	0.0061
		December		0.00028	0.0005	0.0013	0.06	0.00014	0.003	1.6	0.015	0.00003	0.0038	0.0018	4.5	0.00032	0.000019	1.1	0.032	0.000026	0.00039	0.0018	0.002	0.0061
	Closure	Closure Period	MINIMUM	0.00022	0.00022	0.00085	0.06	0.000097	0.0016	1.0	0.006	0.000012	0.0012	0.0012	1.7	0.00013	0.000012	0.78	0.017	0.000015	0.00019	0.00061	0.00094	0.0027
			MAXIMUM	0.00066	0.0023	0.0039	0.06	0.00043	0.012	4.9	0.073	0.00014	0.021	0.0055	23	0.0015	0.000059	3.1	0.13	0.000099	0.0017	0.0096	0.0086	0.028
			AVERAGE	0.00033	0.00072	0.0016	0.06	0.00018	0.0041	2.0	0.022	0.000044	0.0059	0.0023	6.9	0.00048	0.000024	1.4	0.044	0.000036	0.00056	0.0028	0.0028	0.009
			MAXIMUM (total)	0.0088	0.0028	0.0044	0.76	0.00056	0.012	5.3	0.084	0.00014	0.021	0.0091	23	0.0016	0.00008	3.1	0.13	0.0001	0.0017	0.0096	0.0095	0.029
			AVERAGE (total)	0.0085	0.0012	0.0021	0.76	0.00031	0.0044	2.4	0.033	0.000044	0.0059	0.0059	7.0	0.00048	0.000045	1.4	0.045	0.000041	0.00056	0.0028	0.0037	0.0097

Notes:

¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells

Whale Tail Effluent Quality Criteria maximum average (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ¹	As ³	Sb	As ⁵	Ba	Be	Bi	B	Cd ²	Ca	Cr ³	Co	Cu ²	Fe
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
IVR Waste Rock Storage Facility	Operations	July	2020	20	0.053	11	3.0	0.11	2.4	0.0056	0.012	0.014	0.0003	0.00048	0.036	0.0083	0.000035	0.000056	0.025	0.0000071	2.3	0.0011	0.00036	0.002	0.06
		August		35	0.19	21	4.0	0.23	4.0	0.0057	0.017	0.031	0.0003	0.001	0.088	0.014	0.000056	0.000064	0.046	0.00001	3.0	0.0024	0.00075	0.0039	0.06
		September		22	0.12	12	3.1	0.13	2.7	0.0055	0.011	0.016	0.0003	0.00055	0.042	0.009	0.000037	0.000057	0.027	0.0000075	2.4	0.0013	0.00041	0.0022	0.06
		October		24	0.15	14	3.2	0.14	2.9	0.0055	0.011	0.018	0.0003	0.00062	0.048	0.0097	0.00004	0.000058	0.03	0.0000079	2.5	0.0014	0.00046	0.0025	0.06
		November		24	0.15	14	3.2	0.14	2.9	0.0055	0.011	0.018	0.0003	0.00062	0.048	0.0097	0.00004	0.000058	0.03	0.0000079	2.5	0.0014	0.00046	0.0025	0.06
		December		24	0.15	14	3.2	0.14	2.9	0.0055	0.011	0.018	0.0003	0.00062	0.048	0.0097	0.00004	0.000058	0.03	0.0000079	2.5	0.0014	0.00046	0.0025	0.06
		January	2021	24	0.15	14	3.2	0.14	2.9	0.0055	0.011	0.018	0.0003	0.00062	0.048	0.0097	0.00004	0.000058	0.03	0.0000079	2.5	0.0014	0.00046	0.0025	0.06
		February		24	0.15	14	3.2	0.14	2.9	0.0055	0.011	0.018	0.0003	0.00062	0.048	0.0097	0.00004	0.000058	0.03	0.0000079	2.5	0.0014	0.00046	0.0025	0.06
		March		24	0.15	14	3.2	0.14	2.9	0.0055	0.011	0.018	0.0003	0.00062	0.048	0.0097	0.00004	0.000058	0.03	0.0000079	2.5	0.0014	0.00046	0.0025	0.06
		April		24	0.15	14	3.2	0.14	2.9	0.0055	0.011	0.018	0.0003	0.00062	0.048	0.0097	0.00004	0.000058	0.03	0.0000079	2.5	0.0014	0.00046	0.0025	0.06
		May		24	0.15	14	3.2	0.14	2.9	0.0055	0.011	0.018	0.0003	0.00062	0.048	0.0097	0.00004	0.000058	0.03	0.0000079	2.5	0.0014	0.00046	0.0025	0.06
		June		20	0.22	10	2.9	0.1	2.8	0.0082	0.12	0.012	0.0003	0.00054	0.042	0.008	0.000032	0.000055	0.022	0.0000069	2.4	0.00093	0.00033	0.0018	0.06
		July		169	3.8	97	13	1.2	25	0.0072	0.08	0.16	0.0003	0.0078	0.73	0.058	0.000022	0.00014	0.21	0.000037	13	0.012	0.0038	0.018	0.06
		August		127	2.9	72	9.9	0.86	19	0.0067	0.059	0.11	0.0003	0.006	0.57	0.044	0.000016	0.00011	0.15	0.000028	10	0.0087	0.0028	0.013	0.06
		September		41	0.78	23	4.3	0.25	6.4	0.0057	0.018	0.031	0.0003	0.0017	0.16	0.015	0.000058	0.000066	0.047	0.000011	4.1	0.0024	0.0008	0.004	0.06
		October		38	0.71	21	4.1	0.22	5.9	0.0057	0.016	0.027	0.0003	0.0016	0.15	0.014	0.000053	0.000064	0.042	0.00001	3.9	0.0021	0.00072	0.0036	0.06
		November		38	0.71	21	4.1	0.22	5.9	0.0057	0.016	0.027	0.0003	0.0016	0.15	0.014	0.000053	0.000064	0.042	0.00001	3.9	0.0021	0.00072	0.0036	0.06
		December		38	0.71	21	4.1	0.22	5.9	0.0057	0.016	0.027	0.0003	0.0016	0.15	0.014	0.000053	0.000064	0.042	0.00001	3.9	0.0021	0.00072	0.0036	0.06
		January	2022	38	0.71	21	4.1	0.22	5.9	0.0057	0.016	0.027	0.0003	0.0016	0.15	0.014	0.000053	0.000064	0.042	0.00001	3.9	0.0021	0.00072	0.0036	0.06
		February		38	0.71	21	4.1	0.22	5.9	0.0057	0.016	0.027	0.0003	0.0016	0.15	0.014	0.000053	0.000064	0.042	0.00001	3.9	0.0021	0.00072	0.0036	0.06
		March		38	0.71	21	4.1	0.22	5.9	0.0057	0.016	0.027	0.0003	0.0016	0.15	0.014	0.000053	0.000064	0.042	0.00001	3.9	0.0021	0.00072	0.0036	0.06
		April		38	0.71	21	4.1	0.22	5.9	0.0057	0.016	0.027	0.0003	0.0016	0.15	0.014	0.000053	0.000064	0.042	0.00001	3.9	0.0021	0.00072	0.0036	0.06
		May		38	0.71	21	4.1	0.22	5.9	0.0057	0.016	0.027	0.0003	0.0016	0.15	0.014	0.000053	0.000064	0.042	0.00001	3.9	0.0021	0.00072	0.0036	0.06
		June		22	0.29	11	2.9	0.094	3.7	0.009	0.15	0.01	0.0003	0.00077	0.081	0.0085	0.00003	0.000054	0.02	0.0000068	2.8	0.0008	0.00031	0.0016	0.06
		July		191	4.6	95	12	0.97	41	0.0078	0.1	0.12	0.0003	0.011	1.4	0.065	0.00018	0.00012	0.16	0.000033	19	0.0091	0.0033	0.014	0.06
		August		144	3.4	71	9.2	0.69	32	0.0071	0.075	0.083	0.0003	0.0082	1.1	0.05	0.00013	0.000099	0.12	0.000025	15	0.0064	0.0023	0.01	0.06
		September		46	0.9	22	4.1	0.2	9.9	0.0058	0.021	0.022	0.0003	0.0022	0.3	0.017	0.000047	0.000062	0.037	0.00001	5.5	0.0017	0.00067	0.003	0.06
		October		42	0.81	20	3.8	0.17	9.2	0.0057	0.019	0.019	0.0003	0.002	0.28	0.016	0.000043	0.000061	0.033	0.0000095	5.2	0.0015	0.0006	0.0027	0.06
		November		42	0.81	20	3.8	0.17	9.2	0.0057	0.019	0.019	0.0003	0.002	0.28	0.016	0.000043	0.000061	0.033	0.0000095	5.2	0.0015	0.0006	0.0027	0.06
		December		42	0.81	20	3.8	0.17	9.2	0.0057	0.019	0.019	0.0003	0.002	0.28	0.016	0.000043	0.000061	0.033	0.0000095	5.2	0.0015	0.0006	0.0027	0.06
		January	2023	42	0.81	20	3.8	0.17	9.2	0.0057	0.019	0.019	0.0003	0.002	0.28	0.016	0.000043	0.000061	0.033	0.0000095	5.2	0.0015	0.0006	0.0027	0.06
		February		42	0.81	20	3.8	0.17	9.2	0.0057	0.019	0.019	0.0003	0.002	0.28	0.016	0.000043	0.000061	0.033	0.0000095	5.2	0.0015	0.0006	0.0027	0.06
		March		42	0.81	20	3.8	0.17	9.2	0.0057	0.019	0.019	0.0003	0.002	0.28	0.016	0.000043	0.000061	0.033	0.0000095	5.2	0.0015	0.0006	0.0027	0.06
		April		42	0.81	20	3.8	0.17	9.2	0.0057	0.019	0.019	0.0003	0.002	0.28	0.016	0.000043	0.000061	0.033	0.0000095	5.2	0.0015	0.0006	0.0027	0.06
		May		42	0.81	20	3.8	0.17	9.2	0.0057	0.019	0.019	0.0003	0.002	0.28	0.016	0.000043	0.000061	0.033	0.0000095	5.2	0.0015	0.0006	0.0027	0.06
		June		40	0.65	18	3.6	0.16	8.1	0.016	0.44	0.018	0.0003	0.0016	0.22	0.016	0.00004	0.000058	0.031	0.0000089	4.7	0.0014	0.00054	0.0025	0.06
		July		589	13	290	31	2.8	134	0.014	0.34	0.35	0.0003	0.03	4.3	0.24	0.00046	0.00025	0.46	0.000092	60	0.026	0.0095	0.04	0.06
		August		526	11	263	28	2.6	116	0.012	0.29	0.33	0.0003	0.026	3.6	0.22	0.00043	0.00023	0.43	0.000086	52	0.024	0.0088	0.037	0.06
		September		177	3.6	90	11	0.89	37	0.007	0.071	0.11	0.0003	0.0083	1.1	0.075	0.00016	0.00011	0.15	0.000032	18	0.0084	0.003	0.013	0.06
		October		176	3.5	90	11	0.9	36	0.0069	0.068	0.11	0.0003	0.0082	1.1	0.076	0.00016	0.00011	0.15	0.000032	17	0.0086	0.003	0.013	0.06
		November		176	3.5	90	11	0.9	36	0.0069	0.068	0.11	0.0003	0.0082	1.1	0.076	0.00016	0.00011	0.15	0.000032	17	0.0086	0.003	0.013	0.06
		December		176	3.5	90	11	0.9	36	0.0069	0.068	0.11	0.0003	0.0082	1.1	0.076	0.00016	0.00011	0.15	0.000032	17	0.0086	0.003	0.013	0.06
		January	2024	176	3.5	90	11	0.9	36	0.0069	0.068	0.11	0.0003	0.0082	1.1	0.076	0.00016	0.00011	0.15	0.000032	17	0.0086	0.003	0.013	0.06
		February		176	3.5	90	11	0.9	36	0.0069	0.068	0.11	0.0003	0.0082	1.1	0.076	0.00								

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1		
Constituent				Pb ²	Li	Mg	Mn	Hg	Mo	Ni ²	K	Se	Ag	Na	Sr	Ti	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
IVR Waste Rock Storage Facility	Operations	July	2020	0.0003	0.0015	1.1	0.0088	0.00001	0.00025	0.0019	0.96	0.00013	0.000014	3.8	0.014	0.000013	0.00012	0.00033	0.0011	0.002	
		August		0.00061	0.0023	1.4	0.019	0.000018	0.00059	0.0033	1.8	0.00024	0.00002	8.3	0.019	0.000017	0.00016	0.00072	0.0019	0.0032	
		September		0.00033	0.0016	1.1	0.01	0.000011	0.00033	0.0021	1.1	0.00014	0.000015	4.3	0.015	0.000013	0.00013	0.00039	0.0012	0.0022	
		October		0.00037	0.0017	1.1	0.011	0.000013	0.00038	0.0023	1.2	0.00016	0.000016	4.9	0.015	0.000014	0.00014	0.00045	0.0013	0.0023	
		November		0.00037	0.0017	1.1	0.011	0.000013	0.00038	0.0023	1.2	0.00016	0.000016	4.9	0.015	0.000014	0.00014	0.00045	0.0013	0.0023	
		December		0.00037	0.0017	1.1	0.011	0.000013	0.00038	0.0023	1.2	0.00016	0.000016	4.9	0.015	0.000014	0.00014	0.00045	0.0013	0.0023	
		January		0.00037	0.0017	1.1	0.011	0.000013	0.00038	0.0023	1.2	0.00016	0.000016	4.9	0.015	0.000014	0.00014	0.00045	0.0013	0.0023	
		February		0.00037	0.0017	1.1	0.011	0.000013	0.00038	0.0023	1.2	0.00016	0.000016	4.9	0.015	0.000014	0.00014	0.00045	0.0013	0.0023	
		March		0.00037	0.0017	1.1	0.011	0.000013	0.00038	0.0023	1.2	0.00016	0.000016	4.9	0.015	0.000014	0.00014	0.00045	0.0013	0.0023	
		April		0.00037	0.0017	1.1	0.011	0.000013	0.00038	0.0023	1.2	0.00016	0.000016	4.9	0.015	0.000014	0.00014	0.00045	0.0013	0.0023	
		May		0.00037	0.0017	1.1	0.011	0.000013	0.00038	0.0023	1.2	0.00016	0.000016	4.9	0.015	0.000014	0.00014	0.00045	0.0013	0.0023	
		June		0.00025	0.0015	1.1	0.008	0.00001	0.00035	0.0018	1.1	0.00013	0.000014	3.2	0.015	0.000013	0.00013	0.00035	0.001	0.002	
		July	2021	0.0029	0.0091	4.5	0.097	0.000089	0.0052	0.015	12	0.0013	0.000071	42	0.074	0.000058	0.00059	0.0047	0.0093	0.015	
		August		0.0021	0.007	3.6	0.071	0.000066	0.0039	0.011	9.0	0.00098	0.000054	30	0.058	0.000046	0.00047	0.0035	0.007	0.011	
		September		0.00061	0.0026	1.6	0.02	0.000021	0.0011	0.0036	2.7	0.0003	0.000022	8.3	0.024	0.000019	0.0002	0.00098	0.0022	0.0038	
		October		0.00055	0.0024	1.5	0.018	0.000019	0.00098	0.0033	2.5	0.00027	0.00002	7.5	0.023	0.000019	0.00019	0.00089	0.002	0.0035	
		November		0.00055	0.0024	1.5	0.018	0.000019	0.00098	0.0033	2.5	0.00027	0.00002	7.5	0.023	0.000019	0.00019	0.00089	0.002	0.0035	
		December		0.00055	0.0024	1.5	0.018	0.000019	0.00098	0.0033	2.5	0.00027	0.00002	7.5	0.023	0.000019	0.00019	0.00089	0.002	0.0035	
		January		0.00055	0.0024	1.5	0.018	0.000019	0.00098	0.0033	2.5	0.00027	0.00002	7.5	0.023	0.000019	0.00019	0.00089	0.002	0.0035	
		February		0.00055	0.0024	1.5	0.018	0.000019	0.00098	0.0033	2.5	0.00027	0.00002	7.5	0.023	0.000019	0.00019	0.00089	0.002	0.0035	
		March		0.00055	0.0024	1.5	0.018	0.000019	0.00098	0.0033	2.5	0.00027	0.00002	7.5	0.023	0.000019	0.00019	0.00089	0.002	0.0035	
		April		0.00055	0.0024	1.5	0.018	0.000019	0.00098	0.0033	2.5	0.00027	0.00002	7.5	0.023	0.000019	0.00019	0.00089	0.002	0.0035	
		May		0.00055	0.0024	1.5	0.018	0.000019	0.00098	0.0033	2.5	0.00027	0.00002	7.5	0.023	0.000019	0.00019	0.00089	0.002	0.0035	
		June		0.00022	0.0015	1.2	0.0076	0.0000097	0.00045	0.0018	1.6	0.00015	0.000014	2.8	0.017	0.000014	0.00014	0.0004	0.0012	0.0019	
		July	2022	0.0022	0.0099	6.7	0.086	0.000077	0.0066	0.015	20	0.0017	0.000069	33	0.12	0.000073	0.00063	0.0053	0.011	0.013	
		August		0.0016	0.0076	5.4	0.062	0.000055	0.005	0.011	16	0.0013	0.000053	23	0.097	0.000058	0.00048	0.004	0.0086	0.0095	
		September		0.00045	0.0028	2.1	0.018	0.000018	0.0014	0.0035	4.7	0.00038	0.000021	6.2	0.035	0.000023	0.0002	0.0011	0.0027	0.0033	
		October		0.0004	0.0026	2.0	0.016	0.000016	0.0013	0.0032	4.4	0.00035	0.00002	5.4	0.033	0.000022	0.00019	0.001	0.0025	0.003	
		November		0.0004	0.0026	2.0	0.016	0.000016	0.0013	0.0032	4.4	0.00035	0.00002	5.4	0.033	0.000022	0.00019	0.001	0.0025	0.003	
		December		0.0004	0.0026	2.0	0.016	0.000016	0.0013	0.0032	4.4	0.00035	0.00002	5.4	0.033	0.000022	0.00019	0.001	0.0025	0.003	
		January		2023	0.0004	0.0026	2.0	0.016	0.000016	0.0013	0.0032	4.4	0.00035	0.00002	5.4	0.033	0.000022	0.00019	0.001	0.0025	0.003
		February			0.0004	0.0026	2.0	0.016	0.000016	0.0013	0.0032	4.4	0.00035	0.00002	5.4	0.033	0.000022	0.00019	0.001	0.0025	0.003
		March			0.0004	0.0026	2.0	0.016	0.000016	0.0013	0.0032	4.4	0.00035	0.00002	5.4	0.033	0.000022	0.00019	0.001	0.0025	0.003
		April			0.0004	0.0026	2.0	0.016	0.000016	0.0013	0.0032	4.4	0.00035	0.00002	5.4	0.033	0.000022	0.00019	0.001	0.0025	0.003
		May			0.0004	0.0026	2.0	0.016	0.000016	0.0013	0.0032	4.4	0.00035	0.00002	5.4	0.033	0.000022	0.00019	0.001	0.0025	0.003
		June			0.00036	0.0025	1.9	0.015	0.000014	0.0011	0.0029	4.0	0.00044	0.000019	4.9	0.033	0.00002	0.00017	0.0009	0.0025	0.0027
		July	0.0063		0.032	22	0.29	0.00021	0.022	0.043	72	0.0085	0.0002	92	0.46	0.00022	0.0016	0.017	0.043	0.035	
		August	0.0059		0.029	20	0.27	0.00019	0.019	0.039	62	0.008	0.00018	87	0.41	0.0002	0.0014	0.015	0.039	0.032	
		September	0.0021		0.01	6.7	0.091	0.000067	0.0061	0.013	20	0.0027	0.000065	30	0.14	0.000069	0.00053	0.0049	0.013	0.011	
		October	0.0021		0.01	6.7	0.093	0.000068	0.006	0.013	19	0.0028	0.000065	30	0.14	0.000068	0.00053	0.0049	0.013	0.011	
		November	0.0021		0.01	6.7	0.093	0.000068	0.006	0.013	19	0.0028	0.000065	30	0.14	0.000068	0.00053	0.0049	0.013	0.011	
		December	0.0021		0.01	6.7	0.093	0.000068	0.006	0.013	19	0.0028	0.000065	30	0.14	0.000068	0.00053	0.0049	0.013	0.011	
		January	2024	0.0021	0.01	6.7	0.093	0.000068	0.006	0.013	19	0.0028	0.000065	30	0.14	0.000068	0.00053	0.0049	0.013	0.011	
		February		0.0021	0.01	6.7	0.093	0.000068	0.006	0.013	19	0.0028	0.000065	30	0.14	0.000068	0.00053	0.0049	0.013	0.011	
		March		0.0021	0.01	6.7	0.093	0.000068	0.006	0.013	19	0.0028	0.000065	30	0.14	0.000068	0.00053	0.0049	0.013	0.011	
		April		0.0021	0.01	6.7	0.093	0.000068	0.006	0.013	19	0.0028	0.000065	30	0.14	0.000068	0.00053	0.0049	0.013	0.011	
		May		0.0021	0.01	6.7	0.093	0.000068	0.006	0.013	19	0.0028	0.000065	30	0.14	0.000068	0.00053	0.0049	0.013	0.011	
		June		0.00051	0.0039	2.6	0.031	0.000027	0.003	0.0041	7.1	0.00097	0.000025	6.8	0.055	0.00003	0.0003	0.0019	0.0045	0.0052	
		July		0.0052	0.046	29	0.43	0.00036	0.051	0.044	105	0.014	0.00024	72	0.69	0.00034	0.0037	0.029	0.059	0.068	
		August		0.0029	0.032	20	0.28	0.00027	0.039	0.028	74	0.009	0.00016	40	0.48	0.00024	0.0029	0.021	0.039	0.051	
		September		0.00065	0.009	5.5	0.071	0.000076	0.011	0.007	19	0.0022	0.000048	8.1	0.13	0.000071	0.0009	0.0058	0.0098	0.015	
		October		0.0005	0.0079	4.8	0.06	0.000069	0.01	0.0059	17	0.0018	0.000043	5.9	0.11	0.000064	0.00083	0.0052	0.0083	0.014	
		November		0.0005	0.0079	4.8	0.06	0.000069	0.01	0.0059	17	0.0018	0.000043	5.9	0.11	0.000064	0.00083	0.0052	0.0083	0.014	
		December		0.0005	0.0079	4.8	0.06	0.000069	0.01	0.0059	17	0.0018	0.000043	5.9	0.11	0.000064	0.00083	0.0052	0.0083	0.014	
		January	2025	0.0005	0.0079	4.8	0.06	0.000069	0.01	0.0059	17	0.0018	0.000043	5.9	0.11	0.000064	0.00083	0.0052	0.0083	0.014	
		February		0.0005	0.0079	4.8	0.06	0.000069	0.01	0.0059	17	0.0018	0.000043	5.9	0.11	0.000064	0.00083	0.0052	0.0083	0.014	
		March		0.0005	0.0079	4.8	0.06	0.000069	0.01	0.0059	17										

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁵
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Quarry 1	Construction and Operations	January	2018	62	0	3.9	2.2	0.022	1.2	0.3	12	0.0018	0.00019	0.000086	0.00013	0.0035	0.000017	0.000043	0.0086	0.0000043	1.8	0.000086
		February		63	0	4.5	2.6	0.026	1.3	0.3	12	0.0021	0.0002	0.000098	0.00015	0.004	0.00002	0.000049	0.0098	0.0000049	2.1	0.000098
		March		64	0	4.5	2.6	0.026	1.4	0.3	12	0.0021	0.0002	0.000099	0.00015	0.0041	0.00002	0.000049	0.0099	0.0000049	2.1	0.000099
		April		64	0	4.5	2.6	0.026	1.4	0.3	12	0.0021	0.0002	0.000099	0.00015	0.0041	0.00002	0.00005	0.0099	0.000005	2.1	0.000099
		May		64	0	4.5	2.6	0.026	1.4	0.3	12	0.0021	0.0002	0.000099	0.00015	0.0041	0.00002	0.00005	0.0099	0.000005	2.1	0.000099
		June		86	1.5	22	2.3	0.051	5.1	0.3	12	0.0018	0.0002	0.00084	0.011	0.0088	0.000026	0.000036	0.23	0.000011	3.2	0.0022
		July		123	3.8	48	3.1	0.1	11	0.3	12	0.0027	0.0002	0.0019	0.028	0.017	0.000044	0.000042	0.53	0.000022	5.8	0.0052
		August		163	6.0	75	4.6	0.16	18	0.3	12	0.0049	0.0002	0.0031	0.046	0.027	0.000068	0.000059	0.83	0.000034	9.0	0.0082
		September		166	6.1	78	4.8	0.17	19	0.3	12	0.0061	0.0002	0.0031	0.048	0.028	0.000072	0.000063	0.84	0.000035	9.3	0.0085
		October		156	5.5	70	4.5	0.16	17	0.3	12	0.0061	0.0002	0.0028	0.044	0.026	0.000067	0.000062	0.76	0.000032	8.6	0.0076
		November		154	5.4	69	4.4	0.16	17	0.3	12	0.006	0.0002	0.0028	0.043	0.025	0.000065	0.000062	0.74	0.000031	8.4	0.0075
		December		152	5.3	67	4.4	0.15	16	0.3	12	0.0059	0.0002	0.0027	0.042	0.025	0.000064	0.000061	0.72	0.000031	8.3	0.0073
		January	2019	150	5.2	66	4.3	0.15	16	0.3	12	0.0058	0.0002	0.0027	0.041	0.024	0.000063	0.000061	0.71	0.00003	8.1	0.0071
		February		149	5.1	65	4.2	0.15	16	0.3	12	0.0057	0.0002	0.0026	0.04	0.024	0.000063	0.000061	0.69	0.00003	8.0	0.007
		March		147	5.0	64	4.1	0.15	16	0.3	12	0.0057	0.0002	0.0026	0.04	0.024	0.000062	0.000061	0.68	0.000029	7.9	0.0069
		April		146	4.9	63	4.1	0.14	15	0.3	12	0.0056	0.0002	0.0025	0.039	0.023	0.000061	0.00006	0.67	0.000029	7.8	0.0068
		May		144	4.8	62	4.0	0.14	15	0.3	12	0.0055	0.0002	0.0025	0.038	0.023	0.00006	0.00006	0.66	0.000028	7.7	0.0066
		June		77	1.4	16	1.1	0.039	4.2	0.3	12	0.0016	0.000055	0.00066	0.011	0.006	0.000016	0.000016	0.17	0.0000074	2.1	0.0017
		MINIMUM		62	1.4	3.9	1.1	0.022	1.2	0.3	12	0.0016	0.000055	0.000086	0.00013	0.0035	0.000016	0.000016	0.0086	0.0000043	1.8	0.000086
		MAXIMUM		166	6.1	78	4.8	0.17	19	0.3	12	0.0061	0.0002	0.0031	0.048	0.028	0.000072	0.000063	0.84	0.000035	9.3	0.0085
		AVERAGE		118	4.6	44	3.5	0.1	11	0.3	12	0.0041	0.00019	0.0017	0.026	0.017	0.000046	0.000053	0.46	0.000021	5.8	0.0046
		MAXIMUM (total)		166	6.1	78	4.8	0.18	19	0.3	12	0.018	0.33	0.0032	0.052	0.031	0.000079	0.000066	0.84	0.000037	9.6	0.017
		AVERAGE (total)		118	4.6	44	3.5	0.11	11	0.3	12	0.016	0.33	0.0018	0.03	0.02	0.000053	0.000055	0.46	0.000022	6.1	0.013

Notes:

¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells

² CEEQ (2002) freshwater guidelines. Post-closure exceedances to freshwater CEEQ's shown in bold-underlined type

³ CEEQ Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed

⁴ CEEQ Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.

⁵ CEEQ Freshwater aquatic life criteria for chromium depends on the valence of chromium ion. In the above table, the Cr(VI) criterion of 0.001 mg/L is shown.

⁶ CEEQ Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.

⁷ The CEEQ aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6,

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)					0.1	1.0	0.05				0.004		0.25								0.1			
CEQG aquatic life (long-term) ² (mg/L)					0.002	0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015		0.03	
Constituent				Co	Cu ⁵	Fe	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁵	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Quarry 1	Construction and Operations	January	2018	0.000086	0.00041	0.013	0.000047	0.00086	0.62	0.0013	0.0000043	0.000043	0.00054	0.34	0.000043	0.0000086	0.47	0.012	0.0000086	0.000086	0.000027	0.00043	0.00095	
		February		0.000098	0.00047	0.015	0.000053	0.00098	0.71	0.0015	0.0000049	0.000049	0.00062	0.39	0.000049	0.0000098	0.54	0.014	0.0000098	0.000098	0.000031	0.00049	0.0011	
		March		0.000099	0.00047	0.015	0.000054	0.00099	0.71	0.0015	0.000005	0.000049	0.00062	0.4	0.000049	0.0000099	0.54	0.014	0.0000099	0.000099	0.000031	0.00049	0.0011	
		April		0.000099	0.00048	0.015	0.000054	0.00099	0.71	0.0015	0.000005	0.00005	0.00062	0.4	0.00005	0.0000099	0.54	0.014	0.0000099	0.000099	0.000031	0.0005	0.0011	
		May		0.000099	0.00048	0.015	0.000054	0.00099	0.72	0.0015	0.000005	0.00005	0.00062	0.4	0.00005	0.0000099	0.54	0.014	0.0000099	0.000099	0.000031	0.0005	0.0011	
		June		0.00077	0.0021	0.39	0.00063	0.0015	0.86	0.03	0.000014	0.0013	0.0032	2.2	0.00069	0.000032	6.3	0.015	0.000017	0.00015	0.00048	0.0014	0.0034	
		July		0.0017	0.0045	0.51	0.0014	0.0027	1.4	0.072	0.00003	0.0031	0.0074	4.9	0.0016	0.000068	14	0.023	0.000032	0.00028	0.0011	0.0029	0.0072	
		August		0.0027	0.0071	0.44	0.0023	0.0041	2.2	0.11	0.000047	0.0048	0.012	7.6	0.0025	0.00011	23	0.034	0.000049	0.00042	0.0018	0.0046	0.011	
		September		0.0028	0.0074	0.37	0.0023	0.0043	2.3	0.12	0.000048	0.0048	0.013	7.8	0.0026	0.00011	24	0.035	0.000051	0.00043	0.0018	0.0047	0.011	
		October		0.0025	0.0067	0.33	0.0021	0.0039	2.2	0.11	0.000044	0.0043	0.011	7.1	0.0023	0.0001	21	0.033	0.000047	0.0004	0.0017	0.0043	0.01	
		November		0.0025	0.0066	0.32	0.0021	0.0039	2.1	0.1	0.000043	0.0042	0.011	6.9	0.0022	0.000098	21	0.032	0.000046	0.00039	0.0016	0.0042	0.01	
		December		0.0024	0.0064	0.31	0.002	0.0038	2.1	0.1	0.000042	0.0041	0.011	6.8	0.0022	0.000096	20	0.031	0.000045	0.00039	0.0016	0.0041	0.0099	
		January	2019	0.0024	0.0063	0.3	0.002	0.0037	2.1	0.099	0.000041	0.004	0.011	6.7	0.0021	0.000094	20	0.031	0.000044	0.00038	0.0015	0.004	0.0097	
		February		0.0023	0.0062	0.3	0.0019	0.0037	2.1	0.097	0.00004	0.004	0.011	6.5	0.0021	0.000093	20	0.031	0.000044	0.00038	0.0015	0.0039	0.0096	
		March		0.0023	0.0061	0.29	0.0019	0.0036	2.0	0.096	0.00004	0.0039	0.01	6.4	0.0021	0.000091	19	0.03	0.000043	0.00037	0.0015	0.0039	0.0094	
		April		0.0023	0.006	0.29	0.0019	0.0036	2.0	0.094	0.000039	0.0038	0.01	6.3	0.002	0.000089	19	0.03	0.000042	0.00037	0.0015	0.0038	0.0093	
		May		0.0022	0.0059	0.28	0.0018	0.0035	2.0	0.092	0.000038	0.0038	0.01	6.2	0.002	0.000088	19	0.03	0.000042	0.00036	0.0014	0.0038	0.0091	
		June		0.00058	0.0015	0.076	0.00047	0.00095	0.54	0.025	0.00001	0.00098	0.0029	1.7	0.00051	0.000023	4.8	0.008	0.000011	0.000096	0.00037	0.00098	0.0024	
				MINIMUM	0.000086	0.00041	0.013	0.000047	0.00086	0.54	0.0013	0.0000043	0.000043	0.00054	0.34	0.000043	0.0000086	0.47	0.008	0.0000086	0.000086	0.000027	0.00043	0.00095
				MAXIMUM	0.0028	0.0074	0.51	0.0023	0.0043	2.3	0.12	0.000048	0.0048	0.013	7.8	0.0026	0.00011	24	0.035	0.000051	0.00043	0.0018	0.0047	0.011
				AVERAGE	0.0016	0.0042	0.24	0.0013	0.0027	1.5	0.064	0.000028	0.0026	0.007	4.4	0.0014	0.000063	13	0.024	0.000031	0.00027	0.001	0.0027	0.0066
				MAXIMUM (total)	0.0033	0.0079	1.2	0.0025	0.0046	2.7	0.13	0.000048	0.0049	0.016	8.0	0.0026	0.00013	24	0.036	0.000056	0.00044	0.0019	0.0056	0.012
				AVERAGE (total)	0.002	0.0047	0.93	0.0014	0.003	1.9	0.075	0.000028	0.0027	0.011	4.6	0.0014	0.000084	13	0.025	0.000037	0.00028	0.001	0.0036	0.0073

Notes:

¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells

² Ceqg (2002) freshwater guidelines. Post-closure exceedances to freshwater Ceqg's shown in bold-underlined type

³ Ceqg Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed

⁴ Ceqg Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.

⁵ Ceqg Freshwater aquatic life criteria for chromium depends on the valence of chromium ion. In the above table, the Cr(VI) criterion of 0.001 mg/L is shown.

⁶ Ceqg Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.

⁷ The Ceqg aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6,

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P_total ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁵	Ca	Cr ⁵
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Starter Pit	Construction and Operations	January	2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		February		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		March		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		April		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		May		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		June		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		July		1,330	0.071	1,145	2.3	0.029	83	0.3	12	0.002	0.0002	0.031	0.095	0.3	0.00077	0.00035	15	0.00044	31	0.15
		August		1,142	0.54	970	2.6	0.047	75	0.3	12	0.0023	0.0002	0.027	0.1	0.26	0.00065	0.0003	13	0.00037	28	0.13
		September		432	0.36	333	1.8	0.04	28	0.3	12	0.0021	0.0002	0.0091	0.042	0.09	0.00023	0.00013	4.3	0.00013	11	0.043
		October		96	0.038	34	0.68	0.026	5.4	0.3	12	0.002	0.0002	0.00083	0.004	0.011	0.000037	0.000057	0.36	0.000015	3.1	0.0035
		November		66	3.1E-08	7.5	0.56	0.024	3.3	0.3	12	0.002	0.0002	0.0001	0.00028	0.0042	0.00002	0.00005	0.01	0.000005	2.3	0.0001
		December		66	0	7.5	0.56	0.024	3.3	0.3	12	0.002	0.0002	0.0001	0.00028	0.0042	0.00002	0.00005	0.01	0.000005	2.3	0.0001
		January	2019	66	0	7.5	0.56	0.024	3.3	0.3	12	0.002	0.0002	0.0001	0.00028	0.0042	0.00002	0.00005	0.01	0.000005	2.3	0.0001
		February		66	0	7.5	0.56	0.024	3.3	0.3	12	0.002	0.0002	0.0001	0.00028	0.0042	0.00002	0.00005	0.01	0.000005	2.3	0.0001
		March		66	0	7.5	0.56	0.024	3.3	0.3	12	0.002	0.0002	0.0001	0.00028	0.0042	0.00002	0.00005	0.01	0.000005	2.3	0.0001
		April		66	0	7.5	0.56	0.024	3.3	0.3	12	0.002	0.0002	0.0001	0.00028	0.0042	0.00002	0.00005	0.01	0.000005	2.3	0.0001
		MINIMUM		66	0	7.5	0.56	0.024	3.3	0.3	12	0.002	0.0002	0.0001	0.00028	0.0042	0.00002	0.00005	0.01	0.000005	2.3	0.0001
		MAXIMUM		1,330	0.54	1,145	2.6	0.047	83	0.3	12	0.0023	0.0002	0.031	0.1	0.3	0.00077	0.00035	15	0.00044	31	0.15
		AVERAGE		340	0.1	253	1.1	0.029	21	0.3	12	0.0021	0.0002	0.0068	0.024	0.068	0.00018	0.00011	3.3	0.000098	8.7	0.032
		MAXIMUM (total)		1,330	0.54	1,145	2.6	0.05	83	0.3	12	0.014	0.33	0.031	0.1	0.3	0.00077	0.00035	15	0.00044	31	0.16
		AVERAGE (total)		340	0.1	253	1.1	0.031	21	0.3	12	0.014	0.33	0.0068	0.028	0.071	0.00019	0.00012	3.3	0.00010	9.0	0.04

Notes:

¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells

²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type

³CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed

⁴CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.

⁵CEQG Freshwater aquatic life criteria for chromium depends on the valence of chromium ion. In the above table, the Cr(VI) criterion of 0.001 mg/L is shown.

⁶CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.

⁷ The CEQG aquatic life criterion for Arsenic is replaced by the SSWQO of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)					0.1	1.0	0.05				0.004		0.25								0.1				
CEQG aquatic life (long-term) ² (mg/L)					0.002	0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.03			
Constituent				Co	Cu ⁶	Fe	Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn		
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
Starter Pit	Construction and Operations	January	2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		February		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		March		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		April		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		May		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		June		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		July		0.041	0.11	0.7	0.04	0.032	17	1.6	0.00041	0.027	0.094	55	0.041	0.0016	401	0.081	0.00048	0.0019	0.0052	0.055	0.11		
		August		0.034	0.095	0.7	0.034	0.027	14	1.3	0.00035	0.023	0.08	48	0.034	0.0013	339	0.075	0.00041	0.0016	0.0047	0.047	0.098		
		September		0.012	0.032	0.7	0.012	0.0099	5.5	0.45	0.00012	0.008	0.028	17	0.012	0.00046	115	0.033	0.00014	0.00064	0.0017	0.016	0.034		
		October		0.001	0.0029	0.18	0.001	0.0017	1.4	0.039	0.000015	0.0007	0.0028	1.9	0.0010	0.000046	9.8	0.012	0.000021	0.00015	0.00015	0.0018	0.0037		
		November		0.0001	0.00026	0.01	0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.51	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011		
		December		0.0001	0.00026	0.01	0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.51	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011		
		January	2019	0.0001	0.00026	0.01	0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.51	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011		
		February		0.0001	0.00026	0.01	0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.51	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011		
		March		0.0001	0.00026	0.01	0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.51	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011		
		April		0.0001	0.00026	0.01	0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.51	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011		
		MINIMUM		0.0001	0.00026	0.01	0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.51	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011		
		MAXIMUM		0.041	0.11	0.7	0.04	0.032	17	1.6	0.00041	0.027	0.094	55	0.041	0.0016	401	0.081	0.00048	0.0019	0.0052	0.055	0.11		
		AVERAGE		0.0088	0.024	0.23	0.0087	0.0076	4.4	0.34	0.000093	0.0059	0.021	13	0.0088	0.00035	87	0.026	0.00011	0.0005	0.0012	0.012	0.026		
		MAXIMUM (total)		0.041	0.11	1.4	0.04	0.032	17	1.6	0.00041	0.027	0.098	55	0.041	0.0016	401	0.082	0.00048	0.0019	0.0052	0.056	0.12		
		AVERAGE (total)		0.0093	0.025	0.93	0.0088	0.0079	4.8	0.35	0.000093	0.0059	0.024	13	0.0088	0.00037	87	0.027	0.00012	0.0005	0.0012	0.013	0.026		

Notes:

¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells

²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type

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Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ⁺	Sb	As ⁻	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁵	Co	Cu ⁶	Fe
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Pit	Operations	May	2019	53	0	0	0	0	0	0.3	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		152	0.12	27	40	0.075	10	0.3	12	0.031	0.00016	0.0006	0.027	0.024	0.00003	0.000038	0.19	0.000024	13	0.0014	0.00064	0.0018	0.22
		July		450	0.95	127	145	0.26	44	0.3	12	0.11	0.0002	0.004	0.21	0.093	0.00011	0.00009	1.1	0.000095	48	0.0088	0.0034	0.0086	0.68
		August		476	1.2	137	152	0.28	48	0.3	12	0.12	0.0002	0.0046	0.24	0.099	0.00011	0.000094	1.2	0.0001	52	0.0096	0.0037	0.0093	0.7
		September		334	0.56	79	111	0.19	30	0.3	12	0.086	0.0002	0.0022	0.12	0.066	0.000071	0.000071	0.59	0.000066	36	0.0044	0.0019	0.0049	0.61
		October		490	0.13	90	205	0.31	40	0.3	12	0.16	0.0002	0.00069	0.029	0.1	0.000088	0.000089	0.46	0.00010	60	0.0018	0.0017	0.0039	0.19
		November		554	0.0054	97	241	0.35	44	0.3	12	0.18	0.0002	0.00028	0.0035	0.12	0.000096	0.000097	0.44	0.00011	69	0.0011	0.0017	0.0037	0.052
		December		556	0.0015	98	242	0.35	44	0.3	12	0.19	0.0002	0.00027	0.0029	0.12	0.000096	0.000097	0.44	0.00011	69	0.0011	0.0017	0.0037	0.048
		January	2020	493	0.041	86	211	0.31	39	0.3	12	0.17	0.0002	0.00028	0.0047	0.1	0.000086	0.000091	0.39	0.0001	61	0.001	0.0015	0.0034	0.056
		February		462	0.042	80	196	0.29	36	0.3	12	0.16	0.0002	0.00028	0.0046	0.097	0.000082	0.000088	0.36	0.000094	57	0.00098	0.0014	0.0032	0.054
		March		451	0.034	78	190	0.28	35	0.3	12	0.16	0.0002	0.00026	0.0041	0.094	0.00008	0.000087	0.35	0.000091	55	0.00094	0.0013	0.0031	0.051
		April		441	0.026	76	186	0.28	35	0.3	12	0.16	0.0002	0.00025	0.0036	0.092	0.000078	0.000086	0.34	0.000089	54	0.00091	0.0013	0.003	0.048
		May		434	0.021	75	182	0.27	34	0.3	12	0.16	0.0002	0.00025	0.0033	0.091	0.000077	0.000086	0.34	0.000087	53	0.00089	0.0013	0.0029	0.046
		June		158	0.35	30	40	0.084	12	0.3	12	0.035	0.0002	0.00094	0.053	0.026	0.000032	0.000041	0.21	0.000025	14	0.0016	0.00073	0.0019	0.25
		July		346	4.2	113	74	0.26	48	0.3	12	0.074	0.0002	0.0063	0.38	0.071	0.000095	0.000079	1.0	0.000073	35	0.0094	0.0038	0.0092	0.68
		August		379	4.9	127	81	0.29	54	0.3	12	0.082	0.0002	0.0073	0.44	0.079	0.00011	0.000086	1.2	0.000082	39	0.011	0.0043	0.01	0.7
		September		235	1.8	63	56	0.15	26	0.3	12	0.05	0.0002	0.0031	0.19	0.044	0.000057	0.000057	0.53	0.000045	22	0.0046	0.0019	0.0048	0.63
		October		312	0.63	59	114	0.2	26	0.3	12	0.10	0.0002	0.0011	0.062	0.062	0.000061	0.000068	0.34	0.00006	35	0.0019	0.0013	0.0031	0.26
		November		387	0.11	67	158	0.24	30	0.3	12	0.14	0.0002	0.00036	0.012	0.08	0.00007	0.00008	0.31	0.000077	46	0.00096	0.0012	0.0028	0.072
		December		397	0.019	68	164	0.25	31	0.3	12	0.15	0.0002	0.00024	0.0037	0.082	0.000072	0.000082	0.3	0.000079	48	0.00082	0.0012	0.0027	0.044
		January	2021	333	0.0038	56	133	0.2	25	0.3	12	0.15	0.0002	0.0002	0.002	0.067	0.000062	0.000076	0.25	0.000065	39	0.00066	0.00096	0.0022	0.035
		February		287	0.001	47	110	0.17	21	0.3	12	0.15	0.0002	0.00018	0.0015	0.056	0.000055	0.000072	0.2	0.000054	33	0.00056	0.00081	0.0019	0.032
		March		275	0.0003	45	105	0.17	20	0.3	12	0.15	0.0002	0.00017	0.0014	0.053	0.000053	0.000071	0.19	0.000052	31	0.00054	0.00077	0.0018	0.031
		April		272	0.000089	45	103	0.16	20	0.3	12	0.15	0.0002	0.00017	0.0014	0.053	0.000052	0.00007	0.19	0.000051	31	0.00053	0.00076	0.0018	0.03
		May		271	0.000028	45	103	0.16	20	0.3	12	0.15	0.0002	0.00017	0.0013	0.052	0.000052	0.00007	0.19	0.000051	30	0.00053	0.00076	0.0018	0.03
		June		118	0.4	22	21	0.058	8.8	0.3	12	0.023	0.0002	0.00096	0.057	0.016	0.000025	0.000037	0.17	0.000016	8.2	0.0015	0.00061	0.0017	0.25
		July		296	5.5	104	45	0.24	48	0.3	12	0.064	0.0002	0.0073	0.47	0.06	0.000087	0.000074	0.97	0.000062	28	0.0093	0.0039	0.009	0.68
		August		331	6.6	120	50	0.28	56	0.3	12	0.073	0.0002	0.0086	0.57	0.069	0.000098	0.000081	1.1	0.000071	33	0.011	0.0045	0.01	0.7
		September		195	2.4	56	33	0.13	25	0.3	12	0.04	0.0002	0.0036	0.23	0.035	0.000051	0.000052	0.5	0.000036	17	0.0046	0.0019	0.0046	0.62
		October		220	0.91	43	67	0.14	20	0.3	12	0.087	0.0002	0.0014	0.088	0.041	0.000046	0.000058	0.27	0.00004	23	0.0018	0.0011	0.0026	0.27
		November		261	0.25	44	95	0.16	20	0.3	12	0.13	0.0002	0.00046	0.021	0.05	0.000051	0.000067	0.21	0.000049	29	0.00081	0.00084	0.002	0.081
		December		270	0.11	45	101	0.16	20	0.3	12	0.14	0.0002	0.00028	0.007	0.052	0.000052	0.000069	0.2	0.000051	30	0.00063	0.0008	0.0019	0.045
		January	2022	232	0.093	38	83	0.14	17	0.3	12	0.13	0.0002	0.00023	0.0039	0.043	0.000046	0.000066	0.16	0.000042	25	0.00052	0.00067	0.0016	0.036
		February		205	0.097	32	70	0.12	15	0.3	12	0.12	0.0002	0.00022	0.0032	0.037	0.000042	0.000064	0.14	0.000036	21	0.00046	0.00058	0.0014	0.034
		March		197	0.097	31	66	0.12	14	0.3	12	0.12	0.0002	0.00022	0.003	0.035	0.000041	0.000063	0.13	0.000035	20	0.00044	0.00056	0.0014	0.033
		April		195	0.097	31	65	0.12	14	0.3	12	0.12	0.0002	0.00022	0.003	0.035	0.000041	0.000063	0.13	0.000034	20	0.00044	0.00055	0.0014	0.033
		May		195	0.098	31	65	0.12	14	0.3	12	0.12	0.0002	0.00022	0.0029	0.035	0.000041	0.000063	0.13	0.000034	20	0.00044	0.00055	0.0014	0.033
		June		105	0.89	19	14	0.052	8.3	0.3	12	0.021	0.0002	0.00096	0.053	0.013	0.000022	0.000032	0.16	0.000014	6.6	0.0014	0.00063	0.0016	0.26
		July		278	15	91	34	0.29	56	0.3	12	0.055	0.0002	0.0068	0.37	0.062	0.000079	0.00007	0.83	0.000065	28	0.0077	0.0048	0.0089	0.68
		August		335	23	107	43	0.4	74	0.3	12	0.076	0.0002	0.0086	0.44	0.08	0.000097	0.000087	0.93	0.000083	37	0.0086	0.0063	0.011	0.7
		September		193	9.8	51	26	0.19	34	0.3	12</														

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.007	
Constituent				Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Pit	Operations	May	2019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		0.0005	0.0034	5.2	0.064	0.0000065	0.0044	0.0021	2.0	0.00048	0.00002	12	0.1	0.0000099	0.000082	0.0013	0.00083	0.0033
		July		0.0028	0.013	19	0.28	0.000031	0.017	0.0097	10	0.0029	0.00011	54	0.38	0.00004	0.00026	0.0053	0.0044	0.014
		August		0.003	0.013	20	0.3	0.000034	0.018	0.011	11	0.0032	0.00012	58	0.4	0.000043	0.00029	0.0056	0.0049	0.015
		September		0.0015	0.0092	14	0.19	0.000017	0.013	0.006	6.3	0.0015	0.000057	35	0.29	0.000023	0.00017	0.0038	0.0024	0.0091
		October		0.0011	0.014	25	0.27	0.0000076	0.022	0.0054	5.9	0.00087	0.000031	47	0.5	0.000013	0.00012	0.0064	0.00092	0.011
		November		0.00098	0.017	29	0.3	0.0000051	0.025	0.0055	6.1	0.00072	0.000024	53	0.59	0.00001	0.0001	0.0074	0.00053	0.011
		December		0.00098	0.017	29	0.3	0.000005	0.025	0.0055	6.1	0.00072	0.000024	53	0.59	0.00001	0.0001	0.0074	0.00053	0.011
		January	2020	0.00088	0.015	25	0.27	0.0000053	0.022	0.005	5.4	0.00065	0.000023	46	0.52	0.00001	0.0001	0.0064	0.00055	0.01
		February		0.00082	0.014	23	0.25	0.0000053	0.02	0.0047	5.1	0.00061	0.000022	43	0.48	0.00001	0.0001	0.006	0.00055	0.0095
		March		0.0008	0.013	23	0.24	0.0000052	0.02	0.0046	4.9	0.00059	0.000022	42	0.47	0.00001	0.0001	0.0058	0.00055	0.0093
		April		0.00078	0.013	22	0.23	0.0000052	0.019	0.0045	4.8	0.00057	0.000021	41	0.46	0.00001	0.0001	0.0057	0.00054	0.0091
		May		0.00076	0.013	22	0.23	0.0000052	0.019	0.0044	4.7	0.00056	0.000021	40	0.45	0.00001	0.0001	0.0056	0.00054	0.0089
		June		0.00055	0.0036	5.4	0.073	0.000008	0.0046	0.0028	2.6	0.00056	0.000024	13	0.11	0.000012	0.0001	0.0014	0.001	0.0036
		July		0.0029	0.0093	12	0.35	0.000041	0.011	0.021	13	0.0031	0.00012	43	0.23	0.000052	0.00039	0.0038	0.0056	0.013
		August		0.0032	0.01	13	0.4	0.000047	0.012	0.024	14	0.0035	0.00014	48	0.25	0.000059	0.00044	0.0042	0.0064	0.015
		September		0.0015	0.006	8.0	0.18	0.000021	0.0074	0.0095	6.6	0.0016	0.000062	25	0.16	0.000028	0.00021	0.0024	0.0028	0.0075
		October		0.00085	0.0087	14	0.18	0.0000098	0.012	0.0056	4.6	0.00077	0.000031	29	0.29	0.000015	0.00013	0.0037	0.0012	0.0071
		November		0.00072	0.011	19	0.2	0.0000058	0.016	0.0043	4.4	0.00055	0.000022	35	0.39	0.000011	0.00011	0.0049	0.00063	0.008
		December		0.0007	0.012	20	0.21	0.0000052	0.017	0.004	4.3	0.00051	0.00002	36	0.4	0.00001	0.0001	0.005	0.00054	0.0081
		January	2021	0.00057	0.0096	16	0.17	0.0000051	0.014	0.0033	3.5	0.00042	0.000018	29	0.33	0.00001	0.0001	0.004	0.00052	0.0068
		February		0.00048	0.0081	13	0.14	0.0000051	0.011	0.0028	3.0	0.00035	0.000017	24	0.27	0.00001	0.0001	0.0034	0.00052	0.0058
		March		0.00046	0.0077	13	0.13	0.0000051	0.011	0.0027	2.9	0.00034	0.000016	23	0.26	0.00001	0.0001	0.0032	0.00052	0.0056
		April		0.00046	0.0076	13	0.13	0.0000051	0.011	0.0027	2.9	0.00033	0.000016	23	0.26	0.00001	0.0001	0.0031	0.00052	0.0055
		May		0.00046	0.0076	13	0.13	0.0000051	0.011	0.0027	2.8	0.00033	0.000016	23	0.26	0.00001	0.0001	0.0031	0.00052	0.0055
		June		0.00048	0.0023	3.1	0.05	0.000008	0.0025	0.0026	2.2	0.00051	0.000022	8.3	0.059	0.000012	0.0001	0.00083	0.0011	0.0028
		July		0.0028	0.0077	8.4	0.37	0.000043	0.0085	0.025	13	0.0031	0.00013	37	0.16	0.000057	0.00042	0.0031	0.006	0.013
		August		0.0032	0.0088	9.5	0.43	0.00005	0.0097	0.029	16	0.0036	0.00014	42	0.19	0.000066	0.00048	0.0035	0.0069	0.014
		September		0.0014	0.0047	5.6	0.18	0.000022	0.0053	0.011	6.8	0.0016	0.000063	20	0.11	0.00003	0.00023	0.0018	0.003	0.0068
		October		0.00071	0.0058	8.8	0.14	0.000011	0.0075	0.0057	4.0	0.0007	0.00003	19	0.18	0.000016	0.00014	0.0023	0.0013	0.0053
		November		0.00052	0.0072	12	0.13	0.0000064	0.010	0.0036	3.1	0.00041	0.000019	22	0.24	0.000012	0.00011	0.003	0.00071	0.0055
		December		0.00048	0.0075	12	0.13	0.0000056	0.01	0.0031	3.0	0.00036	0.000017	23	0.25	0.000011	0.00011	0.0031	0.00058	0.0055
		January	2022	0.0004	0.0064	10	0.11	0.0000054	0.0086	0.0027	2.5	0.0003	0.000016	19	0.21	0.00001	0.00011	0.0025	0.00056	0.0047
		February		0.00035	0.0055	8.8	0.092	0.0000054	0.0072	0.0024	2.2	0.00026	0.000015	16	0.18	0.00001	0.00011	0.0021	0.00056	0.0041
		March		0.00033	0.0052	8.3	0.088	0.0000054	0.0068	0.0023	2.1	0.00025	0.000015	15	0.17	0.00001	0.00011	0.002	0.00056	0.004
		April		0.00033	0.0052	8.2	0.087	0.0000054	0.0067	0.0023	2.1	0.00025	0.000015	15	0.17	0.00001	0.00011	0.002	0.00056	0.0039
		May		0.00033	0.0052	8.2	0.086	0.0000055	0.0067	0.0023	2.1	0.00025	0.000015	15	0.16	0.00001	0.00011	0.002	0.00056	0.0039
		June		0.00045	0.0019	2.3	0.06	0.0000081	0.0019	0.0042	2.1	0.00048	0.000023	6.9	0.044	0.000012	0.0001	0.00064	0.0010	0.0025
		July		0.0025	0.0075	6.7	0.66	0.000048	0.0079	0.058	14	0.0027	0.00015	31	0.13	0.000072	0.00052	0.0026	0.005	0.013
		August		0.0029	0.0095	8.2	0.95	0.000062	0.010	0.086	18	0.0031	0.00019	37	0.17	0.000097	0.00069	0.0031	0.0058	0.016
		September		0.0013	0.0048	4.6	0.41	0.000028	0.0051	0.037	7.9	0.0014	0.000087	18	0.093	0.000044	0.00032	0.0016	0.0027	0.0077
		October		0.00055	0.0045	5.7	0.25	0.000014	0.0053	0.021	4.1	0.00051	0.000042	13	0.12	0.000024	0.00019	0.0016	0.001	0.0048
		November		0.00037	0.0049	7.2	0.14	0.0000082	0.0061	0.0089	2.7	0.00031	0.000023	14	0.15	0.000015	0.00013	0.0018	0.0007	0.0042
		December		0.00035	0.005	7.5	0.1	0.0000069	0.0062	0.0047	2.3	0.00029	0.000018	14	0.15	0.000012	0.00012	0.0019	0.00067	0.004
		January	2023	0.00031	0.0043	6.3	0.082	0.0000066	0.0052	0.0035	2.0	0.00026	0.000017	12	0.13	0.000012	0.00011	0.0016	0.00067	0.0035
		February		0.00028	0.0038	5.5	0.071	0.0000066	0.0044	0.0031	1.8	0.00024	0.000016	10	0.11	0.000012	0.00011	0.0013	0.00068	0.0032
		March		0.00028	0.0037	5.4	0.069	0.0000066	0.0043	0.003	1.8	0.00024	0.000016	9.9	0.11	0.000012	0.00011	0.0013	0.00068	0.0032
		April		0.00027	0.0037	5.3	0.068	0.0000066	0.0042	0.003	1.8	0.00023	0.000016	9.8	0.11	0.000012	0.00011	0.0013	0.00068	0.0031
		May		0.00027	0.0037	5.3	0.068	0.0000066	0.0042	0.003	1.8	0.00023	0.000016	9.8	0.11	0.000012	0.00011	0.0013	0.00068	0.0031
		June		0.00044	0.0016	1.7	0.06	0.0000084	0.0014	0.0046	2.1	0.00048	0.000023	6.0	0.032	0.000013	0.0001	0.0005	0.001	0.0024
		July		0.0025	0.0068	5.6	0.65	0.000047	0.0069	0.053	13	0.0027	0.00014	30	0.11	0.000068	0.00051	0.0023	0.005	0.012
		August		0.0029	0.0085	6.8	0.94	0.000059	0.0086	0.075	16	0.0031	0.00018	35	0.14	0.000087	0.00065	0.0029	0.0058	0.015
		September		0.0013	0.0041	3.6	0.39	0.000026	0.0041	0.03	7.1	0.0014	0.000076	16						

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁵	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁷	Co	Cu ⁸	Fe
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Pit	Operations	January	2025	118	1.3	17	25	0.075	8.4	0.3	12	0.024	0.0002	0.00065	0.015	0.017	0.000029	0.000056	0.077	0.000016	9.9	0.00058	0.00049	0.0013	0.064
		February		109	1.3	15	21	0.069	7.6	0.3	12	0.02	0.0002	0.00064	0.015	0.014	0.000028	0.000055	0.07	0.000014	8.7	0.00057	0.00046	0.0012	0.062
		March		107	1.3	15	19	0.068	7.4	0.3	12	0.02	0.0002	0.00064	0.015	0.014	0.000028	0.000055	0.068	0.000014	8.4	0.00056	0.00045	0.0012	0.062
		April		106	1.3	15	19	0.067	7.3	0.3	12	0.019	0.0002	0.00064	0.015	0.014	0.000028	0.000055	0.068	0.000014	8.3	0.00056	0.00045	0.0012	0.062
		May		106	1.3	14	19	0.067	7.3	0.3	12	0.019	0.0002	0.00064	0.015	0.014	0.000028	0.000056	0.067	0.000014	8.3	0.00056	0.00045	0.0012	0.062
		June		89	1.3	16	5.4	0.043	7.4	0.3	12	0.0067	0.0002	0.0011	0.057	0.0095	0.00002	0.00003	0.15	0.00001	4.4	0.0014	0.00063	0.0016	0.27
		July		244	15	86	17	0.26	52	0.3	12	0.044	0.0002	0.0069	0.37	0.054	0.000073	0.000066	0.81	0.000057	24	0.0078	0.0047	0.0088	0.68
		August		284	19	100	21	0.35	66	0.3	12	0.062	0.0002	0.0082	0.42	0.069	0.000087	0.00008	0.91	0.000073	29	0.0087	0.006	0.011	0.7
		September		156	7.0	45	11	0.15	27	0.3	12	0.028	0.0002	0.0034	0.18	0.031	0.000042	0.000046	0.41	0.000033	13	0.0039	0.0025	0.0047	0.63
		October		116	3.7	20	15	0.099	14	0.3	12	0.024	0.0002	0.0013	0.054	0.019	0.000026	0.000042	0.13	0.00002	9.1	0.0012	0.0012	0.0021	0.26
		November		110	2.3	15	19	0.079	9.3	0.3	12	0.022	0.0002	0.00081	0.022	0.015	0.000027	0.000052	0.075	0.000015	9.0	0.00062	0.00067	0.0014	0.1
		December		109	1.8	15	20	0.072	8.2	0.3	12	0.021	0.0002	0.00073	0.018	0.014	0.000028	0.000055	0.072	0.000014	8.9	0.00061	0.00053	0.0013	0.075
		MINIMUM	53	0.000028	14	5.4	0.043	7.2	0.3	12	0.0067	0.00016	0.00017	0.0013	0.0095	0.00002	0.00003	0.067	0.00001	4.4	0.00044	0.00045	0.0012	0.03	
		MAXIMUM	556	23	137	242	0.4	74	0.3	12	0.19	0.0002	0.0086	0.57	0.12	0.00011	0.000097	1.2	0.00011	69	0.011	0.0063	0.011	0.7	
		AVERAGE	203	3.1	50	67	0.17	25	0.3	12	0.072	0.0002	0.002	0.1	0.046	0.000053	0.000063	0.34	0.000046	25	0.0025	0.0016	0.0035	0.25	
		MAXIMUM (total)	556	23	137	242	0.4	74	0.3	12	0.2	0.33	0.0086	0.58	0.12	0.00012	0.00010	1.2	0.00012	70	0.019	0.0068	0.011	1.4	
		AVERAGE (total)	203	3.1	50	67	0.17	25	0.3	12	0.084	0.33	0.002	0.1	0.049	0.00006	0.000066	0.34	0.000047	25	0.011	0.0021	0.004	0.95	
	January	2026	66	1.7	15	20	0.071	8.1	0.31	2.3	0.021	0.0002	0.00073	0.019	0.014	0.000028	0.000056	0.072	0.000014	8.9	0.00061	0.00051	0.0013	0.07	
	February		67	1.7	15	20	0.072	8.2	0.31	2.3	0.021	0.0002	0.00075	0.02	0.014	0.000028	0.000056	0.072	0.000014	9.0	0.00061	0.00051	0.0013	0.07	
	March		67	1.7	15	20	0.072	8.2	0.31	2.3	0.021	0.0002	0.00075	0.02	0.014	0.000028	0.000056	0.072	0.000014	9.0	0.00061	0.00051	0.0013	0.07	
	April		67	1.7	15	20	0.072	8.2	0.31	2.3	0.021	0.0002	0.00075	0.021	0.014	0.000028	0.000056	0.072	0.000014	9.0	0.00061	0.00051	0.0013	0.07	
	May		67	1.7	15	20	0.072	8.2	0.31	2.3	0.021	0.0002	0.00075	0.021	0.014	0.000028	0.000056	0.072	0.000014	9.0	0.00061	0.00051	0.0013	0.07	
	June		24	0.85	7.0	4.8	0.047	5.5	0.055	0.41	0.0049	0.0002	0.00072	0.048	0.0064	0.000016	0.000034	0.018	0.0000059	3.9	0.00021	0.0002	0.00061	0.04	
	July		27	1.1	8.1	4.2	0.061	7.6	0.035	0.25	0.0059	0.0002	0.0011	0.078	0.0075	0.000016	0.000033	0.018	0.0000066	4.5	0.00022	0.00026	0.00068	0.05	
	August		39	1.9	12	5.3	0.092	12	0.042	0.31	0.0087	0.0002	0.0017	0.13	0.011	0.00002	0.000036	0.025	0.0000092	6.4	0.00031	0.0004	0.0009	0.064	
	September		44	2.2	13	6.1	0.11	13	0.047	0.36	0.012	0.0002	0.0018	0.13	0.013	0.000022	0.000038	0.032	0.000011	7.1	0.00042	0.00053	0.0011	0.082	
	October		45	2.3	14	6.4	0.12	13	0.05	0.39	0.014	0.0002	0.0018	0.12	0.013	0.000023	0.000038	0.036	0.000012	7.0	0.00048	0.00059	0.0013	0.093	
	November		45	2.3	14	6.6	0.12	13	0.052	0.4	0.014	0.0002	0.0017	0.12	0.013	0.000024	0.000039	0.037	0.000012	7.0	0.0005	0.00061	0.0013	0.096	
	December		46	2.3	14	6.8	0.12	13	0.054	0.41	0.015	0.0002	0.0017	0.12	0.014	0.000024	0.000039	0.038	0.000013	7.0	0.00052	0.00063	0.0013	0.099	
	January	2027	46	2.3	14	7.0	0.12	12	0.056	0.43	0.015	0.0002	0.0017	0.11	0.014	0.000024	0.000039	0.039	0.000013	7.0	0.00053	0.00064	0.0014	0.1	
	February		46	2.3	15	7.1	0.12	12	0.058	0.45	0.016	0.0002	0.0017	0.11	0.014	0.000024	0.000039	0.04	0.000013	7.0	0.00054	0.00065	0.0014	0.1	
	March		47	2.3	15	7.3	0.12	12	0.06	0.46	0.016	0.0002	0.0016	0.11	0.014	0.000025	0.00004	0.041	0.000013	7.0	0.00055	0.00066	0.0014	0.11	
	April		47	2.3	15	7.5	0.12	12	0.062	0.48	0.017	0.0002	0.0016	0.1	0.014	0.000025	0.00004	0.042	0.000013	7.0	0.00057	0.00067	0.0014	0.11	
	May		47	2.3	15	7.7	0.12	12	0.064	0.5	0.017	0.0002	0.0016	0.1	0.014	0.000025	0.00004	0.043	0.000013	7.0	0.00057	0.00068	0.0014	0.11	
	June		45	2.1	14	7.9	0.12	11	0.067	0.52	0.017	0.0002	0.0014	0.086	0.014	0.000024	0.00004	0.043	0.000013	6.6	0.00056	0.00064	0.0014	0.11	
	July		43	2.0	13	7.8	0.11	10	0.066	0.51	0.017	0.0002	0.0013	0.079	0.013	0.000024	0.000039	0.041	0.000012	6.3	0.00054	0.00061	0.0013	0.1	
	August		45	2.1	14	7.9	0.12	11	0.069	0.53	0.017	0.0002	0.0014	0.09	0.014	0.000024	0.00004	0.042	0.000013	6.7	0.00055	0.00063	0.0014	0.1	
	September		45	2.0	13	8.0	0.11	10	0.11	0.85	0.016	0.0002	0.0013	0.078	0.013	0.000025	0.000043	0.044	0.000012	6.5	0.00055	0.00059	0.0013	0.096	
	October		44	1.9	13	8.1	0.097	9.2	0.13	1.0	0.015	0.0002	0.0012	0.067	0.012	0.000025	0.000045	0.044	0.000012	6.3	0.00055	0.00056	0.0013	0.091	
	November		44	1.9	13	8.1	0.097	9.2	0.13	1.0	0.015	0.0002	0.0012	0.066	0.012	0.000025	0.000045	0.045	0.000012	6.3	0.00055	0.00057	0.0013		

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1			
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.007			
Constituent				Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn		
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
Whale Tail Pit	Operations	January	2025	0.00025	0.0028	3.2	0.064	0.0000089	0.0024	0.0048	1.8	0.0003	0.000019	6.6	0.073	0.000014	0.00013	0.00077	0.00082	0.003		
		February		0.00024	0.0026	2.7	0.057	0.0000089	0.002	0.0045	1.7	0.00029	0.000019	5.7	0.063	0.000014	0.00013	0.00064	0.00083	0.0029		
		March		0.00023	0.0025	2.6	0.055	0.0000089	0.0019	0.0045	1.7	0.00029	0.000019	5.5	0.061	0.000014	0.00013	0.00061	0.00083	0.0028		
		April		0.00023	0.0025	2.5	0.055	0.0000089	0.0018	0.0045	1.7	0.00029	0.000019	5.4	0.06	0.000014	0.00013	0.0006	0.00083	0.0028		
		May		0.00023	0.0025	2.5	0.054	0.0000089	0.0018	0.0045	1.7	0.00029	0.000019	5.4	0.06	0.000014	0.00013	0.00059	0.00083	0.0028		
		June		0.00043	0.0014	1.2	0.058	0.0000088	0.001	0.0052	2.1	0.00049	0.000024	5.2	0.023	0.000013	0.00011	0.00038	0.001	0.0023		
		July		0.0025	0.0064	4.6	0.65	0.000048	0.006	0.057	13	0.0027	0.00015	28	0.095	0.000072	0.00052	0.002	0.0051	0.012		
		August		0.0029	0.0079	5.5	0.93	0.000059	0.0074	0.077	16	0.0031	0.00018	33	0.12	0.000089	0.00065	0.0025	0.0058	0.015		
		September		0.0013	0.0037	2.7	0.38	0.000026	0.0033	0.029	6.8	0.0014	0.000075	15	0.056	0.000038	0.00029	0.0012	0.0027	0.0067		
		October		0.00049	0.0026	2.3	0.22	0.000013	0.0022	0.016	3.0	0.00049	0.000033	7.3	0.052	0.00002	0.00017	0.00075	0.0011	0.0037		
		November		0.00028	0.0026	2.5	0.11	0.00001	0.0019	0.0085	2.1	0.00033	0.000023	5.8	0.06	0.000016	0.00014	0.00064	0.00086	0.0031		
		December		0.00025	0.0026	2.5	0.072	0.0000099	0.0019	0.0061	1.9	0.00033	0.000021	5.7	0.062	0.000015	0.00013	0.00062	0.00086	0.0031		
		MINIMUM			0.00023	0.0014	1.2	0.05	0.000005	0.001	0.0021	1.7	0.00023	0.000015	5.2	0.023	0.0000099	0.000082	0.00038	0.00052	0.0023	
		MAXIMUM			0.0032	0.017	29	0.95	0.000062	0.025	0.086	18	0.0036	0.00019	58	0.59	0.000097	0.00069	0.0074	0.0069	0.016	
		AVERAGE			0.00096	0.0063	8.8	0.23	0.000016	0.008	0.014	5.2	0.00097	0.000048	22	0.18	0.000025	0.0002	0.0024	0.0018	0.0067	
		MAXIMUM (total)			0.0034	0.017	29	0.96	0.000062	0.025	0.09	18	0.0036	0.00022	58	0.59	0.0001	0.0007	0.0074	0.0078	0.017	
		AVERAGE (total)			0.0011	0.0066	9.3	0.24	0.000016	0.008	0.018	5.4	0.00097	0.000069	22	0.18	0.00003	0.0002	0.0025	0.0027	0.0074	
	Closure	January	2026	0.00025	0.0026	2.5	0.066	0.0000099	0.0019	0.0056	1.9	0.00033	0.000021	5.7	0.062	0.000015	0.00013	0.00062	0.00087	0.0031		
		February		0.00025	0.0026	2.5	0.066	0.0000099	0.0019	0.0056	1.9	0.00033	0.000021	5.7	0.062	0.000015	0.00013	0.00062	0.00088	0.0031		
		March		0.00025	0.0026	2.5	0.066	0.0000099	0.0019	0.0056	1.9	0.00033	0.000021	5.7	0.062	0.000015	0.00013	0.00062	0.00088	0.0031		
		April		0.00025	0.0026	2.5	0.066	0.0000099	0.0019	0.0056	1.9	0.00033	0.000021	5.7	0.062	0.000015	0.00013	0.00062	0.00088	0.0031		
		May		0.00025	0.0026	2.5	0.066	0.0000099	0.0019	0.0056	1.9	0.00033	0.000021	5.7	0.062	0.000015	0.00013	0.00062	0.00088	0.0031		
		June		0.000087	0.0012	1.1	0.016	0.0000067	0.00082	0.0017	1.6	0.00015	0.0000096	1.5	0.022	0.0000096	0.00011	0.00039	0.0007	0.0016		
		July		0.000098	0.0013	1.1	0.027	0.0000083	0.0011	0.002	2.2	0.00019	0.0000097	1.6	0.024	0.000011	0.00013	0.00055	0.00089	0.0019		
		August		0.00014	0.0018	1.5	0.048	0.000012	0.0017	0.0031	3.5	0.00028	0.000012	2.3	0.032	0.000014	0.00018	0.00088	0.0013	0.0027		
		September		0.00019	0.0021	1.6	0.074	0.000014	0.0021	0.0043	3.8	0.00032	0.000014	2.9	0.036	0.000015	0.0002	0.001	0.0014	0.0032		
		October		0.00021	0.0021	1.6	0.089	0.000015	0.0021	0.0048	3.7	0.00032	0.000014	3.3	0.036	0.000015	0.0002	0.0011	0.0014	0.0033		
		November		0.00022	0.0021	1.6	0.093	0.000015	0.0021	0.005	3.7	0.00032	0.000014	3.4	0.036	0.000015	0.00021	0.0011	0.0014	0.0033		
		December		0.00023	0.0021	1.6	0.096	0.000015	0.0021	0.0052	3.7	0.00033	0.000014	3.5	0.037	0.000015	0.00021	0.0011	0.0014	0.0034		
		January	2027	0.00024	0.0021	1.6	0.10	0.000015	0.0022	0.0053	3.6	0.00033	0.000015	3.6	0.037	0.000015	0.00021	0.0011	0.0014	0.0034		
		February		0.00024	0.0022	1.6	0.1	0.000015	0.0022	0.0054	3.6	0.00033	0.000015	3.7	0.037	0.000015	0.00021	0.0011	0.0014	0.0034		
		March		0.00025	0.0022	1.7	0.1	0.000015	0.0022	0.0055	3.6	0.00033	0.000015	3.8	0.037	0.000015	0.00021	0.0011	0.0014	0.0034		
		April		0.00025	0.0022	1.7	0.11	0.000015	0.0022	0.0056	3.5	0.00033	0.000015	3.8	0.038	0.000015	0.00021	0.0011	0.0014	0.0034		
		May		0.00025	0.0022	1.7	0.11	0.000015	0.0022	0.0057	3.5	0.00033	0.000015	3.9	0.038	0.000015	0.0002	0.0011	0.0014	0.0035		
		June		0.00025	0.0021	1.6	0.1	0.000014	0.002	0.0055	3.1	0.0003	0.000015	3.9	0.037	0.000015	0.00019	0.00098	0.0013	0.0032		
		July		0.00024	0.002	1.6	0.099	0.000013	0.0019	0.0052	2.9	0.00028	0.000014	3.7	0.035	0.000014	0.00018	0.00092	0.0012	0.0031		
		August		0.00024	0.0021	1.6	0.1	0.000014	0.002	0.0053	3.2	0.0003	0.000015	3.8	0.037	0.000015	0.00019	0.00098	0.0013	0.0032		
		September		0.00024	0.0021	1.6	0.091	0.000013	0.0018	0.0053	2.9	0.0003	0.000016	3.7	0.037	0.000015	0.00018	0.00085	0.0012	0.0031		
		October		0.00023	0.002	1.5	0.083	0.000013	0.0016	0.0052	2.6	0.0003	0.000016	3.6	0.036	0.000015	0.00017	0.00075	0.0012	0.003		
		November		0.00023	0.002	1.5	0.085	0.000013	0.0016	0.0052	2.7	0.0003	0.000016	3.6	0.036	0.000015	0.00017	0.00076	0.0012	0.003		
		December		0.00023	0.002	1.5	0.086	0.000013	0.0016	0.0053	2.7	0.0003	0.000016	3.6	0.036	0.000015	0.00017	0.00076	0.0012	0.003		
		January	2028	0.00023	0.002	1.5	0.087	0.000013	0.0016	0.0053	2.7	0.0003	0.000016	3.6	0.036	0.000015	0.00017	0.00076	0.0012	0.0031		
		February		0.00024	0.002	1.5	0.087	0.000013	0.0016	0.0053	2.7	0.0003	0.000016	3.6	0.036	0.000015	0.00017	0.00077	0.0012	0.0031		
		March		0.00024	0.002	1.5	0.088	0.000013	0.0016	0.0053	2.7	0.0003	0.000016	3.7	0.036	0.000015	0.00017	0.00077	0.0012	0.0031		
		April		0.00024	0.002	1.5	0.089	0.000013	0.0016	0.0054	2.6	0.0003	0.000016	3.7	0.036	0.000015	0.00018	0.00077	0.0012	0.0031		
		May		0.00024	0.0021	1.5	0.09	0.000013	0.0016	0.0054	2.6	0.0003	0.000016	3.7	0.036	0.000015	0.00018	0.00077	0.0012	0.0031		
		June		0.00022	0.0019	1.4	0.075	0.000012	0.0014	0.005	2.3	0.00028	0.000017	3.4	0.035	0.000015	0.00016	0.00063	0.0011	0.0028		
		July		0.0002	0.0019	1.4	0.063	0.000011	0.0011	0.0046	2.0	0.00026	0.000017	3.2	0.034	0.000014	0.00015	0.00052	0.00098	0.0027		
		August		0.0002	0.0019	1.4	0.064	0.000011	0.0012	0.0047	2.1	0.00027	0.000017	3.2	0.034	0.000014	0.00015	0.00053	0.00099	0.0027		
		September		0.0002	0.0019	1.4	0.064	0.000011	0.0012	0.0047	2.1	0.00027	0.000017	3.2	0.034	0.000015	0.00015	0.00053	0.0010	0.0027		
		October		0.0002	0.0019	1.4	0.063	0.000011	0.0012	0.0046	2.0	0.00027	0.000017	3.2	0.034	0.000014	0.00015	0.00052	0.00099	0.		

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ³	Sb	As ³	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁵	Co	Cu ⁶	Fe
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Pit	Closure	January	2030	38	1.5	11	7.5	0.071	6.4	0.16	1.3	0.012	0.0002	0.00078	0.037	0.0096	0.000024	0.000049	0.041	0.0000097	5.3	0.00048	0.00044	0.0011	0.071
		February		38	1.5	11	7.5	0.071	6.4	0.16	1.3	0.012	0.0002	0.00078	0.037	0.0097	0.000024	0.000049	0.041	0.0000097	5.3	0.00048	0.00044	0.0011	0.071
		March		38	1.5	11	7.5	0.071	6.4	0.16	1.3	0.012	0.0002	0.00078	0.037	0.0097	0.000024	0.000049	0.041	0.0000097	5.3	0.00048	0.00044	0.0011	0.071
		April		38	1.5	11	7.5	0.071	6.4	0.16	1.3	0.012	0.0002	0.00078	0.037	0.0097	0.000024	0.000049	0.041	0.0000097	5.3	0.00048	0.00044	0.0011	0.071
		May		38	1.5	11	7.5	0.072	6.4	0.16	1.3	0.012	0.0002	0.00078	0.037	0.0097	0.000024	0.000049	0.041	0.0000097	5.3	0.00048	0.00044	0.0011	0.071
		June		37	1.4	11	7.4	0.069	6.2	0.16	1.3	0.012	0.0002	0.00075	0.035	0.0095	0.000024	0.00005	0.04	0.0000095	5.2	0.00047	0.00042	0.0011	0.069
		July		36	1.3	10	7.2	0.067	6.0	0.16	1.2	0.011	0.0002	0.00072	0.033	0.0092	0.000024	0.00005	0.039	0.0000093	5.0	0.00045	0.00041	0.0011	0.067
		August		36	1.4	10	7.2	0.067	6.0	0.16	1.2	0.011	0.0002	0.00073	0.034	0.0092	0.000024	0.00005	0.039	0.0000093	5.1	0.00046	0.00041	0.0011	0.067
		September		36	1.4	10	7.2	0.068	6.0	0.15	1.2	0.011	0.0002	0.00073	0.034	0.0092	0.000024	0.00005	0.039	0.0000093	5.1	0.00045	0.00041	0.0011	0.067
		October		35	1.3	10	7.1	0.067	6.0	0.15	1.2	0.011	0.0002	0.00072	0.033	0.0092	0.000024	0.00005	0.039	0.0000093	5.0	0.00045	0.00041	0.0011	0.066
		November		35	1.3	10	7.1	0.067	6.0	0.15	1.2	0.011	0.0002	0.00072	0.033	0.0092	0.000024	0.00005	0.039	0.0000093	5.0	0.00045	0.00041	0.0011	0.067
		December		35	1.3	10	7.1	0.068	6.0	0.15	1.2	0.011	0.0002	0.00072	0.033	0.0092	0.000024	0.00005	0.039	0.0000093	5.0	0.00045	0.00041	0.0011	0.067
		January	2031	35	1.3	10	7.1	0.068	6.0	0.15	1.2	0.011	0.0002	0.00072	0.033	0.0092	0.000024	0.00005	0.039	0.0000093	5.0	0.00045	0.00041	0.0011	0.067
		February		35	1.3	10	7.1	0.068	6.0	0.15	1.2	0.011	0.0002	0.00072	0.033	0.0092	0.000024	0.00005	0.039	0.0000093	5.0	0.00045	0.00041	0.0011	0.067
		March		35	1.3	10	7.1	0.068	6.0	0.15	1.2	0.011	0.0002	0.00072	0.033	0.0092	0.000024	0.00005	0.039	0.0000093	5.0	0.00045	0.00041	0.0011	0.067
		April		35	1.3	10	7.1	0.068	6.0	0.15	1.2	0.011	0.0002	0.00072	0.033	0.0092	0.000024	0.00005	0.039	0.0000093	5.0	0.00045	0.00041	0.0011	0.067
		May		35	1.4	10	7.1	0.068	6.0	0.15	1.2	0.011	0.0002	0.00072	0.033	0.0092	0.000024	0.00005	0.039	0.0000093	5.0	0.00046	0.00041	0.0011	0.067
		June		35	1.3	10	7.0	0.066	5.8	0.15	1.2	0.011	0.0002	0.0007	0.032	0.0091	0.000024	0.00005	0.038	0.0000092	4.9	0.00044	0.0004	0.0011	0.066
		July		34	1.3	9.9	6.8	0.065	5.6	0.14	1.1	0.011	0.0002	0.00067	0.031	0.0088	0.000024	0.00005	0.037	0.000009	4.8	0.00043	0.00039	0.001	0.064
		August		34	1.3	9.9	6.8	0.065	5.7	0.14	1.1	0.011	0.0002	0.00068	0.031	0.0089	0.000024	0.00005	0.037	0.000009	4.8	0.00043	0.00039	0.001	0.064
		September		34	1.3	9.9	6.8	0.065	5.7	0.14	1.1	0.011	0.0002	0.00068	0.031	0.0089	0.000024	0.00005	0.037	0.000009	4.8	0.00043	0.00039	0.001	0.064
		October		33	1.3	9.8	6.7	0.065	5.6	0.14	1.1	0.01	0.0002	0.00068	0.031	0.0088	0.000024	0.00005	0.037	0.000009	4.8	0.00043	0.00039	0.001	0.063
		November		33	1.3	9.8	6.7	0.065	5.6	0.14	1.1	0.011	0.0002	0.00068	0.031	0.0089	0.000024	0.00005	0.037	0.000009	4.8	0.00043	0.00039	0.001	0.064
		December		33	1.3	9.9	6.7	0.065	5.6	0.14	1.1	0.011	0.0002	0.00068	0.031	0.0089	0.000024	0.00005	0.037	0.000009	4.8	0.00043	0.00039	0.001	0.064
		January	2032	33	1.3	9.9	6.7	0.065	5.6	0.14	1.1	0.011	0.0002	0.00068	0.031	0.0089	0.000024	0.00005	0.037	0.000009	4.8	0.00043	0.00039	0.001	0.064
		February		33	1.3	9.9	6.8	0.065	5.6	0.14	1.1	0.011	0.0002	0.00068	0.031	0.0089	0.000024	0.00005	0.037	0.000009	4.8	0.00043	0.00039	0.001	0.064
		March		33	1.3	9.9	6.8	0.065	5.7	0.14	1.1	0.011	0.0002	0.00068	0.031	0.0089	0.000024	0.00005	0.037	0.000009	4.8	0.00043	0.00039	0.001	0.064
		April		33	1.3	9.9	6.8	0.066	5.7	0.14	1.1	0.011	0.0002	0.00068	0.031	0.0089	0.000024	0.00005	0.037	0.000009	4.8	0.00043	0.00039	0.001	0.064
		May		33	1.3	9.9	6.8	0.066	5.7	0.14	1.1	0.011	0.0002	0.00068	0.031	0.0089	0.000024	0.00005	0.037	0.000009	4.8	0.00043	0.00039	0.001	0.064
		June		33	1.2	9.7	6.6	0.064	5.5	0.14	1.1	0.01	0.0002	0.00066	0.03	0.0087	0.000023	0.00005	0.036	0.0000089	4.7	0.00042	0.00038	0.001	0.063
		July		32	1.2	9.5	6.5	0.063	5.3	0.13	1.0	0.01	0.0002	0.00064	0.029	0.0086	0.000023	0.00005	0.035	0.0000088	4.6	0.00041	0.00037	0.001	0.061
		August		32	1.2	9.5	6.5	0.063	5.4	0.13	1.0	0.01	0.0002	0.00064	0.029	0.0086	0.000023	0.00005	0.035	0.0000088	4.6	0.00041	0.00037	0.001	0.061
		September		32	1.2	9.5	6.4	0.063	5.4	0.13	1.0	0.010	0.0002	0.00064	0.029	0.0086	0.000023	0.00005	0.035	0.0000088	4.6	0.00041	0.00037	0.001	0.061
		October		32	1.2	9.5	6.4	0.063	5.3	0.13	0.99	0.0099	0.0002	0.00064	0.029	0.0086	0.000023	0.00005	0.035	0.0000087	4.6	0.00041	0.00037	0.001	0.061
		November		32	1.2	9.5	6.4	0.063	5.3	0.13	0.99	0.010	0.0002	0.00064	0.029	0.0086	0.000023	0.00005	0.035	0.0000088	4.6	0.00041	0.00037	0.001	0.061
		December		32	1.2	9.5	6.4	0.063	5.4	0.13	0.99	0.010	0.0002	0.00064	0.029	0.0086	0.000023	0.00005	0.035	0.0000088	4.6	0.00041	0.00037	0.001	0.061
		January	2033	32	1.2	9.5	6.4	0.063	5.4	0.13	0.99	0.010	0.0002	0.00064	0.029	0.0086	0.000023	0.00005	0.035	0.0000088	4.6	0.00041	0.00037	0.001	0.061
		February		32	1.2	9.5	6.4	0.063	5.4</																

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.007	
Constituent				Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Pit	Closure	January	2030	0.00019	0.0018	1.3	0.058	0.00001	0.001	0.0043	1.9	0.00025	0.000016	3.0	0.032	0.000014	0.00015	0.00047	0.00094	0.0025
		February		0.00019	0.0018	1.3	0.058	0.00001	0.001	0.0044	1.9	0.00025	0.000016	3.0	0.032	0.000014	0.00015	0.00047	0.00094	0.0025
		March		0.00019	0.0018	1.3	0.058	0.00001	0.001	0.0044	1.9	0.00025	0.000016	3.0	0.032	0.000014	0.00015	0.00047	0.00094	0.0025
		April		0.00019	0.0018	1.3	0.058	0.00001	0.001	0.0044	1.9	0.00025	0.000016	3.0	0.032	0.000014	0.00015	0.00047	0.00094	0.0026
		May		0.00019	0.0018	1.3	0.059	0.00001	0.001	0.0044	1.9	0.00025	0.000016	3.0	0.032	0.000014	0.00015	0.00047	0.00094	0.0026
		June		0.00019	0.0018	1.3	0.056	0.00001	0.00099	0.0042	1.8	0.00024	0.000016	2.9	0.031	0.000014	0.00014	0.00045	0.00092	0.0025
		July		0.00018	0.0017	1.2	0.053	0.000010	0.00094	0.0041	1.7	0.00023	0.000016	2.8	0.031	0.000014	0.00014	0.00042	0.0009	0.0024
		August		0.00018	0.0017	1.3	0.053	0.00001	0.00095	0.0041	1.7	0.00024	0.000016	2.8	0.031	0.000014	0.00014	0.00043	0.00091	0.0024
		September		0.00018	0.0017	1.2	0.053	0.00001	0.00095	0.0041	1.7	0.00024	0.000016	2.8	0.031	0.000014	0.00014	0.00043	0.00091	0.0024
		October		0.00018	0.0017	1.2	0.053	0.00001	0.00095	0.0041	1.7	0.00023	0.000016	2.8	0.031	0.000014	0.00014	0.00043	0.00091	0.0024
		November		0.00018	0.0017	1.2	0.053	0.00001	0.00095	0.0041	1.7	0.00023	0.000016	2.8	0.031	0.000014	0.00014	0.00043	0.00091	0.0024
		December		0.00018	0.0017	1.2	0.053	0.00001	0.00095	0.0041	1.7	0.00023	0.000016	2.8	0.031	0.000014	0.00014	0.00043	0.00091	0.0024
		January	2031	0.00018	0.0017	1.2	0.054	0.00001	0.00095	0.0041	1.7	0.00023	0.000016	2.8	0.031	0.000014	0.00014	0.00043	0.00091	0.0024
		February		0.00018	0.0017	1.2	0.054	0.00001	0.00095	0.0041	1.7	0.00023	0.000016	2.8	0.031	0.000014	0.00014	0.00043	0.00091	0.0024
		March		0.00018	0.0017	1.2	0.054	0.00001	0.00095	0.0041	1.7	0.00023	0.000016	2.8	0.031	0.000014	0.00014	0.00043	0.00091	0.0024
		April		0.00018	0.0017	1.2	0.054	0.00001	0.00096	0.0041	1.7	0.00023	0.000016	2.8	0.031	0.000014	0.00014	0.00043	0.00091	0.0024
		May		0.00018	0.0017	1.2	0.054	0.00001	0.00096	0.0041	1.7	0.00023	0.000016	2.8	0.031	0.000014	0.00014	0.00043	0.00091	0.0024
		June		0.00018	0.0017	1.2	0.052	0.0000099	0.00092	0.004	1.7	0.00023	0.000016	2.7	0.03	0.000014	0.00014	0.00042	0.00089	0.0024
		July		0.00017	0.0017	1.2	0.05	0.0000097	0.00088	0.0038	1.6	0.00022	0.000016	2.6	0.029	0.000014	0.00014	0.0004	0.00088	0.0023
		August		0.00017	0.0017	1.2	0.05	0.0000097	0.00089	0.0038	1.6	0.00022	0.000016	2.6	0.029	0.000014	0.00014	0.00041	0.00088	0.0024
		September		0.00017	0.0017	1.2	0.05	0.0000097	0.00089	0.0038	1.6	0.00022	0.000016	2.6	0.029	0.000014	0.00014	0.00041	0.00088	0.0024
		October		0.00017	0.0017	1.2	0.05	0.0000097	0.00089	0.0038	1.6	0.00022	0.000016	2.6	0.029	0.000014	0.00014	0.0004	0.00088	0.0023
		November		0.00017	0.0017	1.2	0.05	0.0000097	0.00089	0.0038	1.6	0.00022	0.000016	2.6	0.029	0.000014	0.00014	0.0004	0.00088	0.0023
		December		0.00017	0.0017	1.2	0.05	0.0000097	0.00089	0.0038	1.6	0.00022	0.000016	2.6	0.029	0.000014	0.00014	0.00041	0.00088	0.0023
		January	2032	0.00017	0.0017	1.2	0.05	0.0000097	0.00089	0.0038	1.6	0.00022	0.000016	2.6	0.029	0.000014	0.00014	0.00041	0.00088	0.0024
		February		0.00017	0.0017	1.2	0.05	0.0000097	0.00089	0.0038	1.6	0.00022	0.000016	2.6	0.029	0.000014	0.00014	0.00041	0.00088	0.0024
		March		0.00017	0.0017	1.2	0.051	0.0000097	0.00089	0.0038	1.6	0.00022	0.000016	2.6	0.029	0.000014	0.00014	0.00041	0.00088	0.0024
		April		0.00017	0.0017	1.2	0.051	0.0000097	0.0009	0.0038	1.6	0.00022	0.000016	2.6	0.029	0.000014	0.00014	0.00041	0.00088	0.0024
		May		0.00017	0.0017	1.2	0.051	0.0000098	0.0009	0.0038	1.6	0.00022	0.000016	2.6	0.029	0.000014	0.00014	0.00041	0.00088	0.0024
		June		0.00017	0.0017	1.2	0.049	0.0000096	0.00087	0.0037	1.6	0.00021	0.000015	2.6	0.029	0.000014	0.00014	0.0004	0.00087	0.0023
		July		0.00017	0.0016	1.2	0.047	0.0000094	0.00084	0.0036	1.6	0.00021	0.000015	2.5	0.028	0.000013	0.00014	0.00038	0.00086	0.0023
		August		0.00017	0.0016	1.2	0.047	0.0000095	0.00085	0.0036	1.6	0.00021	0.000015	2.5	0.028	0.000013	0.00014	0.00039	0.00086	0.0023
		September		0.00017	0.0016	1.2	0.047	0.0000095	0.00084	0.0036	1.6	0.00021	0.000015	2.5	0.028	0.000013	0.00014	0.00039	0.00086	0.0023
		October		0.00017	0.0016	1.2	0.047	0.0000095	0.00084	0.0036	1.6	0.00021	0.000015	2.5	0.028	0.000013	0.00014	0.00038	0.00086	0.0023
		November		0.00017	0.0016	1.2	0.047	0.0000095	0.00084	0.0036	1.6	0.00021	0.000015	2.5	0.028	0.000013	0.00014	0.00038	0.00086	0.0023
		December		0.00017	0.0016	1.2	0.047	0.0000095	0.00084	0.0036	1.6	0.00021	0.000015	2.5	0.028	0.000013	0.00014	0.00039	0.00086	0.0023
		January	2033	0.00017	0.0016	1.2	0.048	0.0000095	0.00084	0.0036	1.6	0.00021	0.000015	2.5	0.028	0.000013	0.00014	0.00039	0.00086	0.0023
		February		0.00017	0.0016	1.2	0.048	0.0000095	0.00084	0.0036	1.6	0.00021	0.000015	2.5	0.028	0.000013	0.00014	0.00039	0.00086	0.0023
		March		0.00017	0.0016	1.2	0.048	0.0000095	0.00085	0.0036	1.6	0.00021	0.000015	2.5	0.028	0.000013	0.00014	0.00039	0.00086	0.0023
		April		0.00017	0.0016	1.2	0.048	0.0000095	0.00085	0.0036	1.6	0.00021	0.000015	2.5	0.028	0.000013	0.00014	0.00039	0.00086	0.0023
		May		0.00017	0.0016	1.2	0.048	0.0000095	0.00085	0.0036	1.6	0.00021	0.000015	2.5	0.028	0.000013	0.00014	0.00039	0.00086	0.0023
		June		0.00016	0.0016	1.2	0.047	0.0000094	0.00082	0.0035	1.5	0.0002	0.000015	2.4	0.028	0.000013	0.00014	0.00038	0.00085	0.0022
		July		0.00016	0.0016	1.1	0.045	0.0000092	0.0008	0.0034	1.5	0.0002	0.000015	2.3	0.027	0.000013	0.00014	0.00037	0.00084	0.0022
		August		0.00016	0.0016	1.1	0.045	0.0000093	0.0008	0.0034	1.5	0.0002	0.000015	2.3	0.027	0.000013	0.00014	0.00037	0.00084	0.0022
		September		0.00016	0.0016	1.1	0.045	0.0000093	0.0008	0.0034	1.5	0.0002	0.000015	2.3	0.027	0.000013	0.00014	0.00037	0.00084	0.0022
		October		0.00016	0.0016	1.1	0.045	0.0000092	0.0008	0.0034	1.5	0.0002	0.000015	2.3	0.027	0.000013	0.00014	0.00037	0.00084	0.0022
		November		0.00016	0.0016	1.1	0.045	0.0000092	0.0008	0.0034	1.5	0.0002	0.000015	2.3	0.027	0.000013	0.00014	0.00037	0.00084	0.0022
		December		0.00016	0.0016	1.1	0.045	0.0000093	0.0008	0.0034	1.5	0.0002	0.000015	2.3	0.027	0.000013	0.00014	0.00037	0.00084	0.0022
		January	2034	0.00016	0.0016	1.1	0.045	0.0000093	0.0008	0.0034	1.5	0.0002	0.000015	2.3	0.02.					

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1						0.002		0.02		0.1	1.0
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3	
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ³	Sb	As ³	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁵	Co	Cu ⁶	Fe	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Whale Tail Pit	Closure	January	2036	28	0.99	8.7	5.5	0.059	4.7	0.098	0.75	0.0087	0.0002	0.00055	0.025	0.0079	0.000023	0.000049	0.03	0.0000082	4.1	0.00036	0.00034	0.00093	0.056	
		February		28	0.99	8.7	5.5	0.059	4.7	0.098	0.75	0.0087	0.0002	0.00055	0.025	0.0079	0.000023	0.000049	0.03	0.0000082	4.1	0.00036	0.00034	0.00093	0.056	
		March		28	0.99	8.7	5.5	0.059	4.7	0.098	0.75	0.0087	0.0002	0.00055	0.025	0.0079	0.000023	0.000049	0.03	0.0000082	4.1	0.00036	0.00034	0.00093	0.056	
		April		28	0.99	8.7	5.5	0.059	4.7	0.098	0.75	0.0088	0.0002	0.00055	0.025	0.0079	0.000023	0.000049	0.03	0.0000082	4.1	0.00036	0.00034	0.00093	0.056	
		May		28	0.99	8.7	5.5	0.059	4.7	0.098	0.75	0.0088	0.0002	0.00055	0.025	0.0079	0.000023	0.000049	0.03	0.0000082	4.1	0.00036	0.00034	0.00093	0.056	
		June		27	0.97	8.6	5.4	0.059	4.6	0.095	0.73	0.0086	0.0002	0.00054	0.025	0.0079	0.000023	0.000049	0.029	0.0000082	4.0	0.00035	0.00033	0.00092	0.055	
		July		27	0.95	8.5	5.3	0.058	4.5	0.092	0.71	0.0084	0.0002	0.00053	0.024	0.0078	0.000023	0.000049	0.029	0.0000081	4.0	0.00035	0.00033	0.00091	0.054	
		August		27	0.95	8.5	5.3	0.058	4.6	0.092	0.71	0.0085	0.0002	0.00053	0.024	0.0078	0.000023	0.000049	0.029	0.0000081	4.0	0.00035	0.00033	0.00091	0.054	
		September		27	0.95	8.5	5.3	0.058	4.5	0.091	0.7	0.0084	0.0002	0.00053	0.024	0.0078	0.000023	0.000049	0.029	0.0000081	4.0	0.00035	0.00033	0.00091	0.054	
		October		26	0.94	8.5	5.3	0.058	4.5	0.09	0.69	0.0084	0.0002	0.00053	0.024	0.0078	0.000023	0.000049	0.029	0.0000081	4.0	0.00034	0.00033	0.00091	0.054	
		November		26	0.95	8.5	5.3	0.058	4.5	0.09	0.69	0.0084	0.0002	0.00053	0.024	0.0078	0.000023	0.000049	0.029	0.0000081	4.0	0.00035	0.00033	0.00091	0.054	
		December		26	0.95	8.5	5.3	0.058	4.5	0.09	0.69	0.0084	0.0002	0.00053	0.024	0.0078	0.000023	0.000049	0.029	0.0000081	4.0	0.00035	0.00033	0.00091	0.055	
		January	2037	26	0.95	8.5	5.3	0.058	4.5	0.09	0.69	0.0084	0.0002	0.00053	0.024	0.0078	0.000023	0.000049	0.029	0.0000081	4.0	0.00035	0.00033	0.00091	0.055	
		February		26	0.95	8.5	5.3	0.059	4.5	0.09	0.69	0.0085	0.0002	0.00053	0.024	0.0078	0.000023	0.000049	0.029	0.0000081	4.0	0.00035	0.00033	0.00091	0.055	
		March		26	0.95	8.5	5.3	0.059	4.5	0.09	0.69	0.0085	0.0002	0.00053	0.024	0.0078	0.000023	0.000049	0.029	0.0000081	4.0	0.00035	0.00033	0.00092	0.055	
		April		26	0.95	8.5	5.3	0.059	4.5	0.09	0.69	0.0085	0.0002	0.00053	0.024	0.0078	0.000023	0.000049	0.029	0.0000081	4.0	0.00035	0.00033	0.00092	0.055	
		May		26	0.95	8.6	5.3	0.059	4.5	0.09	0.69	0.0085	0.0002	0.00053	0.024	0.0078	0.000023	0.000049	0.029	0.0000081	4.0	0.00035	0.00033	0.00092	0.055	
		June		26	0.93	8.5	5.2	0.058	4.5	0.088	0.67	0.0084	0.0002	0.00052	0.024	0.0077	0.000023	0.000049	0.028	0.0000081	3.9	0.00034	0.00032	0.00091	0.054	
		July		26	0.91	8.4	5.1	0.057	4.4	0.085	0.65	0.0082	0.0002	0.00051	0.023	0.0076	0.000023	0.000049	0.028	0.000008	3.9	0.00034	0.00032	0.0009	0.053	
		August		26	0.91	8.4	5.1	0.058	4.4	0.085	0.65	0.0082	0.0002	0.00051	0.024	0.0076	0.000023	0.000049	0.028	0.000008	3.9	0.00034	0.00032	0.0009	0.053	
		September		26	0.91	8.4	5.1	0.058	4.4	0.084	0.64	0.0082	0.0002	0.00051	0.024	0.0076	0.000023	0.000049	0.028	0.000008	3.9	0.00034	0.00032	0.0009	0.053	
		October		26	0.91	8.4	5.1	0.058	4.4	0.084	0.64	0.0082	0.0002	0.00051	0.023	0.0076	0.000023	0.000049	0.028	0.000008	3.9	0.00033	0.00032	0.0009	0.053	
		November		26	0.91	8.4	5.1	0.058	4.4	0.083	0.64	0.0082	0.0002	0.00051	0.023	0.0076	0.000023	0.000049	0.028	0.000008	3.9	0.00034	0.00032	0.0009	0.053	
		December		26	0.91	8.4	5.1	0.058	4.4	0.083	0.64	0.0082	0.0002	0.00051	0.023	0.0076	0.000023	0.000049	0.028	0.000008	3.9	0.00034	0.00032	0.0009	0.053	
		January	2038	26	0.91	8.4	5.1	0.058	4.4	0.083	0.64	0.0082	0.0002	0.00051	0.023	0.0076	0.000023	0.000049	0.028	0.000008	3.9	0.00034	0.00032	0.0009	0.054	
		February		26	0.91	8.4	5.1	0.058	4.4	0.083	0.64	0.0082	0.0002	0.00051	0.023	0.0076	0.000023	0.000049	0.028	0.000008	3.9	0.00034	0.00032	0.0009	0.054	
		March		26	0.91	8.4	5.1	0.058	4.4	0.083	0.64	0.0082	0.0002	0.00051	0.023	0.0076	0.000023	0.000049	0.028	0.000008	3.9	0.00034	0.00032	0.0009	0.054	
		April		26	0.91	8.4	5.1	0.058	4.4	0.083	0.64	0.0082	0.0002	0.00051	0.023	0.0077	0.000023	0.000049	0.028	0.000008	3.9	0.00034	0.00032	0.0009	0.054	
		May		26	0.91	8.4	5.1	0.058	4.4	0.083	0.64	0.0082	0.0002	0.00051	0.023	0.0077	0.000023	0.000049	0.028	0.000008	3.9	0.00034	0.00032	0.0009	0.054	
		June		25	0.89	8.3	5.0	0.057	4.3	0.081	0.62	0.0081	0.0002	0.0005	0.023	0.0076	0.000023	0.000049	0.027	0.000008	3.8	0.00033	0.00032	0.00089	0.053	
		July		25	0.87	8.2	4.9	0.057	4.3	0.079	0.6	0.008	0.0002	0.00049	0.023	0.0075	0.000023	0.000049	0.027	0.0000079	3.8	0.00033	0.00031	0.00088	0.052	
		August		25	0.88	8.2	4.9	0.057	4.3	0.079	0.6	0.008	0.0002	0.00049	0.023	0.0075	0.000023	0.000049	0.027	0.0000079	3.8	0.00033	0.00031	0.00089	0.053	
		September		25	0.88	8.2	4.9	0.057	4.3	0.078	0.6	0.008	0.0002	0.00049	0.023	0.0075	0.000023	0.000049	0.027	0.0000079	3.8	0.00033	0.00031	0.00089	0.053	
		October		25	0.87	8.2	4.9	0.057	4.3	0.078	0.59	0.0079	0.0002	0.00049	0.023	0.0075	0.000023	0.000049	0.027	0.0000079	3.8	0.00033	0.00031	0.00088	0.053	
		November		25	0.87	8.2	4.9	0.057	4.3	0.078	0.59	0.008	0.0002	0.00049	0.023	0.0075	0.000023	0.000049	0.027	0.0000079	3.8	0.00033	0.00031	0.00089	0.053	
		December		25	0.88	8.2	4.9	0.057	4.3	0.078	0.59	0.008	0.0002	0.00049	0.023	0.0075	0.000023	0.000049	0.027	0.0000079	3.8	0.00033	0.00031	0.00089	0.053	
		January	2039	25	0.88	8.2	4.9	0.05																		

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.007	
Constituent				Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Pit	Closure	January	2036	0.00015	0.0015	1.1	0.042	0.0000089	0.00073	0.0031	1.4	0.00018	0.000014	2.1	0.025	0.000013	0.00013	0.00034	0.00081	0.0021
		February		0.00015	0.0015	1.1	0.042	0.0000089	0.00073	0.0031	1.4	0.00018	0.000014	2.1	0.025	0.000013	0.00013	0.00034	0.00081	0.0021
		March		0.00015	0.0015	1.1	0.042	0.0000089	0.00073	0.0031	1.4	0.00018	0.000014	2.1	0.025	0.000013	0.00013	0.00034	0.00081	0.0021
		April		0.00015	0.0015	1.1	0.042	0.0000089	0.00073	0.0031	1.4	0.00018	0.000014	2.1	0.025	0.000013	0.00013	0.00034	0.00081	0.0021
		May		0.00015	0.0015	1.1	0.042	0.0000089	0.00073	0.0031	1.4	0.00018	0.000014	2.1	0.025	0.000013	0.00013	0.00034	0.00081	0.0021
		June		0.00015	0.0015	1.1	0.042	0.0000089	0.00072	0.0031	1.4	0.00018	0.000014	2.1	0.025	0.000013	0.00013	0.00034	0.00081	0.0021
		July		0.00015	0.0015	1.1	0.04	0.0000088	0.0007	0.003	1.3	0.00017	0.000014	2.0	0.024	0.000013	0.00013	0.00033	0.0008	0.0021
		August		0.00015	0.0015	1.1	0.041	0.0000088	0.00071	0.003	1.4	0.00017	0.000014	2.0	0.024	0.000013	0.00013	0.00033	0.0008	0.0021
		September		0.00015	0.0015	1.1	0.041	0.0000088	0.00071	0.003	1.4	0.00017	0.000014	2.0	0.024	0.000013	0.00013	0.00033	0.0008	0.0021
		October		0.00015	0.0015	1.1	0.041	0.0000088	0.0007	0.003	1.3	0.00017	0.000014	2.0	0.024	0.000013	0.00013	0.00033	0.0008	0.0021
		November		0.00015	0.0015	1.1	0.041	0.0000088	0.00071	0.003	1.3	0.00017	0.000014	2.0	0.024	0.000013	0.00013	0.00033	0.0008	0.0021
		December		0.00015	0.0015	1.1	0.041	0.0000088	0.00071	0.003	1.4	0.00017	0.000014	2.0	0.024	0.000013	0.00013	0.00033	0.0008	0.0021
		January	2037	0.00015	0.0015	1.1	0.041	0.0000088	0.00071	0.003	1.4	0.00017	0.000014	2.0	0.024	0.000013	0.00013	0.00033	0.0008	0.0021
		February		0.00015	0.0015	1.1	0.041	0.0000088	0.00071	0.003	1.4	0.00017	0.000014	2.0	0.024	0.000013	0.00013	0.00033	0.0008	0.0021
		March		0.00015	0.0015	1.1	0.041	0.0000088	0.00071	0.003	1.4	0.00017	0.000014	2.0	0.024	0.000013	0.00013	0.00034	0.0008	0.0021
		April		0.00015	0.0015	1.1	0.041	0.0000088	0.00071	0.003	1.4	0.00017	0.000014	2.0	0.024	0.000013	0.00013	0.00034	0.0008	0.0021
		May		0.00015	0.0015	1.1	0.041	0.0000088	0.00071	0.003	1.4	0.00017	0.000014	2.0	0.024	0.000013	0.00013	0.00034	0.0008	0.0021
		June		0.00014	0.0015	1.1	0.04	0.0000087	0.0007	0.003	1.3	0.00017	0.000014	2.0	0.024	0.000013	0.00013	0.00033	0.0008	0.002
		July		0.00014	0.0015	1.0	0.04	0.0000087	0.00068	0.0029	1.3	0.00017	0.000014	2.0	0.024	0.000013	0.00013	0.00032	0.00079	0.002
		August		0.00014	0.0015	1.0	0.04	0.0000087	0.00068	0.0029	1.3	0.00017	0.000014	2.0	0.024	0.000013	0.00013	0.00033	0.00079	0.002
		September		0.00014	0.0015	1.0	0.04	0.0000087	0.00068	0.0029	1.3	0.00017	0.000014	2.0	0.024	0.000013	0.00013	0.00033	0.00079	0.002
		October		0.00014	0.0015	1.0	0.04	0.0000087	0.00068	0.0029	1.3	0.00016	0.000014	2.0	0.024	0.000013	0.00013	0.00032	0.00079	0.002
		November		0.00014	0.0015	1.0	0.04	0.0000087	0.00068	0.0029	1.3	0.00016	0.000014	2.0	0.024	0.000013	0.00013	0.00033	0.00079	0.002
		December		0.00014	0.0015	1.0	0.04	0.0000087	0.00068	0.0029	1.3	0.00016	0.000014	2.0	0.024	0.000013	0.00013	0.00033	0.00079	0.002
		January	2038	0.00014	0.0015	1.0	0.04	0.0000087	0.00068	0.0029	1.3	0.00016	0.000014	2.0	0.024	0.000013	0.00013	0.00033	0.00079	0.002
		February		0.00014	0.0015	1.0	0.04	0.0000087	0.00069	0.0029	1.3	0.00016	0.000014	2.0	0.024	0.000013	0.00013	0.00033	0.00079	0.002
		March		0.00014	0.0015	1.0	0.04	0.0000087	0.00069	0.0029	1.3	0.00017	0.000014	2.0	0.024	0.000013	0.00013	0.00033	0.00079	0.002
		April		0.00014	0.0015	1.0	0.04	0.0000087	0.00069	0.0029	1.3	0.00017	0.000014	2.0	0.024	0.000013	0.00013	0.00033	0.00079	0.002
		May		0.00014	0.0015	1.0	0.04	0.0000087	0.00069	0.0029	1.3	0.00017	0.000014	2.0	0.024	0.000013	0.00013	0.00033	0.00079	0.002
		June		0.00014	0.0015	1.0	0.04	0.0000086	0.00068	0.0029	1.3	0.00016	0.000014	1.9	0.023	0.000013	0.00013	0.00032	0.00079	0.002
		July		0.00014	0.0015	1.0	0.039	0.0000086	0.00066	0.0028	1.3	0.00016	0.000013	1.9	0.023	0.000013	0.00013	0.00032	0.00078	0.002
		August		0.00014	0.0015	1.0	0.039	0.0000086	0.00067	0.0028	1.3	0.00016	0.000013	1.9	0.023	0.000013	0.00013	0.00032	0.00078	0.002
		September		0.00014	0.0015	1.0	0.039	0.0000086	0.00067	0.0028	1.3	0.00016	0.000013	1.9	0.023	0.000013	0.00013	0.00032	0.00078	0.002
		October		0.00014	0.0015	1.0	0.039	0.0000086	0.00066	0.0028	1.3	0.00016	0.000013	1.9	0.023	0.000013	0.00013	0.00032	0.00078	0.002
		November		0.00014	0.0015	1.0	0.039	0.0000086	0.00066	0.0028	1.3	0.00016	0.000013	1.9	0.023	0.000013	0.00013	0.00032	0.00078	0.002
		December		0.00014	0.0015	1.0	0.039	0.0000086	0.00066	0.0028	1.3	0.00016	0.000013	1.9	0.023	0.000013	0.00013	0.00032	0.00078	0.002
		January	2039	0.00014	0.0015	1.0	0.039	0.0000086	0.00067	0.0028	1.3	0.00016	0.000013	1.9	0.023	0.000013	0.00013	0.00032	0.00078	0.002
		February		0.00014	0.0015	1.0	0.039	0.0000086	0.00067	0.0028	1.3	0.00016	0.000013	1.9	0.023	0.000013	0.00013	0.00032	0.00078	0.002
		March		0.00014	0.0015	1.0	0.039	0.0000086	0.00067	0.0028	1.3	0.00016	0.000013	1.9	0.023	0.000013	0.00013	0.00032	0.00078	0.002
		April		0.00014	0.0015	1.0	0.039	0.0000086	0.00067	0.0029	1.3	0.00016	0.000013	1.9	0.023	0.000013	0.00013	0.00032	0.00078	0.002
		May		0.00014	0.0015	1.0	0.039	0.0000086	0.00067	0.0029	1.3	0.00016	0.000013	1.9	0.023	0.000013	0.00013	0.00032	0.00078	0.002
		June		0.00014	0.0014	1.0	0.039	0.0000086	0.00066	0.0028	1.3	0.00016	0.000013	1.9	0.023	0.000012	0.00013	0.00032	0.00078	0.002
		July		0.00014	0.0014	1.0	0.038	0.0000085	0.00065	0.0028	1.3	0.00016	0.000013	1.8	0.023	0.000012	0.00013	0.00031	0.00077	0.002
		August		0.00014	0.0014	1.0	0.038	0.0000085	0.00065	0.0028	1.3	0.00016	0.000013	1.9	0.023	0.000012	0.00013	0.00031	0.00077	0.002
		September		0.00014	0.0014	1.0	0.038	0.0000085	0.00065	0.0028	1.3	0.00016	0.000013	1.8	0.023	0.000012	0.00013	0.00031	0.00077	0.002
		October		0.00014	0.0014	1.0	0.038	0.0000085	0.00065	0.0028	1.3	0.00015	0.000013	1.8	0.023	0.000012	0.00013	0.00031	0.00077	0.002
		November		0.00014	0.0014	1.0	0.038	0.0000085	0.00065	0.0028	1.3	0.00015	0.000013	1.9	0.023	0.000012	0.00013	0.00031	0.00077	0.002
		December		0.00014	0.0014	1.0	0.038	0.0000085	0.00065	0.0028	1.3	0.00015	0.000013	1.9	0.023	0.000012	0.00013	0.00031	0.00077	0.002
		January	2040	0.00014	0.0014	1.0	0.038	0.0000085	0.00066	0.0028	1.3	0.00015	0.000013	1.9	0.					

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[https://goldcorpassociates.thepoint.com/sites/102627/Technical Work/Reporting/Water Quality Report/Appendix C/14May2019/3_WTP%20IWRP%2014May2019.pdf](https://goldcorpassociates.thepoint.com/sites/102627/Technical%20Work/Reporting/Water%20Quality%20Report/Appendix%20C/14May2019/3_WTP%20IWRP%2014May2019.pdf)

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25										0.1
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015		0.007
Constituent				Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Pit	Closure, fully flooded pit	January	2042	0.00013	0.0014	0.99	0.036	0.0000082	0.00063	0.0026	1.2	0.00015	0.000013	1.7	0.022	0.000012	0.00013	0.0003	0.00075	0.0019
		February		0.00013	0.0014	0.99	0.036	0.0000082	0.00063	0.0026	1.2	0.00014	0.000013	1.7	0.022	0.000012	0.00013	0.0003	0.00075	0.0019
		March		0.00013	0.0014	0.98	0.036	0.0000082	0.00063	0.0026	1.2	0.00014	0.000013	1.7	0.022	0.000012	0.00013	0.0003	0.00075	0.0019
		April		0.00013	0.0014	0.98	0.036	0.0000082	0.00063	0.0026	1.2	0.00014	0.000013	1.7	0.022	0.000012	0.00013	0.0003	0.00075	0.0019
		May		0.00013	0.0014	0.98	0.036	0.0000082	0.00063	0.0026	1.2	0.00014	0.000013	1.7	0.022	0.000012	0.00013	0.0003	0.00075	0.0019
		June		0.00013	0.0014	0.98	0.035	0.0000082	0.00062	0.0025	1.2	0.00014	0.000013	1.7	0.022	0.000012	0.00013	0.0003	0.00075	0.0019
		July		0.00013	0.0014	0.98	0.035	0.0000082	0.00061	0.0025	1.2	0.00014	0.000013	1.7	0.021	0.000012	0.00013	0.00029	0.00074	0.0019
		August		0.00013	0.0014	0.98	0.034	0.0000081	0.00061	0.0025	1.2	0.00014	0.000013	1.7	0.021	0.000012	0.00013	0.00029	0.00074	0.0019
		September		0.00013	0.0014	0.97	0.034	0.0000081	0.00061	0.0025	1.2	0.00014	0.000013	1.7	0.021	0.000012	0.00013	0.00029	0.00074	0.0019
		October		0.00013	0.0014	0.96	0.034	0.0000081	0.00061	0.0025	1.2	0.00014	0.000013	1.7	0.021	0.000012	0.00013	0.00029	0.00073	0.0019
		November		0.00013	0.0014	0.96	0.034	0.0000081	0.00061	0.0025	1.2	0.00014	0.000013	1.7	0.021	0.000012	0.00013	0.00029	0.00073	0.0019
		December		0.00013	0.0014	0.96	0.034	0.0000081	0.00061	0.0025	1.2	0.00014	0.000013	1.7	0.021	0.000012	0.00013	0.00029	0.00073	0.0019
		January	2043	0.00013	0.0014	0.96	0.034	0.0000081	0.00061	0.0025	1.2	0.00014	0.000013	1.7	0.021	0.000012	0.00013	0.00029	0.00073	0.0019
		February		0.00013	0.0014	0.96	0.034	0.0000081	0.00061	0.0025	1.2	0.00014	0.000013	1.7	0.021	0.000012	0.00013	0.00029	0.00073	0.0019
		March		0.00013	0.0014	0.96	0.034	0.0000081	0.00061	0.0025	1.2	0.00014	0.000013	1.7	0.021	0.000012	0.00013	0.00029	0.00073	0.0019
		April		0.00013	0.0014	0.96	0.034	0.0000081	0.00061	0.0025	1.2	0.00014	0.000013	1.7	0.021	0.000012	0.00013	0.00029	0.00073	0.0019
		May		0.00013	0.0014	0.96	0.034	0.0000081	0.00061	0.0025	1.2	0.00014	0.000013	1.7	0.021	0.000012	0.00013	0.00029	0.00073	0.0019
		June		0.00012	0.0013	0.95	0.033	0.000008	0.00059	0.0024	1.1	0.00014	0.000012	1.6	0.021	0.000012	0.00013	0.00029	0.00072	0.0018
		July		0.00012	0.0013	0.94	0.032	0.0000079	0.00058	0.0024	1.1	0.00014	0.000012	1.6	0.021	0.000012	0.00012	0.00028	0.00072	0.0018
		August		0.00012	0.0013	0.94	0.032	0.0000079	0.00058	0.0024	1.1	0.00014	0.000012	1.6	0.021	0.000012	0.00012	0.00028	0.00072	0.0018
		September		0.00012	0.0013	0.94	0.032	0.0000079	0.00058	0.0024	1.1	0.00013	0.000012	1.6	0.021	0.000012	0.00012	0.00028	0.00072	0.0018
		October		0.00012	0.0013	0.94	0.032	0.0000078	0.00058	0.0023	1.1	0.00013	0.000012	1.6	0.021	0.000012	0.00012	0.00028	0.00071	0.0018
		November		0.00012	0.0013	0.94	0.032	0.0000078	0.00058	0.0023	1.1	0.00013	0.000012	1.6	0.021	0.000012	0.00012	0.00028	0.00071	0.0018
		December		0.00012	0.0013	0.94	0.032	0.0000078	0.00058	0.0023	1.1	0.00013	0.000012	1.6	0.021	0.000012	0.00012	0.00028	0.00071	0.0018
		January	2044	0.00012	0.0013	0.94	0.032	0.0000078	0.00058	0.0023	1.1	0.00013	0.000012	1.6	0.021	0.000012	0.00012	0.00028	0.00071	0.0018
		February		0.00012	0.0013	0.94	0.032	0.0000078	0.00058	0.0023	1.1	0.00013	0.000012	1.6	0.021	0.000012	0.00012	0.00028	0.00071	0.0018
		March		0.00012	0.0013	0.94	0.032	0.0000078	0.00058	0.0023	1.1	0.00013	0.000012	1.6	0.021	0.000012	0.00012	0.00028	0.00071	0.0018
		April		0.00012	0.0013	0.94	0.032	0.0000078	0.00058	0.0023	1.1	0.00013	0.000012	1.6	0.021	0.000012	0.00012	0.00028	0.00071	0.0018
		May		0.00012	0.0013	0.94	0.032	0.0000078	0.00058	0.0023	1.1	0.00013	0.000012	1.6	0.021	0.000012	0.00012	0.00028	0.00071	0.0018
		June		0.00012	0.0013	0.93	0.031	0.0000078	0.00057	0.0023	1.1	0.00013	0.000012	1.6	0.02	0.000012	0.00012	0.00027	0.00071	0.0018
		July		0.00012	0.0013	0.93	0.03	0.0000077	0.00056	0.0023	1.1	0.00013	0.000012	1.5	0.02	0.000012	0.00012	0.00027	0.0007	0.0018
		August		0.00012	0.0013	0.93	0.03	0.0000077	0.00056	0.0023	1.1	0.00013	0.000012	1.5	0.02	0.000012	0.00012	0.00027	0.0007	0.0018
		September		0.00012	0.0013	0.93	0.03	0.0000077	0.00056	0.0023	1.1	0.00013	0.000012	1.5	0.02	0.000012	0.00012	0.00027	0.0007	0.0018
		October		0.00012	0.0013	0.93	0.03	0.0000077	0.00056	0.0022	1.1	0.00013	0.000012	1.5	0.02	0.000012	0.00012	0.00027	0.0007	0.0018
		November		0.00012	0.0013	0.93	0.03	0.0000077	0.00056	0.0022	1.1	0.00013	0.000012	1.5	0.02	0.000012	0.00012	0.00027	0.0007	0.0018
		December		0.00012	0.0013	0.93	0.03	0.0000077	0.00056	0.0022	1.1	0.00013	0.000012	1.5	0.02	0.000012	0.00012	0.00027	0.0007	0.0018
		January	2045	0.00012	0.0013	0.93	0.03	0.0000077	0.00056	0.0022	1.1	0.00013	0.000012	1.5	0.02	0.000012	0.00012	0.00027	0.0007	0.0018
		February		0.00012	0.0013	0.93	0.03	0.0000077	0.00056	0.0022	1.1	0.00013	0.000012	1.5	0.02	0.000012	0.00012	0.00027	0.0007	0.0018
		March		0.00012	0.0013	0.93	0.03	0.0000077	0.00056	0.0022	1.1	0.00013	0.000012	1.5	0.02	0.000012	0.00012	0.00027	0.0007	0.0018
		April		0.00012	0.0013	0.93	0.03	0.0000077	0.00056	0.0022	1.1	0.00013	0.000012	1.5	0.02	0.000012	0.00012	0.00027	0.0007	0.0018
		May		0.00012	0.0013	0.93	0.03	0.0000077	0.00056	0.0022	1.1	0.00013	0.000012	1.5	0.02	0.000012	0.00012	0.00027	0.0007	0.0018
		June		0.00011	0.0013	0.92	0.029	0.0000077	0.00055	0.0022	1.1	0.00013	0.000012	1.5	0.02	0.000012	0.00012	0.00026	0.0007	0.0018
		July		0.00011	0.0013	0.92	0.029	0.0000076	0.00054	0.0022	1.1	0.00013	0.000012	1.5	0.02	0.000011	0.00012	0.00026	0.00069	0.0017
		August		0.00011	0.0013	0.92	0.029	0.0000076	0.00054	0.0022	1.1	0.00013	0.000012	1.5	0.02	0.000011	0.00012	0.00026	0.0007	0.0017
		September		0.00011	0.0013	0.92	0.028	0.0000076	0.00054	0.0022	1.1	0.00013	0.000012	1.5	0.02	0.000011	0.00012	0.00026	0.0007	0.0017
		October		0.00011	0.0013	0.91	0.028	0.0000076	0.00053	0.0021	1.1	0.00013	0.000012	1.5	0.02	0.000011	0.00012	0.00026	0.00069	0.0017
		November		0.00011	0.0013	0.91	0.028	0.0000076	0.00053	0.0021	1.1	0.00013	0.000012	1.5	0.02	0.000011	0.00012	0.00026	0.00069	0.0017
		December		0.00011	0.0013	0.91	0.028	0.0000076	0.00053	0.0021	1.1	0.00013	0.000012	1.5	0.02	0.000011	0.00012	0.00026	0.00069	0.0017
		January	2046	0.00011	0.0013	0.91	0.028													

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ⁴	Sb	As ⁵	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁵	Co	Cu ⁷	Fe
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Pit	Closure, fully flooded pit	January	2048	19	0.61	6.8	3.9	0.047	3.3	0.046	0.33	0.0057	0.0002	0.00036	0.015	0.0062	0.000021	0.000048	0.02	0.0000067	3.1	0.00024	0.00023	0.00072	0.039
		February		19	0.61	6.8	3.9	0.047	3.3	0.046	0.33	0.0057	0.0002	0.00036	0.015	0.0062	0.000021	0.000048	0.02	0.0000067	3.1	0.00024	0.00023	0.00072	0.039
		March		19	0.61	6.8	3.9	0.047	3.3	0.046	0.33	0.0057	0.0002	0.00036	0.015	0.0062	0.000021	0.000048	0.02	0.0000067	3.1	0.00024	0.00023	0.00072	0.039
		April		19	0.61	6.8	3.9	0.047	3.3	0.046	0.33	0.0057	0.0002	0.00036	0.015	0.0062	0.000021	0.000048	0.02	0.0000067	3.1	0.00024	0.00023	0.00072	0.039
		May		19	0.61	6.8	3.9	0.047	3.3	0.046	0.33	0.0057	0.0002	0.00036	0.015	0.0062	0.000021	0.000048	0.02	0.0000067	3.1	0.00024	0.00023	0.00072	0.039
		June		19	0.6	6.8	3.9	0.047	3.2	0.045	0.32	0.0056	0.0002	0.00035	0.015	0.0062	0.000021	0.000048	0.019	0.0000067	3.1	0.00023	0.00023	0.00072	0.039
		July		19	0.59	6.7	3.8	0.046	3.2	0.044	0.32	0.0055	0.0002	0.00035	0.015	0.0061	0.000021	0.000048	0.019	0.0000067	3.0	0.00023	0.00023	0.00071	0.039
		August		19	0.59	6.7	3.8	0.046	3.2	0.044	0.32	0.0055	0.0002	0.00035	0.015	0.0061	0.000021	0.000048	0.019	0.0000067	3.0	0.00023	0.00023	0.00071	0.039
		September		19	0.59	6.7	3.8	0.046	3.2	0.043	0.31	0.0055	0.0002	0.00035	0.015	0.0061	0.000021	0.000048	0.019	0.0000067	3.0	0.00023	0.00023	0.00071	0.038
		October		19	0.58	6.7	3.8	0.046	3.2	0.043	0.31	0.0054	0.0002	0.00035	0.015	0.0061	0.000021	0.000048	0.019	0.0000066	3.0	0.00023	0.00023	0.00071	0.038
		November		19	0.58	6.7	3.8	0.046	3.2	0.043	0.31	0.0054	0.0002	0.00035	0.015	0.0061	0.000021	0.000048	0.019	0.0000066	3.0	0.00023	0.00023	0.00071	0.038
		December		19	0.58	6.7	3.8	0.046	3.2	0.043	0.31	0.0054	0.0002	0.00035	0.015	0.0061	0.000021	0.000048	0.019	0.0000066	3.0	0.00023	0.00023	0.00071	0.038
		January	2049	19	0.58	6.7	3.8	0.046	3.2	0.043	0.31	0.0054	0.0002	0.00035	0.015	0.0061	0.000021	0.000048	0.019	0.0000066	3.0	0.00023	0.00023	0.00071	0.038
		February		19	0.58	6.7	3.8	0.046	3.2	0.043	0.31	0.0054	0.0002	0.00035	0.015	0.0061	0.000021	0.000048	0.019	0.0000066	3.0	0.00023	0.00023	0.00071	0.038
		March		19	0.58	6.7	3.8	0.046	3.2	0.043	0.31	0.0054	0.0002	0.00035	0.015	0.0061	0.000021	0.000048	0.019	0.0000066	3.0	0.00023	0.00023	0.00071	0.038
		April		19	0.58	6.7	3.8	0.046	3.2	0.043	0.31	0.0054	0.0002	0.00035	0.015	0.0061	0.000021	0.000048	0.019	0.0000066	3.0	0.00023	0.00023	0.00071	0.038
		May		19	0.58	6.7	3.8	0.046	3.2	0.043	0.31	0.0054	0.0002	0.00035	0.015	0.0061	0.000021	0.000048	0.019	0.0000066	3.0	0.00023	0.00023	0.00071	0.038
		June		18	0.57	6.7	3.8	0.046	3.1	0.042	0.3	0.0054	0.0002	0.00034	0.014	0.0061	0.000021	0.000048	0.019	0.0000066	3.0	0.00023	0.00022	0.00071	0.038
		July		18	0.56	6.6	3.8	0.045	3.1	0.041	0.3	0.0053	0.0002	0.00034	0.014	0.006	0.000021	0.000048	0.019	0.0000066	3.0	0.00022	0.00022	0.0007	0.037
		August		18	0.56	6.6	3.8	0.045	3.1	0.041	0.3	0.0053	0.0002	0.00034	0.014	0.006	0.000021	0.000048	0.019	0.0000066	3.0	0.00022	0.00022	0.0007	0.037
		September		18	0.56	6.6	3.8	0.045	3.1	0.041	0.29	0.0053	0.0002	0.00034	0.014	0.006	0.000021	0.000048	0.019	0.0000066	3.0	0.00022	0.00022	0.0007	0.037
		October		18	0.56	6.6	3.8	0.045	3.1	0.041	0.29	0.0052	0.0002	0.00033	0.014	0.006	0.000021	0.000048	0.019	0.0000066	3.0	0.00022	0.00022	0.0007	0.037
		November		18	0.56	6.6	3.8	0.045	3.1	0.041	0.29	0.0052	0.0002	0.00033	0.014	0.006	0.000021	0.000048	0.019	0.0000066	3.0	0.00022	0.00022	0.0007	0.037
		December		18	0.56	6.6	3.8	0.045	3.1	0.041	0.29	0.0052	0.0002	0.00033	0.014	0.006	0.000021	0.000048	0.019	0.0000066	3.0	0.00022	0.00022	0.0007	0.037
		January	≥2050	18	0.56	6.6	3.8	0.045	3.1	0.041	0.29	0.0052	0.0002	0.00033	0.014	0.006	0.000021	0.000048	0.019	0.0000066	3.0	0.00022	0.00022	0.0007	0.037
		February		18	0.56	6.6	3.8	0.045	3.1	0.041	0.29	0.0052	0.0002	0.00033	0.014	0.006	0.000021	0.000048	0.019	0.0000066	3.0	0.00022	0.00022	0.0007	0.037
		March		18	0.56	6.6	3.8	0.045	3.1	0.041	0.29	0.0052	0.0002	0.00033	0.014	0.006	0.000021	0.000048	0.019	0.0000066	3.0	0.00022	0.00022	0.0007	0.037
		April		18	0.56	6.6	3.8	0.045	3.1	0.041	0.29	0.0052	0.0002	0.00033	0.014	0.006	0.000021	0.000048	0.019	0.0000066	3.0	0.00022	0.00022	0.0007	0.037
		May		18	0.56	6.6	3.8	0.045	3.1	0.041	0.29	0.0052	0.0002	0.00033	0.014	0.006	0.000021	0.000048	0.019	0.0000066	3.0	0.00022	0.00022	0.0007	0.037
		June		18	0.55	6.6	3.7	0.045	3.0	0.04	0.29	0.0052	0.0002	0.00033	0.014	0.006	0.000021	0.000048	0.018	0.0000065	3.0	0.00022	0.00022	0.00069	0.037
		July		18	0.54	6.5	3.7	0.045	3.0	0.039	0.28	0.0051	0.0002	0.00033	0.013	0.0059	0.000021	0.000048	0.018	0.0000065	2.9	0.00022	0.00021	0.00069	0.036
		August		18	0.54	6.5	3.7	0.045	3.0	0.039	0.28	0.0051	0.0002	0.00033	0.013	0.006	0.000021	0.000048	0.018	0.0000065	3.0	0.00022	0.00021	0.00069	0.036
		September		18	0.54	6.5	3.7	0.045	3.0	0.039	0.28	0.0051	0.0002	0.00033	0.013	0.0059	0.000021	0.000048	0.018	0.0000065	2.9	0.00022	0.00021	0.00069	0.036
		October		18	0.54	6.5	3.7	0.045	3.0	0.039	0.27	0.005	0.0002	0.00032	0.013	0.0059	0.000021	0.000048	0.018	0.0000065	2.9	0.00021	0.00021	0.00069	0.036
		November		18	0.54	6.5	3.7	0.045	3.0	0.039	0.27	0.005	0.0002	0.00032	0.013	0.0059	0.000021	0.000048	0.018	0.0000065	2.9	0.00021	0.00021	0.00069	0.036
		December		18	0.54	6.5	3.7	0.045	3.0	0.039	0.27	0.005	0.0002	0.00032	0.013	0.0059	0.000021	0.000048	0.018	0.0000065	2.9	0.00021	0.00021	0.00069	0.036
		Closure Period	MINIMUM	18	0.54	6.5	3.7	0.045	3.0	0.039	0.27	0.005	0.0002	0.00032	0.013	0.0059	0.000021	0.000047	0.018	0.0000065	2.9	0.00021	0.00021	0.00069	0.036
			MAXIMUM	23	0.79	7.8	4.6	0.054	4.0	0.064	0.48	0.0073	0.0002	0.00045	0.021	0.0072	0.000022	0.000049	0.024	0.0000076	3.5	0.0003	0.00029	0.00084	0.049
			AVERAGE	20	0.66	7.0	4.1	0.049	3.4	0.05	0.37	0.0061	0.0002	0.00038	0.017	0.0065	0.000021	0.000048	0.021	0.0000069	3.2	0.00025	0.00025	0.00075	0.042
			MAXIMUM (total)	23	0.79	7.8	4.6	0.057	4.0	0.064	0.48	0.019	0.33	0.00046	0.024	0.01	0.000029	0.000051	0.024	0.0000092	3.8	0.0085	0.00077	0.0013	0.75
			AVERAGE (total)	20	0.66	7.0	4.1	0.052	3.5	0.05	0.37	0.018	0.33	0.0004	0.02	0.0097	0.000028	0.00005	0.021	0.0000086	3.5	0.0084	0.00073	0.0013	0.74

Notes:

¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells

²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type

³CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed

⁴CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.

⁵CEQG Freshwater aquatic life criteria for chromium depends on the valence of chromium ion. In the above table, the Cr(VI) criterion of 0.001 mg/L is shown.

⁶CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.

⁷ The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1		
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.007		
Constituent				Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁴	K	Se	Ag	Na	Sr	Ti	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Whale Tail Pit	Closure, fully flooded pit	January	2048	0.00011	0.0013	0.9	0.025	0.0000074	0.00049	0.002	1.0	0.00012	0.000012	1.4	0.019	0.000011	0.00012	0.00024	0.00068	0.0017	
		February		0.00011	0.0013	0.9	0.025	0.0000074	0.00049	0.002	1.0	0.00012	0.000012	1.4	0.019	0.000011	0.00012	0.00024	0.00068	0.0017	
		March		0.00011	0.0013	0.9	0.025	0.0000074	0.00049	0.002	1.0	0.00012	0.000012	1.4	0.019	0.000011	0.00012	0.00024	0.00068	0.0017	
		April		0.00011	0.0013	0.9	0.025	0.0000074	0.00049	0.002	1.0	0.00012	0.000012	1.4	0.019	0.000011	0.00012	0.00024	0.00068	0.0017	
		May		0.00011	0.0013	0.9	0.025	0.0000074	0.00049	0.002	1.0	0.00012	0.000012	1.4	0.019	0.000011	0.00012	0.00024	0.00068	0.0017	
		June		0.0001	0.0013	0.89	0.025	0.0000074	0.00049	0.0019	0.99	0.00012	0.000012	1.3	0.019	0.000011	0.00012	0.00024	0.00067	0.0017	
		July		0.0001	0.0013	0.89	0.024	0.0000073	0.00048	0.0019	0.98	0.00011	0.000012	1.3	0.019	0.000011	0.00012	0.00023	0.00067	0.0017	
		August		0.0001	0.0013	0.89	0.024	0.0000073	0.00048	0.0019	0.98	0.00012	0.000012	1.3	0.019	0.000011	0.00012	0.00023	0.00067	0.0017	
		September		0.0001	0.0013	0.89	0.024	0.0000073	0.00048	0.0019	0.98	0.00011	0.000012	1.3	0.019	0.000011	0.00012	0.00023	0.00067	0.0017	
		October		0.0001	0.0013	0.89	0.024	0.0000073	0.00048	0.0019	0.98	0.00011	0.000012	1.3	0.019	0.000011	0.00012	0.00023	0.00067	0.0017	
		November		0.0001	0.0013	0.89	0.024	0.0000073	0.00048	0.0019	0.98	0.00011	0.000012	1.3	0.019	0.000011	0.00012	0.00023	0.00067	0.0017	
		December		0.0001	0.0013	0.89	0.024	0.0000073	0.00048	0.0019	0.98	0.00011	0.000012	1.3	0.019	0.000011	0.00012	0.00023	0.00067	0.0017	
		January	2049	0.0001	0.0013	0.89	0.024	0.0000073	0.00048	0.0019	0.98	0.00011	0.000012	1.3	0.019	0.000011	0.00012	0.00023	0.00067	0.0017	
		February		0.0001	0.0013	0.89	0.024	0.0000073	0.00048	0.0019	0.98	0.00011	0.000012	1.3	0.019	0.000011	0.00012	0.00023	0.00067	0.0017	
		March		0.0001	0.0013	0.89	0.024	0.0000073	0.00048	0.0019	0.98	0.00011	0.000012	1.3	0.019	0.000011	0.00012	0.00023	0.00067	0.0017	
		April		0.0001	0.0013	0.89	0.024	0.0000073	0.00048	0.0019	0.98	0.00011	0.000012	1.3	0.019	0.000011	0.00012	0.00023	0.00067	0.0017	
		May		0.0001	0.0013	0.89	0.024	0.0000073	0.00048	0.0019	0.98	0.00011	0.000012	1.3	0.019	0.000011	0.00012	0.00023	0.00067	0.0017	
		June		0.0001	0.0013	0.88	0.023	0.0000073	0.00047	0.0019	0.96	0.00011	0.000012	1.3	0.019	0.000011	0.00012	0.00023	0.00067	0.0017	
		July		0.0001	0.0012	0.88	0.023	0.0000072	0.00046	0.0018	0.95	0.00011	0.000012	1.3	0.019	0.000011	0.00012	0.00023	0.00066	0.0016	
		August		0.0001	0.0012	0.88	0.023	0.0000072	0.00046	0.0018	0.96	0.00011	0.000012	1.3	0.019	0.000011	0.00012	0.00023	0.00066	0.0016	
		September		0.0001	0.0012	0.88	0.022	0.0000072	0.00046	0.0018	0.95	0.00011	0.000012	1.3	0.019	0.000011	0.00012	0.00023	0.00066	0.0016	
		October		0.0001	0.0012	0.88	0.022	0.0000072	0.00046	0.0018	0.95	0.00011	0.000012	1.3	0.019	0.000011	0.00012	0.00023	0.00066	0.0016	
		November		0.0001	0.0012	0.88	0.022	0.0000072	0.00046	0.0018	0.95	0.00011	0.000012	1.3	0.019	0.000011	0.00012	0.00023	0.00066	0.0016	
		December		0.0001	0.0012	0.88	0.022	0.0000072	0.00046	0.0018	0.95	0.00011	0.000012	1.3	0.019	0.000011	0.00012	0.00023	0.00066	0.0016	
		January	≥2050	0.0001	0.0012	0.88	0.022	0.0000072	0.00046	0.0018	0.95	0.00011	0.000012	1.3	0.019	0.000011	0.00012	0.00023	0.00066	0.0016	
		February		0.0001	0.0012	0.88	0.022	0.0000072	0.00046	0.0018	0.95	0.00011	0.000012	1.3	0.019	0.000011	0.00012	0.00023	0.00066	0.0016	
		March		0.0001	0.0012	0.88	0.022	0.0000072	0.00046	0.0018	0.95	0.00011	0.000012	1.3	0.019	0.000011	0.00012	0.00023	0.00066	0.0016	
		April		0.0001	0.0012	0.88	0.022	0.0000072	0.00046	0.0018	0.95	0.00011	0.000012	1.3	0.019	0.000011	0.00012	0.00023	0.00066	0.0016	
		May		0.0001	0.0012	0.88	0.022	0.0000072	0.00046	0.0018	0.95	0.00011	0.000012	1.3	0.019	0.000011	0.00012	0.00023	0.00066	0.0016	
		June		0.000099	0.0012	0.88	0.022	0.0000072	0.00045	0.0018	0.94	0.00011	0.000011	1.2	0.018	0.000011	0.00012	0.00022	0.00066	0.0016	
		July		0.000098	0.0012	0.87	0.021	0.0000071	0.00044	0.0018	0.93	0.00011	0.000011	1.2	0.018	0.000011	0.00012	0.00022	0.00066	0.0016	
		August		0.000098	0.0012	0.87	0.021	0.0000072	0.00045	0.0018	0.93	0.00011	0.000011	1.2	0.018	0.000011	0.00012	0.00022	0.00066	0.0016	
		September		0.000098	0.0012	0.87	0.021	0.0000072	0.00045	0.0018	0.93	0.00011	0.000011	1.2	0.018	0.000011	0.00012	0.00022	0.00066	0.0016	
		October		0.000098	0.0012	0.87	0.021	0.0000072	0.00044	0.0017	0.93	0.00011	0.000011	1.2	0.018	0.000011	0.00012	0.00022	0.00066	0.0016	
		November		0.000098	0.0012	0.87	0.021	0.0000072	0.00044	0.0017	0.93	0.00011	0.000011	1.2	0.018	0.000011	0.00012	0.00022	0.00066	0.0016	
		December		0.000098	0.0012	0.87	0.021	0.0000072	0.00044	0.0017	0.93	0.00011	0.000011	1.2	0.018	0.000011	0.00012	0.00022	0.00066	0.0016	
		Closure Period		MINIMUM	0.000098	0.0012	0.87	0.021	0.0000071	0.00044	0.0017	0.93	0.00011	0.000011	1.2	0.018	0.000011	0.00012	0.00022	0.00066	0.0016
				MAXIMUM	0.00013	0.0014	0.99	0.036	0.000082	0.00063	0.0026	1.2	0.00015	0.000013	1.7	0.022	0.000012	0.00013	0.0003	0.00075	0.0019
				AVERAGE	0.00011	0.0013	0.92	0.028	0.0000076	0.00053	0.0021	1.0	0.00012	0.000012	1.4	0.02	0.000012	0.00012	0.00026	0.00069	0.0017
				MAXIMUM (total)	0.00026	0.0017	1.4	0.047	0.0000083	0.00065	0.0062	1.4	0.00015	0.000034	1.7	0.023	0.000018	0.00014	0.00032	0.0016	0.0026
				AVERAGE (total)	0.00024	0.0016	1.3	0.039	0.0000077	0.00055	0.0057	1.2	0.00013	0.000033	1.5	0.021	0.000017	0.00013	0.00027	0.0016	0.0025

Notes:

¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells

²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type

³CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed

⁴CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.

⁵CEQG Freshwater aquatic life criteria for chromium depends on the valence of chromium ion. In the above table, the Cr(VI) criterion of 0.001 mg/L is shown.

⁶CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.

⁷ The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16			0.3	0.5		0.1					0.002		0.02		0.1	1.0
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3	
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	As ⁴	Sb	Ba	Be	Bi	B	Cd ⁵	Ca	Co	Cu ⁶	Fe			
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
IVR Pit	Operations	July	2020	65	0.029	5.6	2.0	0.031	2.2	0.3	12	0.0021	0.0002	0.00026	0.027	0.005	0.000019	0.000048	0.0097	0.0000048	2.1	0.00017	0.00011	0.00058	0.045	
		August		68	0.077	6.5	2.0	0.033	3.1	0.3	12	0.0022	0.0002	0.00052	0.07	0.0059	0.000019	0.000047	0.01	0.000005	2.4	0.00018	0.00012	0.00062	0.049	
		September		65	0.038	5.5	2.1	0.032	2.2	0.3	12	0.0021	0.0002	0.0003	0.035	0.0052	0.000019	0.000047	0.0097	0.0000048	2.0	0.00018	0.00011	0.00063	0.052	
		October		66	0.014	6.8	1.1	0.027	3.0	0.3	12	0.0021	0.0002	0.00017	0.013	0.0046	0.00002	0.000049	0.0099	0.0000049	2.2	0.00013	0.0001	0.00039	0.024	
		November		66	0.00076	7.5	0.59	0.024	3.3	0.3	12	0.002	0.0002	0.0001	0.00096	0.0042	0.00002	0.00005	0.010	0.000005	2.3	0.0001	0.0001	0.00027	0.011	
		December		66	0.000043	7.5	0.57	0.024	3.3	0.3	12	0.002	0.0002	0.0001	0.00032	0.0042	0.00002	0.00005	0.010	0.000005	2.3	0.0001	0.0001	0.00026	0.01	
		January	2021	66	0.0000023	7.5	0.56	0.024	3.3	0.3	12	0.002	0.0002	0.0001	0.00028	0.0042	0.00002	0.00005	0.010	0.000005	2.3	0.0001	0.0001	0.00026	0.01	
		February		66	0.00000013	7.5	0.56	0.024	3.3	0.3	12	0.002	0.0002	0.0001	0.00028	0.0042	0.00002	0.00005	0.010	0.000005	2.3	0.0001	0.0001	0.00026	0.01	
		March		66	0	7.5	0.56	0.024	3.3	0.3	12	0.002	0.0002	0.0001	0.00028	0.0042	0.00002	0.00005	0.01	0.000005	2.3	0.0001	0.0001	0.00026	0.01	
		April		66	0	7.5	0.56	0.024	3.3	0.3	12	0.002	0.0002	0.0001	0.00028	0.0042	0.00002	0.00005	0.01	0.000005	2.3	0.0001	0.0001	0.00026	0.01	
		May		66	0	7.5	0.56	0.024	3.3	0.3	12	0.002	0.0002	0.0001	0.00028	0.0042	0.00002	0.00005	0.01	0.000005	2.3	0.0001	0.0001	0.00026	0.01	
		June		65	0.052	5.3	1.9	0.031	2.4	0.3	12	0.0021	0.0002	0.00037	0.043	0.005	0.000017	0.000043	0.0091	0.0000045	2.0	0.00018	0.00011	0.00059	0.05	
		July		109	0.82	20	2.9	0.083	19	0.3	12	0.0054	0.0002	0.0045	0.66	0.018	0.000023	0.000047	0.017	0.0000077	8.6	0.00038	0.0004	0.00095	0.09	
		August		104	0.74	18	2.8	0.076	17	0.3	12	0.0049	0.0002	0.0041	0.6	0.017	0.000022	0.000047	0.016	0.0000073	7.9	0.00034	0.00037	0.00089	0.081	
		September		75	0.24	8.6	2.1	0.042	6.2	0.3	12	0.0027	0.0002	0.0014	0.19	0.0079	0.000018	0.000044	0.011	0.0000052	3.6	0.00021	0.00017	0.00066	0.056	
		October		69	0.074	7.7	1.1	0.03	4.2	0.3	12	0.0022	0.0002	0.00049	0.059	0.0053	0.000019	0.000048	0.01	0.000005	2.7	0.00014	0.00012	0.00039	0.025	
		November		66	0.004	7.5	0.59	0.024	3.4	0.3	12	0.002	0.0002	0.00012	0.0034	0.0043	0.00002	0.00005	0.01	0.000005	2.3	0.0001	0.0001	0.00027	0.011	
		December		66	0.00023	7.5	0.57	0.024	3.3	0.3	12	0.002	0.0002	0.0001	0.00046	0.0042	0.00002	0.00005	0.01	0.000005	2.3	0.0001	0.0001	0.00026	0.01	
		January	2022	66	0.000012	7.5	0.56	0.024	3.3	0.3	12	0.002	0.0002	0.0001	0.00029	0.0042	0.00002	0.00005	0.01	0.000005	2.3	0.0001	0.0001	0.00026	0.01	
		February		66	0.00000069	7.5	0.56	0.024	3.3	0.3	12	0.002	0.0002	0.0001	0.00028	0.0042	0.00002	0.00005	0.01	0.000005	2.3	0.0001	0.0001	0.00026	0.01	
		March		66	4.4E-08	7.5	0.56	0.024	3.3	0.3	12	0.002	0.0002	0.0001	0.00028	0.0042	0.00002	0.00005	0.01	0.000005	2.3	0.0001	0.0001	0.00026	0.01	
		April		66	0	7.5	0.56	0.024	3.3	0.3	12	0.002	0.0002	0.0001	0.00028	0.0042	0.00002	0.00005	0.01	0.000005	2.3	0.0001	0.0001	0.00026	0.01	
		May		66	0	7.5	0.56	0.024	3.3	0.3	12	0.002	0.0002	0.0001	0.00028	0.0042	0.00002	0.00005	0.01	0.000005	2.3	0.0001	0.0001	0.00026	0.01	
		June		66	0.12	5.4	1.6	0.027	3.3	0.3	12	0.0017	0.0002	0.00068	0.092	0.0051	0.000014	0.000034	0.0076	0.0000038	2.2	0.00014	0.0001	0.00047	0.037	
		July		150	1.7	33	3.5	0.11	35	0.3	12	0.0048	0.0002	0.0091	1.4	0.031	0.00002	0.000042	0.02	0.0000094	15	0.00026	0.00062	0.00082	0.041	
		August		138	1.5	29	3.3	0.097	30	0.3	12	0.0043	0.0002	0.008	1.2	0.027	0.000019	0.000041	0.018	0.0000086	13	0.00024	0.00055	0.00078	0.041	
		September		84	0.45	11	2.0	0.044	10	0.3	12	0.0024	0.0002	0.0025	0.37	0.011	0.000015	0.000036	0.01	0.0000049	4.9	0.00016	0.00021	0.00054	0.038	
		October		71	0.14	8.5	1.0	0.03	5.3	0.3	12	0.0021	0.0002	0.00083	0.11	0.0061	0.000018	0.000045	0.0099	0.0000049	3.1	0.00012	0.00013	0.00035	0.019	
		November		66	0.0074	7.5	0.59	0.024	3.4	0.3	12	0.002	0.0002	0.00014	0.0063	0.0043	0.00002	0.00005	0.010	0.000005	2.4	0.0001	0.0001	0.00027	0.011	
		December		66	0.00042	7.5	0.57	0.024	3.3	0.3	12	0.002	0.0002	0.0001	0.00062	0.0042	0.00002	0.00005	0.010	0.000005	2.3	0.0001	0.0001	0.00026	0.01	
		January	2023	66	0.000022	7.5	0.56	0.024	3.3	0.3	12	0.002	0.0002	0.0001	0.0003	0.0042	0.00002	0.00005	0.010	0.000005	2.3	0.0001	0.0001	0.00026	0.01	
		February		66	0.0000013	7.5	0.56	0.024	3.3	0.3	12	0.002	0.0002	0.0001	0.00028	0.0042	0.00002	0.00005	0.01	0.000005	2.3	0.0001	0.0001	0.00026	0.01	
		March		66	8.2E-08	7.5	0.56	0.024	3.3	0.3	12	0.002	0.0002	0.0001	0.00028	0.0042	0.00002	0.00005	0.01	0.000005	2.3	0.0001	0.0001	0.00026	0.01	
		April		66	0	7.5	0.56	0.024	3.3	0.3	12	0.002	0.0002	0.0001	0.00028	0.0042	0.00002	0.00005	0.01	0.000005	2.3	0.0001	0.0001	0.00026	0.01	
		May		66	0	7.5	0.56	0.024	3.3	0.3	12	0.002	0.0002	0.0001	0.00028	0.0042	0.00002	0.00005	0.01	0.000005	2.3	0.0001	0.0001	0.00026	0.01	
		June		68	0.15	6.0	1.6	0.029	3.9	0.3	12	0.0018	0.0002	0.00084	0.12	0.0056	0.000014	0.000034	0.0078	0.0000039	2.4	0.00014	0.00012	0.00047	0.037	

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.0003			0.0008		0.015	0.007	
Constituent				Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
IVR Pit	Operations	July	2020	0.000077	0.001	0.92	0.0023	0.0000049	0.00011	0.00093	0.74	0.000065	0.0000099	0.64	0.012	0.00001	0.0001	0.000098	0.00059	0.0011
		August		0.000079	0.0011	1.1	0.0029	0.0000051	0.00021	0.0011	1.2	0.000093	0.00001	0.7	0.015	0.000011	0.0001	0.00017	0.00078	0.0012
		September		0.000077	0.001	0.92	0.0025	0.0000049	0.00013	0.001	0.81	0.000069	0.0000098	0.66	0.013	0.00001	0.0001	0.00012	0.00062	0.0011
		October		0.000086	0.001	1.0	0.0021	0.000005	0.000079	0.00073	0.69	0.000057	0.000010	0.57	0.011	0.00001	0.00011	0.000048	0.00055	0.0011
		November		0.00009	0.001	1.1	0.0019	0.000005	0.000053	0.00059	0.61	0.00005	0.000010	0.52	0.0098	0.00001	0.00011	0.000012	0.0005	0.0011
		December		0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.000010	0.52	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011
		January	2021	0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.000010	0.51	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011
		February		0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.51	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011
		March		0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.51	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011
		April		0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.51	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011
		May		0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.51	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011
		June		0.000073	0.00097	0.88	0.0028	0.0000046	0.00014	0.00097	0.88	0.000073	0.0000091	0.66	0.012	0.0000097	0.000093	0.00013	0.00062	0.001
		July		0.00013	0.0028	3.0	0.018	0.0000091	0.0016	0.0035	8.3	0.00051	0.000018	2.0	0.055	0.000026	0.00016	0.0011	0.0034	0.0019
		August		0.00012	0.0026	2.8	0.017	0.0000086	0.0014	0.0033	7.4	0.00046	0.000017	1.8	0.051	0.000025	0.00015	0.001	0.0031	0.0018
		September		0.000082	0.0014	1.4	0.0065	0.0000056	0.00048	0.0016	2.6	0.00017	0.000011	0.94	0.022	0.000013	0.00011	0.00036	0.0012	0.0012
		October		0.000086	0.0011	1.2	0.0033	0.0000051	0.00018	0.00089	1.2	0.000088	0.00001	0.64	0.014	0.000011	0.00011	0.00012	0.00073	0.0011
		November		0.00009	0.001	1.1	0.002	0.000005	0.000059	0.0006	0.64	0.000052	0.00001	0.52	0.010	0.00001	0.00011	0.000016	0.00051	0.0011
		December		0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.52	0.0098	0.00001	0.00011	0.00001	0.0005	0.0011
		January	2022	0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.51	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011
		February		0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.51	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011
		March		0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.51	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011
		April		0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.51	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011
		May		0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.51	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011
		June		0.000057	0.00093	0.89	0.0034	0.0000039	0.00025	0.00098	1.4	0.000097	0.000008	0.57	0.014	0.0000091	0.00008	0.00019	0.00074	0.00089
		July		0.000094	0.0044	5.1	0.03	0.000012	0.0032	0.0059	16	0.00096	0.000025	2.3	0.10	0.000043	0.00021	0.0022	0.0062	0.0024
		August		0.000088	0.004	4.6	0.026	0.000011	0.0028	0.0052	14	0.00085	0.000023	2.1	0.088	0.000038	0.0002	0.0019	0.0055	0.0022
		September		0.000065	0.0017	1.8	0.0088	0.0000056	0.00088	0.002	4.6	0.00028	0.000012	0.95	0.032	0.000016	0.00011	0.00061	0.0019	0.0012
		October		0.000081	0.0012	1.3	0.004	0.0000051	0.0003	0.001	1.8	0.00012	0.00001	0.64	0.017	0.000012	0.00011	0.0002	0.00093	0.0011
		November		0.00009	0.001	1.1	0.002	0.000005	0.000066	0.00061	0.67	0.000054	0.00001	0.52	0.01	0.00001	0.00011	0.00002	0.00052	0.0011
		December		0.00009	0.001	1.1	0.0019	0.000005	0.000053	0.00058	0.61	0.00005	0.00001	0.52	0.0098	0.00001	0.00011	0.000011	0.0005	0.0011
		January	2023	0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.51	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011
		February		0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.51	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011
		March		0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.51	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011
		April		0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.51	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011
		May		0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.51	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011
		June		0.000058	0.001	0.98	0.0038	0.0000041	0.00031	0.0011	1.7	0.00011	0.0000083	0.6	0.015	0.0000099	0.000082	0.00023	0.00086	0.00092
		July		0.0001	0.0054	6.2	0.035	0.000014	0.004	0.0071	20	0.0012	0.00003	2.7	0.12	0.000052	0.00025	0.0027	0.0077	0.0028
		August		0.000094	0.0046	5.3	0.029	0.000012	0.0033	0.006	17	0.00099	0.000026	2.3	0.1	0.000045	0.00022	0.0023	0.0065	0.0025
		September		0.000066	0.0018	2.0	0.0097	0.0000059	0.001	0.0022	5.1	0.00031	0.000012	1.0	0.035	0.000018	0.00011	0.0007	0.0022	0.0013
		October		0.000082	0.0012	1.3	0.0042	0.0000052	0.00034	0.0011	1.9	0.00013	0.000011	0.66	0.017	0.000012	0.00011	0.00022	0.00098	0.0011
		November		0.00009	0.001	1.1	0.002	0.000005	0.000067	0.00061	0.68	0.000054	0.00001	0.52	0.01	0.00001	0.00011	0.000021	0.00053	0.0011
		December		0.00009	0.001	1.1	0.0019	0.000005	0.000053	0.00058	0.61	0.00005	0.00001	0.52	0.0098	0.00001	0.00011	0.000011	0.0005	0.0011
		January	2024	0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.51	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011
		February		0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.51	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011
		March		0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.51	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011
		April		0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.51	0.0097	0.00001	0.00011	0.00001	0.0005	0.0011
		May		0.00009	0.001	1.1	0.0019	0.000005	0.000052	0.00058	0.61	0.00005	0.00001	0.51						

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁵	Co	Cu ⁶	Fe
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
IVR Pit	Closure	January	2026	13	0.0042	7.6	0.57	0.024	3.4	0.0051	0.005	0.002	0.0002	0.00012	0.0041	0.0043	0.00002	0.00005	0.01	0.000005	2.4	0.0001	0.0001	0.00026	0.01
		February		13	0.0085	7.7	0.58	0.025	3.5	0.0051	0.005	0.0021	0.0002	0.00015	0.0084	0.0044	0.00002	0.00005	0.01	0.000005	2.4	0.0001	0.0001	0.00026	0.01
		March		13	0.0085	7.7	0.58	0.025	3.5	0.0051	0.005	0.0021	0.0002	0.00015	0.0093	0.0044	0.00002	0.00005	0.01	0.000005	2.4	0.0001	0.0001	0.00026	0.01
		April		13	0.0085	7.7	0.58	0.025	3.5	0.0051	0.005	0.0021	0.0002	0.00015	0.01	0.0044	0.00002	0.00005	0.01	0.000005	2.4	0.0001	0.0001	0.00026	0.01
		May		24	0.53	8.8	3.6	0.035	4.4	0.1	0.78	0.0055	0.0002	0.00033	0.013	0.0059	0.000022	0.000051	0.024	0.0000064	3.6	0.00025	0.00021	0.00055	0.028
		June		45	1.6	11	9.7	0.056	6.0	0.29	2.3	0.012	0.0002	0.00072	0.021	0.0091	0.000024	0.000053	0.052	0.0000091	6.0	0.00056	0.00041	0.0012	0.066
		July		43	1.5	11	9.2	0.055	5.8	0.27	2.2	0.012	0.0002	0.0007	0.024	0.0088	0.000024	0.000053	0.05	0.0000089	5.7	0.00053	0.00039	0.0011	0.063
		August		43	1.5	11	9.2	0.055	5.8	0.27	2.2	0.012	0.0002	0.00072	0.026	0.0089	0.000024	0.000053	0.05	0.0000089	5.8	0.00053	0.0004	0.0011	0.062
		September		43	1.5	11	9.2	0.055	5.8	0.27	2.1	0.012	0.0002	0.00071	0.026	0.0089	0.000024	0.000053	0.049	0.0000089	5.8	0.00053	0.00039	0.0011	0.062
		October		42	1.5	11	9.1	0.055	5.7	0.27	2.1	0.011	0.0002	0.0007	0.024	0.0088	0.000024	0.000053	0.049	0.0000089	5.7	0.00052	0.00039	0.0011	0.061
		November		42	1.5	10	9.1	0.054	5.7	0.27	2.1	0.011	0.0002	0.00069	0.023	0.0088	0.000024	0.000054	0.049	0.0000088	5.7	0.00052	0.00039	0.0011	0.061
		December		42	1.5	10	9.1	0.054	5.7	0.27	2.1	0.011	0.0002	0.00069	0.023	0.0088	0.000024	0.000054	0.049	0.0000088	5.7	0.00052	0.00039	0.0011	0.061
		January	2027	42	1.5	10	9.1	0.054	5.7	0.27	2.1	0.011	0.0002	0.00069	0.024	0.0088	0.000024	0.000054	0.049	0.0000088	5.7	0.00052	0.00039	0.0011	0.061
		February		42	1.5	10	9.1	0.054	5.7	0.27	2.1	0.011	0.0002	0.00069	0.024	0.0088	0.000024	0.000054	0.049	0.0000088	5.7	0.00052	0.00039	0.0011	0.061
		March		42	1.5	10	9.1	0.054	5.7	0.27	2.1	0.011	0.0002	0.00069	0.024	0.0088	0.000024	0.000054	0.049	0.0000088	5.7	0.00052	0.00039	0.0011	0.061
		April		42	1.5	10	9.1	0.054	5.7	0.27	2.1	0.011	0.0002	0.00069	0.024	0.0088	0.000024	0.000054	0.049	0.0000088	5.7	0.00052	0.00039	0.0011	0.061
		May		42	1.5	10	9.1	0.054	5.7	0.27	2.1	0.011	0.0002	0.00069	0.024	0.0088	0.000024	0.000054	0.049	0.0000088	5.7	0.00052	0.00039	0.0011	0.061
		June		41	1.4	10	8.9	0.054	5.5	0.26	2.0	0.011	0.0002	0.00067	0.023	0.0086	0.000024	0.000053	0.048	0.0000087	5.6	0.00051	0.00038	0.0011	0.06
		July		40	1.4	10	8.6	0.053	5.4	0.25	2.0	0.011	0.0002	0.00065	0.022	0.0084	0.000024	0.000053	0.046	0.0000086	5.4	0.00049	0.00037	0.0011	0.058
		August		40	1.4	10	8.6	0.053	5.4	0.25	2.0	0.011	0.0002	0.00065	0.023	0.0085	0.000024	0.000053	0.046	0.0000086	5.4	0.00049	0.00037	0.0011	0.058
		September		40	1.4	10	8.5	0.053	5.4	0.24	1.9	0.011	0.0002	0.00065	0.023	0.0084	0.000024	0.000053	0.045	0.0000086	5.4	0.00048	0.00037	0.001	0.058
		October		39	1.3	10.0	8.4	0.052	5.3	0.24	1.9	0.011	0.0002	0.00064	0.023	0.0084	0.000024	0.000053	0.045	0.0000085	5.3	0.00048	0.00036	0.001	0.057
		November		39	1.3	10.0	8.4	0.052	5.3	0.24	1.9	0.011	0.0002	0.00064	0.023	0.0084	0.000024	0.000053	0.045	0.0000085	5.3	0.00048	0.00036	0.001	0.057
		December		39	1.3	10.0	8.4	0.052	5.3	0.24	1.9	0.011	0.0002	0.00064	0.023	0.0084	0.000024	0.000053	0.045	0.0000085	5.3	0.00048	0.00036	0.001	0.057
		January	2028	39	1.3	10.0	8.4	0.052	5.3	0.24	1.9	0.011	0.0002	0.00064	0.023	0.0084	0.000024	0.000053	0.045	0.0000085	5.3	0.00048	0.00036	0.001	0.057
		February		39	1.3	10.0	8.4	0.052	5.3	0.24	1.9	0.011	0.0002	0.00064	0.023	0.0084	0.000024	0.000053	0.045	0.0000085	5.3	0.00048	0.00036	0.001	0.057
		March		39	1.3	10.0	8.4	0.052	5.3	0.24	1.9	0.011	0.0002	0.00064	0.023	0.0084	0.000024	0.000053	0.045	0.0000085	5.3	0.00048	0.00036	0.001	0.057
		April		39	1.3	10.0	8.4	0.052	5.3	0.24	1.9	0.011	0.0002	0.00064	0.023	0.0084	0.000024	0.000053	0.045	0.0000085	5.3	0.00048	0.00036	0.001	0.057
		May		39	1.3	10.0	8.4	0.052	5.3	0.24	1.9	0.011	0.0002	0.00064	0.023	0.0084	0.000024	0.000053	0.045	0.0000085	5.3	0.00048	0.00036	0.001	0.057
		June		38	1.3	9.7	8.1	0.051	5.1	0.23	1.8	0.01	0.0002	0.00061	0.021	0.0081	0.000024	0.000053	0.043	0.0000083	5.2	0.00046	0.00035	0.001	0.055
		July		36	1.2	9.3	7.7	0.049	4.8	0.21	1.7	0.0095	0.0002	0.00058	0.02	0.0079	0.000023	0.000053	0.041	0.0000081	5.0	0.00043	0.00033	0.00098	0.053
		August		36	1.2	9.3	7.7	0.05	4.9	0.21	1.7	0.0095	0.0002	0.00058	0.021	0.0079	0.000023	0.000053	0.041	0.0000081	5.0	0.00043	0.00033	0.00098	0.053
		September		35	1.2	9.3	7.6	0.049	4.8	0.21	1.6	0.0093	0.0002	0.00058	0.021	0.0078	0.000023	0.000053	0.04	0.000008	4.9	0.00043	0.00033	0.00097	0.052
		October		35	1.2	9.2	7.5	0.049	4.7	0.2	1.6	0.0092	0.0002	0.00057	0.02	0.0078	0.000023	0.000053	0.039	0.000008	4.8	0.00042	0.00032	0.00096	0.051
		November		35	1.2	9.2	7.5	0.049	4.7	0.2	1.6	0.0092	0.0002	0.00057	0.02	0.0078	0.000023	0.000053	0.039	0.000008	4.8	0.00042	0.00032	0.00096	0.051
		December		35	1.2	9.2	7.5	0.049	4.7	0.2	1.6	0.0092	0.000												

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.0003		0.0008		0.015		0.007	
		Constituent		Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
IVR Pit	Closure	January	2026	0.00009	0.001	1.1	0.0019	0.000005	0.000061	0.0006	0.65	0.000053	0.00001	0.52	0.010	0.00001	0.00011	0.000016	0.00052	0.0011
		February		0.00009	0.001	1.1	0.002	0.000005	0.00007	0.00061	0.7	0.000055	0.00001	0.52	0.01	0.00001	0.00011	0.000022	0.00053	0.0011
		March		0.00009	0.001	1.1	0.002	0.000005	0.00007	0.00061	0.7	0.000055	0.00001	0.52	0.01	0.00001	0.00011	0.000022	0.00053	0.0011
		April		0.00009	0.001	1.1	0.002	0.000005	0.00007	0.00061	0.7	0.000055	0.00001	0.52	0.01	0.00001	0.00011	0.000022	0.00053	0.0011
		May		0.00013	0.0013	1.2	0.017	0.0000066	0.00031	0.0021	1.0	0.00014	0.000013	1.5	0.019	0.000012	0.00012	0.00011	0.00064	0.0016
		June		0.0002	0.0019	1.3	0.046	0.0000097	0.00079	0.0049	1.6	0.0003	0.00002	3.4	0.037	0.000015	0.00013	0.00031	0.00087	0.0026
		July		0.00019	0.0018	1.3	0.043	0.0000094	0.00077	0.0047	1.6	0.00028	0.000019	3.2	0.036	0.000015	0.00013	0.0003	0.00087	0.0025
		August		0.00019	0.0019	1.3	0.043	0.0000095	0.00078	0.0047	1.7	0.00029	0.000019	3.2	0.036	0.000015	0.00013	0.00031	0.00088	0.0025
		September		0.00019	0.0019	1.3	0.043	0.0000095	0.00078	0.0046	1.6	0.00029	0.000019	3.2	0.036	0.000015	0.00013	0.00031	0.00088	0.0025
		October		0.00019	0.0018	1.3	0.042	0.0000095	0.00076	0.0046	1.6	0.00028	0.000019	3.1	0.036	0.000015	0.00013	0.0003	0.00087	0.0025
		November		0.00019	0.0018	1.3	0.042	0.0000094	0.00075	0.0046	1.6	0.00028	0.000019	3.1	0.036	0.000015	0.00013	0.00029	0.00087	0.0025
		December		0.00019	0.0018	1.3	0.042	0.0000094	0.00075	0.0046	1.6	0.00028	0.000019	3.1	0.036	0.000015	0.00013	0.0003	0.00087	0.0025
		January	2027	0.00019	0.0018	1.3	0.042	0.0000094	0.00075	0.0046	1.6	0.00028	0.000019	3.1	0.036	0.000015	0.00013	0.0003	0.00087	0.0025
		February		0.00019	0.0018	1.3	0.042	0.0000094	0.00075	0.0046	1.6	0.00028	0.000019	3.1	0.036	0.000015	0.00013	0.0003	0.00087	0.0025
		March		0.00019	0.0018	1.3	0.042	0.0000094	0.00075	0.0046	1.6	0.00028	0.000019	3.1	0.036	0.000015	0.00013	0.0003	0.00087	0.0025
		April		0.00019	0.0018	1.3	0.042	0.0000094	0.00075	0.0046	1.6	0.00028	0.000019	3.1	0.036	0.000015	0.00013	0.0003	0.00087	0.0025
		May		0.00019	0.0018	1.3	0.042	0.0000094	0.00075	0.0046	1.6	0.00028	0.000019	3.1	0.036	0.000015	0.00013	0.0003	0.00087	0.0025
		June		0.00019	0.0018	1.3	0.041	0.0000093	0.00073	0.0045	1.6	0.00027	0.000019	3.1	0.035	0.000015	0.00013	0.00029	0.00085	0.0024
		July		0.00018	0.0018	1.3	0.039	0.0000091	0.00071	0.0043	1.5	0.00026	0.000018	3.0	0.034	0.000014	0.00013	0.00028	0.00084	0.0024
		August		0.00018	0.0018	1.3	0.039	0.0000092	0.00071	0.0043	1.5	0.00026	0.000018	2.9	0.034	0.000014	0.00013	0.00028	0.00085	0.0024
		September		0.00018	0.0018	1.3	0.039	0.0000091	0.00071	0.0042	1.5	0.00026	0.000018	2.9	0.034	0.000014	0.00013	0.00028	0.00084	0.0024
		October		0.00018	0.0018	1.3	0.038	0.0000091	0.0007	0.0042	1.5	0.00026	0.000018	2.9	0.034	0.000014	0.00013	0.00028	0.00084	0.0024
		November		0.00018	0.0018	1.3	0.038	0.0000091	0.0007	0.0042	1.5	0.00026	0.000018	2.9	0.034	0.000014	0.00013	0.00028	0.00084	0.0024
		December		0.00018	0.0018	1.3	0.038	0.0000091	0.0007	0.0042	1.5	0.00026	0.000018	2.9	0.034	0.000014	0.00013	0.00028	0.00084	0.0024
		January	2028	0.00018	0.0018	1.3	0.038	0.0000091	0.0007	0.0042	1.5	0.00026	0.000018	2.9	0.034	0.000014	0.00013	0.00028	0.00084	0.0024
		February		0.00018	0.0018	1.3	0.038	0.0000091	0.0007	0.0042	1.5	0.00026	0.000018	2.9	0.034	0.000014	0.00013	0.00028	0.00084	0.0024
		March		0.00018	0.0018	1.3	0.038	0.0000091	0.0007	0.0042	1.5	0.00026	0.000018	2.9	0.034	0.000014	0.00013	0.00028	0.00084	0.0024
		April		0.00018	0.0018	1.3	0.038	0.0000091	0.0007	0.0042	1.5	0.00026	0.000018	2.9	0.034	0.000014	0.00013	0.00028	0.00084	0.0024
		May		0.00018	0.0018	1.3	0.038	0.0000091	0.0007	0.0042	1.5	0.00026	0.000018	2.9	0.034	0.000014	0.00013	0.00028	0.00084	0.0024
		June		0.00017	0.0017	1.2	0.036	0.0000089	0.00066	0.004	1.4	0.00025	0.000018	2.8	0.033	0.000014	0.00013	0.00026	0.00082	0.0023
		July		0.00016	0.0017	1.2	0.034	0.0000086	0.00062	0.0038	1.4	0.00023	0.000017	2.6	0.031	0.000014	0.00012	0.00025	0.0008	0.0022
		August		0.00016	0.0017	1.2	0.034	0.0000087	0.00063	0.0038	1.4	0.00023	0.000017	2.6	0.031	0.000014	0.00012	0.00025	0.0008	0.0022
		September		0.00016	0.0017	1.2	0.033	0.0000086	0.00062	0.0037	1.4	0.00023	0.000017	2.6	0.031	0.000014	0.00012	0.00025	0.0008	0.0022
		October		0.00016	0.0017	1.2	0.032	0.0000085	0.00061	0.0036	1.4	0.00023	0.000017	2.5	0.031	0.000014	0.00012	0.00025	0.0008	0.0022
		November		0.00016	0.0017	1.2	0.032	0.0000085	0.00061	0.0036	1.4	0.00023	0.000017	2.5	0.031	0.000014	0.00012	0.00025	0.0008	0.0022
		December		0.00016	0.0017	1.2	0.032	0.0000085	0.00061	0.0036	1.4	0.00023	0.000017	2.5	0.031	0.000014	0.00012	0.00025	0.0008	0.0022
		January	2029	0.00016	0.0017	1.2	0.032	0.0000085	0.00061	0.0036	1.4	0.00023	0.000017	2.5	0.031	0.000014	0.00012	0.00025	0.0008	0.0022
		February		0.00016	0.0017	1.2	0.032	0.0000085	0.00061	0.0036	1.4	0.00023	0.000017	2.5	0.031	0.000014	0.00012	0.00025	0.0008	0.0022
		March		0.00016	0.0017	1.2	0.032	0.0000085	0.00061	0.0036	1.4	0.00023	0.000017	2.5	0.031	0.000014	0.00012	0.00025	0.0008	0.0022
		April		0.00016	0.0017	1.2	0.032	0.0000085	0.00061	0.0036	1.4	0.00023	0.000017	2.5	0.031	0.000014	0.00012	0.00025	0.0008	0.0022
		May		0.00016	0.0017	1.2	0.032	0.0000085	0.00061	0.0036	1.4	0.00023	0.000017	2.5	0.031	0.000014	0.00012	0.00025	0.0008	0.0022
		June		0.00015	0.0016	1.1	0.03	0.0000083	0.00057	0.0034	1.3	0.00021	0.000016	2.4	0.03	0.000013	0.00012	0.00023	0.00078	0.0021
		July		0.00014	0.0016	1.1	0.028	0.000008	0.00053	0.0032	1.2	0.0002	0.000016	2.2	0.028	0.000013	0.00012	0.00022	0.00075	0.002
		August		0.00014	0.0016	1.1	0.028	0.0000081	0.00054	0.0032	1.2	0.0002	0.000016	2.2	0.028	0.000013	0.00012	0.00022	0.00076	0.002
		September		0.00014	0.0015	1.1	0.027	0.000008	0.00053	0.0031	1.2	0.0002	0.000016	2.2	0.028	0.000013	0.00012	0.00022	0.00076	0.002
		October		0.00014	0.0015	1.1	0.026	0.000008	0.00052	0.003	1.2	0.00019	0.000016	2.1	0.028	0.000013	0.00012	0.00021	0.00075	0.002
		November		0.00014	0.0015	1.1	0.026	0.000008	0.00052	0.003	1.2	0.00019	0.000016	2.1	0.028	0.000013	0.00012	0.00021	0.00075	0.002
		December		0.00014	0.															

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	As ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁵	Co	Cu ⁶	Fe
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
IVR Pit	Closure	January	2032	23	0.6	7.0	5.0	0.039	3.2	0.10	0.76	0.0055	0.0002	0.00036	0.014	0.0061	0.000022	0.000051	0.024	0.0000065	3.5	0.00026	0.00021	0.00072	0.034
		February		23	0.6	7.0	5.0	0.039	3.2	0.10	0.76	0.0055	0.0002	0.00036	0.014	0.0061	0.000022	0.000051	0.024	0.0000065	3.5	0.00026	0.00021	0.00072	0.034
		March		23	0.6	7.0	5.0	0.039	3.2	0.10	0.76	0.0055	0.0002	0.00036	0.014	0.0061	0.000022	0.000051	0.024	0.0000065	3.5	0.00026	0.00021	0.00072	0.034
		April		23	0.6	7.0	5.0	0.039	3.2	0.10	0.76	0.0055	0.0002	0.00036	0.014	0.0061	0.000022	0.000051	0.024	0.0000065	3.5	0.00026	0.00021	0.00072	0.034
		May		23	0.6	7.0	5.0	0.039	3.2	0.10	0.76	0.0055	0.0002	0.00036	0.014	0.0061	0.000022	0.000051	0.024	0.0000065	3.5	0.00026	0.00021	0.00072	0.034
		June		22	0.55	6.8	4.8	0.038	3.0	0.092	0.69	0.0052	0.0002	0.00034	0.013	0.0059	0.000022	0.000051	0.023	0.0000064	3.4	0.00024	0.0002	0.0007	0.033
		July		20	0.5	6.5	4.5	0.037	2.8	0.082	0.62	0.0048	0.0002	0.00031	0.012	0.0057	0.000021	0.000051	0.021	0.0000062	3.2	0.00023	0.00019	0.00068	0.031
		August		20	0.5	6.6	4.5	0.037	2.9	0.082	0.61	0.0048	0.0002	0.00032	0.013	0.0057	0.000021	0.000051	0.021	0.0000062	3.2	0.00023	0.00019	0.00068	0.031
		September		20	0.5	6.5	4.5	0.037	2.8	0.079	0.59	0.0048	0.0002	0.00032	0.013	0.0057	0.000021	0.000051	0.021	0.0000062	3.2	0.00023	0.00019	0.00068	0.031
		October		20	0.48	6.5	4.4	0.037	2.8	0.077	0.57	0.0047	0.0002	0.00031	0.013	0.0057	0.000021	0.000051	0.021	0.0000062	3.2	0.00022	0.00019	0.00067	0.031
		November		20	0.48	6.5	4.4	0.037	2.8	0.077	0.57	0.0047	0.0002	0.00031	0.013	0.0057	0.000021	0.000051	0.021	0.0000062	3.2	0.00022	0.00019	0.00067	0.031
		December		20	0.48	6.5	4.4	0.037	2.8	0.077	0.57	0.0047	0.0002	0.00031	0.013	0.0057	0.000021	0.000051	0.021	0.0000062	3.2	0.00022	0.00019	0.00067	0.031
		January	2033	20	0.48	6.5	4.4	0.037	2.8	0.077	0.57	0.0047	0.0002	0.00031	0.013	0.0057	0.000021	0.000051	0.021	0.0000062	3.2	0.00022	0.00019	0.00067	0.031
		February		20	0.48	6.5	4.4	0.037	2.8	0.077	0.57	0.0047	0.0002	0.00031	0.013	0.0057	0.000021	0.000051	0.021	0.0000062	3.2	0.00022	0.00019	0.00067	0.031
		March		20	0.48	6.5	4.4	0.037	2.8	0.077	0.57	0.0047	0.0002	0.00031	0.013	0.0057	0.000021	0.000051	0.021	0.0000062	3.2	0.00022	0.00019	0.00067	0.031
		April		20	0.48	6.5	4.4	0.037	2.8	0.077	0.57	0.0047	0.0002	0.00031	0.013	0.0057	0.000021	0.000051	0.021	0.0000062	3.2	0.00022	0.00019	0.00067	0.031
		May		20	0.48	6.5	4.4	0.037	2.8	0.077	0.57	0.0047	0.0002	0.00031	0.013	0.0057	0.000021	0.000051	0.021	0.0000062	3.2	0.00022	0.00019	0.00067	0.031
		June		19	0.44	6.3	4.2	0.036	2.7	0.07	0.52	0.0044	0.0002	0.00029	0.012	0.0055	0.000021	0.000051	0.02	0.0000061	3.1	0.00021	0.00018	0.00065	0.03
		July		18	0.39	6.1	4.0	0.035	2.5	0.063	0.46	0.0042	0.0002	0.00028	0.011	0.0054	0.000021	0.000051	0.019	0.0000059	3.0	0.0002	0.00017	0.00064	0.028
		August		18	0.4	6.1	4.0	0.035	2.6	0.062	0.46	0.0042	0.0002	0.00028	0.012	0.0054	0.000021	0.000051	0.019	0.000006	3.0	0.0002	0.00017	0.00064	0.028
		September		18	0.4	6.1	4.0	0.035	2.6	0.061	0.44	0.0041	0.0002	0.00028	0.012	0.0054	0.000021	0.000051	0.018	0.000006	3.0	0.0002	0.00017	0.00063	0.028
		October		18	0.38	6.1	4.0	0.035	2.5	0.059	0.43	0.004	0.0002	0.00028	0.012	0.0054	0.000021	0.000051	0.018	0.0000059	2.9	0.00019	0.00017	0.00063	0.028
		November		18	0.38	6.1	4.0	0.035	2.5	0.059	0.43	0.004	0.0002	0.00028	0.012	0.0054	0.000021	0.000051	0.018	0.0000059	2.9	0.00019	0.00017	0.00063	0.028
		December		18	0.38	6.1	4.0	0.035	2.5	0.059	0.43	0.004	0.0002	0.00028	0.012	0.0054	0.000021	0.000051	0.018	0.0000059	2.9	0.00019	0.00017	0.00063	0.028
		January	2034	18	0.38	6.1	4.0	0.035	2.5	0.059	0.43	0.004	0.0002	0.00028	0.012	0.0054	0.000021	0.000051	0.018	0.0000059	2.9	0.00019	0.00017	0.00063	0.028
		February		18	0.38	6.1	4.0	0.035	2.5	0.059	0.43	0.004	0.0002	0.00028	0.012	0.0054	0.000021	0.000051	0.018	0.0000059	2.9	0.00019	0.00017	0.00063	0.028
		March		18	0.38	6.1	4.0	0.035	2.5	0.059	0.43	0.004	0.0002	0.00028	0.012	0.0054	0.000021	0.000051	0.018	0.0000059	2.9	0.00019	0.00017	0.00063	0.028
		April		18	0.38	6.1	4.0	0.035	2.5	0.059	0.43	0.004	0.0002	0.00028	0.012	0.0054	0.000021	0.000051	0.018	0.0000059	2.9	0.00019	0.00017	0.00063	0.028
		May		18	0.38	6.1	4.0	0.035	2.5	0.059	0.43	0.004	0.0002	0.00028	0.012	0.0054	0.000021	0.000051	0.018	0.0000059	2.9	0.00019	0.00017	0.00063	0.028
		June		17	0.35	5.9	3.8	0.034	2.4	0.054	0.39	0.0039	0.0002	0.00026	0.011	0.0053	0.000021	0.000051	0.017	0.0000058	2.9	0.00019	0.00016	0.00062	0.027
		July		16	0.32	5.8	3.7	0.034	2.3	0.048	0.34	0.0036	0.0002	0.00025	0.01	0.0051	0.000021	0.000051	0.016	0.0000057	2.8	0.00018	0.00015	0.0006	0.026
		August		16	0.32	5.8	3.7	0.034	2.3	0.048	0.34	0.0036	0.0002	0.00025	0.011	0.0052	0.000021	0.000051	0.016	0.0000058	2.8	0.00018	0.00015	0.0006	0.026
		September		16	0.32	5.8	3.6	0.034	2.3	0.046	0.33	0.0036	0.0002	0.00025	0.011	0.0052	0.000021	0.000051	0.016	0.0000058	2.8	0.00017	0.00015	0.0006	0.026
		October		16	0.31	5.8	3.6	0.034	2.3	0.045	0.32	0.0035	0.0002	0.00025	0.011	0.0051	0.000021	0.000051	0.016	0.0000057	2.8	0.00017	0.00015	0.0006	0.026
		November		16	0.31	5.8	3.6	0.034	2.3	0.045	0.32	0.0035	0.0002	0.00025	0.011	0.0051	0.000021	0.000051							

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.0003		0.0008		0.015		0.007	
		Constituent		Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
IVR Pit	Closure	January	2032	0.00011	0.0013	0.96	0.016	0.000007	0.00037	0.0021	0.95	0.00014	0.000013	1.5	0.022	0.000012	0.00011	0.00016	0.00067	0.0017
		February		0.00011	0.0013	0.96	0.016	0.000007	0.00037	0.0021	0.95	0.00014	0.000013	1.5	0.022	0.000012	0.00011	0.00016	0.00067	0.0017
		March		0.00011	0.0013	0.96	0.016	0.000007	0.00037	0.0021	0.95	0.00014	0.000013	1.5	0.022	0.000012	0.00011	0.00016	0.00067	0.0017
		April		0.00011	0.0013	0.96	0.016	0.000007	0.00037	0.0021	0.95	0.00014	0.000013	1.5	0.022	0.000012	0.00011	0.00016	0.00067	0.0017
		May		0.00011	0.0013	0.96	0.016	0.000007	0.00037	0.0021	0.95	0.00014	0.000013	1.5	0.022	0.000012	0.00011	0.00016	0.00067	0.0017
		June		0.0001	0.0013	0.94	0.015	0.0000068	0.00034	0.002	0.9	0.00013	0.000013	1.4	0.022	0.000012	0.00011	0.00015	0.00066	0.0016
		July		0.000096	0.0013	0.92	0.014	0.0000066	0.00031	0.0018	0.85	0.00012	0.000013	1.3	0.021	0.000012	0.00011	0.00014	0.00064	0.0016
		August		0.000096	0.0013	0.92	0.014	0.0000067	0.00032	0.0018	0.87	0.00012	0.000013	1.3	0.021	0.000012	0.00011	0.00014	0.00065	0.0016
		September		0.000095	0.0013	0.92	0.013	0.0000067	0.00032	0.0018	0.87	0.00012	0.000013	1.3	0.021	0.000012	0.00011	0.00014	0.00065	0.0016
		October		0.000094	0.0013	0.92	0.013	0.0000066	0.00031	0.0017	0.86	0.00012	0.000013	1.3	0.021	0.000012	0.00011	0.00014	0.00065	0.0016
		November		0.000094	0.0013	0.92	0.013	0.0000066	0.00031	0.0017	0.86	0.00012	0.000013	1.3	0.021	0.000012	0.00011	0.00014	0.00065	0.0016
		December		0.000094	0.0013	0.92	0.013	0.0000066	0.00031	0.0017	0.86	0.00012	0.000013	1.3	0.021	0.000012	0.00011	0.00014	0.00065	0.0016
		January	2033	0.000094	0.0013	0.92	0.013	0.0000066	0.00031	0.0017	0.86	0.00012	0.000013	1.3	0.021	0.000012	0.00011	0.00014	0.00065	0.0016
		February		0.000094	0.0013	0.92	0.013	0.0000066	0.00031	0.0017	0.86	0.00012	0.000013	1.3	0.021	0.000012	0.00011	0.00014	0.00065	0.0016
		March		0.000094	0.0013	0.92	0.013	0.0000066	0.00031	0.0017	0.86	0.00012	0.000013	1.3	0.021	0.000012	0.00011	0.00014	0.00065	0.0016
		April		0.000094	0.0013	0.92	0.013	0.0000066	0.00031	0.0017	0.86	0.00012	0.000013	1.3	0.021	0.000012	0.00011	0.00014	0.00065	0.0016
		May		0.000094	0.0013	0.92	0.013	0.0000066	0.00031	0.0017	0.86	0.00012	0.000013	1.3	0.021	0.000012	0.00011	0.00014	0.00065	0.0016
		June		0.00009	0.0012	0.9	0.012	0.0000065	0.00029	0.0017	0.82	0.00011	0.000012	1.2	0.02	0.000012	0.00011	0.00013	0.00063	0.0015
		July		0.000086	0.0012	0.88	0.011	0.0000063	0.00027	0.0015	0.78	0.00011	0.000012	1.1	0.019	0.000011	0.00011	0.00012	0.00062	0.0015
		August		0.000087	0.0012	0.88	0.011	0.0000064	0.00027	0.0015	0.79	0.00011	0.000012	1.1	0.019	0.000011	0.00011	0.00013	0.00063	0.0015
		September		0.000086	0.0012	0.88	0.01	0.0000064	0.00027	0.0015	0.79	0.00011	0.000012	1.1	0.019	0.000011	0.00011	0.00013	0.00063	0.0015
		October		0.000085	0.0012	0.88	0.01	0.0000063	0.00027	0.0015	0.78	0.0001	0.000012	1.1	0.019	0.000011	0.00011	0.00013	0.00062	0.0015
		November		0.000085	0.0012	0.88	0.01	0.0000063	0.00027	0.0015	0.78	0.0001	0.000012	1.1	0.019	0.000011	0.00011	0.00013	0.00062	0.0015
		December		0.000085	0.0012	0.88	0.01	0.0000063	0.00027	0.0015	0.78	0.0001	0.000012	1.1	0.019	0.000011	0.00011	0.00013	0.00062	0.0015
		January	2034	0.000085	0.0012	0.88	0.01	0.0000063	0.00027	0.0015	0.78	0.0001	0.000012	1.1	0.019	0.000011	0.00011	0.00013	0.00062	0.0015
		February		0.000085	0.0012	0.88	0.01	0.0000063	0.00027	0.0015	0.78	0.0001	0.000012	1.1	0.019	0.000011	0.00011	0.00013	0.00062	0.0015
		March		0.000085	0.0012	0.88	0.01	0.0000063	0.00027	0.0015	0.78	0.0001	0.000012	1.1	0.019	0.000011	0.00011	0.00013	0.00062	0.0015
		April		0.000085	0.0012	0.88	0.01	0.0000063	0.00027	0.0015	0.78	0.0001	0.000012	1.1	0.019	0.000011	0.00011	0.00013	0.00062	0.0015
		May		0.000085	0.0012	0.88	0.01	0.0000063	0.00027	0.0015	0.78	0.0001	0.000012	1.1	0.019	0.000011	0.00011	0.00013	0.00062	0.0015
		June		0.000082	0.0012	0.86	0.0093	0.0000062	0.00025	0.0014	0.75	0.00010	0.000012	1.0	0.019	0.000011	0.00011	0.00012	0.00061	0.0014
		July		0.000079	0.0012	0.85	0.0084	0.0000061	0.00023	0.0013	0.72	0.000095	0.000012	0.98	0.018	0.000011	0.00011	0.00011	0.0006	0.0014
		August		0.000079	0.0012	0.85	0.0084	0.0000062	0.00024	0.0013	0.73	0.000095	0.000012	0.99	0.018	0.000011	0.00011	0.00011	0.00061	0.0014
		September		0.000078	0.0012	0.85	0.0082	0.0000062	0.00024	0.0013	0.74	0.000095	0.000012	0.97	0.018	0.000011	0.00011	0.00012	0.00061	0.0014
		October		0.000078	0.0012	0.85	0.008	0.0000061	0.00023	0.0013	0.73	0.000093	0.000012	0.96	0.018	0.000011	0.00011	0.00011	0.00061	0.0014
		November		0.000078	0.0012	0.85	0.008	0.0000061	0.00023	0.0013	0.73	0.000093	0.000012	0.96	0.018	0.000011	0.00011	0.00011	0.00061	0.0014
		December		0.000078	0.0012	0.85	0.008	0.0000061	0.00023	0.0013	0.73	0.000093	0.000012	0.96	0.018	0.000011	0.00011	0.00011	0.00061	0.0014
		January	2035	0.000078	0.0012	0.85	0.008	0.0000061	0.00023	0.0013	0.73	0.000093	0.000012	0.96	0.018	0.000011	0.00011	0.00011	0.00061	0.0014
		February		0.000078	0.0012	0.85	0.008	0.0000061	0.00023	0.0013	0.73	0.000093	0.000012	0.96	0.018	0.000011	0.00011	0.00011	0.00061	0.0014
		March		0.000078	0.0012	0.85	0.008	0.0000061	0.00023	0.0013	0.73	0.000093	0.000012	0.96	0.018	0.000011	0.00011	0.00011	0.00061	0.0014
		April		0.000078	0.0012	0.85	0.008	0.0000061	0.00023	0.0013	0.73	0.000093	0.000012	0.96	0.018	0.000011	0.00011	0.00011	0.00061	0.0014
		May		0.000078	0.0012	0.85	0.008	0.0000061	0.00023	0.0013	0.73	0.000093	0.000012	0.96	0.018	0.000011	0.00011	0.00011	0.00061	0.0014
		June		0.000076	0.0012	0.84	0.0074	0.000006	0.00022	0.0012	0.7	0.000089	0.000011	0.92	0.018	0.000011	0.00011	0.00011	0.0006	0.0014
		July		0.000073	0.0011	0.83	0.0067	0.0000059	0.0002	0.0012	0.67	0.000085	0.000011	0.88	0.017	0.000011	0.00011	0.0001	0.00059	0.0014
		August		0.000073	0.0011	0.83	0.0067	0.000006	0.00021	0.0012	0.69	0.000086	0.000011	0.88	0.017	0.000011	0.00011	0.00011	0.0006	0.0014
		September		0.000073	0.0011	0.83	0.0065	0.000006	0.00021	0.0011	0.69	0.000086	0.000011	0.87	0.017	0.000011	0.00011	0.00011	0.0006	0.0014
		October		0.000072	0.0011	0.83	0.0064	0.000006	0.00021	0.0011	0.69	0.000085	0.000011	0.86	0.017	0.000011	0.00011	0.0001	0.0006	0.0014
		November		0.000072	0.0011	0.83	0.0064	0.000006	0.00021	0.0011	0.69.									

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁵	Co	Cu ⁶	Fe
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
IVR Pit	Closure	January	2038	13	0.18	5.3	3.0	0.032	1.9	0.021	0.13	0.0027	0.0002	0.0002	0.0095	0.0047	0.000021	0.00005	0.012	0.0000054	2.4	0.00013	0.00013	0.00054	0.022
		February		13	0.18	5.3	3.0	0.032	1.9	0.021	0.13	0.0027	0.0002	0.0002	0.0095	0.0047	0.000021	0.00005	0.012	0.0000054	2.4	0.00013	0.00013	0.00054	0.022
		March		13	0.18	5.3	3.0	0.032	1.9	0.021	0.13	0.0027	0.0002	0.0002	0.0095	0.0047	0.000021	0.00005	0.012	0.0000054	2.4	0.00013	0.00013	0.00054	0.022
		April		13	0.18	5.3	3.0	0.032	1.9	0.021	0.13	0.0027	0.0002	0.0002	0.0095	0.0047	0.000021	0.00005	0.012	0.0000054	2.4	0.00013	0.00013	0.00054	0.022
		May		13	0.18	5.3	3.0	0.032	1.9	0.021	0.13	0.0027	0.0002	0.0002	0.0095	0.0047	0.000021	0.00005	0.012	0.0000054	2.4	0.00013	0.00013	0.00054	0.022
		June		13	0.17	5.2	3.0	0.031	1.9	0.02	0.12	0.0026	0.0002	0.00019	0.0088	0.0047	0.00002	0.00005	0.012	0.0000054	2.4	0.00013	0.00012	0.00054	0.021
		July		13	0.15	5.1	2.9	0.031	1.8	0.018	0.1	0.0026	0.0002	0.00019	0.0083	0.0046	0.00002	0.00005	0.012	0.0000053	2.4	0.00013	0.00012	0.00053	0.021
		August		13	0.16	5.2	2.9	0.031	1.9	0.018	0.1	0.0026	0.0002	0.00019	0.0091	0.0047	0.00002	0.00005	0.012	0.0000053	2.4	0.00013	0.00012	0.00054	0.021
		September		13	0.17	5.2	2.9	0.031	1.9	0.018	0.099	0.0026	0.0002	0.00019	0.0094	0.0047	0.00002	0.00005	0.012	0.0000053	2.4	0.00013	0.00012	0.00054	0.021
		October		13	0.16	5.2	2.9	0.031	1.9	0.017	0.096	0.0026	0.0002	0.00019	0.0092	0.0047	0.00002	0.00005	0.012	0.0000053	2.4	0.00013	0.00012	0.00054	0.021
		November		13	0.16	5.2	2.9	0.031	1.9	0.017	0.096	0.0026	0.0002	0.00019	0.0092	0.0047	0.00002	0.00005	0.012	0.0000053	2.4	0.00013	0.00012	0.00054	0.021
		December		13	0.16	5.2	2.9	0.031	1.9	0.017	0.096	0.0026	0.0002	0.00019	0.0092	0.0047	0.00002	0.00005	0.012	0.0000053	2.4	0.00013	0.00012	0.00054	0.021
		January	2039	13	0.16	5.2	2.9	0.031	1.9	0.017	0.096	0.0026	0.0002	0.00019	0.0093	0.0047	0.00002	0.00005	0.012	0.0000053	2.4	0.00013	0.00012	0.00054	0.021
		February		13	0.16	5.2	2.9	0.031	1.9	0.017	0.096	0.0026	0.0002	0.00019	0.0093	0.0047	0.00002	0.00005	0.012	0.0000053	2.4	0.00013	0.00012	0.00054	0.021
		March		13	0.16	5.2	2.9	0.031	1.9	0.017	0.096	0.0026	0.0002	0.00019	0.0093	0.0047	0.00002	0.00005	0.012	0.0000053	2.4	0.00013	0.00012	0.00054	0.021
		April		13	0.16	5.2	2.9	0.031	1.9	0.017	0.096	0.0026	0.0002	0.00019	0.0093	0.0047	0.00002	0.00005	0.012	0.0000053	2.4	0.00013	0.00012	0.00054	0.021
		May		13	0.16	5.2	2.9	0.031	1.9	0.017	0.096	0.0026	0.0002	0.00019	0.0093	0.0047	0.00002	0.00005	0.012	0.0000053	2.4	0.00013	0.00012	0.00054	0.021
		June		13	0.15	5.1	2.9	0.031	1.8	0.016	0.087	0.0025	0.0002	0.00018	0.0086	0.0046	0.00002	0.00005	0.012	0.0000053	2.4	0.00013	0.00012	0.00053	0.021
		July		12	0.14	5.1	2.9	0.03	1.8	0.015	0.077	0.0025	0.0002	0.00018	0.0081	0.0046	0.00002	0.00005	0.011	0.0000053	2.3	0.00012	0.00012	0.00053	0.02
		August		13	0.15	5.1	2.9	0.031	1.8	0.015	0.076	0.0025	0.0002	0.00019	0.0089	0.0046	0.00002	0.00005	0.011	0.0000053	2.4	0.00012	0.00012	0.00053	0.021
		September		13	0.15	5.1	2.9	0.031	1.8	0.015	0.074	0.0025	0.0002	0.00019	0.0092	0.0046	0.00002	0.00005	0.011	0.0000053	2.4	0.00012	0.00012	0.00053	0.021
		October		12	0.15	5.1	2.9	0.031	1.8	0.014	0.071	0.0024	0.0002	0.00019	0.0091	0.0046	0.00002	0.00005	0.011	0.0000053	2.3	0.00012	0.00012	0.00053	0.02
		November		12	0.15	5.1	2.9	0.031	1.8	0.014	0.071	0.0024	0.0002	0.00019	0.0091	0.0046	0.00002	0.00005	0.011	0.0000053	2.3	0.00012	0.00012	0.00053	0.02
		December		12	0.15	5.1	2.9	0.031	1.8	0.014	0.071	0.0024	0.0002	0.00019	0.0091	0.0046	0.00002	0.00005	0.011	0.0000053	2.3	0.00012	0.00012	0.00053	0.02
		January	2040	12	0.15	5.1	2.9	0.031	1.8	0.014	0.071	0.0024	0.0002	0.00019	0.0091	0.0046	0.00002	0.00005	0.011	0.0000053	2.3	0.00012	0.00012	0.00053	0.02
		February		12	0.15	5.1	2.9	0.031	1.8	0.014	0.071	0.0024	0.0002	0.00019	0.0091	0.0046	0.00002	0.00005	0.011	0.0000053	2.3	0.00012	0.00012	0.00053	0.02
		March		12	0.15	5.1	2.9	0.031	1.8	0.014	0.071	0.0024	0.0002	0.00019	0.0091	0.0046	0.00002	0.00005	0.011	0.0000053	2.3	0.00012	0.00012	0.00053	0.02
		April		12	0.15	5.1	2.9	0.031	1.8	0.014	0.071	0.0024	0.0002	0.00019	0.0091	0.0046	0.00002	0.00005	0.011	0.0000053	2.3	0.00012	0.00012	0.00053	0.02
		May		12	0.15	5.1	2.9	0.031	1.8	0.014	0.071	0.0024	0.0002	0.00019	0.0091	0.0046	0.00002	0.00005	0.011	0.0000053	2.3	0.00012	0.00012	0.00053	0.02
		June		12	0.13	5.1	2.8	0.03	1.8	0.013	0.065	0.0024	0.0002	0.00018	0.0084	0.0046	0.00002	0.00005	0.011	0.0000053	2.3	0.00012	0.00012	0.00052	0.02
		July		12	0.12	5.0	2.8	0.03	1.8	0.012	0.057	0.0024	0.0002	0.00017	0.0079	0.0045	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00012	0.00052	0.02
		August		12	0.13	5.1	2.8	0.031	1.8	0.012	0.057	0.0024	0.0002	0.00018	0.0087	0.0046	0.00002	0.00005	0.011	0.0000053	2.3	0.00012	0.00012	0.00052	0.02
		September		12	0.14	5.1	2.8	0.031	1.8	0.012	0.055	0.0024	0.0002	0.00018	0.009	0.0046	0.00002	0.00005	0.011	0.0000053	2.3	0.00012	0.00012	0.00052	0.02
		October		12	0.13	5.1	2.8	0.031	1.8	0.012	0.053	0.0024	0.0002	0.00018	0.0089	0.0046	0.00002	0.00005	0.011	0.0000053	2.3	0.00012	0.00012	0.00052	0.02
		November		12	0.13	5.1	2.8	0.031	1.8	0.012	0.053	0.0024	0.0002	0.00018	0.0089	0.0046	0.00002	0.00005	0.011	0.0000053	2.3	0.00012	0.00012	0.00052	0.02
		December		12	0.13	5.1	2.8	0.031	1.8	0.012	0.053	0.0024	0.0002	0.00018	0.0089	0.0046	0.00002	0.00005	0.011	0.0000053	2.3	0.00012	0.00012	0.00052	0.02
		January	2041	12	0.13	5.1	2.8	0.031	1.8	0.012	0.053	0.0024	0.0002	0.00018	0.0089	0.0046	0.00002	0.00005	0.011	0.0000053	2.3	0.00012	0.00012	0.00052	0.02
		February		12	0.13</																				

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.0003		0.0008		0.015		0.007	
Constituent				Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
IVR Pit	Closure	January	2038	0.000066	0.0011	0.8	0.0043	0.0000058	0.00018	0.00093	0.63	0.000073	0.000011	0.73	0.016	0.000011	0.00011	0.000093	0.00058	0.0013
		February		0.000066	0.0011	0.8	0.0043	0.0000058	0.00018	0.00093	0.63	0.000073	0.000011	0.73	0.016	0.000011	0.00011	0.000093	0.00058	0.0013
		March		0.000066	0.0011	0.8	0.0043	0.0000058	0.00018	0.00093	0.63	0.000073	0.000011	0.73	0.016	0.000011	0.00011	0.000093	0.00058	0.0013
		April		0.000066	0.0011	0.8	0.0043	0.0000058	0.00018	0.00093	0.63	0.000073	0.000011	0.73	0.016	0.000011	0.00011	0.000093	0.00058	0.0013
		May		0.000066	0.0011	0.8	0.0043	0.0000058	0.00018	0.00093	0.63	0.000073	0.000011	0.73	0.016	0.000011	0.00011	0.000093	0.00058	0.0013
		June		0.000065	0.0011	0.79	0.0041	0.0000057	0.00017	0.0009	0.61	0.000071	0.000011	0.71	0.016	0.000011	0.00011	0.000088	0.00057	0.0013
		July		0.000064	0.0011	0.79	0.0038	0.0000056	0.00016	0.00087	0.6	0.000069	0.000011	0.69	0.016	0.000011	0.00011	0.000085	0.00057	0.0013
		August		0.000064	0.0011	0.79	0.0038	0.0000057	0.00017	0.00088	0.61	0.00007	0.000011	0.69	0.016	0.000011	0.00011	0.000089	0.00057	0.0013
		September		0.000064	0.0011	0.79	0.0037	0.0000057	0.00017	0.00087	0.62	0.00007	0.000011	0.69	0.016	0.000011	0.00011	0.00009	0.00058	0.0013
		October		0.000064	0.0011	0.79	0.0037	0.0000057	0.00017	0.00087	0.62	0.00007	0.000011	0.69	0.016	0.000011	0.00011	0.00009	0.00058	0.0013
		November		0.000064	0.0011	0.79	0.0037	0.0000057	0.00017	0.00087	0.62	0.00007	0.000011	0.69	0.016	0.000011	0.00011	0.00009	0.00058	0.0013
		December		0.000064	0.0011	0.79	0.0037	0.0000057	0.00017	0.00087	0.62	0.00007	0.000011	0.69	0.016	0.000011	0.00011	0.00009	0.00058	0.0013
		January	2039	0.000064	0.0011	0.79	0.0037	0.0000057	0.00017	0.00087	0.62	0.00007	0.000011	0.69	0.016	0.000011	0.00011	0.00009	0.00058	0.0013
		February		0.000064	0.0011	0.79	0.0037	0.0000057	0.00017	0.00087	0.62	0.00007	0.000011	0.69	0.016	0.000011	0.00011	0.00009	0.00058	0.0013
		March		0.000064	0.0011	0.79	0.0037	0.0000057	0.00017	0.00087	0.62	0.00007	0.000011	0.69	0.016	0.000011	0.00011	0.00009	0.00058	0.0013
		April		0.000064	0.0011	0.79	0.0037	0.0000057	0.00017	0.00087	0.62	0.00007	0.000011	0.69	0.016	0.000011	0.00011	0.00009	0.00058	0.0013
		May		0.000064	0.0011	0.79	0.0037	0.0000057	0.00017	0.00087	0.62	0.00007	0.000011	0.69	0.016	0.000011	0.00011	0.00009	0.00058	0.0013
		June		0.000063	0.0011	0.79	0.0035	0.0000056	0.00016	0.00085	0.6	0.000068	0.000011	0.67	0.016	0.000011	0.00011	0.000085	0.00057	0.0013
		July		0.000062	0.0011	0.78	0.0032	0.0000056	0.00015	0.00082	0.58	0.000066	0.00001	0.66	0.015	0.000011	0.00011	0.000082	0.00056	0.0012
		August		0.000062	0.0011	0.79	0.0033	0.0000056	0.00016	0.00083	0.6	0.000067	0.000011	0.66	0.015	0.000011	0.00011	0.000086	0.00057	0.0013
		September		0.000062	0.0011	0.79	0.0032	0.0000057	0.00016	0.00083	0.61	0.000068	0.000011	0.66	0.015	0.000011	0.00011	0.000088	0.00057	0.0013
		October		0.000062	0.0011	0.79	0.0032	0.0000057	0.00016	0.00082	0.6	0.000067	0.000011	0.66	0.015	0.000011	0.00011	0.000087	0.00057	0.0013
		November		0.000062	0.0011	0.79	0.0032	0.0000057	0.00016	0.00082	0.6	0.000067	0.000011	0.66	0.015	0.000011	0.00011	0.000087	0.00057	0.0013
		December		0.000062	0.0011	0.79	0.0032	0.0000057	0.00016	0.00082	0.6	0.000067	0.000011	0.66	0.015	0.000011	0.00011	0.000087	0.00057	0.0013
		January	2040	0.000062	0.0011	0.79	0.0032	0.0000057	0.00016	0.00082	0.6	0.000067	0.000011	0.66	0.015	0.000011	0.00011	0.000087	0.00057	0.0013
		February		0.000062	0.0011	0.79	0.0032	0.0000057	0.00016	0.00082	0.6	0.000067	0.000011	0.66	0.015	0.000011	0.00011	0.000087	0.00057	0.0013
		March		0.000062	0.0011	0.79	0.0032	0.0000057	0.00016	0.00082	0.6	0.000067	0.000011	0.66	0.015	0.000011	0.00011	0.000087	0.00057	0.0013
		April		0.000062	0.0011	0.79	0.0032	0.0000057	0.00016	0.00082	0.6	0.000067	0.000011	0.66	0.015	0.000011	0.00011	0.000087	0.00057	0.0013
		May		0.000062	0.0011	0.79	0.0032	0.0000057	0.00016	0.00082	0.6	0.000067	0.000011	0.66	0.015	0.000011	0.00011	0.000087	0.00057	0.0013
		June		0.000061	0.0011	0.78	0.003	0.0000056	0.00015	0.0008	0.59	0.000066	0.00001	0.65	0.015	0.000011	0.00011	0.000083	0.00056	0.0012
		July		0.000061	0.0011	0.77	0.0029	0.0000055	0.00014	0.00079	0.58	0.000064	0.00001	0.63	0.015	0.000011	0.00011	0.00008	0.00056	0.0012
		August		0.000061	0.0011	0.78	0.0029	0.0000056	0.00015	0.00079	0.59	0.000065	0.00001	0.64	0.015	0.000011	0.00011	0.000084	0.00057	0.0012
		September		0.000061	0.0011	0.78	0.0029	0.0000056	0.00015	0.00079	0.6	0.000066	0.00001	0.64	0.015	0.000011	0.00011	0.000086	0.00057	0.0012
		October		0.000061	0.0011	0.78	0.0028	0.0000056	0.00015	0.00079	0.59	0.000065	0.00001	0.63	0.015	0.000011	0.00011	0.000085	0.00057	0.0012
		November		0.000061	0.0011	0.78	0.0028	0.0000056	0.00015	0.00079	0.59	0.000065	0.00001	0.63	0.015	0.000011	0.00011	0.000085	0.00057	0.0012
		December		0.000061	0.0011	0.78	0.0028	0.0000056	0.00015	0.00079	0.59	0.000065	0.00001	0.63	0.015	0.000011	0.00011	0.000085	0.00057	0.0012
		January	2041	0.000061	0.0011	0.78	0.0028	0.0000056	0.00015	0.00079	0.59	0.000065	0.00001	0.63	0.015	0.000011	0.00011	0.000085	0.00057	0.0012
		February		0.000061	0.0011	0.78	0.0028	0.0000056	0.00015	0.00079	0.59	0.000065	0.00001	0.63	0.015	0.000011	0.00011	0.000085	0.00057	0.0012
		March		0.000061	0.0011	0.78	0.0028	0.0000056	0.00015	0.00079	0.59	0.000065	0.00001	0.63	0.015	0.000011	0.00011	0.000085	0.00057	0.0012
		April		0.000061	0.0011	0.78	0.0028	0.0000056	0.00015	0.00079	0.59	0.000065	0.00001	0.63	0.015	0.000011	0.00011	0.000085	0.00057	0.0012
		May		0.000061	0.0011	0.78	0.0028	0.0000056	0.00015	0.00079	0.59	0.000065	0.00001	0.63	0.015	0.000011	0.00011	0.000085	0.00057	0.0012
		June		0.00006	0.0011	0.77	0.0027	0.0000056	0.00014	0.00077	0.58	0.000064	0.00001	0.62	0.015	0.000011	0.00011	0.00008	0.00056	0.0012
		July		0.00006	0.0011	0.77	0.0026	0.0000055	0.00014	0.00076	0.57	0.000063	0.00001	0.62	0.015	0.00001	0.00011	0.000078	0.00056	0.0012
		August		0.00006	0.0011	0.78	0.0026	0.0000056	0.00015	0.00076	0.58	0.000064	0.00001	0.62	0.015	0.000011	0.00011	0.000082	0.00056	0.0012
		September		0.00006	0.0011	0.78	0.0026	0.0000056	0.00015	0.00076	0.59	0.000064	0.00001	0.62	0.015	0.000011	0.00011	0.000083	0.00057	0.0012
		October		0.00006	0.0011	0.78	0.0026	0.0000056	0.00015	0.00076	0.59	0.000064	0.00001	0.62	0.015	0.000011	0.00011	0.000083	0.00057	0.0012
		November		0.00006	0.0011	0.78	0.0026	0.0000056	0.00015	0.00076	0.59	0.000064	0.00001	0.62	0.015	0.000011	0.00011	0.000083	0.00057	0.0012
		December		0.00006	0.0011	0.78	0.0026	0.0000056	0.00015	0.00076	0.59	0.000064	0.00001							

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16			0.3	0.5		0.1						0.002		0.02		0.1	1.0
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002		0.3	
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	As ⁴	Sb	Ba	Be	Bi	B	Cd ⁵	Ca	Cr ⁵	Co	Cu ⁶	Fe			
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
IVR Pit	Closure, fully flooded pit	January	2043	12	0.12	5.0	2.7	0.03	1.7	0.0094	0.032	0.0023	0.0002	0.00017	0.0084	0.0045	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00052	0.02		
		February		12	0.12	5.0	2.7	0.03	1.7	0.0094	0.032	0.0023	0.0002	0.00017	0.0084	0.0045	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00052	0.02		
		March		12	0.12	5.0	2.7	0.03	1.7	0.0094	0.032	0.0023	0.0002	0.00017	0.0084	0.0045	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00052	0.02		
		April		12	0.12	5.0	2.7	0.03	1.7	0.0094	0.032	0.0023	0.0002	0.00017	0.0084	0.0045	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00052	0.02		
		May		12	0.12	5.0	2.7	0.03	1.7	0.0094	0.032	0.0023	0.0002	0.00017	0.0085	0.0045	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00052	0.02		
		June		12	0.12	5.0	2.7	0.03	1.7	0.0093	0.032	0.0023	0.0002	0.00017	0.0084	0.0045	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00052	0.02		
		July		12	0.12	5.0	2.7	0.03	1.7	0.0093	0.032	0.0023	0.0002	0.00017	0.0083	0.0045	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00052	0.02		
		August		12	0.12	5.0	2.7	0.03	1.7	0.0093	0.032	0.0023	0.0002	0.00017	0.0083	0.0045	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00052	0.02		
		September		12	0.12	5.0	2.7	0.03	1.7	0.0093	0.032	0.0023	0.0002	0.00017	0.0083	0.0045	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00052	0.02		
		October		12	0.12	5.0	2.7	0.03	1.7	0.0093	0.032	0.0023	0.0002	0.00017	0.0083	0.0045	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00052	0.021		
		November		12	0.12	5.0	2.7	0.03	1.7	0.0093	0.032	0.0023	0.0002	0.00017	0.0083	0.0045	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00052	0.021		
		December		12	0.12	5.0	2.7	0.03	1.7	0.0093	0.032	0.0023	0.0002	0.00017	0.0083	0.0045	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00052	0.021		
		January	2044	12	0.12	5.0	2.7	0.03	1.7	0.0093	0.032	0.0023	0.0002	0.00017	0.0083	0.0045	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00052	0.021		
		February		12	0.12	5.0	2.7	0.03	1.7	0.0093	0.032	0.0023	0.0002	0.00017	0.0083	0.0045	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00052	0.021		
		March		12	0.12	5.0	2.7	0.03	1.7	0.0093	0.032	0.0023	0.0002	0.00017	0.0083	0.0045	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00052	0.021		
		April		12	0.12	5.0	2.7	0.03	1.7	0.0093	0.032	0.0023	0.0002	0.00017	0.0083	0.0045	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00052	0.021		
		May		12	0.12	5.0	2.7	0.03	1.7	0.0093	0.032	0.0023	0.0002	0.00017	0.0083	0.0045	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00052	0.021		
		June		12	0.12	5.0	2.7	0.03	1.7	0.0093	0.031	0.0023	0.0002	0.00017	0.0083	0.0045	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00052	0.021		
		July		12	0.12	5.0	2.7	0.03	1.7	0.0092	0.031	0.0023	0.0002	0.00017	0.0082	0.0045	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00052	0.021		
		August		12	0.12	5.0	2.7	0.031	1.7	0.0092	0.031	0.0023	0.0002	0.00017	0.0082	0.0046	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00052	0.021		
		September		12	0.12	5.0	2.7	0.031	1.7	0.0092	0.031	0.0023	0.0002	0.00017	0.0082	0.0046	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00052	0.021		
		October		12	0.12	5.0	2.7	0.031	1.7	0.0092	0.031	0.0023	0.0002	0.00017	0.0082	0.0046	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00053	0.021		
		November		12	0.12	5.0	2.7	0.031	1.7	0.0092	0.031	0.0023	0.0002	0.00017	0.0082	0.0046	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00053	0.021		
		December		12	0.12	5.0	2.7	0.031	1.7	0.0092	0.031	0.0023	0.0002	0.00017	0.0082	0.0046	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00053	0.021		
		January	2045	12	0.12	5.0	2.7	0.031	1.7	0.0092	0.031	0.0023	0.0002	0.00017	0.0082	0.0046	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00053	0.021		
		February		12	0.12	5.0	2.7	0.031	1.7	0.0092	0.031	0.0023	0.0002	0.00017	0.0082	0.0046	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00053	0.021		
		March		12	0.12	5.0	2.7	0.031	1.7	0.0092	0.031	0.0023	0.0002	0.00017	0.0082	0.0046	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00053	0.021		
		April		12	0.12	5.0	2.7	0.031	1.7	0.0092	0.031	0.0023	0.0002	0.00017	0.0082	0.0046	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00053	0.021		
		May		12	0.12	5.0	2.7	0.031	1.7	0.0092	0.031	0.0023	0.0002	0.00017	0.0082	0.0046	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00053	0.021		
		June		12	0.12	5.0	2.7	0.031	1.7	0.0092	0.031	0.0023	0.0002	0.00017	0.0082	0.0046	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00053	0.022		
		July		12	0.12	5.0	2.7	0.031	1.7	0.0091	0.031	0.0023	0.0002	0.00017	0.0081	0.0046	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00053	0.022		
		August		12	0.12	5.0	2.7	0.031	1.7	0.0092	0.031	0.0023	0.0002	0.00017	0.0081	0.0046	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00053	0.022		
		September		12	0.12	5.0	2.7	0.031	1.7	0.0091	0.031	0.0023	0.0002	0.00017	0.0081	0.0046	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00053	0.022		
		October		12	0.12	5.0	2.7	0.031	1.7	0.0091	0.031	0.0023	0.0002	0.00017	0.0081	0.0046	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00053	0.022		
		November		12	0.12	5.0	2.7	0.031	1.7	0.0091	0.031	0.0023	0.0002														

[https://golderassociates.sharepoint.com/sites/102627/Technical Work/Reporting/Water Quality Report/Appendix C/14May2019/3. WTP: IVRP: 14May2019](https://golderassociates.sharepoint.com/sites/102627/Technical%20Work/Reporting/Water%20Quality%20Report/Appendix%20C/14May2019/3.WTP%20IVRP%2014May2019)

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0	
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3	
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁵	Co	Cu ⁶	Fe	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
IVR Pit	Closure, fully flooded pit	January	2049	12	0.13	5.0	2.7	0.031	1.7	0.0089	0.029	0.0023	0.0002	0.00017	0.0078	0.0046	0.00002	0.00005	0.011	0.0000052	2.2	0.00013	0.00011	0.00054	0.024	
		February		12	0.13	5.0	2.7	0.031	1.7	0.0089	0.029	0.0023	0.0002	0.00017	0.0078	0.0046	0.00002	0.00005	0.011	0.0000052	2.2	0.00013	0.00011	0.00054	0.024	
		March		12	0.13	5.0	2.7	0.031	1.7	0.0089	0.029	0.0023	0.0002	0.00017	0.0078	0.0046	0.00002	0.00005	0.011	0.0000052	2.2	0.00013	0.00011	0.00054	0.024	
		April		12	0.13	5.0	2.7	0.031	1.7	0.0089	0.029	0.0023	0.0002	0.00017	0.0078	0.0046	0.00002	0.00005	0.011	0.0000052	2.2	0.00013	0.00011	0.00054	0.024	
		May		12	0.13	5.0	2.7	0.031	1.7	0.0089	0.029	0.0023	0.0002	0.00017	0.0078	0.0046	0.00002	0.00005	0.011	0.0000052	2.2	0.00013	0.00011	0.00054	0.024	
		June		12	0.12	5.0	2.7	0.031	1.7	0.0089	0.029	0.0023	0.0002	0.00017	0.0078	0.0046	0.00002	0.00005	0.011	0.0000052	2.2	0.00013	0.00011	0.00054	0.025	
		July		12	0.12	5.0	2.7	0.031	1.7	0.0089	0.029	0.0023	0.0002	0.00017	0.0077	0.0046	0.00002	0.00005	0.011	0.0000052	2.2	0.00013	0.00011	0.00054	0.025	
		August		12	0.13	5.0	2.7	0.031	1.7	0.0089	0.029	0.0023	0.0002	0.00017	0.0077	0.0046	0.00002	0.00005	0.011	0.0000052	2.2	0.00013	0.00011	0.00054	0.025	
		September		12	0.13	5.0	2.7	0.031	1.7	0.0089	0.029	0.0023	0.0002	0.00017	0.0077	0.0046	0.00002	0.00005	0.011	0.0000052	2.2	0.00013	0.00011	0.00054	0.025	
		October		12	0.13	5.0	2.7	0.031	1.7	0.0088	0.029	0.0023	0.0002	0.00017	0.0077	0.0046	0.00002	0.00005	0.011	0.0000052	2.2	0.00013	0.00011	0.00054	0.025	
		November		12	0.13	5.0	2.7	0.031	1.7	0.0088	0.029	0.0023	0.0002	0.00017	0.0077	0.0046	0.00002	0.00005	0.011	0.0000052	2.2	0.00013	0.00011	0.00054	0.025	
		December		12	0.13	5.0	2.7	0.031	1.7	0.0088	0.029	0.0023	0.0002	0.00017	0.0077	0.0046	0.00002	0.00005	0.011	0.0000052	2.2	0.00013	0.00011	0.00054	0.025	
		January	≥2050	12	0.13	5.0	2.7	0.031	1.7	0.0088	0.029	0.0023	0.0002	0.00017	0.0077	0.0046	0.00002	0.00005	0.011	0.0000052	2.2	0.00013	0.00011	0.00054	0.025	
		February		12	0.13	5.0	2.7	0.031	1.7	0.0088	0.029	0.0023	0.0002	0.00017	0.0077	0.0046	0.00002	0.00005	0.011	0.0000052	2.2	0.00013	0.00011	0.00054	0.025	
		March		12	0.13	5.0	2.7	0.031	1.7	0.0088	0.029	0.0023	0.0002	0.00017	0.0077	0.0046	0.00002	0.00005	0.011	0.0000052	2.2	0.00013	0.00011	0.00054	0.025	
		April		12	0.13	5.0	2.7	0.031	1.7	0.0088	0.029	0.0023	0.0002	0.00017	0.0077	0.0046	0.00002	0.00005	0.011	0.0000052	2.2	0.00013	0.00011	0.00054	0.025	
		May		12	0.13	5.0	2.7	0.031	1.7	0.0088	0.029	0.0023	0.0002	0.00017	0.0077	0.0046	0.00002	0.00005	0.011	0.0000052	2.2	0.00013	0.00011	0.00054	0.025	
		June		12	0.13	5.0	2.7	0.031	1.7	0.0088	0.029	0.0023	0.0002	0.00017	0.0077	0.0046	0.00002	0.00005	0.011	0.0000052	2.2	0.00013	0.00011	0.00054	0.025	
		July		12	0.13	5.0	2.7	0.031	1.7	0.0088	0.029	0.0023	0.0002	0.00017	0.0076	0.0046	0.00002	0.00005	0.011	0.0000052	2.2	0.00013	0.00011	0.00054	0.025	
		August		12	0.13	5.0	2.7	0.031	1.7	0.0088	0.029	0.0023	0.0002	0.00017	0.0076	0.0046	0.00002	0.00005	0.011	0.0000052	2.2	0.00013	0.00011	0.00055	0.026	
		September		12	0.13	5.1	2.7	0.031	1.7	0.0088	0.028	0.0023	0.0002	0.00017	0.0076	0.0046	0.00002	0.00005	0.011	0.0000052	2.2	0.00013	0.00011	0.00055	0.026	
		October		12	0.13	5.1	2.7	0.031	1.7	0.0088	0.028	0.0023	0.0002	0.00017	0.0076	0.0046	0.00002	0.00005	0.011	0.0000052	2.2	0.00013	0.00011	0.00055	0.026	
		November		12	0.13	5.1	2.7	0.031	1.7	0.0088	0.028	0.0023	0.0002	0.00017	0.0076	0.0046	0.00002	0.00005	0.011	0.0000052	2.2	0.00013	0.00011	0.00055	0.026	
		December		12	0.13	5.1	2.7	0.031	1.7	0.0088	0.028	0.0023	0.0002	0.00017	0.0076	0.0046	0.00002	0.00005	0.011	0.0000052	2.2	0.00013	0.00011	0.00055	0.026	
		MINIMUM			12	0.11	5.0	2.7	0.03	1.7	0.0088	0.028	0.0023	0.0002	0.00017	0.0076	0.0045	0.00002	0.00005	0.011	0.0000052	2.2	0.00011	0.00011	0.00051	0.019
		MAXIMUM			12	0.13	5.1	2.8	0.031	1.8	0.01	0.04	0.0023	0.0002	0.00018	0.0088	0.0046	0.00002	0.00005	0.011	0.0000052	2.3	0.00013	0.00011	0.00055	0.026
		AVERAGE			12	0.12	5.0	2.7	0.031	1.7	0.0092	0.031	0.0023	0.0002	0.00017	0.0081	0.0046	0.00002	0.00005	0.011	0.0000052	2.3	0.00012	0.00011	0.00053	0.022
		MAXIMUM (total)			12	0.13	5.1	2.8	0.034	1.8	0.01	0.04	0.014	0.33	0.00019	0.012	0.0079	0.000027	0.000053	0.011	0.0000069	2.6	0.0083	0.00059	0.0011	0.72
		AVERAGE (total)			12	0.12	5.0	2.7	0.034	1.8	0.0092	0.031	0.014	0.33	0.00019	0.012	0.0079	0.000027	0.000053	0.011	0.0000069	2.5	0.0083	0.00059	0.001	0.72

Notes:

¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells

²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type

³CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed

⁴CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.

⁵CEQG Freshwater aquatic life criteria for chromium depends on the valence of chromium ion. In the above table, the Cr(VI) criterion of 0.001 mg/L is shown.

⁶CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.

⁷ The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.0003			0.0008		0.015	0.007	
Constituent				Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
IVR Pit	Closure, fully flooded pit	January	2049	0.000062	0.0011	0.79	0.0025	0.0000056	0.00015	0.00078	0.58	0.000062	0.00001	0.62	0.015	0.000011	0.00011	0.000088	0.00056	0.0012
		February		0.000062	0.0011	0.79	0.0025	0.0000056	0.00015	0.00078	0.58	0.000062	0.00001	0.62	0.015	0.000011	0.00011	0.000088	0.00056	0.0012
		March		0.000062	0.0011	0.79	0.0025	0.0000056	0.00015	0.00078	0.58	0.000062	0.00001	0.62	0.015	0.000011	0.00011	0.000088	0.00056	0.0012
		April		0.000062	0.0011	0.79	0.0025	0.0000056	0.00015	0.00078	0.58	0.000062	0.00001	0.62	0.015	0.000011	0.00011	0.000088	0.00056	0.0012
		May		0.000062	0.0011	0.79	0.0025	0.0000056	0.00015	0.00078	0.58	0.000062	0.00001	0.62	0.015	0.000011	0.00011	0.000088	0.00056	0.0012
		June		0.000062	0.0011	0.79	0.0024	0.0000056	0.00015	0.00078	0.58	0.000062	0.00001	0.62	0.015	0.000011	0.00011	0.000088	0.00056	0.0012
		July		0.000062	0.0011	0.79	0.0024	0.0000056	0.00015	0.00078	0.58	0.000062	0.00001	0.62	0.015	0.000011	0.00011	0.000088	0.00056	0.0012
		August		0.000063	0.0011	0.79	0.0024	0.0000056	0.00015	0.00078	0.58	0.000062	0.00001	0.62	0.015	0.000011	0.00011	0.000089	0.00056	0.0012
		September		0.000063	0.0011	0.79	0.0025	0.0000056	0.00015	0.00078	0.58	0.000062	0.00001	0.62	0.015	0.000011	0.00011	0.000089	0.00056	0.0012
		October		0.000063	0.0011	0.79	0.0025	0.0000056	0.00015	0.00078	0.58	0.000062	0.00001	0.62	0.015	0.000011	0.00011	0.000089	0.00056	0.0012
		November		0.000063	0.0011	0.79	0.0025	0.0000056	0.00015	0.00078	0.58	0.000062	0.00001	0.62	0.015	0.000011	0.00011	0.000089	0.00056	0.0012
		December		0.000063	0.0011	0.79	0.0025	0.0000056	0.00015	0.00078	0.58	0.000062	0.00001	0.62	0.015	0.000011	0.00011	0.000089	0.00056	0.0012
		January	≥2050	0.000063	0.0011	0.79	0.0025	0.0000056	0.00015	0.00078	0.58	0.000062	0.00001	0.62	0.015	0.000011	0.00011	0.000089	0.00056	0.0012
		February		0.000063	0.0011	0.79	0.0025	0.0000056	0.00015	0.00078	0.58	0.000062	0.00001	0.62	0.015	0.000011	0.00011	0.000089	0.00056	0.0012
		March		0.000063	0.0011	0.79	0.0025	0.0000056	0.00015	0.00078	0.58	0.000062	0.00001	0.62	0.015	0.000011	0.00011	0.000089	0.00056	0.0012
		April		0.000063	0.0011	0.79	0.0025	0.0000056	0.00015	0.00078	0.58	0.000062	0.00001	0.62	0.015	0.000011	0.00011	0.000089	0.00056	0.0012
		May		0.000063	0.0011	0.79	0.0025	0.0000056	0.00015	0.00078	0.58	0.000062	0.00001	0.62	0.015	0.000011	0.00011	0.000089	0.00056	0.0012
		June		0.000063	0.0011	0.79	0.0024	0.0000056	0.00015	0.00078	0.58	0.000062	0.00001	0.62	0.015	0.000011	0.00011	0.000089	0.00056	0.0012
		July		0.000063	0.0011	0.79	0.0024	0.0000056	0.00015	0.00078	0.58	0.000062	0.00001	0.62	0.015	0.000011	0.00011	0.000089	0.00056	0.0012
		August		0.000063	0.0011	0.79	0.0025	0.0000056	0.00015	0.00078	0.58	0.000062	0.00001	0.62	0.015	0.000011	0.00011	0.00009	0.00056	0.0012
		September		0.000063	0.0011	0.79	0.0025	0.0000056	0.00015	0.00078	0.58	0.000062	0.00001	0.62	0.015	0.000011	0.00011	0.00009	0.00056	0.0012
		October		0.000063	0.0011	0.79	0.0025	0.0000056	0.00015	0.00078	0.58	0.000062	0.00001	0.62	0.015	0.000011	0.00011	0.00009	0.00056	0.0012
		November		0.000063	0.0011	0.79	0.0025	0.0000056	0.00015	0.00078	0.58	0.000062	0.00001	0.62	0.015	0.000011	0.00011	0.00009	0.00056	0.0012
		December		0.000063	0.0011	0.79	0.0025	0.0000056	0.00015	0.00078	0.58	0.000062	0.00001	0.62	0.015	0.000011	0.00011	0.00009	0.00056	0.0012
		MINIMUM		0.000059	0.0011	0.77	0.0024	0.0000055	0.00013	0.00074	0.56	0.000062	0.00001	0.6	0.015	0.00001	0.00011	0.000076	0.00056	0.0012
		MAXIMUM		0.000063	0.0011	0.79	0.0026	0.0000056	0.00015	0.00078	0.59	0.000064	0.00001	0.62	0.015	0.000011	0.00011	0.00009	0.00057	0.0012
		AVERAGE		0.000061	0.0011	0.78	0.0024	0.0000056	0.00015	0.00076	0.58	0.000062	0.00001	0.61	0.015	0.000011	0.00011	0.000085	0.00056	0.0012
		MAXIMUM (total)		0.00019	0.0014	1.2	0.014	0.0000057	0.00017	0.0044	0.76	0.000068	0.000031	0.62	0.016	0.000016	0.00011	0.00011	0.0015	0.002
		AVERAGE (total)		0.00019	0.0014	1.2	0.013	0.0000057	0.00017	0.0044	0.75	0.000067	0.000031	0.62	0.016	0.000016	0.00011	0.0001	0.0014	0.002

Notes:

¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells

²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type

³ CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed

⁴ CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.

⁵ CEQG Freshwater aquatic life criteria for chromium depends on the valence of chromium ion. In the above table, the Cr(VI) criterion of 0.001 mg/L is shown.

⁶ CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.

⁷ The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1				0.002		0.02		0.1	1.0	
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025			1.5	0.00004		0.001		0.002	0.3	
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁵	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁷	Co	Cu ⁸	Fe
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Attenuation Pond	Construction and Operations	January	2018	11	0	4.5	2.6	0.026	1.4	0.0061	0.0072	0.0023	0.0001	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.015
		February		11	0	4.5	2.6	0.026	1.4	0.0061	0.011	0.0027	0.0001	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.015
		March		11	0	4.5	2.6	0.026	1.4	0.0061	0.015	0.0031	0.0001	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.015
		April		11	0	4.5	2.6	0.026	1.4	0.0061	0.019	0.0034	0.0001	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.015
		May		11	0	4.5	2.6	0.026	1.4	0.0061	0.023	0.0038	0.0001	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.015
		June		11	0	4.5	2.6	0.026	1.4	0.006	0.019	0.0035	0.0001	0.000099	0.00015	0.0041	0.00002	0.00005	0.0099	0.000005	2.1	0.00011	0.000099	0.00049	0.019
		July		10	0	4.6	2.5	0.027	1.4	0.0059	0.017	0.0033	0.0001	0.000099	0.00016	0.0042	0.00002	0.000049	0.0099	0.0000049	2.0	0.00012	0.000099	0.00051	0.022
		August		11	0	4.6	2.6	0.028	1.4	0.006	0.021	0.0037	0.0001	0.0001	0.00016	0.0042	0.00002	0.00005	0.01	0.000005	2.1	0.00012	0.0001	0.00052	0.024
		September		11	0	4.7	2.6	0.029	1.4	0.006	0.024	0.0041	0.0001	0.0001	0.00017	0.0043	0.00002	0.00005	0.01	0.000005	2.1	0.00013	0.0001	0.00054	0.027
		October		11	0	4.8	2.6	0.029	1.4	0.006	0.028	0.0045	0.0001	0.0001	0.00018	0.0043	0.00002	0.00005	0.01	0.0000051	2.1	0.00014	0.00011	0.00056	0.03
		November		11	0	4.8	2.6	0.029	1.4	0.006	0.031	0.0049	0.0001	0.0001	0.00018	0.0043	0.00002	0.00005	0.01	0.0000051	2.1	0.00014	0.00011	0.00056	0.03
		December		11	0	4.8	2.6	0.029	1.4	0.006	0.035	0.0053	0.0001	0.0001	0.00018	0.0043	0.00002	0.00005	0.01	0.0000051	2.1	0.00014	0.00011	0.00056	0.03
		January	2019	11	0	4.8	2.6	0.029	1.4	0.006	0.039	0.0057	0.0001	0.0001	0.00018	0.0043	0.00002	0.00005	0.01	0.0000051	2.1	0.00014	0.00011	0.00056	0.03
		February		11	0	4.8	2.6	0.029	1.4	0.006	0.043	0.0061	0.0001	0.0001	0.00018	0.0043	0.00002	0.00005	0.01	0.0000051	2.1	0.00014	0.00011	0.00055	0.03
		March		15	0	5.5	4.4	0.032	1.7	0.0084	0.048	0.0079	0.0001	0.00011	0.00021	0.0053	0.000021	0.000051	0.014	0.000006	2.6	0.00015	0.00012	0.00059	0.03
		April		25	0	7.4	9.4	0.038	2.6	0.015	0.056	0.012	0.0001	0.00011	0.00026	0.0076	0.000022	0.000051	0.022	0.0000081	4.0	0.00017	0.00015	0.00064	0.03
		May		27	0	7.7	10	0.039	2.8	0.016	0.066	0.014	0.0001	0.00011	0.00027	0.008	0.000022	0.00005	0.024	0.0000085	4.2	0.00017	0.00015	0.00064	0.03
		June		67	1.1	16	21	0.079	7.4	0.072	2.3	0.024	0.0001	0.00044	0.015	0.015	0.000027	0.000043	0.076	0.000015	7.9	0.00071	0.00049	0.0014	0.15
		July		345	15	87	107	0.41	56	0.17	4.6	0.12	0.0001	0.0044	0.19	0.083	0.000098	0.000093	0.54	0.000081	45	0.0047	0.0039	0.0077	0.3
		August		352	14	92	109	0.41	56	0.17	4.5	0.12	0.0001	0.0045	0.2	0.084	0.0001	0.000093	0.6	0.000083	45	0.0053	0.0039	0.008	0.3
		September		198	4.5	48	67	0.21	25	0.13	3.9	0.07	0.0001	0.0018	0.079	0.046	0.000058	0.000063	0.28	0.000045	24	0.0024	0.0017	0.0039	0.3
		October		319	0.73	64	136	0.23	29	0.21	5.0	0.12	0.0001	0.00074	0.031	0.071	0.000067	0.000075	0.33	0.000069	41	0.0016	0.0013	0.0032	0.2
		November		395	0.22	75	176	0.27	34	0.24	5.4	0.15	0.0001	0.00043	0.014	0.088	0.000077	0.000084	0.35	0.000085	51	0.0012	0.0014	0.0032	0.1
		December		412	0.13	77	185	0.28	35	0.25	5.4	0.16	0.0001	0.00035	0.0088	0.092	0.000079	0.000086	0.36	0.000089	54	0.0011	0.0014	0.0031	0.077
		January	2020	410	0.083	76	183	0.28	34	0.24	5.9	0.16	0.0001	0.00031	0.0066	0.091	0.000078	0.000086	0.35	0.000088	53	0.00099	0.0013	0.0031	0.065
		February		391	0.065	72	173	0.26	32	0.24	6.5	0.16	0.0001	0.00028	0.0055	0.086	0.000075	0.000084	0.33	0.000083	50	0.00092	0.0013	0.0029	0.058
		March		375	0.051	68	164	0.25	31	0.23	6.9	0.15	0.0001	0.00026	0.0047	0.082	0.000072	0.000082	0.31	0.000079	48	0.00086	0.0012	0.0027	0.053
		April		362	0.04	66	157	0.24	30	0.23	7.2	0.15	0.0001	0.00025	0.0041	0.079	0.00007	0.000081	0.29	0.000076	46	0.00082	0.0011	0.0026	0.049
		May		352	0.032	64	152	0.23	29	0.23	7.4	0.15	0.0001	0.00024	0.0035	0.076	0.000068	0.00008	0.28	0.000073	44	0.00078	0.0011	0.0025	0.045
		June		158	0.93	30	57	0.12	15	0.16	5.8	0.059	0.0001	0.00063	0.031	0.033	0.000036	0.000046	0.16	0.000032	18	0.00089	0.00077	0.0018	0.13
		July		230	8.0	69	46	0.31	42	0.19	7.0	0.08	0.0001	0.0047	0.27	0.056	0.000074	0.000072	0.5	0.000057	26	0.005	0.0034	0.0069	0.29
		August		251	8.2	78	50	0.33	46	0.19	7.1	0.083	0.0001	0.0053	0.32	0.06	0.000082	0.000077	0.58	0.000061	28	0.0059	0.0036	0.0076	0.3
		September		140	2.9	36	30	0.15	20	0.18	6.8	0.042	0.0001	0.0022	0.13	0.03	0.000043	0.000051	0.25	0.00003	14	0.0025	0.0015	0.0033	0.3
		October		218	0.64	44	78	0.15	20	0.22	7.8	0.086	0.0001	0.00095	0.053	0.045	0.000049	0.000061	0.24	0.000044	25	0.0015	0.001	0.0024	0.2
		November		290	0.1	52	119	0.19	24	0.23	8.0	0.12	0.0001	0.00033	0.011	0.061	0.000058	0.000073	0.24	0.000059	35	0.00079	0.00094	0.0022	0.066
		December		297	0.019	53	124	0.19	24	0.22	8.0	0.14	0.0001	0.00021	0.0033	0.063	0.000059	0.000074	0.23	0.000061	36	0.00065	0.00091	0.0021	0.039
		January	2021	255	0.0036	45	103	0.16	20	0.21	8.1	0.15	0.0001	0.00018	0.0017	0.053	0.000052	0.00007	0.19	0.000051	31	0.00054	0.00077		

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05					0.004		0.25								0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.001					0.000026	0.073	0.025		0.001	0.00025		0.0008		0.015	0.007	
Constituent				Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Attenuation Pond	Construction and Operations	January	2018	0.000054	0.001	0.72	0.0015	0.000005	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000031	0.0005	0.0011
		February		0.000054	0.001	0.72	0.0015	0.000005	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000031	0.0005	0.0011
		March		0.000054	0.001	0.72	0.0015	0.000005	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000031	0.0005	0.0011
		April		0.000054	0.001	0.72	0.0015	0.000005	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000031	0.0005	0.0011
		May		0.000054	0.001	0.72	0.0015	0.000005	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000031	0.0005	0.0011
		June		0.000056	0.00099	0.72	0.0016	0.000005	0.00005	0.00065	0.4	0.00005	0.0000099	0.55	0.014	0.0000099	0.000099	0.000034	0.0005	0.0011
		July		0.000058	0.00099	0.73	0.0016	0.000005	0.00005	0.00067	0.4	0.00005	0.0000099	0.57	0.014	0.0000099	0.000099	0.000038	0.00049	0.0011
		August		0.00006	0.001	0.74	0.0017	0.000005	0.000051	0.00068	0.4	0.00005	0.00001	0.58	0.014	0.000010	0.0001	0.000039	0.0005	0.0011
		September		0.000063	0.001	0.75	0.0017	0.0000051	0.000052	0.00071	0.41	0.000051	0.00001	0.62	0.014	0.00001	0.0001	0.000043	0.00051	0.0011
		October		0.000065	0.001	0.75	0.0018	0.0000051	0.000053	0.00072	0.41	0.000051	0.00001	0.64	0.014	0.00001	0.0001	0.000045	0.00051	0.0011
		November		0.000065	0.001	0.75	0.0018	0.0000051	0.000053	0.00072	0.41	0.000051	0.00001	0.64	0.014	0.00001	0.0001	0.000045	0.00051	0.0011
		December		0.000065	0.001	0.75	0.0018	0.0000051	0.000053	0.00072	0.41	0.000051	0.00001	0.64	0.014	0.00001	0.0001	0.000045	0.00051	0.0011
		January	2019	0.000065	0.001	0.75	0.0018	0.0000051	0.000053	0.00072	0.41	0.000051	0.00001	0.64	0.014	0.00001	0.0001	0.000045	0.00051	0.0011
		February		0.000065	0.001	0.75	0.0018	0.0000051	0.000053	0.00072	0.41	0.000051	0.00001	0.64	0.014	0.00001	0.0001	0.000045	0.00051	0.0011
		March		0.000073	0.0011	0.98	0.0041	0.0000052	0.00024	0.00077	0.46	0.000057	0.00001	1.0	0.018	0.00001	0.0001	0.0001	0.00052	0.0012
		April		0.000091	0.0015	1.5	0.01	0.0000051	0.00077	0.00085	0.57	0.00007	0.00001	2.1	0.03	0.00001	0.0001	0.00025	0.00051	0.0014
		May		0.000093	0.0015	1.6	0.012	0.000005	0.00087	0.00086	0.58	0.000071	0.00001	2.3	0.032	0.0000098	0.000099	0.00028	0.0005	0.0014
		June		0.00027	0.0023	3.0	0.062	0.0000071	0.0023	0.0051	1.5	0.00021	0.000017	6.4	0.058	0.000012	0.0001	0.00075	0.00064	0.0024
		July		0.0018	0.011	14	0.58	0.000038	0.014	0.055	11	0.0016	0.00012	38	0.29	0.000061	0.00043	0.0042	0.0031	0.013
		August		0.0019	0.011	15	0.56	0.000039	0.014	0.052	11	0.0018	0.00012	39	0.3	0.00006	0.00043	0.0043	0.0033	0.013
		September		0.00091	0.0064	8.8	0.23	0.000017	0.0079	0.018	5.0	0.00079	0.000049	21	0.18	0.000026	0.0002	0.0025	0.0016	0.0066
		October		0.00082	0.01	16	0.2	0.0000087	0.014	0.0062	4.5	0.00067	0.000029	33	0.34	0.000014	0.00012	0.0043	0.00096	0.0077
		November		0.00082	0.012	21	0.23	0.0000064	0.018	0.005	4.9	0.00063	0.000024	40	0.43	0.000011	0.00011	0.0054	0.00069	0.0089
		December		0.00082	0.013	22	0.24	0.0000058	0.019	0.0048	4.9	0.00062	0.000023	41	0.45	0.000011	0.00011	0.0057	0.00062	0.0092
		January	2020	0.00079	0.013	22	0.23	0.0000055	0.019	0.0046	4.8	0.00059	0.000022	41	0.45	0.000011	0.0001	0.0056	0.00059	0.009
		February		0.00075	0.012	21	0.22	0.0000054	0.018	0.0044	4.6	0.00055	0.000021	38	0.42	0.00001	0.0001	0.0053	0.00057	0.0086
		March		0.00071	0.012	20	0.21	0.0000054	0.017	0.0041	4.3	0.00052	0.000021	36	0.4	0.00001	0.0001	0.005	0.00056	0.0082
		April		0.00068	0.011	19	0.2	0.0000053	0.016	0.0039	4.2	0.0005	0.00002	35	0.39	0.00001	0.0001	0.0048	0.00055	0.0079
		May		0.00065	0.011	18	0.19	0.0000052	0.016	0.0038	4.0	0.00048	0.00002	34	0.37	0.00001	0.0001	0.0046	0.00054	0.0076
		June		0.00044	0.0047	7.2	0.12	0.0000068	0.0062	0.0055	2.5	0.00036	0.000019	14	0.15	0.000011	0.0001	0.0019	0.0007	0.004
		July		0.0017	0.007	7.5	0.51	0.000035	0.0075	0.036	9.5	0.0017	0.000088	27	0.15	0.000046	0.00038	0.0027	0.0036	0.0098
		August		0.002	0.0076	8.2	0.52	0.000038	0.0082	0.037	11	0.0019	0.000098	30	0.16	0.00005	0.00041	0.0029	0.0041	0.011
		September		0.00084	0.004	4.7	0.2	0.000017	0.0042	0.013	4.5	0.00081	0.000042	14	0.092	0.000023	0.00019	0.0015	0.0018	0.005
		October		0.00065	0.0064	9.9	0.14	0.0000091	0.0085	0.005	3.5	0.00058	0.000026	20	0.2	0.000014	0.00013	0.0026	0.0011	0.0054
		November		0.00057	0.0087	15	0.16	0.0000058	0.012	0.0035	3.5	0.00044	0.000019	27	0.3	0.000011	0.00011	0.0037	0.00062	0.0064
		December		0.00054	0.009	15	0.16	0.0000052	0.013	0.0032	3.4	0.0004	0.000018	27	0.31	0.00001	0.0001	0.0038	0.00054	0.0064
		January	2021	0.00046	0.0076	13	0.13	0.0000051	0.011	0.0027	2.9	0.00033	0.000016	23	0.26	0.00001	0.0001	0.0031	0.00052	0.0055
		February		0.00038	0.0063	10	0.1	0.0000051	0.0086	0.0023	2.4	0.00028	0.000015	18	0.21	0.00001	0.0001	0.0025	0.00052	0.0046
		March		0.00036	0.006	9.8	0.098	0.0000051	0.0081	0.0022	2.3	0.00026	0.000015	17	0.2	0.00001	0.0001	0.0024	0.00052	0.0044
		April		0.00036	0.0059	9.6	0.096	0.0000051	0.0079	0.0022	2.2	0.00026	0.000015	17	0.19	0.00001	0.0001	0.0023	0.00051	0.0044
		May		0.00036	0.0059	9.5	0.096	0.0000051	0.0079	0.0021	2.2	0.00026	0.000015	17	0.19	0.00001	0.0001	0.0023	0.00051	0.0043
		June		0.00027	0.0018	2.1	0.067	0.0000067	0.0016	0.0048	1.7	0.00025	0.000016	4.8	0.04	0.000011	0.00010	0.00056	0.00075	0.002
		July		0.0017	0.0065	6.3	0.52	0.000037	0.0064	0.039	12	0.0018	0.000096	24	0.13	0.000053	0.00042	0.0025	0.0043	0.0097
		August		0.002	0.0072	7.1	0.56	0.000041	0.0073	0.041	13	0.0021	0.00011	27	0.14	0.000058	0.00046	0.0028	0.0051	0.011
		September		0.00084	0.0036	3.8	0.21	0.000018	0.0035	0.015	5.5	0.0009	0.000045	12	0.074	0.000026	0.00021	0.0013	0.0022	0.0049
		October		0.00055	0.0043	6.2	0.11	0.0000096	0.0052	0.0051	3.2	0.00054	0.000026	14	0.12	0.000015	0.00013	0.0016	0.0012	0.0041
		November		0.00041	0.0056	8.8	0.1	0.0000063	0.0073	0.003	2.5	0.00034	0.000018	16	0.18	0.000011	0.00011	0.0022	0.0007	0.0044
		December		0.00038	0.0058	9.4	0.1	0.0000056	0.0078	0.0026	2.4	0.00029	0.000016	17	0.19	0.000011	0.00011	0.0023	0.00058	0.0044
		January	2022	0.00034	0.0053	8.4	0.089	0.0000055	0.0069	0.0024	2.1	0.00025	0.000015	15	0.17	0.000				

Site and Downstream Water Quality Model Predictions
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Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400					16		0.3	0.5		0.1					0.002		0.02		0.1	1.0	
CEQG aquatic life (long-term) ² (mg/L)							120	0.12		2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3	
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ⁴	Sb	As ⁵	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁷	Co	Cu ⁶	Fe
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Attenuation Pond	Construction and Operations	January	2023	95	0.55	21	39	0.09	9.8	0.097	0.81	0.034	0.0001	0.00043	0.0092	0.023	0.000034	0.000057	0.095	0.000023	13	0.00051	0.00049	0.0013	0.055
		February		84	0.5	19	34	0.083	8.8	0.092	0.84	0.029	0.0001	0.00042	0.0088	0.021	0.000032	0.000057	0.085	0.000021	12	0.00049	0.00045	0.0013	0.052
		March		81	0.49	19	33	0.081	8.5	0.091	0.84	0.028	0.0001	0.00042	0.0087	0.02	0.000032	0.000056	0.083	0.00002	11	0.00049	0.00044	0.0012	0.052
		April		81	0.5	19	32	0.08	8.4	0.091	0.84	0.028	0.0001	0.00042	0.0087	0.02	0.000032	0.000056	0.082	0.00002	11	0.00048	0.00044	0.0012	0.052
		May		80	0.5	19	32	0.08	8.4	0.091	0.84	0.028	0.0001	0.00042	0.0087	0.02	0.000031	0.000057	0.082	0.00002	11	0.00048	0.00044	0.0012	0.052
		June		38	3.8	9.4	8.5	0.069	10	0.019	0.21	0.016	0.0001	0.00078	0.03	0.012	0.000013	0.000018	0.044	0.000012	5.6	0.00033	0.00082	0.0011	0.15
		July		179	25	47	27	0.4	60	0.046	0.64	0.082	0.0001	0.0049	0.19	0.064	0.000057	0.000065	0.23	0.000066	27	0.0018	0.0052	0.0065	0.29
		August		224	31	59	33	0.51	75	0.066	0.84	0.1	0.0001	0.0061	0.24	0.082	0.000072	0.000082	0.29	0.000084	34	0.0024	0.0067	0.0083	0.3
		September		105	13	28	18	0.23	33	0.052	0.53	0.048	0.0001	0.0026	0.1	0.038	0.000034	0.000041	0.14	0.000039	16	0.0011	0.0029	0.0037	0.3
		October		78	4.5	19	23	0.12	15	0.11	0.9	0.031	0.0001	0.0011	0.039	0.023	0.000027	0.000042	0.09	0.000023	11	0.00064	0.0012	0.0019	0.2
		November		86	1.7	20	31	0.093	11	0.17	1.3	0.03	0.0001	0.00069	0.019	0.021	0.000031	0.000053	0.09	0.000021	12	0.00058	0.00068	0.0015	0.094
		December		88	1.0	20	33	0.087	9.8	0.18	1.4	0.03	0.0001	0.00059	0.014	0.021	0.000032	0.000056	0.09	0.000021	12	0.00057	0.00054	0.0014	0.067
		January	2024	77	0.9	18	28	0.078	8.5	0.18	1.5	0.026	0.0001	0.00057	0.013	0.018	0.00003	0.000056	0.081	0.000018	10	0.00055	0.00048	0.0013	0.06
		February		67	0.89	16	23	0.071	7.6	0.18	1.5	0.022	0.0001	0.00057	0.013	0.016	0.000029	0.000055	0.072	0.000016	9.1	0.00053	0.00044	0.0012	0.059
		March		64	0.89	15	22	0.07	7.3	0.18	1.5	0.021	0.0001	0.00057	0.013	0.015	0.000029	0.000055	0.07	0.000015	8.7	0.00053	0.00043	0.0012	0.059
		April		64	0.91	15	22	0.069	7.3	0.18	1.5	0.021	0.0001	0.00057	0.013	0.015	0.000028	0.000055	0.069	0.000015	8.6	0.00053	0.00043	0.0012	0.058
		May		64	0.92	15	22	0.069	7.3	0.18	1.5	0.021	0.0001	0.00057	0.013	0.015	0.000028	0.000055	0.069	0.000015	8.6	0.00053	0.00043	0.0012	0.058
		June		32	3.4	8.4	6.1	0.064	9.0	0.036	0.33	0.014	0.0001	0.00074	0.028	0.011	0.000012	0.000017	0.041	0.000011	4.7	0.00034	0.00078	0.0011	0.14
		July		167	24	45	22	0.38	57	0.073	0.86	0.078	0.0001	0.0047	0.19	0.062	0.000054	0.000063	0.22	0.000063	25	0.0018	0.0052	0.0064	0.29
		August		219	32	58	29	0.5	76	0.099	1.1	0.1	0.0001	0.0063	0.25	0.08	0.000071	0.000081	0.29	0.000082	33	0.0024	0.0067	0.0083	0.3
		September		105	14	27	15	0.23	35	0.075	0.71	0.047	0.0001	0.0029	0.11	0.037	0.000034	0.000042	0.13	0.000038	16	0.0011	0.003	0.0038	0.3
		October		70	5.5	17	17	0.11	16	0.16	1.2	0.026	0.0001	0.0013	0.046	0.02	0.000026	0.000041	0.082	0.00002	10	0.00066	0.0012	0.0019	0.22
		November		70	2.3	16	21	0.083	9.9	0.23	1.8	0.023	0.0001	0.00082	0.023	0.017	0.000028	0.000052	0.077	0.000017	9.6	0.00061	0.00067	0.0014	0.1
		December		70	1.5	16	23	0.075	8.5	0.25	2.0	0.023	0.0001	0.0007	0.017	0.016	0.000029	0.000055	0.075	0.000016	9.4	0.00059	0.00053	0.0013	0.074
		January	2025	61	1.4	14	18	0.068	7.4	0.26	2.0	0.019	0.0001	0.00068	0.016	0.013	0.000028	0.000055	0.068	0.000013	8.2	0.00058	0.00046	0.0013	0.066
		February		53	1.3	13	14	0.062	6.6	0.26	2.1	0.016	0.0001	0.00067	0.016	0.012	0.000026	0.000054	0.061	0.000012	7.1	0.00057	0.00043	0.0012	0.065
		March		51	1.4	12	13	0.061	6.4	0.26	2.1	0.015	0.0001	0.00067	0.016	0.011	0.000026	0.000054	0.059	0.000011	6.8	0.00056	0.00042	0.0012	0.064
		April		50	1.4	12	13	0.06	6.4	0.26	2.1	0.015	0.0001	0.00067	0.016	0.011	0.000026	0.000054	0.058	0.000011	6.7	0.00056	0.00042	0.0012	0.064
		May		50	1.4	12	13	0.06	6.3	0.26	2.1	0.015	0.0001	0.00067	0.016	0.011	0.000026	0.000055	0.058	0.000011	6.7	0.00056	0.00042	0.0012	0.064
		June		34	4.7	8.4	5.1	0.068	11	0.05	0.44	0.013	0.0001	0.00093	0.036	0.011	0.000012	0.000018	0.04	0.000011	5.2	0.00035	0.00087	0.0012	0.17
		July		175	28	45	21	0.4	62	0.096	1.0	0.077	0.0001	0.0053	0.21	0.062	0.000057	0.000066	0.22	0.000063	27	0.0019	0.0054	0.0067	0.3
		August		208	31	56	24	0.49	73	0.13	1.3	0.098	0.0001	0.0062	0.25	0.077	0.000068	0.00008	0.28	0.000079	32	0.0024	0.0067	0.0082	0.3
		September		89	12	25	11	0.21	29	0.094	0.87	0.043	0.0001	0.0025	0.097	0.034	0.000031	0.000039	0.13	0.000035	13	0.0011	0.0028	0.0036	0.3
		October		55	4.2	14	10	0.097	12	0.19	1.5	0.022	0.0001	0.0011	0.038	0.016	0.000023	0.000039	0.073	0.000017	7.5	0.00066	0.0011	0.0018	0.19
		November		55	2.3	13	13	0.072	8.2	0.29	2.3	0.018	0.0001	0.00083	0.023	0.012	0.000025	0.000051	0.065	0.000013	7.4	0.00062	0.00063	0.0014	0.10
		December		55	1.9	13	14	0.065	7.2	0.31	2.5	0.016	0.0001	0.00076	0.019	0.011	0.000026	0.000054	0.063						

Site and Downstream Water Quality Model Predictions
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Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.007	
Constituent		Year	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Whale Tail Attenuation Pond	Construction and Operations	January	2023	0.00027	0.0036	5.1	0.07	0.0000068	0.0041	0.0034	1.8	0.00024	0.000016	9.5	0.11	0.000012	0.00011	0.0012	0.00069	0.0031
		February		0.00025	0.0032	4.5	0.061	0.0000068	0.0035	0.0031	1.6	0.00022	0.000016	8.3	0.092	0.000012	0.00011	0.0011	0.00069	0.0029
		March		0.00025	0.0031	4.3	0.059	0.0000067	0.0033	0.003	1.6	0.00022	0.000016	8.0	0.089	0.000012	0.00011	0.001	0.00069	0.0028
		April		0.00025	0.0031	4.3	0.058	0.0000067	0.0033	0.003	1.6	0.00022	0.000016	7.9	0.088	0.000012	0.00011	0.001	0.00069	0.0028
		May		0.00025	0.0031	4.3	0.058	0.0000067	0.0033	0.003	1.6	0.00022	0.000016	7.9	0.088	0.000012	0.00011	0.001	0.00069	0.0028
		June		0.00022	0.0014	1.3	0.17	0.0000074	0.0015	0.015	1.9	0.00018	0.000022	3.5	0.028	0.000013	0.0001	0.00044	0.00042	0.002
		July		0.0013	0.0069	4.8	1.2	0.000044	0.0068	0.097	12	0.001	0.00013	17	0.11	0.000076	0.00059	0.0021	0.0022	0.011
		August		0.0016	0.0086	5.9	1.5	0.000055	0.0085	0.12	15	0.0013	0.00016	22	0.13	0.000094	0.00074	0.0026	0.0028	0.014
		September		0.00074	0.0041	3.0	0.64	0.000024	0.004	0.052	6.3	0.00058	0.000069	10	0.067	0.000041	0.00033	0.0013	0.0013	0.0063
		October		0.00038	0.003	3.2	0.24	0.000012	0.003	0.019	3.0	0.00033	0.000031	7.6	0.069	0.00002	0.00017	0.00095	0.00081	0.0036
		November		0.0003	0.0033	4.1	0.11	0.0000089	0.0033	0.0076	2.1	0.00029	0.000021	8.3	0.088	0.000015	0.00013	0.001	0.00078	0.0033
		December		0.00028	0.0033	4.3	0.079	0.0000081	0.0034	0.0048	1.9	0.00028	0.000019	8.5	0.093	0.000013	0.00012	0.0011	0.00077	0.0032
		January	2024	0.00025	0.003	3.7	0.064	0.000008	0.0028	0.004	1.8	0.00027	0.000018	7.3	0.081	0.000013	0.00012	0.00089	0.00077	0.003
		February		0.00024	0.0027	3.1	0.055	0.000008	0.0023	0.0038	1.6	0.00026	0.000018	6.2	0.069	0.000013	0.00012	0.00074	0.00078	0.0027
		March		0.00023	0.0026	3.0	0.053	0.000008	0.0022	0.0038	1.6	0.00026	0.000018	5.9	0.065	0.000013	0.00012	0.0007	0.00078	0.0027
		April		0.00023	0.0026	2.9	0.053	0.000008	0.0021	0.0037	1.6	0.00025	0.000018	5.9	0.065	0.000013	0.00012	0.00069	0.00078	0.0027
		May		0.00023	0.0025	2.9	0.053	0.000008	0.0021	0.0037	1.6	0.00025	0.000018	5.8	0.064	0.000013	0.00012	0.00068	0.00078	0.0027
		June		0.00021	0.0013	0.99	0.17	0.000007	0.0012	0.014	1.8	0.00017	0.00002	3.1	0.022	0.000012	0.000097	0.00036	0.00042	0.0018
		July		0.0013	0.0065	4.1	1.1	0.000042	0.0061	0.095	11	0.00099	0.00013	16	0.095	0.000073	0.00057	0.0019	0.0022	0.01
		August		0.0016	0.0084	5.4	1.5	0.000055	0.0079	0.13	15	0.0013	0.00017	21	0.12	0.000097	0.00075	0.0024	0.0028	0.014
		September		0.00074	0.004	2.7	0.65	0.000025	0.0037	0.056	6.8	0.00061	0.000077	9.7	0.063	0.000045	0.00034	0.0011	0.0013	0.0064
		October		0.00037	0.0027	2.4	0.25	0.000013	0.0023	0.021	3.2	0.00035	0.000036	6.3	0.055	0.000022	0.00018	0.00073	0.00086	0.0036
		November		0.00028	0.0027	2.8	0.11	0.00001	0.0022	0.0088	2.2	0.00032	0.000023	6.3	0.066	0.000016	0.00014	0.00072	0.00084	0.0031
		December		0.00026	0.0027	2.9	0.072	0.0000093	0.0022	0.0057	1.9	0.00031	0.00002	6.3	0.068	0.000015	0.00013	0.00071	0.00084	0.003
		January	2025	0.00023	0.0024	2.4	0.058	0.0000092	0.0017	0.0049	1.7	0.0003	0.00002	5.3	0.058	0.000014	0.00013	0.00058	0.00084	0.0028
		February		0.00022	0.0022	2.0	0.051	0.0000092	0.0013	0.0046	1.6	0.00029	0.000019	4.4	0.049	0.000014	0.00013	0.00045	0.00085	0.0027
		March		0.00022	0.0021	1.8	0.049	0.0000092	0.0012	0.0046	1.6	0.00029	0.000019	4.2	0.046	0.000014	0.00013	0.00042	0.00085	0.0026
		April		0.00021	0.0021	1.8	0.049	0.0000092	0.0012	0.0046	1.6	0.00029	0.000019	4.1	0.045	0.000014	0.00013	0.00041	0.00085	0.0026
		May		0.00021	0.0021	1.8	0.049	0.0000092	0.0012	0.0046	1.6	0.00029	0.000019	4.1	0.045	0.000014	0.00013	0.00041	0.00085	0.0026
		June		0.00021	0.0013	0.88	0.18	0.0000082	0.0011	0.017	2.2	0.0002	0.000026	2.9	0.021	0.000015	0.00011	0.00031	0.00045	0.002
		July		0.0013	0.0067	4.0	1.2	0.000045	0.0061	0.11	12	0.001	0.00014	16	0.094	0.000082	0.00061	0.0018	0.0023	0.011
		August		0.0016	0.0081	4.8	1.5	0.000055	0.0073	0.12	14	0.0013	0.00016	20	0.11	0.000096	0.00074	0.0023	0.0028	0.013
		September		0.00073	0.0035	2.1	0.63	0.000023	0.0031	0.049	5.8	0.00057	0.000064	8.9	0.05	0.000038	0.00031	0.001	0.0013	0.0058
		October		0.00035	0.0022	1.5	0.23	0.000012	0.0016	0.017	2.6	0.00034	0.000029	5.1	0.04	0.000019	0.00016	0.00055	0.00085	0.0032
		November		0.00026	0.0022	1.7	0.099	0.000011	0.0013	0.0084	2.0	0.00033	0.000023	4.6	0.046	0.000016	0.00014	0.00046	0.00088	0.0029
		December		0.00024	0.0022	1.8	0.066	0.00001	0.0012	0.0061	1.8	0.00033	0.000021	4.5	0.048	0.000016	0.00013	0.00043	0.00089	0.0029
		MINIMUM		0.000054	0.00099	0.72	0.0015	0.000005	0.00005	0.00063	0.4	0.00005	0.0000099	0.55	0.014	0.0000098	0.000097	0.000031	0.0004	0.0011
		MAXIMUM		0.002	0.013	22	1.5	0.000062	0.019	0.15	17	0.0021	0.0002	41	0.45	0.00012	0.00084	0.0057	0.0051	0.015
		AVERAGE		0.00053	0.0046	5.8	0.25	0.000014	0.0052	0.019	3.8	0.00047	0.000038	13	0.12	0.000023	0.00019	0.0016	0.0011	0.0049
		MAXIMUM (total)		0.0021	0.013	22	1.5	0.000062	0.019	0.15	18	0.0022	0.00022	41	0.46	0.00012	0.00085	0.0057	0.0059	0.016
		AVERAGE (total)		0.00066	0.0049	6.2	0.26	0.000014	0.0052	0.023	4.0	0.00047	0.000059	13	0.12	0.000029	0.0002	0.0016	0.002	0.0056
	Closure	January	2026	0.00025	0.0026	2.5	0.064	0.000010	0.0018	0.0056	1.9	0.00034	0.000021	5.7	0.062	0.000015	0.00013	0.00061	0.00088	0.0031
		February		0.00026	0.0029	3.0	0.067	0.0000098	0.0023	0.0054	2.0	0.00034	0.000021	6.6	0.073	0.000015	0.00013	0.00074	0.00087	0.0032
		March		0.00027	0.003	3.2	0.068	0.0000098	0.0025	0.0054	2.0	0.00034	0.000021	6.9	0.076	0.000015	0.00013	0.00079	0.00086	0.0033
		April		0.00027	0.003	3.3	0.068	0.0000097	0.0025	0.0053	2.0	0.00034	0.000021	7.1	0.078	0.000015	0.00013	0.00081	0.00086	0.0033
		May		0.00027	0.003	3.4	0.069	0.0000097	0.0026	0.0053	2.0	0.00034	0.000021	7.2	0.079	0.000015	0.00013	0.00082	0.00086	0.0033
		June		0.00023	0.002	2.0	0.077	0.0000085	0.0017	0.0047	1.5	0.00023	0.000015	4.7	0.046	0.000011	0.00011	0.00061	0.00071	0.0025
		July		0.000																

Site and Downstream Water Quality Model Predictions
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Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)			1400						16		0.3	0.5		0.1				0.002		0.02		0.1	1.0	
CEQG aquatic life (long-term) ² (mg/L)						120	0.12			2.93	0.01	0.1		0.025			1.5	0.00004		0.001		0.002	0.3	
Constituent			TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁵	Ca	Cr ⁶	Co	Cu ⁶	Fe
LOCATION	Time Period	Month	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Attenuation Pond	Closure	January	52	2.5	18	11	0.16	9.5	0.081	0.65	0.031	0.0001	0.00088	0.022	0.019	0.000033	0.000046	0.07	0.000019	6.5	0.00099	0.0011	0.0022	0.18
		February	52	2.4	18	11	0.16	9.3	0.085	0.68	0.031	0.0001	0.00086	0.022	0.019	0.000032	0.000047	0.07	0.000019	6.6	0.00096	0.001	0.0022	0.17
		March	52	2.3	18	12	0.15	9.1	0.089	0.71	0.031	0.0001	0.00083	0.021	0.018	0.000032	0.000047	0.069	0.000019	6.6	0.00093	0.0010	0.0021	0.17
		April	52	2.2	17	12	0.15	8.9	0.093	0.73	0.031	0.0001	0.00081	0.02	0.018	0.000032	0.000048	0.068	0.000018	6.7	0.0009	0.00096	0.002	0.16
		May	52	2.1	17	13	0.14	8.8	0.096	0.76	0.031	0.0001	0.00078	0.02	0.018	0.000031	0.000048	0.067	0.000018	6.7	0.00087	0.00093	0.002	0.15
		June	41	1.7	14	9.7	0.12	7.0	0.072	0.56	0.024	0.0001	0.00063	0.016	0.014	0.000026	0.000041	0.053	0.000015	5.3	0.00071	0.00075	0.0016	0.14
		July	37	1.8	14	7.6	0.12	7.0	0.05	0.4	0.023	0.0001	0.00065	0.016	0.014	0.000026	0.000039	0.051	0.000015	4.7	0.00074	0.00081	0.0017	0.15
		August	47	2.7	18	8.3	0.18	9.6	0.05	0.41	0.03	0.0001	0.00092	0.024	0.019	0.000033	0.000044	0.069	0.00002	5.8	0.001	0.0012	0.0024	0.19
		September	49	2.9	20	8.1	0.19	10	0.046	0.39	0.032	0.0001	0.001	0.026	0.021	0.000035	0.000045	0.073	0.000021	6.0	0.0011	0.0013	0.0026	0.21
		October	47	2.7	19	7.9	0.18	9.7	0.044	0.37	0.03	0.0001	0.00094	0.024	0.019	0.000033	0.000044	0.069	0.00002	5.8	0.0011	0.0012	0.0024	0.21
		November	47	2.6	18	8.3	0.17	9.4	0.047	0.39	0.03	0.0001	0.0009	0.023	0.019	0.000033	0.000045	0.067	0.000019	5.8	0.001	0.0011	0.0023	0.2
		December	46	2.5	18	8.6	0.17	9.2	0.049	0.41	0.03	0.0001	0.00087	0.022	0.018	0.000032	0.000045	0.066	0.000019	5.8	0.00099	0.0011	0.0023	0.19
		January	46	2.4	17	8.9	0.16	8.9	0.052	0.43	0.029	0.0001	0.00083	0.021	0.018	0.000032	0.000046	0.064	0.000019	5.8	0.00095	0.001	0.0022	0.18
		February	46	2.3	17	9.2	0.15	8.7	0.054	0.44	0.029	0.0001	0.0008	0.02	0.018	0.000032	0.000046	0.063	0.000018	5.8	0.00091	0.001	0.0021	0.17
		March	45	2.2	17	9.5	0.15	8.4	0.056	0.46	0.029	0.0001	0.00078	0.019	0.017	0.000031	0.000047	0.062	0.000018	5.8	0.00088	0.00096	0.002	0.16
		April	45	2.1	16	9.8	0.14	8.2	0.058	0.47	0.028	0.0001	0.00075	0.019	0.017	0.000031	0.000047	0.061	0.000017	5.8	0.00085	0.00092	0.002	0.16
		May	45	2.0	16	10	0.14	8.0	0.06	0.49	0.028	0.0001	0.00072	0.018	0.016	0.00003	0.000047	0.059	0.000017	5.8	0.00081	0.00089	0.0019	0.15
		June	36	1.6	13	7.8	0.11	6.4	0.045	0.36	0.022	0.0001	0.00058	0.014	0.013	0.000026	0.000041	0.047	0.000014	4.7	0.00067	0.00072	0.0016	0.13
		July	34	1.7	13	6.3	0.12	6.6	0.032	0.26	0.021	0.0001	0.00062	0.016	0.014	0.000025	0.000038	0.047	0.000014	4.3	0.00072	0.00078	0.0017	0.15
		August	44	2.6	18	7.1	0.17	9.2	0.032	0.28	0.029	0.0001	0.00089	0.023	0.019	0.000032	0.000044	0.065	0.000019	5.4	0.001	0.0011	0.0023	0.19
		September	46	2.8	19	7.1	0.19	10.0	0.029	0.26	0.031	0.0001	0.00097	0.025	0.02	0.000034	0.000045	0.07	0.000021	5.6	0.0011	0.0013	0.0025	0.21
		October	44	2.6	18	6.9	0.18	9.4	0.028	0.25	0.029	0.0001	0.00091	0.023	0.019	0.000033	0.000044	0.066	0.000019	5.4	0.0011	0.0012	0.0024	0.2
		November	43	2.5	18	7.2	0.17	9.1	0.03	0.26	0.029	0.0001	0.00087	0.022	0.018	0.000032	0.000045	0.064	0.000019	5.4	0.001	0.0011	0.0023	0.19
		December	43	2.4	17	7.5	0.16	8.8	0.032	0.27	0.028	0.0001	0.00083	0.021	0.018	0.000032	0.000045	0.062	0.000018	5.4	0.00096	0.0011	0.0022	0.18
		January	42	2.3	17	7.8	0.16	8.5	0.033	0.28	0.028	0.0001	0.0008	0.02	0.017	0.000031	0.000045	0.06	0.000018	5.4	0.00092	0.001	0.0021	0.18
		February	42	2.2	16	8.0	0.15	8.2	0.035	0.29	0.028	0.0001	0.00077	0.019	0.017	0.000031	0.000046	0.059	0.000018	5.4	0.00088	0.00098	0.0021	0.17
		March	42	2.1	16	8.3	0.15	8.0	0.036	0.3	0.027	0.0001	0.00074	0.018	0.017	0.000031	0.000046	0.058	0.000017	5.4	0.00084	0.00094	0.002	0.16
		April	41	2.0	15	8.5	0.14	7.8	0.038	0.31	0.027	0.0001	0.00071	0.017	0.016	0.00003	0.000047	0.056	0.000017	5.3	0.00081	0.0009	0.0019	0.15
		May	41	1.9	15	8.7	0.13	7.5	0.039	0.32	0.027	0.0001	0.00068	0.017	0.016	0.00003	0.000047	0.055	0.000016	5.3	0.00078	0.00086	0.0018	0.15
		June	33	1.5	12	6.8	0.11	6.1	0.029	0.24	0.021	0.0001	0.00055	0.013	0.013	0.000025	0.00004	0.044	0.000013	4.3	0.00064	0.0007	0.0015	0.13
		July	32	1.7	13	5.6	0.12	6.4	0.021	0.18	0.021	0.0001	0.0006	0.015	0.013	0.000025	0.000038	0.045	0.000014	4.0	0.0007	0.00077	0.0016	0.14
		August	41	2.5	17	6.4	0.17	9.0	0.021	0.19	0.028	0.0001	0.00087	0.022	0.018	0.000032	0.000044	0.063	0.000019	5.1	0.0010	0.0011	0.0023	0.19
		September	44	2.8	19	6.4	0.19	9.7	0.019	0.19	0.03	0.0001	0.00095	0.024	0.02	0.000034	0.000045	0.067	0.00002	5.4	0.0011	0.0012	0.0025	0.21
		October	42	2.6	18	6.2	0.18	9.1	0.019	0.18	0.029	0.0001	0.00089	0.023	0.018	0.000033	0.000044	0.063	0.000019	5.2	0.001	0.0012	0.0024	0.2
		November	41	2.5	17	6.4	0.17	8.8	0.02	0.19	0.028	0.0001	0.00085	0.022	0.018	0.000032	0.000044	0.061	0.000019	5.1	0.00099	0.0011	0.0023	0.19
		December	40	2.3	17	6.6	0.16	8.5	0.021	0.19	0.028	0.0001	0.00081	0.021	0.017	0.000032	0.000045	0.059	0.					

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015		0.007
Constituent				Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Attenuation Pond	Closure	January	2028	0.00044	0.0026	1.8	0.2	0.000018	0.0025	0.0095	2.6	0.00032	0.000018	6.3	0.04	0.000016	0.00022	0.0012	0.0013	0.0042
		February		0.00042	0.0025	1.9	0.2	0.000017	0.0025	0.0091	2.6	0.00032	0.000018	6.2	0.041	0.000016	0.00021	0.0011	0.0013	0.0041
		March		0.00041	0.0025	1.9	0.19	0.000017	0.0024	0.0088	2.5	0.00031	0.000018	6.1	0.042	0.000016	0.00021	0.0011	0.0012	0.004
		April		0.0004	0.0025	1.9	0.18	0.000016	0.0024	0.0085	2.4	0.0003	0.000018	6.1	0.043	0.000016	0.0002	0.0011	0.0012	0.0039
		May		0.00039	0.0025	2.0	0.17	0.000016	0.0024	0.0082	2.4	0.0003	0.000018	6.0	0.044	0.000016	0.0002	0.001	0.0012	0.0039
		June		0.00031	0.002	1.6	0.14	0.000013	0.0018	0.0066	1.9	0.00024	0.000015	4.7	0.034	0.000013	0.00016	0.00083	0.00097	0.0031
		July		0.00033	0.0019	1.3	0.15	0.000014	0.0018	0.0071	2.0	0.00024	0.000014	4.6	0.029	0.000013	0.00017	0.00085	0.001	0.0032
		August		0.00046	0.0025	1.5	0.23	0.000019	0.0025	0.01	2.7	0.00032	0.000018	6.2	0.034	0.000017	0.00023	0.0012	0.0014	0.0044
		September		0.0005	0.0026	1.6	0.25	0.000021	0.0026	0.011	3.0	0.00034	0.000019	6.6	0.035	0.000018	0.00025	0.0013	0.0015	0.0047
		October		0.00047	0.0025	1.5	0.23	0.00002	0.0025	0.01	2.8	0.00032	0.000018	6.2	0.033	0.000017	0.00024	0.0012	0.0014	0.0044
		November		0.00046	0.0025	1.5	0.22	0.000019	0.0024	0.010	2.7	0.00032	0.000018	6.1	0.034	0.000017	0.00023	0.0012	0.0014	0.0043
		December		0.00044	0.0024	1.6	0.21	0.000018	0.0024	0.0095	2.6	0.00031	0.000018	5.9	0.034	0.000016	0.00022	0.0011	0.0013	0.0042
		January	2029	0.00042	0.0024	1.6	0.2	0.000018	0.0023	0.0091	2.5	0.0003	0.000017	5.8	0.035	0.000016	0.00022	0.0011	0.0013	0.0041
		February		0.00041	0.0024	1.6	0.19	0.000017	0.0023	0.0087	2.4	0.00029	0.000017	5.7	0.036	0.000016	0.00021	0.0011	0.0012	0.0039
		March		0.00039	0.0024	1.7	0.18	0.000017	0.0022	0.0084	2.4	0.00028	0.000017	5.5	0.036	0.000016	0.00021	0.001	0.0012	0.0038
		April		0.00038	0.0023	1.7	0.17	0.000016	0.0022	0.008	2.3	0.00027	0.000017	5.4	0.037	0.000015	0.0002	0.0010	0.0012	0.0037
		May		0.00036	0.0023	1.7	0.17	0.000015	0.0021	0.0077	2.2	0.00027	0.000017	5.3	0.037	0.000015	0.0002	0.00096	0.0011	0.0036
		June		0.0003	0.0019	1.4	0.13	0.000013	0.0017	0.0062	1.8	0.00021	0.000014	4.2	0.029	0.000013	0.00016	0.00077	0.00095	0.003
		July		0.00032	0.0018	1.2	0.15	0.000014	0.0017	0.0068	1.9	0.00022	0.000014	4.2	0.026	0.000013	0.00017	0.00082	0.00099	0.0031
		August		0.00045	0.0024	1.4	0.23	0.000019	0.0024	0.01	2.7	0.00031	0.000017	5.8	0.031	0.000016	0.00023	0.0012	0.0013	0.0043
		September		0.00049	0.0025	1.5	0.25	0.000021	0.0025	0.011	2.9	0.00033	0.000019	6.3	0.032	0.000017	0.00025	0.0013	0.0015	0.0046
		October		0.00046	0.0024	1.4	0.23	0.00002	0.0024	0.01	2.7	0.00031	0.000018	5.9	0.031	0.000017	0.00024	0.0012	0.0014	0.0043
		November		0.00045	0.0024	1.4	0.22	0.000019	0.0023	0.0097	2.6	0.0003	0.000017	5.8	0.031	0.000016	0.00023	0.0012	0.0013	0.0042
		December		0.00043	0.0023	1.5	0.21	0.000018	0.0023	0.0093	2.5	0.00029	0.000017	5.6	0.031	0.000016	0.00022	0.0011	0.0013	0.0041
		January	2030	0.00041	0.0023	1.5	0.2	0.000017	0.0022	0.0088	2.4	0.00028	0.000017	5.5	0.032	0.000016	0.00022	0.0011	0.0013	0.0039
		February		0.00039	0.0023	1.5	0.19	0.000017	0.0021	0.0084	2.3	0.00027	0.000017	5.3	0.032	0.000016	0.00021	0.001	0.0012	0.0038
		March		0.00038	0.0022	1.5	0.18	0.000016	0.0021	0.0081	2.3	0.00026	0.000016	5.2	0.033	0.000015	0.0002	0.00099	0.0012	0.0037
		April		0.00036	0.0022	1.5	0.17	0.000016	0.002	0.0077	2.2	0.00025	0.000016	5.1	0.033	0.000015	0.0002	0.00095	0.0011	0.0036
		May		0.00035	0.0022	1.6	0.16	0.000015	0.002	0.0074	2.1	0.00025	0.000016	4.9	0.033	0.000015	0.00019	0.00092	0.0011	0.0035
		June		0.00029	0.0018	1.3	0.13	0.000012	0.0016	0.006	1.7	0.0002	0.000013	4.0	0.027	0.000012	0.00016	0.00074	0.00093	0.0029
		July		0.00031	0.0018	1.1	0.15	0.000013	0.0016	0.0067	1.8	0.00021	0.000013	4.0	0.024	0.000013	0.00017	0.00079	0.00098	0.003
		August		0.00045	0.0023	1.3	0.22	0.000019	0.0023	0.0098	2.6	0.0003	0.000017	5.6	0.029	0.000016	0.00023	0.0011	0.0013	0.0042
		September		0.00049	0.0025	1.4	0.25	0.000021	0.0025	0.011	2.8	0.00032	0.000018	6.1	0.03	0.000017	0.00025	0.0012	0.0014	0.0045
		October		0.00046	0.0024	1.3	0.23	0.000019	0.0023	0.01	2.7	0.0003	0.000017	5.7	0.029	0.000017	0.00023	0.0012	0.0014	0.0043
		November		0.00044	0.0023	1.4	0.22	0.000019	0.0022	0.0095	2.6	0.00029	0.000017	5.5	0.029	0.000016	0.00023	0.0011	0.0013	0.0041
		December		0.00042	0.0023	1.4	0.21	0.000018	0.0022	0.0091	2.5	0.00028	0.000017	5.4	0.029	0.000016	0.00022	0.0011	0.0013	0.004
		January	2031	0.0004	0.0022	1.4	0.19	0.000017	0.0021	0.0086	2.4	0.00027	0.000016	5.2	0.029	0.000016	0.00021	0.001	0.0012	0.0039
		February		0.00039	0.0022	1.4	0.19	0.000017	0.002	0.0082	2.3	0.00026	0.000016	5.0	0.03	0.000015	0.00021	0.00099	0.0012	0.0037
		March		0.00037	0.0022	1.4	0.18	0.000016	0.002	0.0079	2.2	0.00025	0.000016	4.9	0.03	0.000015	0.0002	0.00095	0.0012	0.0036
		April		0.00036	0.0021	1.4	0.17	0.000015	0.0019	0.0075	2.1	0.00024	0.000016	4.8	0.03	0.000015	0.0002	0.00092	0.0011	0.0035
		May		0.00034	0.0021	1.4	0.16	0.000015	0.0018	0.0072	2.0	0.00023	0.000015	4.6	0.03	0.000015	0.00019	0.00088	0.0011	0.0034
		June		0.00028	0.0017	1.2	0.13	0.000012	0.0015	0.0058	1.7	0.00019	0.000013	3.7	0.024	0.000012	0.00016	0.00071	0.00092	0.0028
		July		0.00031	0.0017	1.1	0.15	0.000013	0.0015	0.0066	1.8	0.0002	0.000013	3.9	0.022	0.000012	0.00017	0.00077	0.00097	0.003
		August		0.00044	0.0023	1.3	0.22	0.000019	0.0022	0.0097	2.6	0.00029	0.000017	5.4	0.027	0.000016	0.00023	0.0011	0.0013	0.0041
		September		0.00048	0.0024	1.3	0.24	0.000021	0.0024	0.011	2.8	0.00031	0.000018	5.9	0.028	0.000017	0.00025	0.0012	0.0014	0.0045
		October		0.00045	0.0023	1.3	0.23	0.000019	0.0022	0.010	2.6	0.0003	0.000017	5.5	0.027	0.000017	0.00023	0.0012	0.0014	0.0042
		November		0.00043	0.0022	1.3	0.22	0.000019	0.0022	0.0095	2.5	0.00028	0.000017	5.3	0.027	0.000016	0.00023	0.0011	0.0013	

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400					16		0.3	0.5		0.1				0.002		0.02		0.1	1.0		
CEQG aquatic life (long-term) ² (mg/L)							120	0.12		2.93	0.01	0.1		0.025			1.5	0.00004		0.001		0.002	0.3		
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁵	Ca	Cr ⁶	Co	Cu ⁶	Fe
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Whale Tail Attenuation Pond	Closure	January	2033	36	2.2	16	5.1	0.15	7.9	0.011	0.12	0.026	0.0001	0.00077	0.019	0.016	0.000031	0.000045	0.054	0.000017	4.5	0.00089	0.001	0.0021	0.17
		February		35	2.1	15	5.2	0.15	7.6	0.011	0.13	0.026	0.0001	0.00074	0.018	0.016	0.00003	0.000045	0.053	0.000016	4.5	0.00085	0.00096	0.002	0.17
		March		34	2.0	15	5.3	0.14	7.3	0.011	0.13	0.025	0.0001	0.0007	0.017	0.015	0.00003	0.000045	0.051	0.000016	4.4	0.00082	0.00092	0.0019	0.16
		April		34	1.9	14	5.4	0.14	7.1	0.012	0.13	0.025	0.0001	0.00067	0.017	0.015	0.000029	0.000046	0.049	0.000015	4.4	0.00078	0.00088	0.0019	0.15
		May		33	1.8	14	5.5	0.13	6.8	0.012	0.14	0.024	0.0001	0.00065	0.016	0.014	0.000029	0.000046	0.048	0.000015	4.3	0.00075	0.00084	0.0018	0.14
		June		27	1.4	11	4.4	0.11	5.6	0.0096	0.1	0.019	0.0001	0.00053	0.013	0.012	0.000024	0.00004	0.039	0.000012	3.5	0.00062	0.00068	0.0015	0.13
		July		27	1.6	12	3.9	0.12	6.0	0.0074	0.086	0.019	0.0001	0.00058	0.014	0.012	0.000025	0.000037	0.041	0.000013	3.5	0.00068	0.00076	0.0016	0.14
		August		37	2.5	17	4.6	0.17	8.6	0.0075	0.1	0.027	0.0001	0.00085	0.022	0.017	0.000031	0.000043	0.059	0.000018	4.6	0.00099	0.0011	0.0023	0.19
		September		40	2.8	18	4.7	0.19	9.4	0.0071	0.1	0.029	0.0001	0.00094	0.024	0.019	0.000033	0.000044	0.064	0.00002	4.9	0.0011	0.0012	0.0025	0.21
		October		38	2.6	17	4.6	0.18	8.9	0.007	0.099	0.028	0.0001	0.00088	0.023	0.018	0.000032	0.000043	0.06	0.000019	4.7	0.001	0.0012	0.0024	0.2
		November		37	2.4	17	4.7	0.17	8.5	0.0075	0.1	0.027	0.0001	0.00084	0.021	0.017	0.000032	0.000044	0.058	0.000018	4.6	0.00098	0.0011	0.0023	0.19
		December		36	2.3	16	4.8	0.16	8.2	0.0079	0.11	0.027	0.0001	0.00081	0.02	0.017	0.000031	0.000044	0.056	0.000017	4.5	0.00094	0.0011	0.0022	0.18
		January	2034	36	2.2	16	4.9	0.16	7.9	0.0083	0.11	0.026	0.0001	0.00077	0.019	0.016	0.000031	0.000045	0.054	0.000017	4.5	0.00089	0.001	0.0021	0.18
		February		35	2.1	15	5.0	0.15	7.6	0.0087	0.11	0.026	0.0001	0.00074	0.018	0.016	0.00003	0.000045	0.052	0.000016	4.4	0.00086	0.00096	0.002	0.17
		March		34	2.0	15	5.1	0.14	7.3	0.009	0.11	0.025	0.0001	0.00071	0.018	0.015	0.00003	0.000045	0.051	0.000016	4.4	0.00082	0.00092	0.0019	0.16
		April		33	1.9	14	5.1	0.14	7.1	0.0094	0.12	0.025	0.0001	0.00068	0.017	0.015	0.000029	0.000045	0.049	0.000015	4.3	0.00079	0.00088	0.0019	0.15
		May		33	1.8	14	5.2	0.13	6.8	0.0097	0.12	0.024	0.0001	0.00065	0.016	0.014	0.000029	0.000046	0.047	0.000015	4.2	0.00075	0.00084	0.0018	0.15
		June		27	1.5	11	4.2	0.11	5.6	0.0077	0.092	0.019	0.0001	0.00053	0.013	0.012	0.000024	0.00004	0.038	0.000012	3.5	0.00062	0.00068	0.0015	0.13
		July		27	1.6	12	3.7	0.12	6.0	0.0061	0.077	0.019	0.0001	0.00058	0.015	0.012	0.000024	0.000037	0.041	0.000013	3.5	0.00069	0.00076	0.0016	0.14
		August		37	2.5	17	4.5	0.17	8.6	0.0062	0.093	0.027	0.0001	0.00085	0.022	0.017	0.000031	0.000043	0.059	0.000018	4.5	0.00099	0.0011	0.0023	0.19
		September		40	2.8	18	4.6	0.19	9.4	0.0059	0.095	0.029	0.0001	0.00094	0.024	0.019	0.000033	0.000044	0.064	0.00002	4.8	0.0011	0.0012	0.0025	0.21
		October		38	2.6	17	4.4	0.18	8.9	0.0059	0.092	0.028	0.0001	0.00088	0.023	0.018	0.000032	0.000043	0.06	0.000019	4.6	0.001	0.0012	0.0024	0.2
		November		37	2.5	17	4.5	0.17	8.5	0.0062	0.095	0.027	0.0001	0.00084	0.022	0.017	0.000032	0.000044	0.058	0.000018	4.5	0.00098	0.0011	0.0023	0.19
		December		36	2.3	16	4.6	0.16	8.2	0.0065	0.097	0.026	0.0001	0.00081	0.02	0.017	0.000031	0.000044	0.056	0.000017	4.5	0.00094	0.0011	0.0022	0.18
		January	2035	35	2.2	15	4.6	0.16	7.9	0.0069	0.1	0.026	0.0001	0.00077	0.019	0.016	0.000031	0.000044	0.054	0.000017	4.4	0.0009	0.001	0.0021	0.18
		February		34	2.1	15	4.7	0.15	7.6	0.0072	0.1	0.026	0.0001	0.00074	0.018	0.016	0.00003	0.000045	0.052	0.000016	4.3	0.00086	0.00097	0.002	0.17
		March		33	2.0	15	4.8	0.14	7.3	0.0074	0.1	0.025	0.0001	0.00071	0.018	0.015	0.00003	0.000045	0.05	0.000016	4.3	0.00082	0.00093	0.0019	0.16
		April		33	1.9	14	4.8	0.14	7.1	0.0077	0.11	0.025	0.0001	0.00068	0.017	0.015	0.000029	0.000045	0.049	0.000015	4.2	0.00079	0.00089	0.0019	0.15
		May		32	1.8	14	4.9	0.13	6.8	0.008	0.11	0.024	0.0001	0.00065	0.016	0.014	0.000029	0.000046	0.047	0.000015	4.2	0.00076	0.00085	0.0018	0.15
		June		26	1.5	11	4.0	0.11	5.5	0.0065	0.085	0.019	0.0001	0.00053	0.013	0.012	0.000024	0.000039	0.038	0.000012	3.4	0.00062	0.00069	0.0015	0.13
		July		27	1.7	12	3.6	0.12	6.0	0.0052	0.072	0.019	0.0001	0.00059	0.015	0.012	0.000024	0.000037	0.041	0.000013	3.4	0.00069	0.00076	0.0016	0.15
		August		37	2.5	17	4.3	0.17	8.6	0.0053	0.088	0.027	0.0001	0.00086	0.022	0.017	0.000031	0.000043	0.059	0.000018	4.5	0.00099	0.0011	0.0023	0.19
		September		40	2.8	18	4.4	0.19	9.4	0.0051	0.091	0.029	0.0001	0.00094	0.024	0.019	0.000033	0.000044	0.064	0.00002	4.8	0.0011	0.0012	0.0025	0.21
		October		38	2.6	17	4.3	0.18	8.9	0.0051	0.088	0.028	0.0001	0.00089	0.023	0.018	0.000032	0.000043	0.06	0.000019	4.6	0.001	0.0012	0.0024	0.2
		November		37	2.5	17	4.4	0.17	8.6	0.0054	0.091	0.027	0.0001	0.00085	0.022	0.017	0.000032	0.000044	0.058	0.000018	4.5	0.00099	0.0011	0.0023	0.2
		December		36	2.4	16	4.4	0.16	8.3	0.0057	0.0														

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)			0.05					0.004		0.25									0.1	
CEQG aquatic life (long-term) ² (mg/L)			0.001					0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.007	
Constituent			Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Whale Tail Attenuation Pond	Closure	January	2033	0.0004	0.0021	1.2	0.19	0.000017	0.0019	0.0086	2.3	0.00026	0.000016	4.9	0.025	0.000016	0.00022	0.0010	0.0012	0.0038
		February		0.00038	0.0021	1.2	0.19	0.000017	0.0019	0.0082	2.2	0.00025	0.000016	4.7	0.025	0.000015	0.00021	0.00095	0.0012	0.0037
		March		0.00037	0.002	1.2	0.18	0.000016	0.0018	0.0079	2.2	0.00024	0.000016	4.5	0.025	0.000015	0.0002	0.00091	0.0012	0.0035
		April		0.00035	0.002	1.2	0.17	0.000016	0.0017	0.0075	2.1	0.00023	0.000015	4.4	0.025	0.000015	0.0002	0.00087	0.0011	0.0034
		May		0.00034	0.002	1.2	0.16	0.000015	0.0017	0.0071	2.0	0.00022	0.000015	4.2	0.025	0.000015	0.00019	0.00084	0.0011	0.0033
		June		0.00028	0.0016	1.0	0.13	0.000012	0.0013	0.0058	1.6	0.00018	0.000013	3.4	0.02	0.000012	0.00016	0.00068	0.00092	0.0027
		July		0.0003	0.0017	0.95	0.15	0.000013	0.0014	0.0066	1.8	0.0002	0.000013	3.7	0.019	0.000012	0.00017	0.00075	0.00097	0.0029
		August		0.00044	0.0022	1.2	0.22	0.000019	0.0021	0.0098	2.6	0.00028	0.000017	5.2	0.024	0.000016	0.00023	0.0011	0.0013	0.0041
		September		0.00048	0.0024	1.2	0.25	0.000021	0.0023	0.011	2.8	0.00031	0.000018	5.7	0.026	0.000017	0.00025	0.0012	0.0014	0.0045
		October		0.00045	0.0023	1.2	0.23	0.000019	0.0022	0.01	2.6	0.00029	0.000017	5.4	0.025	0.000017	0.00024	0.0011	0.0014	0.0042
		November		0.00043	0.0022	1.2	0.22	0.000019	0.0021	0.0095	2.5	0.00028	0.000017	5.2	0.025	0.000016	0.00023	0.0011	0.0013	0.0041
		December		0.00042	0.0022	1.2	0.21	0.000018	0.002	0.0091	2.4	0.00027	0.000016	5.0	0.025	0.000016	0.00022	0.001	0.0013	0.0039
		January	2034	0.0004	0.0021	1.2	0.2	0.000017	0.0019	0.0087	2.3	0.00026	0.000016	4.8	0.025	0.000016	0.00022	0.0010	0.0012	0.0038
		February		0.00038	0.0021	1.2	0.19	0.000017	0.0019	0.0083	2.2	0.00025	0.000016	4.7	0.025	0.000015	0.00021	0.00095	0.0012	0.0037
		March		0.00037	0.002	1.2	0.18	0.000016	0.0018	0.0079	2.2	0.00024	0.000016	4.5	0.025	0.000015	0.00021	0.00091	0.0012	0.0036
		April		0.00035	0.002	1.2	0.17	0.000016	0.0017	0.0075	2.1	0.00023	0.000015	4.3	0.025	0.000015	0.0002	0.00088	0.0011	0.0034
		May		0.00034	0.002	1.2	0.16	0.000015	0.0017	0.0072	2.0	0.00022	0.000015	4.2	0.024	0.000015	0.00019	0.00084	0.0011	0.0033
		June		0.00028	0.0016	0.98	0.13	0.000012	0.0013	0.0059	1.6	0.00018	0.000013	3.4	0.02	0.000012	0.00016	0.00068	0.00092	0.0027
		July		0.0003	0.0017	0.93	0.15	0.000013	0.0014	0.0066	1.8	0.0002	0.000013	3.6	0.019	0.000012	0.00017	0.00075	0.00097	0.0029
		August		0.00044	0.0022	1.1	0.22	0.000019	0.0021	0.0098	2.6	0.00028	0.000017	5.2	0.024	0.000016	0.00023	0.0011	0.0013	0.0041
		September		0.00048	0.0024	1.2	0.25	0.000021	0.0023	0.011	2.8	0.00031	0.000018	5.7	0.025	0.000017	0.00025	0.0012	0.0014	0.0045
		October		0.00045	0.0022	1.1	0.23	0.00002	0.0022	0.01	2.6	0.00029	0.000017	5.4	0.024	0.000017	0.00024	0.0011	0.0014	0.0042
		November		0.00044	0.0022	1.1	0.22	0.000019	0.0021	0.0096	2.5	0.00028	0.000017	5.2	0.024	0.000016	0.00023	0.0011	0.0013	0.0041
		December		0.00042	0.0021	1.1	0.21	0.000018	0.002	0.0091	2.4	0.00027	0.000016	5.0	0.024	0.000016	0.00022	0.001	0.0013	0.0039
		January	2035	0.0004	0.0021	1.1	0.2	0.000017	0.0019	0.0087	2.3	0.00026	0.000016	4.8	0.024	0.000016	0.00022	0.00099	0.0013	0.0038
		February		0.00038	0.0021	1.1	0.19	0.000017	0.0018	0.0083	2.2	0.00025	0.000016	4.6	0.024	0.000015	0.00021	0.00095	0.0012	0.0037
		March		0.00037	0.002	1.1	0.18	0.000016	0.0018	0.0079	2.2	0.00024	0.000016	4.5	0.024	0.000015	0.00021	0.00091	0.0012	0.0036
		April		0.00035	0.002	1.1	0.17	0.000016	0.0017	0.0076	2.1	0.00023	0.000015	4.3	0.024	0.000015	0.0002	0.00087	0.0011	0.0034
		May		0.00034	0.0019	1.1	0.16	0.000015	0.0016	0.0072	2.0	0.00022	0.000015	4.1	0.024	0.000015	0.0002	0.00084	0.0011	0.0033
		June		0.00028	0.0016	0.95	0.13	0.000013	0.0013	0.0059	1.6	0.00018	0.000013	3.4	0.019	0.000012	0.00016	0.00068	0.00093	0.0028
		July		0.00031	0.0016	0.91	0.15	0.000013	0.0014	0.0066	1.8	0.0002	0.000013	3.6	0.019	0.000012	0.00017	0.00075	0.00098	0.0029
		August		0.00044	0.0022	1.1	0.22	0.000019	0.0021	0.0098	2.6	0.00028	0.000017	5.2	0.024	0.000016	0.00023	0.0011	0.0013	0.0041
		September		0.00049	0.0023	1.2	0.25	0.000021	0.0023	0.011	2.8	0.00031	0.000018	5.7	0.025	0.000017	0.00025	0.0012	0.0015	0.0045
		October		0.00046	0.0022	1.1	0.23	0.00002	0.0022	0.01	2.7	0.00029	0.000017	5.4	0.024	0.000017	0.00024	0.0011	0.0014	0.0042
		November		0.00044	0.0022	1.1	0.22	0.000019	0.0021	0.0097	2.6	0.00028	0.000017	5.2	0.024	0.000016	0.00023	0.0011	0.0013	0.0041
		December		0.00042	0.0021	1.1	0.21	0.000018	0.002	0.0092	2.5	0.00027	0.000016	5.0	0.024	0.000016	0.00022	0.0011	0.0013	0.004
		January	2036	0.0004	0.0021	1.1	0.2	0.000018	0.0019	0.0088	2.4	0.00026	0.000016	4.8	0.024	0.000016	0.00022	0.001	0.0013	0.0038
		February		0.00039	0.0021	1.1	0.19	0.000017	0.0019	0.0085	2.3	0.00025	0.000016	4.7	0.024	0.000015	0.00021	0.00097	0.0012	0.0037
		March		0.00037	0.002	1.1	0.18	0.000017	0.0018	0.0081	2.2	0.00024	0.000016	4.5	0.024	0.000015	0.00021	0.00093	0.0012	0.0036
		April		0.00036	0.002	1.1	0.17	0.000016	0.0017	0.0077	2.1	0.00024	0.000015	4.3	0.024	0.000015	0.0002	0.00089	0.0012	0.0035
		May		0.00035	0.0019	1.1	0.17	0.000015	0.0017	0.0074	2.0	0.00023	0.000015	4.2	0.023	0.000015	0.0002	0.00085	0.0011	0.0034
		June		0.00028	0.0016	0.95	0.13	0.000013	0.0013	0.006	1.7	0.00019	0.000013	3.4	0.019	0.000012	0.00017	0.00069	0.00094	0.0028
		July		0.00031	0.0016	0.91	0.15	0.000014	0.0014	0.0067	1.8	0.0002	0.000013	3.6	0.018	0.000013	0.00017	0.00076	0.00099	0.003
		August		0.00045	0.0022	1.1	0.23	0.000019	0.0021	0.0099	2.6	0.00029	0.000017	5.2	0.023	0.000016	0.00023	0.0011	0.0014	0.0041
		September		0.00049	0.0024	1.2	0.25	0.000021	0.0023	0.011	2.8	0.00032	0.000018	5.7	0.025	0.000017	0.00025	0.0012	0.0015	0.0045
		October		0.00047	0.0023	1.1	0.24	0.00002	0.0022	0.01	2.7	0.0003	0.000017	5.4	0.024	0.000017	0.00024	0.0012	0.0014	0.0043
		November		0.00045	0.0022	1.1	0.23	0.000019	0.0021	0.0099	2.6	0.00029	0.000017	5.3	0.024	0.00001				

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)			1400						16		0.3	0.5		0.1				0.002		0.02		0.1	1.0	
CEQG aquatic life (long-term) ² (mg/L)						120	0.12			2.93	0.01	0.1		0.025			1.5	0.00004		0.001		0.002	0.3	
Constituent			TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ⁴	Sb	As ⁵	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁷	Co	Cu ⁸	Fe
LOCATION	Time Period	Month	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Attenuation Pond	Closure	January	35	2.4	16	4.2	0.16	8.2	0.0048	0.097	0.027	0.0001	0.00082	0.021	0.017	0.000031	0.000044	0.056	0.000017	4.4	0.00095	0.0011	0.0022	0.19
		February	35	2.3	16	4.2	0.16	7.9	0.005	0.099	0.027	0.0001	0.00079	0.02	0.016	0.000031	0.000044	0.054	0.000017	4.3	0.00091	0.001	0.0021	0.18
		March	34	2.2	15	4.2	0.15	7.7	0.0052	0.1	0.027	0.0001	0.00076	0.019	0.016	0.00003	0.000044	0.052	0.000016	4.2	0.00088	0.00099	0.0021	0.17
		April	33	2.1	15	4.3	0.15	7.4	0.0054	0.1	0.026	0.0001	0.00073	0.018	0.015	0.00003	0.000045	0.051	0.000016	4.2	0.00085	0.00095	0.002	0.17
		May	32	2.0	14	4.3	0.14	7.2	0.0056	0.11	0.026	0.0001	0.0007	0.017	0.015	0.000029	0.000045	0.049	0.000016	4.1	0.00081	0.00092	0.0019	0.16
		June	26	1.6	12	3.5	0.12	5.8	0.0047	0.083	0.02	0.0001	0.00057	0.014	0.012	0.000025	0.000039	0.04	0.000013	3.4	0.00066	0.00074	0.0016	0.14
		July	27	1.7	12	3.2	0.12	6.2	0.004	0.071	0.02	0.0001	0.00061	0.015	0.013	0.000025	0.000037	0.042	0.000013	3.4	0.00072	0.0008	0.0017	0.15
		August	37	2.6	17	4.0	0.18	8.8	0.0041	0.087	0.028	0.0001	0.00088	0.023	0.018	0.000032	0.000042	0.06	0.000018	4.5	0.001	0.0012	0.0023	0.2
		September	40	2.9	18	4.1	0.19	9.6	0.004	0.09	0.03	0.0001	0.00097	0.025	0.019	0.000034	0.000044	0.065	0.00002	4.8	0.0011	0.0013	0.0026	0.22
		October	38	2.7	17	4.0	0.18	9.1	0.0041	0.087	0.028	0.0001	0.00091	0.024	0.018	0.000032	0.000043	0.061	0.000019	4.6	0.0011	0.0012	0.0024	0.21
		November	37	2.6	17	4.1	0.18	8.8	0.0043	0.09	0.028	0.0001	0.00088	0.022	0.018	0.000032	0.000043	0.059	0.000018	4.5	0.001	0.0012	0.0023	0.2
		December	36	2.5	16	4.1	0.17	8.5	0.0045	0.092	0.027	0.0001	0.00084	0.022	0.017	0.000031	0.000043	0.057	0.000018	4.4	0.00098	0.0011	0.0023	0.19
		January	35	2.3	16	4.1	0.16	8.2	0.0047	0.095	0.027	0.0001	0.00081	0.021	0.017	0.000031	0.000044	0.055	0.000017	4.4	0.00094	0.0011	0.0022	0.19
		February	34	2.3	15	4.2	0.16	7.9	0.0049	0.097	0.027	0.0001	0.00078	0.02	0.016	0.000031	0.000044	0.054	0.000017	4.3	0.00091	0.001	0.0021	0.18
		March	34	2.2	15	4.2	0.15	7.6	0.0051	0.099	0.026	0.0001	0.00075	0.019	0.016	0.00003	0.000044	0.052	0.000016	4.2	0.00088	0.00098	0.002	0.17
		April	33	2.1	15	4.3	0.15	7.4	0.0053	0.1	0.026	0.0001	0.00073	0.018	0.015	0.00003	0.000045	0.05	0.000016	4.2	0.00084	0.00095	0.002	0.17
		May	32	2.0	14	4.3	0.14	7.2	0.0055	0.1	0.026	0.0001	0.0007	0.017	0.015	0.000029	0.000045	0.049	0.000015	4.1	0.00081	0.00091	0.0019	0.16
		June	26	1.6	12	3.5	0.12	5.8	0.0047	0.081	0.02	0.0001	0.00056	0.014	0.012	0.000025	0.000039	0.04	0.000013	3.4	0.00066	0.00073	0.0016	0.14
		July	27	1.7	12	3.3	0.12	6.2	0.004	0.069	0.02	0.0001	0.00061	0.015	0.013	0.000025	0.000037	0.042	0.000013	3.4	0.00071	0.00079	0.0017	0.15
		August	37	2.6	17	4.0	0.18	8.8	0.0041	0.085	0.027	0.0001	0.00088	0.023	0.018	0.000032	0.000042	0.059	0.000018	4.5	0.001	0.0012	0.0023	0.2
		September	40	2.8	18	4.2	0.19	9.6	0.0041	0.088	0.03	0.0001	0.00096	0.025	0.019	0.000034	0.000044	0.065	0.00002	4.8	0.0011	0.0013	0.0025	0.21
		October	38	2.7	17	4.1	0.18	9.0	0.0041	0.085	0.028	0.0001	0.00091	0.023	0.018	0.000032	0.000043	0.061	0.000019	4.6	0.0011	0.0012	0.0024	0.21
		November	37	2.5	17	4.1	0.17	8.7	0.0044	0.088	0.028	0.0001	0.00087	0.022	0.018	0.000032	0.000043	0.059	0.000018	4.5	0.001	0.0011	0.0023	0.2
		December	36	2.4	16	4.2	0.17	8.4	0.0046	0.09	0.027	0.0001	0.00083	0.021	0.017	0.000031	0.000044	0.057	0.000018	4.4	0.00097	0.0011	0.0022	0.19
		January	35	2.3	16	4.2	0.16	8.1	0.0049	0.093	0.027	0.0001	0.0008	0.02	0.016	0.000031	0.000044	0.055	0.000017	4.4	0.00093	0.001	0.0022	0.18
		February	34	2.2	15	4.3	0.16	7.8	0.0051	0.095	0.026	0.0001	0.00077	0.019	0.016	0.00003	0.000044	0.053	0.000017	4.3	0.00089	0.001	0.0021	0.18
		March	33	2.1	15	4.3	0.15	7.5	0.0053	0.097	0.026	0.0001	0.00074	0.018	0.015	0.00003	0.000045	0.051	0.000016	4.2	0.00086	0.00097	0.002	0.17
		April	33	2.0	14	4.4	0.14	7.3	0.0055	0.099	0.025	0.0001	0.00071	0.018	0.015	0.00003	0.000045	0.05	0.000016	4.2	0.00083	0.00093	0.0019	0.16
		May	32	1.9	14	4.4	0.14	7.0	0.0057	0.1	0.025	0.0001	0.00068	0.017	0.015	0.000029	0.000045	0.048	0.000015	4.1	0.00079	0.00089	0.0019	0.16
		June	26	1.5	11	3.6	0.11	5.7	0.0048	0.079	0.019	0.0001	0.00055	0.013	0.012	0.000024	0.000039	0.038	0.000012	3.4	0.0006	0.00071	0.0015	0.12
		July	26	1.7	11	3.5	0.11	6.1	0.0044	0.069	0.018	0.0001	0.00057	0.015	0.012	0.000022	0.000036	0.039	0.000013	3.4	0.00052	0.00074	0.0014	0.12
		August	35	2.6	15	4.4	0.14	8.8	0.005	0.086	0.023	0.0001	0.00082	0.022	0.017	0.000026	0.00004	0.055	0.000018	4.6	0.00063	0.0011	0.0018	0.16
		September	38	2.9	16	4.8	0.15	9.7	0.0052	0.09	0.024	0.0001	0.0009	0.025	0.018	0.000026	0.000041	0.059	0.00002	5.0	0.00065	0.0012	0.0019	0.18
		October	37	2.8	15	4.7	0.15	9.3	0.0051	0.089	0.024	0.0001	0.00086	0.024	0.018	0.000025	0.00004	0.057	0.000019	4.8	0.00061	0.0011	0.0018	0.17
		November	36	2.7	15	4.8	0.14	9.2	0.0053	0.094	0.024	0.0001	0.00085	0.023	0.017	0.000025	0.00004	0.056	0.000019	4.8	0.0006	0.0011	0.0018	0.16
		December	36	2.7	15	4.9	0.14	9.1	0.0055	0.098	0.024	0.0001	0.00083											

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025		0.0008		0.015		0.007	
Constituent				Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Attenuation Pond	Closure	January	2038	0.00042	0.0021	1.1	0.21	0.000018	0.002	0.0092	2.4	0.00027	0.000016	4.9	0.023	0.000016	0.00022	0.001	0.0013	0.0039
		February		0.00041	0.0021	1.1	0.2	0.000018	0.0019	0.0089	2.4	0.00026	0.000016	4.8	0.023	0.000016	0.00022	0.001	0.0013	0.0038
		March		0.00039	0.002	1.1	0.19	0.000017	0.0018	0.0085	2.3	0.00025	0.000016	4.6	0.023	0.000015	0.00021	0.00097	0.0012	0.0037
		April		0.00038	0.002	1.1	0.18	0.000017	0.0018	0.0082	2.2	0.00025	0.000016	4.5	0.023	0.000015	0.00021	0.00093	0.0012	0.0036
		May		0.00036	0.002	1.1	0.18	0.000016	0.0017	0.0079	2.1	0.00024	0.000015	4.3	0.023	0.000015	0.0002	0.00089	0.0012	0.0035
		June		0.0003	0.0016	0.91	0.14	0.000013	0.0014	0.0063	1.7	0.00019	0.000013	3.5	0.019	0.000013	0.00017	0.00072	0.00097	0.0029
		July		0.00032	0.0017	0.88	0.16	0.000014	0.0015	0.0069	1.8	0.0002	0.000013	3.7	0.018	0.000013	0.00017	0.00077	0.001	0.003
		August		0.00045	0.0022	1.1	0.23	0.000019	0.0021	0.01	2.6	0.00029	0.000017	5.3	0.023	0.000016	0.00023	0.0011	0.0014	0.0042
		September		0.0005	0.0024	1.1	0.25	0.000021	0.0023	0.011	2.9	0.00032	0.000018	5.8	0.024	0.000017	0.00025	0.0012	0.0015	0.0046
		October		0.00047	0.0023	1.1	0.24	0.00002	0.0022	0.01	2.7	0.0003	0.000017	5.5	0.024	0.000017	0.00024	0.0012	0.0014	0.0043
		November		0.00045	0.0022	1.1	0.23	0.000019	0.0021	0.010	2.6	0.00029	0.000017	5.3	0.023	0.000016	0.00024	0.0011	0.0014	0.0042
		December		0.00043	0.0022	1.1	0.22	0.000019	0.0021	0.0096	2.5	0.00028	0.000017	5.1	0.023	0.000016	0.00023	0.0011	0.0013	0.0041
		January	2039	0.00042	0.0021	1.1	0.21	0.000018	0.002	0.0092	2.4	0.00027	0.000016	4.9	0.023	0.000016	0.00022	0.001	0.0013	0.0039
		February		0.0004	0.0021	1.1	0.2	0.000018	0.0019	0.0088	2.4	0.00026	0.000016	4.8	0.023	0.000016	0.00022	0.0010	0.0013	0.0038
		March		0.00039	0.002	1.1	0.19	0.000017	0.0018	0.0085	2.3	0.00025	0.000016	4.6	0.023	0.000015	0.00021	0.00096	0.0012	0.0037
		April		0.00038	0.002	1.1	0.18	0.000017	0.0018	0.0081	2.2	0.00024	0.000016	4.5	0.023	0.000015	0.00021	0.00092	0.0012	0.0036
		May		0.00036	0.002	1.1	0.18	0.000016	0.0017	0.0078	2.1	0.00024	0.000015	4.3	0.023	0.000015	0.0002	0.00089	0.0012	0.0035
		June		0.00029	0.0016	0.92	0.14	0.000013	0.0014	0.0063	1.7	0.00019	0.000013	3.5	0.019	0.000013	0.00017	0.00071	0.00097	0.0029
		July		0.00032	0.0017	0.89	0.15	0.000014	0.0015	0.0069	1.8	0.0002	0.000013	3.7	0.018	0.000013	0.00017	0.00077	0.001	0.003
		August		0.00045	0.0022	1.1	0.23	0.000019	0.0021	0.01	2.6	0.00029	0.000017	5.3	0.023	0.000016	0.00023	0.0011	0.0014	0.0042
		September		0.00049	0.0024	1.1	0.25	0.000021	0.0023	0.011	2.9	0.00032	0.000018	5.8	0.025	0.000017	0.00025	0.0012	0.0015	0.0045
		October		0.00047	0.0023	1.1	0.24	0.00002	0.0022	0.01	2.7	0.0003	0.000017	5.4	0.024	0.000017	0.00024	0.0012	0.0014	0.0043
		November		0.00045	0.0022	1.1	0.23	0.000019	0.0021	0.0099	2.6	0.00029	0.000017	5.2	0.023	0.000016	0.00023	0.0011	0.0014	0.0042
		December		0.00043	0.0022	1.1	0.22	0.000019	0.002	0.0095	2.5	0.00028	0.000017	5.1	0.023	0.000016	0.00023	0.0011	0.0013	0.004
		January	2040	0.00041	0.0021	1.1	0.21	0.000018	0.002	0.0091	2.4	0.00027	0.000016	4.9	0.023	0.000016	0.00022	0.001	0.0013	0.0039
		February		0.0004	0.0021	1.1	0.2	0.000017	0.0019	0.0087	2.3	0.00026	0.000016	4.7	0.023	0.000016	0.00022	0.00098	0.0012	0.0038
		March		0.00038	0.002	1.1	0.19	0.000017	0.0018	0.0083	2.2	0.00025	0.000016	4.5	0.023	0.000015	0.00021	0.00094	0.0012	0.0037
		April		0.00037	0.002	1.1	0.18	0.000016	0.0017	0.008	2.2	0.00024	0.000016	4.4	0.023	0.000015	0.00021	0.00091	0.0012	0.0036
		May		0.00035	0.002	1.1	0.17	0.000016	0.0017	0.0076	2.1	0.00023	0.000015	4.2	0.023	0.000015	0.0002	0.00087	0.0012	0.0034
		June		0.00028	0.0016	0.92	0.14	0.000013	0.0013	0.0061	1.7	0.00019	0.000013	3.3	0.019	0.000012	0.00017	0.00069	0.00093	0.0028
		July		0.00027	0.0016	0.9	0.15	0.000013	0.0015	0.0067	1.8	0.00019	0.000012	3.1	0.019	0.000012	0.00017	0.00073	0.00091	0.0028
		August		0.00036	0.0021	1.1	0.23	0.000017	0.0022	0.0098	2.6	0.00027	0.000015	4.1	0.024	0.000016	0.00023	0.0011	0.0012	0.0039
		September		0.00039	0.0022	1.2	0.26	0.000019	0.0024	0.011	2.8	0.0003	0.000016	4.4	0.026	0.000017	0.00025	0.0012	0.0013	0.0042
		October		0.00037	0.0021	1.2	0.24	0.000018	0.0023	0.01	2.7	0.00028	0.000016	4.2	0.026	0.000016	0.00024	0.0011	0.0012	0.0041
		November		0.00037	0.0021	1.2	0.24	0.000018	0.0023	0.01	2.7	0.00028	0.000015	4.1	0.026	0.000016	0.00023	0.0011	0.0012	0.004
		December		0.00036	0.0021	1.2	0.24	0.000017	0.0023	0.010	2.7	0.00027	0.000015	4.1	0.026	0.000016	0.00023	0.0011	0.0012	0.004
		January	2041	0.00036	0.0021	1.2	0.23	0.000017	0.0022	0.0098	2.6	0.00027	0.000015	4.1	0.026	0.000016	0.00023	0.0011	0.0012	0.0039
		February		0.00035	0.0021	1.2	0.23	0.000017	0.0022	0.0096	2.6	0.00027	0.000015	4.0	0.026	0.000016	0.00023	0.0011	0.0012	0.0039
		March		0.00035	0.0021	1.2	0.22	0.000017	0.0022	0.0095	2.5	0.00026	0.000015	4.0	0.026	0.000016	0.00022	0.001	0.0012	0.0038
		April		0.00034	0.0021	1.2	0.22	0.000017	0.0022	0.0093	2.5	0.00026	0.000015	3.9	0.026	0.000015	0.00022	0.001	0.0011	0.0038
		May		0.00034	0.0021	1.2	0.22	0.000016	0.0021	0.0091	2.5	0.00026	0.000015	3.9	0.026	0.000015	0.00022	0.001	0.0011	0.0037
		June		0.00023	0.0018	1.1	0.12	0.000013	0.0014	0.0057	1.9	0.0002	0.000014	2.8	0.025	0.000014	0.00018	0.00067	0.00097	0.0029
		July		0.000018	0.00024	0.15	0.0051	0.0000018	0.0002	0.00035	0.28	0.000027	0.0000019	0.23	0.0033	0.000002	0.000026	0.000095	0.00014	0.0004
		August		0.000044	0.00059	0.37	0.012	0.0000047	0.00051	0.00083	0.71	0.000067	0.0000046	0.55	0.0083	0.0000051	0.000065	0.00024	0.00036	0.001
		September		0.000064	0.0008	0.52	0.017	0.0000058	0.00059	0.0012	0.88	0.000087	0.0000066	0.81	0.012	0.0000069	0.000083	0.00028	0.00046	0.0013
		October		0.00008	0.00094	0.63	0.021	0.0000063	0.00058	0.0015	0.94	0.0001	0.0000081	1.0	0.014	0.0000082	0.000094	0.00028	0.00053	0.0014
		November		0.000089	0.001	0.69	0.024	0.0000066	0.00059	0.0017	0.98	0.00								

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)			1400						16		0.3	0.5		0.1				0.002		0.02		0.1	1.0	
CEQG aquatic life (long-term) ² (mg/L)						120	0.12			2.93	0.01	0.1		0.025			1.5	0.00004		0.001		0.002	0.3	
Constituent			TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ⁴	Sb	As ⁵	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁷	Co	Cu ⁶	Fe
LOCATION	Time Period	Month	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Attenuation Pond	Closure, fully flooded pit	January	3.9	0.073	1.6	0.87	0.011	0.58	0.0034	0.015	0.00082	0.0001	0.000052	0.0008	0.0014	0.0000063	0.000015	0.0035	0.0000017	0.73	0.000039	0.00004	0.00017	0.0067
		February	3.9	0.073	1.6	0.87	0.011	0.58	0.0034	0.015	0.00082	0.0001	0.000052	0.0008	0.0014	0.0000063	0.000015	0.0035	0.0000017	0.73	0.000039	0.00004	0.00017	0.0067
		March	3.9	0.073	1.6	0.87	0.011	0.58	0.0034	0.015	0.00082	0.0001	0.000052	0.0008	0.0014	0.0000063	0.000015	0.0035	0.0000017	0.73	0.000039	0.00004	0.00017	0.0067
		April	3.9	0.073	1.6	0.87	0.011	0.58	0.0034	0.015	0.00082	0.0001	0.000052	0.0008	0.0014	0.0000063	0.000015	0.0035	0.0000017	0.73	0.000039	0.00004	0.00017	0.0067
		May	3.9	0.073	1.6	0.87	0.011	0.58	0.0034	0.015	0.00082	0.0001	0.000052	0.0008	0.0014	0.0000063	0.000015	0.0035	0.0000017	0.73	0.000039	0.00004	0.00017	0.0067
		June	6.8	0.053	2.9	1.6	0.018	0.94	0.0045	0.011	0.0014	0.0001	0.000075	0.00055	0.0026	0.000012	0.00003	0.0063	0.0000031	1.3	0.000068	0.000066	0.00031	0.012
		July	9.1	0.083	3.9	2.2	0.024	1.3	0.0053	0.0077	0.0018	0.0001	0.0001	0.00054	0.0035	0.000017	0.000041	0.0083	0.0000042	1.8	0.000089	0.000089	0.00041	0.015
		August	9.6	0.14	4.1	2.2	0.027	1.4	0.0054	0.0076	0.0018	0.0001	0.00012	0.00074	0.0037	0.000017	0.000042	0.0086	0.0000044	1.9	0.000093	0.000095	0.00043	0.016
		September	10	0.16	4.3	2.3	0.028	1.5	0.0055	0.0073	0.0019	0.0001	0.00012	0.00079	0.0039	0.000018	0.000044	0.0089	0.0000046	2.0	0.000097	0.000099	0.00045	0.017
		October	10	0.14	4.4	2.4	0.028	1.5	0.0056	0.0069	0.0019	0.0001	0.00012	0.00072	0.004	0.000018	0.000045	0.0091	0.0000047	2.0	0.000099	0.0001	0.00046	0.017
		November	10	0.14	4.4	2.4	0.028	1.5	0.0056	0.0069	0.0019	0.0001	0.00012	0.00072	0.004	0.000018	0.000045	0.0091	0.0000047	2.0	0.000099	0.0001	0.00046	0.017
		December	10	0.14	4.4	2.4	0.028	1.5	0.0056	0.0069	0.0019	0.0001	0.00012	0.00072	0.004	0.000018	0.000045	0.0091	0.0000047	2.0	0.000099	0.0001	0.00046	0.017
		January	10	0.14	4.4	2.4	0.028	1.5	0.0056	0.0069	0.0019	0.0001	0.00012	0.00072	0.004	0.000018	0.000045	0.0091	0.0000047	2.0	0.000099	0.0001	0.00046	0.017
		February	10	0.14	4.4	2.4	0.028	1.5	0.0056	0.0069	0.0019	0.0001	0.00012	0.00072	0.004	0.000018	0.000045	0.0091	0.0000047	2.0	0.000099	0.0001	0.00046	0.017
		March	10	0.14	4.4	2.4	0.028	1.5	0.0056	0.0069	0.0019	0.0001	0.00012	0.00072	0.004	0.000018	0.000045	0.0091	0.0000047	2.0	0.000099	0.0001	0.00046	0.017
		April	10	0.14	4.4	2.4	0.028	1.5	0.0056	0.0069	0.0019	0.0001	0.00012	0.00072	0.004	0.000018	0.000045	0.0091	0.0000047	2.0	0.000099	0.0001	0.00046	0.017
		May	10	0.14	4.4	2.4	0.028	1.5	0.0056	0.0069	0.0019	0.0001	0.00012	0.00072	0.004	0.000018	0.000045	0.0091	0.0000047	2.0	0.000099	0.0001	0.00046	0.017
		June	10	0.092	4.5	2.5	0.028	1.4	0.0058	0.0062	0.002	0.0001	0.00011	0.00051	0.004	0.000019	0.000047	0.0094	0.0000048	2.0	0.0001	0.0001	0.00047	0.018
		July	11	0.10	4.6	2.5	0.029	1.5	0.0059	0.0057	0.0021	0.0001	0.00012	0.00052	0.0042	0.000019	0.000048	0.0097	0.0000049	2.1	0.0001	0.0001	0.00048	0.018
		August	11	0.16	4.8	2.6	0.031	1.6	0.0059	0.0057	0.0021	0.0001	0.00013	0.00073	0.0043	0.00002	0.000049	0.0099	0.0000051	2.2	0.00011	0.00011	0.0005	0.019
		September	11	0.17	4.8	2.6	0.031	1.6	0.006	0.0057	0.0021	0.0001	0.00014	0.00077	0.0044	0.00002	0.000049	0.010	0.0000052	2.2	0.00011	0.00011	0.0005	0.019
		October	11	0.15	4.8	2.6	0.031	1.6	0.006	0.0056	0.0021	0.0001	0.00013	0.00071	0.0043	0.00002	0.000049	0.010	0.0000051	2.2	0.00011	0.00011	0.0005	0.019
		November	11	0.15	4.8	2.6	0.031	1.6	0.006	0.0056	0.0021	0.0001	0.00013	0.00071	0.0043	0.00002	0.000049	0.010	0.0000051	2.2	0.00011	0.00011	0.0005	0.019
		December	11	0.15	4.8	2.6	0.031	1.6	0.006	0.0056	0.0021	0.0001	0.00013	0.00071	0.0043	0.00002	0.000049	0.010	0.0000051	2.2	0.00011	0.00011	0.0005	0.019
		January	11	0.15	4.8	2.6	0.031	1.6	0.006	0.0056	0.0021	0.0001	0.00013	0.00071	0.0043	0.00002	0.000049	0.010	0.0000051	2.2	0.00011	0.00011	0.0005	0.019
		February	11	0.15	4.8	2.6	0.031	1.6	0.006	0.0056	0.0021	0.0001	0.00013	0.00071	0.0043	0.00002	0.000049	0.010	0.0000051	2.2	0.00011	0.00011	0.0005	0.019
		March	11	0.15	4.8	2.6	0.031	1.6	0.006	0.0056	0.0021	0.0001	0.00013	0.00071	0.0043	0.00002	0.000049	0.010	0.0000051	2.2	0.00011	0.00011	0.0005	0.019
		April	11	0.15	4.8	2.6	0.031	1.6	0.006	0.0056	0.0021	0.0001	0.00013	0.00071	0.0043	0.00002	0.000049	0.010	0.0000051	2.2	0.00011	0.00011	0.0005	0.019
		May	11	0.15	4.8	2.6	0.031	1.6	0.006	0.0056	0.0021	0.0001	0.00013	0.00071	0.0043	0.00002	0.000049	0.010	0.0000051	2.2	0.00011	0.00011	0.0005	0.019
		June	11	0.098	4.7	2.6	0.029	1.5	0.006	0.0055	0.0021	0.0001	0.00012	0.0005	0.0042	0.00002	0.000049	0.0099	0.0000051	2.1	0.00011	0.00011	0.0005	0.018
		July	11	0.1	4.7	2.6	0.029	1.5	0.0059	0.0053	0.0021	0.0001	0.00012	0.00052	0.0042	0.00002	0.000049	0.0099	0.0000051	2.1	0.00011	0.00011	0.0005	0.018
		August	11	0.16	4.9	2.6	0.031	1.6	0.006	0.0054	0.0021	0.0001	0.00014	0.00072	0.0044	0.00002	0.00005	0.01	0.0000052	2.2	0.00011	0.00011	0.00051	0.019
		September	11	0.17	4.9	2.7	0.032	1.7	0.006	0.0054	0.0022	0.0001	0.00014	0.00077	0.0044	0.00002	0.00005	0.01	0.0000053	2.2	0.00011	0.00011	0.00051	0.019
		October	11	0.16	4.9	2.7	0.031	1.6</																

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05					0.004		0.25								0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.001					0.000026	0.073	0.025		0.001	0.00025		0.0008		0.015	0.007	
Constituent				Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Attenuation Pond	Closure, fully flooded pit	January	2043	0.00002	0.00034	0.24	0.0015	0.0000019	0.00007	0.00026	0.19	0.000021	0.0000032	0.21	0.0047	0.0000033	0.000034	0.000036	0.00018	0.00041
		February		0.00002	0.00034	0.24	0.0015	0.0000019	0.00007	0.00026	0.19	0.000021	0.0000032	0.21	0.0047	0.0000033	0.000034	0.000036	0.00018	0.00041
		March		0.00002	0.00034	0.24	0.0015	0.0000019	0.00007	0.00026	0.19	0.000021	0.0000032	0.21	0.0047	0.0000033	0.000034	0.000036	0.00018	0.00041
		April		0.00002	0.00034	0.24	0.0015	0.0000019	0.00007	0.00026	0.19	0.000021	0.0000032	0.21	0.0047	0.0000033	0.000034	0.000036	0.00018	0.00041
		May		0.00002	0.00034	0.24	0.0015	0.0000019	0.00007	0.00026	0.19	0.000021	0.0000032	0.21	0.0047	0.0000033	0.000034	0.000036	0.00018	0.00041
		June		0.000035	0.00062	0.45	0.0016	0.0000033	0.000069	0.00043	0.29	0.000034	0.0000061	0.36	0.0087	0.0000062	0.000063	0.000039	0.00032	0.00073
		July		0.000047	0.00085	0.6	0.0017	0.0000045	0.0001	0.00055	0.4	0.000046	0.0000083	0.47	0.012	0.0000084	0.000086	0.000057	0.00043	0.00099
		August		0.000049	0.00088	0.63	0.0019	0.0000049	0.00015	0.00058	0.45	0.000049	0.0000085	0.48	0.012	0.0000087	0.000091	0.000078	0.00046	0.0011
		September		0.000051	0.00092	0.65	0.0019	0.0000051	0.00016	0.0006	0.48	0.000052	0.0000089	0.5	0.013	0.0000091	0.000096	0.000085	0.00048	0.0011
		October		0.000052	0.00094	0.67	0.0019	0.0000052	0.00015	0.00061	0.48	0.000052	0.0000091	0.51	0.013	0.0000093	0.000097	0.000081	0.00049	0.0011
		November		0.000052	0.00094	0.67	0.0019	0.0000052	0.00015	0.00061	0.48	0.000052	0.0000091	0.51	0.013	0.0000093	0.000097	0.000081	0.00049	0.0011
		December		0.000052	0.00094	0.67	0.0019	0.0000052	0.00015	0.00061	0.48	0.000052	0.0000091	0.51	0.013	0.0000093	0.000097	0.000081	0.00049	0.0011
		January	2044	0.000052	0.00094	0.67	0.0019	0.0000052	0.00015	0.00061	0.48	0.000052	0.0000091	0.51	0.013	0.0000093	0.000097	0.000081	0.00049	0.0011
		February		0.000052	0.00094	0.67	0.0019	0.0000052	0.00015	0.00061	0.48	0.000052	0.0000091	0.51	0.013	0.0000093	0.000097	0.000081	0.00049	0.0011
		March		0.000052	0.00094	0.67	0.0019	0.0000052	0.00015	0.00061	0.48	0.000052	0.0000091	0.51	0.013	0.0000093	0.000097	0.000081	0.00049	0.0011
		April		0.000052	0.00094	0.67	0.0019	0.0000052	0.00015	0.00061	0.48	0.000052	0.0000091	0.51	0.013	0.0000093	0.000097	0.000081	0.00049	0.0011
		May		0.000052	0.00094	0.67	0.0019	0.0000052	0.00015	0.00061	0.48	0.000052	0.0000091	0.51	0.013	0.0000093	0.000097	0.000081	0.00049	0.0011
		June		0.000053	0.00096	0.69	0.0018	0.0000051	0.00012	0.00062	0.45	0.000052	0.0000094	0.53	0.013	0.0000096	0.000098	0.000064	0.00049	0.0011
		July		0.000055	0.00099	0.71	0.0018	0.0000053	0.00012	0.00064	0.47	0.000053	0.0000097	0.54	0.014	0.0000099	0.0001	0.000068	0.00051	0.0012
		August		0.000056	0.001	0.73	0.002	0.0000056	0.00017	0.00066	0.52	0.000057	0.0000099	0.55	0.014	0.00001	0.00011	0.000088	0.00053	0.0012
		September		0.000057	0.001	0.74	0.002	0.0000057	0.00018	0.00067	0.53	0.000058	0.00001	0.56	0.014	0.00001	0.00011	0.000093	0.00054	0.0013
		October		0.000057	0.001	0.74	0.002	0.0000057	0.00016	0.00066	0.52	0.000057	0.00001	0.56	0.014	0.00001	0.00011	0.000087	0.00053	0.0012
		November		0.000057	0.001	0.74	0.002	0.0000057	0.00016	0.00066	0.52	0.000057	0.00001	0.56	0.014	0.00001	0.00011	0.000087	0.00053	0.0012
		December		0.000057	0.001	0.74	0.002	0.0000057	0.00016	0.00066	0.52	0.000057	0.00001	0.56	0.014	0.00001	0.00011	0.000087	0.00053	0.0012
		January	2045	0.000057	0.001	0.74	0.002	0.0000057	0.00016	0.00066	0.52	0.000057	0.00001	0.56	0.014	0.00001	0.00011	0.000087	0.00053	0.0012
		February		0.000057	0.001	0.74	0.002	0.0000057	0.00016	0.00066	0.52	0.000057	0.00001	0.56	0.014	0.00001	0.00011	0.000087	0.00053	0.0012
		March		0.000057	0.001	0.74	0.002	0.0000057	0.00016	0.00066	0.52	0.000057	0.00001	0.56	0.014	0.00001	0.00011	0.000087	0.00053	0.0012
		April		0.000057	0.001	0.74	0.002	0.0000057	0.00016	0.00066	0.52	0.000057	0.00001	0.56	0.014	0.00001	0.00011	0.000087	0.00053	0.0012
		May		0.000057	0.001	0.74	0.002	0.0000057	0.00016	0.00066	0.52	0.000057	0.00001	0.56	0.014	0.00001	0.00011	0.000087	0.00053	0.0012
		June		0.000056	0.001	0.73	0.0018	0.0000054	0.00012	0.00065	0.47	0.000054	0.000010	0.55	0.014	0.00001	0.0001	0.000068	0.00052	0.0012
		July		0.000056	0.001	0.73	0.0018	0.0000054	0.00013	0.00065	0.48	0.000054	0.000010	0.55	0.014	0.00001	0.0001	0.000069	0.00052	0.0012
		August		0.000058	0.001	0.74	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.56	0.014	0.00001	0.00011	0.00009	0.00054	0.0013
		September		0.000058	0.0011	0.75	0.002	0.0000058	0.00018	0.00068	0.54	0.000059	0.00001	0.57	0.015	0.00001	0.00011	0.000095	0.00055	0.0013
		October		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013
		November		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013
		December		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013
		January	2046	0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013
		February		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013
		March		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013
		April		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013
		May		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013
		June		0.000057	0.001	0.73	0.0018	0.0000055	0.00012	0.00066	0.48	0.000055	0.00001	0.56	0.014	0.00001	0.0001	0.000068	0.00052	0.0012
		July		0.000056	0.001	0.73	0.0018	0.0000054	0.00013	0.00066	0.48	0.000055	0.000010	0.55	0.014	0.00001	0.0001	0.00007	0.00052	0.0012
		August		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.00009	0.00054	0.0013
		September		0.000058	0.0011	0.75	0.002	0.0000059	0.00018	0.00068	0.54	0.000059	0.00001	0.57	0.015	0.000011	0.00011	0.000095	0.00055	0.0013
		October		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067										

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3
Constituent		TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁵	Ca	Cr ⁵	Co	Cu ⁶	Fe		
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Whale Tail Attenuation Pond	Closure, fully flooded pit	January	2048	11	0.16	4.9	2.7	0.031	1.6	0.006	0.0053	0.0021	0.0001	0.00014	0.00071	0.0044	0.00002	0.00005	0.01	0.0000052	2.2	0.00011	0.00011	0.00051	0.019
		February		11	0.16	4.9	2.7	0.031	1.6	0.006	0.0053	0.0021	0.0001	0.00014	0.00071	0.0044	0.00002	0.00005	0.01	0.0000052	2.2	0.00011	0.00011	0.00051	0.019
		March		11	0.16	4.9	2.7	0.031	1.6	0.006	0.0053	0.0021	0.0001	0.00014	0.00071	0.0044	0.00002	0.00005	0.01	0.0000052	2.2	0.00011	0.00011	0.00051	0.019
		April		11	0.16	4.9	2.7	0.031	1.6	0.006	0.0053	0.0021	0.0001	0.00014	0.00071	0.0044	0.00002	0.00005	0.01	0.0000052	2.2	0.00011	0.00011	0.00051	0.019
		May		11	0.16	4.9	2.7	0.031	1.6	0.006	0.0053	0.0021	0.0001	0.00014	0.00071	0.0044	0.00002	0.00005	0.01	0.0000052	2.2	0.00011	0.00011	0.00051	0.019
		June		11	0.099	4.7	2.6	0.029	1.5	0.006	0.0053	0.0021	0.0001	0.00012	0.0005	0.0043	0.00002	0.00005	0.01	0.0000051	2.2	0.00011	0.00011	0.0005	0.019
		July		11	0.1	4.7	2.6	0.029	1.5	0.006	0.0052	0.0021	0.0001	0.00012	0.00052	0.0043	0.00002	0.000049	0.010	0.0000051	2.1	0.00011	0.00011	0.0005	0.018
		August		11	0.16	4.9	2.7	0.031	1.6	0.006	0.0053	0.0021	0.0001	0.00014	0.00072	0.0044	0.00002	0.00005	0.01	0.0000052	2.2	0.00011	0.00011	0.00051	0.019
		September		11	0.17	4.9	2.7	0.032	1.7	0.006	0.0053	0.0022	0.0001	0.00014	0.00077	0.0044	0.00002	0.00005	0.01	0.0000053	2.2	0.00011	0.00011	0.00051	0.019
		October		11	0.16	4.9	2.7	0.031	1.6	0.006	0.0053	0.0021	0.0001	0.00014	0.00071	0.0044	0.00002	0.00005	0.01	0.0000052	2.2	0.00011	0.00011	0.00051	0.019
		November		11	0.16	4.9	2.7	0.031	1.6	0.006	0.0053	0.0021	0.0001	0.00014	0.00071	0.0044	0.00002	0.00005	0.01	0.0000052	2.2	0.00011	0.00011	0.00051	0.019
		December		11	0.16	4.9	2.7	0.031	1.6	0.006	0.0053	0.0021	0.0001	0.00014	0.00071	0.0044	0.00002	0.00005	0.01	0.0000052	2.2	0.00011	0.00011	0.00051	0.019
		January	2049	11	0.16	4.9	2.7	0.031	1.6	0.006	0.0053	0.0021	0.0001	0.00014	0.00071	0.0044	0.00002	0.00005	0.01	0.0000052	2.2	0.00011	0.00011	0.00051	0.019
		February		11	0.16	4.9	2.7	0.031	1.6	0.006	0.0053	0.0021	0.0001	0.00014	0.00071	0.0044	0.00002	0.00005	0.01	0.0000052	2.2	0.00011	0.00011	0.00051	0.019
		March		11	0.16	4.9	2.7	0.031	1.6	0.006	0.0053	0.0021	0.0001	0.00014	0.00071	0.0044	0.00002	0.00005	0.01	0.0000052	2.2	0.00011	0.00011	0.00051	0.019
		April		11	0.16	4.9	2.7	0.031	1.6	0.006	0.0053	0.0021	0.0001	0.00014	0.00071	0.0044	0.00002	0.00005	0.01	0.0000052	2.2	0.00011	0.00011	0.00051	0.019
		May		11	0.16	4.9	2.7	0.031	1.6	0.006	0.0053	0.0021	0.0001	0.00014	0.00071	0.0044	0.00002	0.00005	0.01	0.0000052	2.2	0.00011	0.00011	0.00051	0.019
		June		11	0.099	4.7	2.6	0.029	1.5	0.006	0.0053	0.0021	0.0001	0.00012	0.0005	0.0043	0.00002	0.00005	0.01	0.0000051	2.2	0.00011	0.00011	0.0005	0.019
		July		11	0.1	4.7	2.6	0.029	1.5	0.006	0.0052	0.0021	0.0001	0.00012	0.00052	0.0043	0.00002	0.000049	0.010	0.0000051	2.1	0.00011	0.00011	0.0005	0.018
		August		11	0.16	4.9	2.7	0.031	1.6	0.006	0.0053	0.0021	0.0001	0.00014	0.00072	0.0044	0.00002	0.00005	0.01	0.0000052	2.2	0.00011	0.00011	0.00051	0.019
		September		11	0.17	4.9	2.7	0.032	1.7	0.006	0.0053	0.0022	0.0001	0.00014	0.00077	0.0044	0.00002	0.00005	0.01	0.0000053	2.2	0.00011	0.00011	0.00051	0.019
		October		11	0.16	4.9	2.7	0.031	1.6	0.006	0.0053	0.0021	0.0001	0.00014	0.00071	0.0044	0.00002	0.00005	0.01	0.0000052	2.2	0.00011	0.00011	0.00051	0.019
		November		11	0.16	4.9	2.7	0.031	1.6	0.006	0.0053	0.0021	0.0001	0.00014	0.00071	0.0044	0.00002	0.00005	0.01	0.0000052	2.2	0.00011	0.00011	0.00051	0.019
		December		11	0.16	4.9	2.7	0.031	1.6	0.006	0.0053	0.0021	0.0001	0.00014	0.00071	0.0044	0.00002	0.00005	0.01	0.0000052	2.2	0.00011	0.00011	0.00051	0.019
	January	≥2050	12	0.15	5.2	2.9	0.033	1.7	0.0065	0.0057	0.0025	0.0001	0.00014	0.0007	0.0047	0.000022	0.000054	0.011	0.0000056	2.4	0.00012	0.00012	0.00051	0.019	
	February		12	0.15	5.2	2.9	0.033	1.7	0.0065	0.0057	0.0025	0.0001	0.00014	0.0007	0.0047	0.000022	0.000054	0.011	0.0000056	2.4	0.00012	0.00012	0.00051	0.019	
	March		12	0.15	5.2	2.9	0.033	1.7	0.0065	0.0057	0.0025	0.0001	0.00014	0.0007	0.0047	0.000022	0.000054	0.011	0.0000056	2.4	0.00012	0.00012	0.00051	0.019	
	April		12	0.15	5.2	2.9	0.033	1.7	0.0065	0.0057	0.0025	0.0001	0.00014	0.0007	0.0047	0.000022	0.000054	0.011	0.0000056	2.4	0.00012	0.00012	0.00051	0.019	
	May		12	0.15	5.2	2.9	0.033	1.7	0.0065	0.0057	0.0025	0.0001	0.00014	0.0007	0.0047	0.000022	0.000054	0.011	0.0000056	2.4	0.00012	0.00012	0.00051	0.019	
	June		12	0.096	5.1	2.8	0.031	1.6	0.0064	0.0057	0.0024	0.0001	0.00013	0.0005	0.0046	0.000022	0.000053	0.011	0.0000055	2.3	0.00011	0.00011	0.0005	0.019	
	July		12	0.10	5.0	2.8	0.031	1.6	0.0064	0.0056	0.0024	0.0001	0.00013	0.00052	0.0046	0.000021	0.000053	0.011	0.0000054	2.3	0.00011	0.00011	0.0005	0.018	
	August		12	0.16	5.2	2.8	0.033	1.7	0.0064	0.0057	0.0025	0.0001	0.00014	0.00072	0.0047	0.000022	0.000054	0.011	0.0000056	2.4	0.00012	0.00012	0.00051	0.019	
	September		12	0.17	5.3	2.9	0.034	1.8	0.0065	0.0057	0.0025	0.0001	0.00015	0.00076	0.0047	0.000022	0.000054	0.011	0.0000056	2.4	0.00012	0.00012	0.00051	0.019	
	October		12	0.15	5.2	2.9	0.033	1.7	0.0065	0.0057	0.0025	0.0001	0.00014	0.0007	0.0047	0.000022	0.000054	0.011	0.0000056	2.4	0.00012	0.00012	0.00051	0.019	
	November		12	0.15	5.2	2.9	0.033	1.7	0.0065	0.0057	0.0025	0.0001	0.00014	0.0007	0.0047	0.000022	0.000054	0.011	0.0000056	2.4	0.00012	0.00012	0.00051	0.019	
	December		12	0.15	5.2	2.9	0.033	1.7	0.0065	0.0057	0.0025	0.0001	0.00014	0.0007	0.0047	0.000022	0.000054	0.011	0.0000056	2.4	0.00012	0.00012	0.00051	0.019	
	Closure Period		MINIMUM	3.5	0.053	1.2	0.65	0.01	0.58	0.0034	0.0052	0.00082	0.0001	0.000052	0.0005	0.0011	0.0000033	0.0000069	0.0032	0.0000012	0.55	0.000038	0.00004	0.00012	0.0066
			MAXIMUM	26	0.95	8.9	5.1	0.063	4.5	0.069	0.53	0.0087	0.0001	0.00051	0.023	0.0081	0.000025	0.000055	0.027	0.0000086	4.0	0.00033	0.00033	0.00094	0.055
			AVERAGE	11	0.18	4.6	2.5	0.03	1.6	0.0089	0.033	0.0023	0.00010	0.00014	0.0018	0.0042	0.000019	0.000046	0.01	0.0000049	2.1	0.00011	0.00011	0.00048	0.019
			MAXIMUM (total)	26	0.95	8.9	5.1	0.066	4.5	0.069	0.53	0.02	0.33	0.00053	0.026	0.011	0.000032	0.000057	0.027	0.00001	4.3	0.0085	0.0008	0.0014	0.75
			AVERAGE (total)	11	0.18	4.6	2.5	0.033	1.7	0.0089	0.033	0.014	0.33	0.00016	0.0054	0.0075	0.000026	0.000048	0.01	0.0000066	2.4	0.0083	0.00059	0.00098	0.72

Notes:

¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells

²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater Ceqg's shown in bold-underlined type

³ Ceqg Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed

⁴ Ceqg Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.

⁵ Ceqg Freshwater aquatic life criteria for chromium depends on the valence of chromium ion. In the above table, the Cr(VI) criterion of 0.001 mg/L is shown.

⁶ Ceqg Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 30 mg/L.

⁷ The Ceqg aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)			0.05					0.004		0.25									0.1		
CEQG aquatic life (long-term) ² (mg/L)			0.001					0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.007		
Constituent			Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn		
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
Whale Tail Attenuation Pond	Closure, fully flooded pit	January	2048	0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013	
		February		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013	
		March		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013	
		April		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013	
		May		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013	
		June		0.000057	0.001	0.73	0.0018	0.0000055	0.00012	0.00066	0.48	0.000055	0.00001	0.56	0.014	0.00001	0.0001	0.000068	0.00052	0.0012	
		July		0.000056	0.001	0.73	0.0018	0.0000055	0.00013	0.00066	0.48	0.000055	0.000010	0.55	0.014	0.00001	0.0001	0.00007	0.00052	0.0012	
		August		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.00009	0.00054	0.0013	
		September		0.000058	0.0011	0.75	0.002	0.0000059	0.00018	0.00068	0.54	0.000059	0.00001	0.57	0.015	0.000011	0.00011	0.000095	0.00055	0.0013	
		October		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013	
		November		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013	
		December		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013	
		January	2049	0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013	
		February		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013	
		March		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013	
		April		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013	
		May		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013	
		June		0.000057	0.001	0.73	0.0018	0.0000055	0.00012	0.00066	0.48	0.000055	0.00001	0.56	0.014	0.00001	0.0001	0.000068	0.00052	0.0012	
		July		0.000056	0.001	0.73	0.0018	0.0000055	0.00013	0.00066	0.48	0.000055	0.000010	0.55	0.014	0.00001	0.0001	0.00007	0.00052	0.0012	
		August		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.00009	0.00054	0.0013	
		September		0.000058	0.0011	0.75	0.002	0.0000059	0.00018	0.00068	0.54	0.000059	0.00001	0.57	0.015	0.000011	0.00011	0.000095	0.00055	0.0013	
		October		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013	
		November		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013	
		December		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013	
	Closure and Post Closure	January	≥2050	0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013	
		February		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013	
		March		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013	
		April		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013	
		May		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013	
		June		0.000057	0.001	0.73	0.0018	0.0000055	0.00012	0.00066	0.48	0.000055	0.00001	0.56	0.014	0.00001	0.0001	0.000068	0.00052	0.0012	
		July		0.000056	0.001	0.73	0.0018	0.0000055	0.00013	0.00066	0.48	0.000055	0.000010	0.55	0.014	0.00001	0.0001	0.00007	0.00052	0.0012	
		August		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.00009	0.00054	0.0013	
		September		0.000058	0.0011	0.75	0.002	0.0000059	0.00018	0.00068	0.54	0.000059	0.00001	0.57	0.015	0.000011	0.00011	0.000095	0.00055	0.0013	
		October		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013	
		November		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013	
		December		0.000058	0.0011	0.75	0.002	0.0000058	0.00017	0.00067	0.53	0.000058	0.00001	0.57	0.014	0.00001	0.00011	0.000089	0.00054	0.0013	
		Closure Period		MINIMUM	0.000018	0.00022	0.15	0.0015	0.0000015	0.000069	0.00026	0.19	0.000021	0.0000019	0.21	0.0032	0.0000019	0.000023	0.000036	0.00013	0.00034
				MAXIMUM	0.00014	0.0016	1.1	0.039	0.0000096	0.00075	0.0028	1.4	0.00016	0.000014	1.9	0.024	0.000014	0.00015	0.00036	0.00086	0.0022
				AVERAGE	0.000057	0.00097	0.69	0.0037	0.0000054	0.00018	0.00072	0.52	0.000058	0.0000094	0.58	0.014	0.0000095	0.000099	0.000094	0.0005	0.0012
				MAXIMUM (total)	0.00028	0.0019	1.5	0.05	0.0000096	0.00077	0.0065	1.6	0.00017	0.000035	1.9	0.026	0.000019	0.00016	0.00038	0.0017	0.0029
				AVERAGE (total)	0.00019	0.0013	1.1	0.015	0.0000054	0.0002	0.0043	0.69	0.000062	0.00003	0.58	0.015	0.000015	0.00011	0.00011	0.0014	0.0019

Notes:

¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells

²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type

³ CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed

⁴ CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.

⁵ CEQG Freshwater aquatic life criteria for chromium depends on the valence of chromium ion. In the above table, the Cr(VI) criterion of 0.001 mg/L is shown.

⁶ CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 30 mg/L.

⁷ The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1				0.002		0.02		0.1	1.0	
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ²	Al ³	Sb	As ³	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁶	Co	Cu ⁶	Fe
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
IVR Attenuation Pond	Operations	June	2020	19	0	11	2.9	0.12	1.8	0.0053	0.0077	0.015	0.0001	0.00026	0.0016	0.0079	0.000035	0.000055	0.025	0.000007	2.0	0.0012	0.00037	0.0021	0.29
		July		18	0	11	2.9	0.11	1.7	0.0053	0.0077	0.014	0.0001	0.00025	0.0015	0.0077	0.000034	0.000054	0.025	0.0000068	1.9	0.0011	0.00036	0.002	0.29
		August		22	0	13	3.2	0.15	2.0	0.0055	0.008	0.019	0.0001	0.00032	0.0021	0.0091	0.000042	0.000059	0.031	0.0000079	2.1	0.0015	0.00047	0.0026	0.3
		September		24	0	14	3.3	0.16	2.0	0.0056	0.0081	0.021	0.0001	0.00034	0.0022	0.0096	0.000044	0.00006	0.033	0.0000082	2.1	0.0017	0.00051	0.0028	0.3
		October		23	0	14	3.3	0.15	2.0	0.0056	0.0081	0.02	0.0001	0.00033	0.0021	0.0094	0.000043	0.00006	0.032	0.000008	2.1	0.0016	0.00049	0.0027	0.3
		November		23	0	14	3.3	0.15	2.0	0.0056	0.0081	0.02	0.0001	0.00033	0.0021	0.0094	0.000043	0.00006	0.032	0.000008	2.1	0.0016	0.00049	0.0027	0.3
		December		23	0	14	3.3	0.15	2.0	0.0056	0.0081	0.02	0.0001	0.00033	0.0021	0.0094	0.000043	0.00006	0.032	0.000008	2.1	0.0016	0.00049	0.0027	0.3
		January	2021	23	0	14	3.3	0.15	2.0	0.0056	0.0081	0.02	0.0001	0.00033	0.0021	0.0094	0.000043	0.00006	0.032	0.000008	2.1	0.0016	0.00049	0.0027	0.3
		February		23	0	14	3.3	0.15	2.0	0.0056	0.0081	0.02	0.0001	0.00033	0.0021	0.0094	0.000043	0.00006	0.032	0.000008	2.1	0.0016	0.00049	0.0027	0.3
		March		23	0	14	3.3	0.15	2.0	0.0056	0.0081	0.02	0.0001	0.00033	0.0021	0.0094	0.000043	0.00006	0.032	0.000008	2.1	0.0016	0.00049	0.0027	0.3
		April		23	0	14	3.3	0.15	2.0	0.0056	0.0081	0.02	0.0001	0.00033	0.0021	0.0094	0.000043	0.00006	0.032	0.000008	2.1	0.0016	0.00049	0.0027	0.3
		May		23	0	14	3.3	0.15	2.0	0.0056	0.0081	0.02	0.0001	0.00033	0.0021	0.0094	0.000043	0.00006	0.032	0.000008	2.1	0.0016	0.00049	0.0027	0.3
		June		20	0	12	3.0	0.12	1.8	0.0053	0.0077	0.016	0.0001	0.00027	0.0017	0.0081	0.000037	0.000055	0.027	0.0000071	2.0	0.0013	0.00039	0.0022	0.3
		July		19	0	11	2.9	0.12	1.8	0.0053	0.0077	0.015	0.0001	0.00026	0.0016	0.0078	0.000035	0.000054	0.025	0.0000069	1.9	0.0012	0.00037	0.0021	0.3
		August		23	0	14	3.3	0.15	2.0	0.0055	0.008	0.02	0.0001	0.00033	0.0021	0.0093	0.000042	0.000059	0.032	0.000008	2.1	0.0016	0.00048	0.0027	0.3
		September		24	0	14	3.4	0.16	2.0	0.0056	0.0081	0.022	0.0001	0.00035	0.0023	0.0097	0.000045	0.000061	0.034	0.0000083	2.2	0.0017	0.00052	0.0029	0.3
		October		23	0	14	3.3	0.16	2.0	0.0056	0.0081	0.021	0.0001	0.00034	0.0022	0.0095	0.000043	0.00006	0.033	0.0000081	2.1	0.0016	0.0005	0.0028	0.3
		November		23	0	14	3.3	0.16	2.0	0.0056	0.0081	0.021	0.0001	0.00034	0.0022	0.0095	0.000043	0.00006	0.033	0.0000081	2.1	0.0016	0.0005	0.0028	0.3
		December		23	0	14	3.3	0.16	2.0	0.0056	0.0081	0.021	0.0001	0.00034	0.0022	0.0095	0.000043	0.00006	0.033	0.0000081	2.1	0.0016	0.0005	0.0028	0.3
		January	2022	23	0	14	3.3	0.16	2.0	0.0056	0.0081	0.021	0.0001	0.00034	0.0022	0.0095	0.000043	0.00006	0.033	0.0000081	2.1	0.0016	0.0005	0.0028	0.3
		February		23	0	14	3.3	0.16	2.0	0.0056	0.0081	0.021	0.0001	0.00034	0.0022	0.0095	0.000043	0.00006	0.033	0.0000081	2.1	0.0016	0.0005	0.0028	0.3
		March		23	0	14	3.3	0.16	2.0	0.0056	0.0081	0.021	0.0001	0.00034	0.0022	0.0095	0.000043	0.00006	0.033	0.0000081	2.1	0.0016	0.0005	0.0028	0.3
		April		23	0	14	3.3	0.16	2.0	0.0056	0.0081	0.021	0.0001	0.00034	0.0022	0.0095	0.000043	0.00006	0.033	0.0000081	2.1	0.0016	0.0005	0.0028	0.3
		May		23	0	14	3.3	0.16	2.0	0.0056	0.0081	0.021	0.0001	0.00034	0.0022	0.0095	0.000043	0.00006	0.033	0.0000081	2.1	0.0016	0.0005	0.0028	0.3
		June		61	0.89	12	9.1	0.063	6.3	0.15	5.9	0.023	0.0001	0.00075	0.052	0.01	0.000023	0.000041	0.061	0.000001	4.9	0.00071	0.00043	0.0012	0.15
		July		197	8.3	63	20	0.27	43	0.21	8.5	0.07	0.0001	0.007	0.56	0.044	0.000067	0.000065	0.45	0.00004	21	0.005	0.0029	0.0063	0.29
		August		225	13	71	24	0.32	52	0.2	8.4	0.077	0.0001	0.0079	0.6	0.053	0.000075	0.000075	0.5	0.00005	25	0.0054	0.0037	0.0073	0.3
		September		118	6.0	31	14	0.15	23	0.18	7.1	0.04	0.0001	0.0031	0.23	0.025	0.000038	0.000051	0.2	0.000024	12	0.0021	0.0016	0.0032	0.3
		October		138	5.2	29	25	0.12	20	0.24	9.8	0.076	0.0001	0.002	0.1	0.026	0.000034	0.000045	0.19	0.000026	13	0.0016	0.0014	0.0025	0.29
		November		148	3.9	26	36	0.12	17	0.25	10	0.09	0.0001	0.0012	0.052	0.027	0.000034	0.00005	0.14	0.000027	15	0.0009	0.0011	0.0019	0.21
		December		151	2.8	26	40	0.11	15	0.25	10	0.093	0.0001	0.00089	0.036	0.027	0.000035	0.000053	0.12	0.000027	15	0.00073	0.0009	0.0017	0.15
		January	2023	151	2.1	25	42	0.11	14	0.25	10	0.093	0.0001	0.00074	0.028	0.027	0.000035	0.000055	0.12	0.000027	15	0.00066	0.00079	0.0016	0.12
		February		147	1.7	24	41	0.1	13	0.25	10	0.092	0.0001	0.00066	0.023	0.026	0.000034	0.000055	0.11	0.000026	15	0.00061	0.00071	0.0015	0.1
		March		144	1.5	23	40	0.098	12	0.25	10	0.091	0.0001	0.0006	0.02	0.025	0.000034	0.000055	0.11	0.000025	14	0.00058	0.00066	0.0014	0.093
		April		141	1.3	23	39	0.095	12	0.25	10	0.09	0.0001	0.00056	0.018	0.024	0.000033	0.000056	0.1	0.000024	14	0.00055	0.00062	0.0014	0.085
		May		139	1.2	22	38	0.093	11	0.25	10	0.089	0.0001	0.00053	0.017	0.024	0.000033	0.000056	0.099	0.000024	13	0.00053	0.00059	0.0013	0.079
		June		97	1.3	16	21	0.073	8.9	0.2	8.3	0.051	0.0001	0.00072	0.044	0.016	0.000026	0.000045	0.078	0.000016	8.6	0.0006	0.00051	0.0012	0.12
		July		215	12	69	18	0.32	50	0.22	9.1	0.074	0.0001	0.008	0.66	0.049	0.000074	0.00007	0.47	0.00					

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1	
Constituent				Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁵	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
IVR Attenuation Pond	Operations	June	2020	0.00031	0.0014	0.94	0.0087	0.00001	0.00018	0.0019	0.6	0.00011	0.000014	4.1	0.012	0.000012	0.00012	0.0003	0.00094	0.002
		July		0.0003	0.0014	0.93	0.0084	0.00001	0.00018	0.0018	0.59	0.00011	0.000014	3.9	0.012	0.000012	0.00012	0.00029	0.00091	0.0019
		August		0.0004	0.0016	1.0	0.011	0.000013	0.00023	0.0022	0.68	0.00013	0.000016	5.2	0.013	0.000013	0.00013	0.00038	0.0011	0.0023
		September		0.00043	0.0017	1.0	0.012	0.000013	0.00025	0.0023	0.71	0.00014	0.000016	5.7	0.013	0.000013	0.00014	0.00041	0.0012	0.0024
		October		0.00041	0.0017	1.0	0.012	0.000013	0.00024	0.0023	0.7	0.00014	0.000016	5.5	0.013	0.000013	0.00013	0.0004	0.0011	0.0024
		November		0.00041	0.0017	1.0	0.012	0.000013	0.00024	0.0023	0.7	0.00014	0.000016	5.5	0.013	0.000013	0.00013	0.0004	0.0011	0.0024
		December	0.00041	0.0017	1.0	0.012	0.000013	0.00024	0.0023	0.7	0.00014	0.000016	5.5	0.013	0.000013	0.00013	0.0004	0.0011	0.0024	
		January	2021	0.00041	0.0017	1.0	0.012	0.000013	0.00024	0.0023	0.7	0.00014	0.000016	5.5	0.013	0.000013	0.00013	0.0004	0.0011	0.0024
		February		0.00041	0.0017	1.0	0.012	0.000013	0.00024	0.0023	0.7	0.00014	0.000016	5.5	0.013	0.000013	0.00013	0.0004	0.0011	0.0024
		March		0.00041	0.0017	1.0	0.012	0.000013	0.00024	0.0023	0.7	0.00014	0.000016	5.5	0.013	0.000013	0.00013	0.0004	0.0011	0.0024
		April		0.00041	0.0017	1.0	0.012	0.000013	0.00024	0.0023	0.7	0.00014	0.000016	5.5	0.013	0.000013	0.00013	0.0004	0.0011	0.0024
		May		0.00041	0.0017	1.0	0.012	0.000013	0.00024	0.0023	0.7	0.00014	0.000016	5.5	0.013	0.000013	0.00013	0.0004	0.0011	0.0024
		June		0.00033	0.0015	0.95	0.0092	0.000011	0.00019	0.0019	0.62	0.00011	0.000014	4.3	0.012	0.000012	0.00012	0.00032	0.00097	0.002
		July		0.00031	0.0014	0.93	0.0087	0.00001	0.00018	0.0019	0.6	0.00011	0.000014	4.1	0.012	0.000012	0.00012	0.0003	0.00094	0.002
		August		0.00041	0.0017	1.0	0.011	0.000013	0.00024	0.0023	0.69	0.00013	0.000016	5.4	0.013	0.000013	0.00013	0.00039	0.0011	0.0023
		September		0.00044	0.0017	1.0	0.012	0.000014	0.00025	0.0024	0.72	0.00014	0.000016	5.8	0.013	0.000013	0.00014	0.00042	0.0012	0.0025
		October		0.00042	0.0017	1.0	0.012	0.000013	0.00025	0.0023	0.7	0.00014	0.000016	5.6	0.013	0.000013	0.00013	0.0004	0.0012	0.0024
		November		0.00042	0.0017	1.0	0.012	0.000013	0.00025	0.0023	0.7	0.00014	0.000016	5.6	0.013	0.000013	0.00013	0.0004	0.0012	0.0024
		December		0.00042	0.0017	1.0	0.012	0.000013	0.00025	0.0023	0.7	0.00014	0.000016	5.6	0.013	0.000013	0.00013	0.0004	0.0012	0.0024
		January	2022	0.00042	0.0017	1.0	0.012	0.000013	0.00025	0.0023	0.7	0.00014	0.000016	5.6	0.013	0.000013	0.00013	0.0004	0.0012	0.0024
		February		0.00042	0.0017	1.0	0.012	0.000013	0.00025	0.0023	0.7	0.00014	0.000016	5.6	0.013	0.000013	0.00013	0.0004	0.0012	0.0024
		March		0.00042	0.0017	1.0	0.012	0.000013	0.00025	0.0023	0.7	0.00014	0.000016	5.6	0.013	0.000013	0.00013	0.0004	0.0012	0.0024
		April		0.00042	0.0017	1.0	0.012	0.000013	0.00025	0.0023	0.7	0.00014	0.000016	5.6	0.013	0.000013	0.00013	0.0004	0.0012	0.0024
		May		0.00042	0.0017	1.0	0.012	0.000013	0.00025	0.0023	0.7	0.00014	0.000016	5.6	0.013	0.000013	0.00013	0.0004	0.0012	0.0024
		June		0.00025	0.0016	1.7	0.049	0.0000073	0.0011	0.0043	1.6	0.00022	0.000016	3.9	0.031	0.000012	0.00011	0.00045	0.00081	0.0019
		July		0.0016	0.0057	5.2	0.36	0.000036	0.0051	0.032	12	0.0018	0.00009	20	0.1	0.000052	0.00039	0.0022	0.0048	0.0086
		August		0.0018	0.0068	6.0	0.52	0.000042	0.0062	0.048	14	0.002	0.00011	23	0.12	0.000065	0.00048	0.0024	0.0051	0.01
		September		0.00073	0.0034	3.1	0.24	0.000019	0.0029	0.023	5.9	0.0008	0.000053	9.9	0.06	0.000032	0.00024	0.0011	0.0021	0.0048
		October		0.00062	0.0035	3.9	0.22	0.000015	0.0037	0.02	4.4	0.00063	0.000045	10	0.079	0.000025	0.0002	0.0011	0.0014	0.0044
		November		0.00044	0.0038	5.0	0.18	0.000011	0.0044	0.015	3.3	0.00041	0.000033	11	0.1	0.00002	0.00016	0.0013	0.00093	0.004
		December		0.00039	0.004	5.4	0.15	0.0000095	0.0046	0.011	2.8	0.00034	0.000027	11	0.11	0.000017	0.00015	0.0014	0.00082	0.0038
		January	2023	0.00036	0.004	5.6	0.13	0.0000086	0.0046	0.009	2.6	0.00031	0.000024	11	0.11	0.000016	0.00014	0.0014	0.00077	0.0037
		February		0.00034	0.0038	5.4	0.11	0.0000081	0.0045	0.0077	2.4	0.00029	0.000022	10	0.11	0.000015	0.00013	0.0013	0.00074	0.0035
		March		0.00032	0.0037	5.3	0.1	0.0000078	0.0043	0.0068	2.2	0.00027	0.000021	10.0	0.11	0.000014	0.00013	0.0013	0.00072	0.0034
		April		0.00031	0.0036	5.2	0.096	0.0000076	0.0042	0.0061	2.1	0.00026	0.00002	9.7	0.1	0.000014	0.00013	0.0012	0.00071	0.0033
		May		0.0003	0.0036	5.1	0.091	0.0000074	0.0041	0.0056	2.0	0.00025	0.000019	9.5	0.1	0.000013	0.00012	0.0012	0.0007	0.0032
		June		0.00026	0.0025	3.1	0.071	0.0000072	0.0024	0.0055	1.9	0.00025	0.000018	6.2	0.062	0.000013	0.00011	0.00078	0.00077	0.0025
		July		0.0017	0.0065	5.5	0.41	0.000041	0.0056	0.042	14	0.002	0.00011	21	0.11	0.000064	0.00045	0.0024	0.0056	0.0097
		August		0.0019	0.0074	6.1	0.57	0.000048	0.0066	0.055	16	0.0022	0.00013	24	0.12	0.000075	0.00054	0.0027	0.0061	0.011
		September		0.0008	0.0035	3.0	0.26	0.000021	0.0029	0.023	6.4	0.00089	0.000055	10	0.058	0.000033	0.00025	0.0012	0.0025	0.0051
		October		0.0006	0.0029	3.0	0.21	0.000014	0.0028	0.016	3.8	0.00061	0.000038	9.0	0.059	0.000022	0.00018	0.00094	0.0014	0.004
		November		0.00042	0.003	3.6	0.17	0.000011	0.0031	0.012	2.8	0.00039	0.000028	8.4	0.074	0.000018	0.00015	0.00098	0.00095	0.0035
		December		0.00036	0.0031	3.9	0.14	0.0000095	0.0032	0.0094	2.4	0.00034	0.000024	8.3	0.081	0.000016	0.00014	0.001	0.00085	0.0033
		January	2024	0.00033	0.0032	4.0	0.12	0.0000088	0.0033	0.0077	2.2	0.00031	0.000022	8.2	0.083	0.000015	0.00013	0.001	0.00081	0.0032
		February		0.00031	0.0031	3.9	0.1	0.0000085	0.0031	0.0067	2.1	0.00029	0.000021	7.9	0.081	0.000014	0.00013	0.00097	0.00079	0.0031
		March		0.00029	0.003	3.8	0.092	0.0000083	0.003	0.0061	2.0	0.00028	0.00002	7.6	0.079	0.000014	0.00013	0.00093	0.00077	0.003
		April		0.00028	0.0029	3.7	0.086	0.0000081	0.0029	0.0056	1.9	0.00027	0.000019	7.3	0.077	0.000014	0.00013	0.00089	0.00076	0.0029
		May		0.00027	0.0029	3.6	0.081	0.000008	0.0028	0.0053	1.8	0.00026	0.000019	7.1	0.075	0.000014	0.00013	0.00087	0.00076	0.0029
		June		0.00025	0.0021	2.4	0.068	0.0000078	0.0018	0.0058	1.9	0.00026	0.000019	5.0	0.048	0.000013	0.00012	0.0006	0.00081	0.0024
		July		0.0017	0.0067	5.2	0.43	0.00004												

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P_total ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁵	Ca	Cr ⁵	Co	Cu ⁶	Fe
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
IVR Attenuation Pond	Closure and Post Closure	January	≥2026	12	0.26	1.9	1.7	0.0091	1.1	0.031	1.3	0.012	0.000013	0.0001	0.0037	0.0018	0.0000033	0.0000064	0.0099	0.0000018	0.96	0.000087	0.000084	0.00017	0.016
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		15	0.73	7.6	2.2	0.081	2.4	0.0037	0.0054	0.0072	0.0001	0.0003	0.0033	0.0059	0.000023	0.000039	0.015	0.0000055	2.0	0.00057	0.00024	0.0012	0.16
		July		139	12	75	13	1.0	25	0.0035	0.0051	0.097	0.0001	0.004	0.053	0.047	0.00017	0.00012	0.14	0.000039	14	0.0073	0.003	0.012	0.3
		August		103	8.8	56	9.6	0.74	19	0.0036	0.0052	0.071	0.0001	0.0029	0.039	0.035	0.00013	0.000095	0.1	0.000029	11	0.0054	0.0022	0.009	0.3
		September		32	2.3	17	3.6	0.21	5.5	0.0037	0.0054	0.019	0.0001	0.0008	0.010	0.011	0.000042	0.00005	0.031	0.00001	3.6	0.0015	0.00061	0.0026	0.3
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Closure Period	MINIMUM	12	0.26	1.9	1.7	0.0091	1.1	0.0035	0.0051	0.0072	0.000013	0.0001	0.0033	0.0018	0.0000033	0.0000064	0.0099	0.0000018	0.96	0.000087	0.000084	0.00017	0.016
			MAXIMUM	139	12	75	13	1.0	25	0.031	1.3	0.097	0.0001	0.004	0.053	0.047	0.00017	0.00012	0.14	0.000039	14	0.0073	0.003	0.012	0.3
			AVERAGE	60	4.8	31	6.0	0.41	11	0.0092	0.027	0.041	0.000083	0.0016	0.022	0.02	0.000072	0.000062	0.058	0.000017	6.3	0.003	0.0012	0.005	0.22
			MAXIMUM (total)	139	12	75	13	1.0	26	0.031	1.3	0.11	0.33	0.004	0.057	0.05	0.00018	0.00012	0.14	0.000041	15	0.016	0.0035	0.013	1.0
			AVERAGE (total)	60	4.8	31	6.0	0.41	11	0.0092	0.027	0.053	0.33	0.0017	0.025	0.023	0.000079	0.000064	0.058	0.000019	6.6	0.011	0.0017	0.0055	0.91

Notes:
¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells
²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type
³CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed
⁴ CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.
⁵ CEQG Freshwater aquatic life criteria for chromium depends on the valence of chromium ion. In the above table, the Cr(VI) criterion of 0.001 mg/L is shown.
⁶ CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.
⁷ The CEQG aquatic life criterion for Arsenic is replaced by the SSSWQO of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1		
Constituent				Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁵	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
IVR Attenuation Pond	Closure and Post Closure	January	≥2026	0.000038	0.00029	0.27	0.013	0.0000013	0.0002	0.001	0.26	0.000041	0.0000029	0.64	0.006	0.000002	0.000018	0.000067	0.00011	0.00036	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.00016	0.0012	0.74	0.0061	0.0000094	0.00064	0.0012	0.97	0.000099	0.0000099	2.0	0.011	0.00001	0.00012	0.0004	0.00075	0.0019	
		July		0.0019	0.0087	3.2	0.08	0.0001	0.01	0.0092	12	0.0011	0.000057	26	0.066	0.00006	0.00091	0.0059	0.0071	0.019	
		August		0.0014	0.0065	2.5	0.058	0.000076	0.0074	0.0069	8.5	0.00083	0.000044	19	0.05	0.000046	0.00068	0.0043	0.0053	0.014	
		September		0.00039	0.0022	1.1	0.016	0.000022	0.0019	0.0022	2.4	0.00024	0.000016	5.1	0.018	0.000017	0.00023	0.0011	0.0016	0.0041	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Closure Period	MINIMUM	0.000038	0.00029	0.27	0.0061	0.0000013	0.0002	0.001	0.26	0.000041	0.0000029	0.64	0.006	0.000002	0.000018	0.000067	0.00011	0.00036	
			MAXIMUM	0.0019	0.0087	3.2	0.08	0.0001	0.01	0.0092	12	0.0011	0.000057	26	0.066	0.00006	0.00091	0.0059	0.0071	0.019	
			AVERAGE	0.00077	0.0038	1.6	0.035	0.000042	0.004	0.0041	4.7	0.00047	0.000026	10	0.03	0.000027	0.00039	0.0024	0.003	0.0078	
			MAXIMUM (total)	0.002	0.009	3.6	0.091	0.0001	0.01	0.013	12	0.0011	0.000078	26	0.067	0.000066	0.00092	0.0059	0.008	0.02	
			AVERAGE (total)	0.0009	0.0041	2.0	0.046	0.000042	0.0041	0.0077	4.9	0.00047	0.000047	10	0.032	0.000032	0.0004	0.0024	0.0039	0.0085	

Notes:

¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells

²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type

³CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed

⁴ CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.

⁵ CEQG Freshwater aquatic life criteria for chromium depends on the valence of chromium ion. In the above table, the Cr(VI) criterion of 0.001 mg/L is shown.

⁶ CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.

⁷ The CEQG aquatic life criterion for Arsenic is replaced by the SSSWQO of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0	
CEQG aquatic life (long-term) ² (mg/L)							120	0.12				2.93	0.01	0.1		0.025				1.5	0.0004		0.001		0.002	0.3
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁵	Co	Cu ⁶	Fe	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Groundwater Storage Pond 1	Construction and Operations	January	2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		July		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		August		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		September		11	0.0036	5.4	2.3	0.04	1.5	0.0053	0.0077	0.0034	0.00010	0.00012	0.0013	0.005	0.000021	0.000049	0.011	0.0000051	1.8	0.00029	0.00013	0.00082	0.084	
		October		12	0.0073	6.2	2.4	0.05	1.7	0.0053	0.0077	0.0048	0.0001	0.00015	0.0025	0.0054	0.000023	0.00005	0.013	0.0000053	1.9	0.0004	0.00016	0.00098	0.12	
		November		15	0.015	7.8	2.6	0.071	2.1	0.0056	0.0081	0.0077	0.0001	0.00021	0.0048	0.0064	0.000027	0.000054	0.017	0.0000061	2.1	0.00063	0.00022	0.0013	0.18	
		December		17	0.018	8.6	2.7	0.08	2.3	0.0057	0.0082	0.0091	0.0001	0.00024	0.0058	0.0068	0.000029	0.000055	0.019	0.0000064	2.2	0.00073	0.00025	0.0015	0.21	
		January	2019	17	0.018	8.5	2.7	0.08	2.3	0.0056	0.0082	0.009	0.0001	0.00024	0.0057	0.0068	0.000029	0.000055	0.019	0.0000063	2.2	0.00073	0.00025	0.0015	0.21	
		February		17	0.018	8.5	2.7	0.08	2.3	0.0056	0.0082	0.009	0.0001	0.00024	0.0057	0.0068	0.000029	0.000055	0.019	0.0000063	2.2	0.00073	0.00025	0.0015	0.21	
		March		17	0.018	8.5	2.7	0.08	2.3	0.0056	0.0082	0.009	0.0001	0.00024	0.0057	0.0068	0.000029	0.000055	0.019	0.0000063	2.2	0.00073	0.00025	0.0015	0.21	
		April		17	0.018	8.5	2.7	0.08	2.3	0.0056	0.0082	0.009	0.0001	0.00024	0.0057	0.0068	0.000029	0.000055	0.019	0.0000063	2.2	0.00073	0.00025	0.0015	0.21	
		May		17	0.018	8.5	2.7	0.08	2.3	0.0056	0.0082	0.009	0.0001	0.00024	0.0057	0.0068	0.000029	0.000055	0.019	0.0000063	2.2	0.00073	0.00025	0.0015	0.21	
		June		17	0.018	8.5	2.7	0.08	2.3	0.0056	0.0082	0.009	0.0001	0.00024	0.0057	0.0068	0.000029	0.000055	0.019	0.0000063	2.2	0.00073	0.00025	0.0015	0.21	
		July		17	0.018	8.5	2.7	0.08	2.3	0.0056	0.0082	0.009	0.0001	0.00024	0.0057	0.0068	0.000029	0.000055	0.019	0.0000063	2.2	0.00073	0.00025	0.0015	0.21	
		August		17	0.018	8.5	2.7	0.08	2.3	0.0056	0.0082	0.009	0.0001	0.00024	0.0057	0.0068	0.000029	0.000055	0.019	0.0000063	2.2	0.00073	0.00025	0.0015	0.21	
		September		15	0.036	7.6	2.6	0.068	2.1	0.0055	0.0097	0.0074	0.0001	0.00021	0.0045	0.0062	0.000026	0.000052	0.016	0.0000059	2.1	0.0006	0.00022	0.0013	0.17	
		October		14	0.089	7.0	2.5	0.061	2.0	0.0054	0.011	0.0061	0.0001	0.00019	0.0036	0.0059	0.000025	0.000051	0.015	0.0000057	2.0	0.0005	0.00019	0.0011	0.14	
		November		14	0.17	7.1	2.6	0.063	2.0	0.0055	0.012	0.0061	0.0001	0.00021	0.0037	0.006	0.000025	0.000052	0.015	0.0000059	2.1	0.0005	0.0002	0.0011	0.14	
		December		14	0.22	7.1	2.6	0.063	2.1	0.0056	0.012	0.0059	0.0001	0.00021	0.0036	0.006	0.000025	0.000053	0.015	0.000006	2.1	0.00048	0.0002	0.0011	0.14	
		January	2020	14	0.23	7.0	2.6	0.062	2.0	0.0055	0.011	0.0057	0.0001	0.00021	0.0035	0.006	0.000025	0.000052	0.014	0.0000059	2.1	0.00047	0.00019	0.0011	0.13	
		February		14	0.23	7.0	2.6	0.062	2.0	0.0055	0.011	0.0057	0.0001	0.00021	0.0035	0.006	0.000025	0.000052	0.014	0.0000059	2.1	0.00047	0.00019	0.0011	0.13	
		March		142	0.2	30	61	0.13	13	0.083	1.8	0.055	0.0001	0.00026	0.0054	0.034	0.000042	0.000063	0.12	0.000033	19	0.00066	0.00057	0.0018	0.12	
		April		266	0.16	51	118	0.2	23	0.16	3.5	0.1	0.0001	0.00029	0.0066	0.061	0.000059	0.000074	0.23	0.000058	35	0.00084	0.00093	0.0024	0.096	
		May		294	0.14	56	131	0.21	25	0.17	4.0	0.11	0.0001	0.00029	0.0065	0.066	0.000063	0.000076	0.25	0.000064	38	0.00086	0.001	0.0025	0.089	
		June		309	0.13	59	137	0.22	26	0.18	4.5	0.12	0.0001	0.00029	0.0063	0.069	0.000065	0.000077	0.26	0.000067	40	0.00087	0.001	0.0026	0.083	
		July		318	0.11	60	141	0.22	27	0.19	4.9	0.13	0.0001	0.00028	0.006	0.071	0.000065	0.000078	0.27	0.000069	41	0.00086	0.0011	0.0026	0.078	
		August		329	0.1	60	146	0.23	27	0.2	5.2	0.13	0.0001	0.00028	0.0057	0.072	0.000066	0.000078	0.27	0.000069	43	0.00086	0.0011	0.0026	0.074	
		September		6,074	0.14	53	3,795	0.21	24	9.5	14	0.11	0.0001	0.00031	0.0052	0.068	0.000069	0.000083	0.24	0.00006	2,108	0.00089	0.00096	0.0024	0.072	
		October		31,221	0.62	34	19,755	0.21	18	50	53	0.079	0.0001	0.00054	0.007	0.066	0.000093	0.00011	0.18	0.000036	11,129	0.0012	0.00074	0.002	0.073	
		November		50,986	1.3	34	32,281	0.29	21	82	84	0.085	0.0001	0.00089	0.012	0.085	0.00013	0.00015	0.21	0.000034	18,198	0.0017	0.00085	0.0023	0.085	
		December		60,031	1.6	32	38,014	0.31	21	97	98	0.084	0.0001	0.001	0.014	0.093	0.00015	0.00017	0.21	0.00003	21,436	0.0019	0.00087	0.0023	0.09	
		January	2021	60,010	2.0	50	37,972	0.37	29	97	102	0.12	0.0001	0.0016	0.051	0.11	0.00017	0.00019	0.33	0.000046	21,407	0.0029	0.0014	0.0036	0.22	
		February		57,422	1.9	92	36,275	0.51	48	93	105	0.21	0.0001	0.002	0.072	0.16	0.00022	0.00025	0.54	0.000092	20,426	0.0037	0.0022	0.0054	0.3	
		March		55,756	1.6	123	35,181	0.62	62	90	106	0.29	0.0001	0.002	0.065	0.19	0.00025	0.00029	0.67	0.00013	19,787					

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.007	
Constituent				Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Groundwater Storage Pond 1	Construction and Operations	January	2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		June		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		July		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		August		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		September		0.0001	0.001	0.84	0.0029	0.0000054	0.000067	0.001	0.45	0.000056	0.00001	0.99	0.011	0.000010	0.0001	0.000097	0.00054	0.0012
		October		0.00013	0.0011	0.86	0.0038	0.0000061	0.000086	0.0011	0.5	0.000065	0.000011	1.4	0.011	0.00001	0.00011	0.00013	0.00059	0.0013
		November		0.00018	0.0012	0.94	0.0057	0.0000076	0.00013	0.0014	0.62	0.000085	0.000012	2.2	0.013	0.000011	0.00012	0.00019	0.00073	0.0016
		December		0.00021	0.0013	0.97	0.0066	0.0000082	0.00015	0.0015	0.67	0.000094	0.000013	2.5	0.013	0.000012	0.00012	0.00021	0.00079	0.0017
		January	2019	0.00021	0.0013	0.96	0.0065	0.0000082	0.00014	0.0015	0.66	0.000093	0.000013	2.5	0.013	0.000011	0.00012	0.00021	0.00078	0.0017
		February		0.00021	0.0013	0.96	0.0065	0.0000082	0.00014	0.0015	0.66	0.000093	0.000013	2.5	0.013	0.000011	0.00012	0.00021	0.00078	0.0017
		March		0.00021	0.0013	0.96	0.0065	0.0000082	0.00014	0.0015	0.66	0.000093	0.000013	2.5	0.013	0.000011	0.00012	0.00021	0.00078	0.0017
		April		0.00021	0.0013	0.96	0.0065	0.0000082	0.00014	0.0015	0.66	0.000093	0.000013	2.5	0.013	0.000011	0.00012	0.00021	0.00078	0.0017
		May		0.00021	0.0013	0.96	0.0065	0.0000082	0.00014	0.0015	0.66	0.000093	0.000013	2.5	0.013	0.000011	0.00012	0.00021	0.00078	0.0017
		June		0.00021	0.0013	0.96	0.0065	0.0000082	0.00014	0.0015	0.66	0.000093	0.000013	2.5	0.013	0.000011	0.00012	0.00021	0.00078	0.0017
		July		0.00021	0.0013	0.96	0.0065	0.0000082	0.00014	0.0015	0.66	0.000093	0.000013	2.5	0.013	0.000011	0.00012	0.00021	0.00078	0.0017
		August		0.00021	0.0013	0.96	0.0065	0.0000082	0.00014	0.0015	0.66	0.000093	0.000013	2.5	0.013	0.000011	0.00012	0.00021	0.00078	0.0017
		September		0.00018	0.0012	0.91	0.0055	0.0000074	0.00014	0.0014	0.61	0.000083	0.000012	2.1	0.012	0.000011	0.00011	0.00018	0.00071	0.0015
		October		0.00015	0.0012	0.89	0.0048	0.000007	0.00016	0.0013	0.59	0.000076	0.000011	1.7	0.012	0.000011	0.00011	0.00017	0.00067	0.0015
		November		0.00015	0.0012	0.91	0.005	0.0000075	0.00021	0.0013	0.64	0.00008	0.000011	1.7	0.012	0.000011	0.00012	0.00019	0.00069	0.0016
		December		0.00015	0.0012	0.91	0.0049	0.0000077	0.00024	0.0013	0.65	0.00008	0.000012	1.7	0.012	0.000011	0.00012	0.00019	0.0007	0.0016
		January	2020	0.00015	0.0012	0.91	0.0048	0.0000076	0.00024	0.0013	0.65	0.000079	0.000011	1.6	0.012	0.000011	0.00012	0.00019	0.00069	0.0016
		February		0.00015	0.0012	0.91	0.0048	0.0000076	0.00024	0.0013	0.65	0.000079	0.000011	1.6	0.012	0.000011	0.00012	0.00019	0.00069	0.0016
		March		0.00036	0.005	7.7	0.08	0.000007	0.0064	0.0024	2.0	0.00025	0.000015	14	0.15	0.000011	0.00012	0.0019	0.00067	0.004
		April		0.00057	0.0087	14	0.15	0.0000064	0.012	0.0035	3.3	0.00042	0.000019	27	0.29	0.000011	0.00011	0.0037	0.00064	0.0064
		May		0.00061	0.0095	16	0.17	0.0000062	0.014	0.0037	3.6	0.00045	0.000019	29	0.32	0.000011	0.00011	0.004	0.00063	0.0069
		June		0.00063	0.0099	17	0.18	0.0000061	0.014	0.0038	3.8	0.00046	0.00002	31	0.34	0.000011	0.00011	0.0042	0.00062	0.0072
		July		0.00064	0.01	17	0.18	0.000006	0.015	0.0038	3.8	0.00047	0.00002	31	0.35	0.000011	0.00011	0.0043	0.00061	0.0073
		August		0.00064	0.01	17	0.18	0.0000059	0.015	0.0038	3.9	0.00048	0.00002	32	0.35	0.000011	0.00011	0.0044	0.0006	0.0074
		September		0.00058	0.019	15	0.16	0.000052	0.013	0.0045	3.9	0.0029	0.00002	34	0.66	0.000027	0.00013	0.0038	0.0006	0.025
		October		0.00045	0.058	9.4	0.085	0.00025	0.0086	0.008	4.9	0.013	0.000024	51	2.0	0.000097	0.00024	0.0022	0.00074	0.099
		November		0.00051	0.099	9.2	0.075	0.00043	0.0093	0.012	7.1	0.023	0.000032	77	3.4	0.00017	0.00036	0.0021	0.001	0.17
		December		0.00052	0.12	8.5	0.062	0.00053	0.009	0.014	8.0	0.028	0.000036	89	4.1	0.0002	0.00042	0.0019	0.0011	0.21
		January	2021	0.00085	0.12	12	0.12	0.00054	0.012	0.018	9.7	0.029	0.00005	98	4.2	0.00021	0.00048	0.0028	0.0017	0.21
		February		0.0014	0.13	23	0.25	0.00054	0.021	0.021	12	0.029	0.000068	118	4.4	0.00022	0.00055	0.0056	0.0023	0.22
		March		0.0016	0.13	32	0.34	0.00054	0.029	0.022	14	0.029	0.000076	135	4.6	0.00022	0.00059	0.0078	0.0024	0.22
		April		0.0018	0.13	39	0.41	0.00052	0.034	0.022	15	0.028	0.00008	143	4.5	0.00021	0.00061	0.0094	0.0025	0.21
		May		0.0019	0.13	42	0.44	0.00048	0.037	0.022	15	0.026	0.000082	144	4.4	0.00021	0.00062	0.01	0.0026	0.2
		June		0.0019	0.12	44	0.45	0.00046	0.038	0.022	16	0.025	0.000084	144	4.2	0.0002	0.00063	0.011	0.0026	0.19
		July		0.002	0.12	45	0.46	0.00044	0.039	0.021	16	0.024	0.000085	143	4.1	0.00019	0.00064	0.011	0.0027	0.18
		August		0.002	0.12	46	0.47	0.00042	0.04	0.021	16	0.023	0.000086	142	4.0	0.00019	0.00065	0.011	0.0027	0.18
		September		0.0018	0.11	43	0.45	0.0004	0.037	0.025	15	0.022	0.000089	134	3.7	0.00018	0.00063	0.01	0.0026	0.17
		October		0.0017	0.11	40	0.46	0.0004	0.035	0.04	16	0.021	0.00011	126	3.6	0.00019	0.00067	0.0094	0.0026	0.17
		November		0.0017	0.11	40	0.53	0.00042	0.035	0.066	19	0.022	0.00015	129	3.7	0.00022	0.00078	0.0093	0.0028	0.17
		December		0.0017	0.11	40	0.57	0.00043	0.035	0.086	22	0.023	0.00019	128	3.8	0.00024	0.00086	0.009	0.0029	0.18
		January	2022	0.0017	0.11	39	0.58	0.00043	0.035	0.09	22	0.023	0.0002	127	3.7	0.00024	0.00088	0.0088	0.0031	0.17
		February		0.0018	0.11	39	0.58	0.00042	0.035	0.087	22	0.022	0.00019	127	3.7	0.00024	0.00088	0.009	0.0032	0.17
		March		0.0018	0.11	40	0.58	0.00041	0.035	0.083	22	0.022	0.00019	127	3.6	0.00023	0.00087	0.0092	0.0033	0.17
		April		0.0017	0.13	38	0.52	0.00052	0.033	0.075	21	0.027	0.00017	140	4.4	0.00026	0.00087	0.0085	0.0031	0.21
		May		0.0017	0.14	37	0.5	0.00058	0.033	0.072	22	0.031	0.00016	155	4.9	0.00028	0.00087	0.0083	0.003	0.23
		June		0.0017	0.15	37	0.48	0.00063	0.032	0.069	22	0.034	0.00016	168	5.2	0.00029	0.00088</			

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0		
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3		
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁵	Ca	Cr ⁵	Co	Cu ⁶	Fe		
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
Groundwater Storage Pond 1	Construction and Operations	January	2024	52,972	60	154	32,559	2.0	185	347	362	0.49	0.0001	0.013	0.39	0.42	0.00067	0.00072	0.95	0.00014	17,788	0.0087	0.0077	0.014	0.3		
		February		52,971	60	154	32,558	2.0	185	347	362	0.49	0.0001	0.013	0.39	0.42	0.00067	0.00072	0.95	0.00014	17,788	0.0087	0.0077	0.014	0.3		
		March		52,971	60	154	32,558	2.0	185	347	362	0.49	0.0001	0.013	0.39	0.42	0.00067	0.00072	0.95	0.00014	17,788	0.0087	0.0077	0.014	0.3		
		April		52,971	60	154	32,558	2.0	185	347	362	0.49	0.0001	0.013	0.39	0.42	0.00067	0.00072	0.95	0.00014	17,788	0.0087	0.0077	0.014	0.3		
		May		52,971	60	154	32,558	2.0	185	347	362	0.49	0.0001	0.013	0.39	0.42	0.00067	0.00072	0.95	0.00014	17,788	0.0087	0.0077	0.014	0.3		
		June		52,971	60	154	32,558	2.0	185	347	362	0.49	0.0001	0.013	0.39	0.42	0.00067	0.00072	0.95	0.00014	17,788	0.0087	0.0077	0.014	0.3		
		July		52,971	60	154	32,558	2.0	185	347	362	0.49	0.0001	0.013	0.39	0.42	0.00067	0.00072	0.95	0.00014	17,788	0.0087	0.0077	0.014	0.3		
		August		52,971	60	154	32,558	2.0	185	347	362	0.49	0.0001	0.013	0.39	0.42	0.00067	0.00072	0.95	0.00014	17,788	0.0087	0.0077	0.014	0.3		
		September		51,166	60	151	31,382	2.1	184	358	372	0.49	0.0001	0.012	0.39	0.43	0.00069	0.00073	0.95	0.00013	17,084	0.0089	0.0076	0.014	0.3		
		October		49,491	63	153	30,212	2.3	192	393	406	0.49	0.0001	0.013	0.41	0.46	0.00074	0.00078	0.99	0.00013	16,322	0.0096	0.008	0.014	0.3		
		November		49,720	71	161	30,211	2.6	211	440	452	0.52	0.0001	0.015	0.45	0.5	0.00082	0.00086	1.1	0.00014	16,201	0.011	0.0087	0.015	0.3		
		December		49,502	75	166	29,952	2.8	223	480	492	0.53	0.0001	0.016	0.48	0.54	0.00088	0.00092	1.1	0.00014	15,948	0.011	0.0092	0.016	0.3		
		January	2025	49,194	75	167	29,703	2.9	225	498	510	0.54	0.0001	0.016	0.48	0.55	0.00091	0.00095	1.2	0.00014	15,756	0.012	0.0093	0.016	0.3		
		February		49,194	75	167	29,703	2.9	225	498	510	0.54	0.0001	0.016	0.48	0.55	0.00091	0.00095	1.2	0.00014	15,756	0.012	0.0093	0.016	0.3		
		March		49,194	75	167	29,703	2.9	225	498	510	0.54	0.0001	0.016	0.48	0.55	0.00091	0.00095	1.2	0.00014	15,756	0.012	0.0093	0.016	0.3		
		April		49,194	75	167	29,703	2.9	225	498	510	0.54	0.0001	0.016	0.48	0.55	0.00091	0.00095	1.2	0.00014	15,756	0.012	0.0093	0.016	0.3		
		May		49,194	75	167	29,703	2.9	225	498	510	0.54	0.0001	0.016	0.48	0.55	0.00091	0.00095	1.2	0.00014	15,756	0.012	0.0093	0.016	0.3		
		June		49,194	75	167	29,703	2.9	225	498	510	0.54	0.0001	0.016	0.48	0.55	0.00091	0.00095	1.2	0.00014	15,756	0.012	0.0093	0.016	0.3		
		July		49,194	75	167	29,703	2.9	225	498	510	0.54	0.0001	0.016	0.48	0.55	0.00091	0.00095	1.2	0.00014	15,756	0.012	0.0093	0.016	0.3		
		August		49,194	75	167	29,703	2.9	225	498	510	0.54	0.0001	0.016	0.48	0.55	0.00091	0.00095	1.2	0.00014	15,756	0.012	0.0093	0.016	0.3		
		September		47,379	73	163	28,556	2.9	220	498	509	0.53	0.0001	0.015	0.46	0.55	0.0009	0.00094	1.1	0.00013	15,088	0.012	0.0091	0.016	0.3		
		October		45,798	72	161	27,493	3.1	219	520	530	0.52	0.0001	0.015	0.46	0.56	0.00093	0.00097	1.2	0.00013	14,406	0.012	0.009	0.016	0.3		
		November		46,202	74	166	27,631	3.3	229	560	570	0.54	0.0001	0.016	0.48	0.6	0.00099	0.001	1.2	0.00013	14,363	0.013	0.0094	0.017	0.3		
		December		46,095	75	169	27,473	3.5	233	592	601	0.55	0.0001	0.016	0.48	0.62	0.001	0.0011	1.3	0.00013	14,173	0.014	0.0096	0.017	0.3		
		MINIMUM			11	0.0036	5.4	2.3	0.04	1.5	0.0053	0.0077	0.0034	0.00010	0.00012	0.0013	0.005	0.000021	0.000049	0.011	0.0000051	1.8	0.00029	0.00013	0.00082	0.072	
		MAXIMUM			66,485	75	169	41,903	3.5	233	592	601	0.55	0.0001	0.016	0.48	0.62	0.001	0.0011	1.3	0.00018	23,580	0.014	0.0096	0.017	0.3	
		AVERAGE			37,354	29	108	23,178	1.1	103	174	186	0.33	0.00010	0.0063	0.2	0.24	0.00037	0.00042	0.61	0.0001	12,790	0.005	0.0043	0.0082	0.25	
		MAXIMUM (total)			66,485	75	169	41,903	3.5	233	592	601	0.57	0.33	0.016	0.49	0.63	0.001	0.0011	1.3	0.00019	23,581	0.022	0.01	0.018	1.0	
		AVERAGE (total)			37,354	29	108	23,178	1.1	103	174	186	0.34	0.33	0.0063	0.2	0.25	0.00038	0.00042	0.61	0.0001	12,790	0.013	0.0048	0.0088	0.94	
	Closure and Post-Closure	January	2026	45,825	74	169	27,266	3.6	233	606	614	0.56	0.0001	0.016	0.47	0.63	0.0011	0.0011	1.3	0.00013	14,010	0.014	0.0096	0.017	0.3		
		February		45,825	74	169	27,266	3.6	233	606	614	0.56	0.0001	0.016	0.47	0.63	0.0011	0.0011	1.3	0.00013	14,010	0.014	0.0096	0.017	0.3		
		March		45,825	74	169	27,266	3.6	233	606	614	0.56	0.0001	0.016	0.47	0.63	0.0011	0.0011	1.3	0.00013	14,010	0.014	0.0096	0.017	0.3		
		April		1,478	2.4	5.4	880	0.12	7.5	20	20	0.018	0.0000032	0.00053	0.015	0.02	0.000034	0.000035	0.041	0.0000043	452	0.00045	0.00031	0.00056	0.0097		
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		June		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		July		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		August		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		September		8.4	0.44	3.8	1.5	0.032	1.6	0.0031	0.0045	0.0014	0.0001	0.00016	0.0017	0.0035	0.000013	0.00003	0.0062	0.0000036	1.4	0.00012	0.000091	0.00044	0.034		
		October		50	7.7	20	5.3	0.26	15	0.0031	0.0045	0.0042	0.0001	0.0018	0.027	0.016	0.000038	0.000055	0.017	0.000016	8.4	0.00024	0.00067	0.0013	0.062		
		November		37	5.5	15	4.1	0.19	11	0.0031	0.0045	0.0033	0.0001	0.0013	0.02	0.012	0.00003	0.000047	0.013	0.000012	6.3	0.00021	0.00049	0.001	0.053		
		December		14	1.4	5.9	2.0	0.061	3.2	0.0031	0.0045	0.0018	0.0001	0.00037	0.005	0.0051	0.000016	0.000033	0.0076	0.0000052	2.3	0.00014	0.00016	0.00055	0.038		
		January	≥2027	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		March		0	0																						

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05					0.004		0.25								0.1		
CEQG aquatic life (long-term) ² (mg/L)				0.001					0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.007	
Constituent				Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Groundwater Storage Pond 1	Construction and Operations	January	2024	0.0023	0.52	49	0.73	0.0023	0.041	0.23	68	0.12	0.00042	626	18	0.0010	0.0021	0.0064	0.0043	0.92	
		February		0.0023	0.52	49	0.73	0.0023	0.041	0.23	68	0.12	0.00042	626	18	0.0010	0.0021	0.0064	0.0043	0.92	
		March		0.0023	0.52	49	0.73	0.0023	0.041	0.23	68	0.12	0.00042	626	18	0.0010	0.0021	0.0064	0.0043	0.92	
		April		0.0023	0.52	49	0.73	0.0023	0.041	0.23	68	0.12	0.00042	626	18	0.0010	0.0021	0.0064	0.0043	0.92	
		May		0.0023	0.52	49	0.73	0.0023	0.041	0.23	68	0.12	0.00042	626	18	0.0010	0.0021	0.0064	0.0043	0.92	
		June		0.0023	0.52	49	0.73	0.0023	0.041	0.23	68	0.12	0.00042	626	18	0.0010	0.0021	0.0064	0.0043	0.92	
		July		0.0023	0.52	49	0.73	0.0023	0.041	0.23	68	0.12	0.00042	626	18	0.0010	0.0021	0.0064	0.0043	0.92	
		August		0.0023	0.52	49	0.73	0.0023	0.041	0.23	68	0.12	0.00042	626	18	0.0010	0.0021	0.0064	0.0043	0.92	
		September		0.0023	0.54	50	0.71	0.0024	0.04	0.23	70	0.13	0.00042	657	19	0.001	0.0021	0.0062	0.0042	0.95	
		October		0.0024	0.6	52	0.73	0.0027	0.041	0.24	77	0.14	0.00044	743	20	0.0011	0.0023	0.006	0.0043	1.0	
		November		0.0026	0.67	57	0.79	0.003	0.044	0.27	87	0.16	0.00049	851	23	0.0013	0.0025	0.006	0.0047	1.2	
		December		0.0027	0.73	60	0.82	0.0033	0.046	0.29	95	0.17	0.00052	945	25	0.0014	0.0027	0.006	0.0049	1.3	
		January	2025	0.0027	0.75	61	0.82	0.0034	0.047	0.29	99	0.18	0.00053	989	26	0.0014	0.0028	0.0059	0.0049	1.3	
		February		0.0027	0.75	61	0.82	0.0034	0.047	0.29	99	0.18	0.00053	989	26	0.0014	0.0028	0.0059	0.0049	1.3	
		March		0.0027	0.75	61	0.82	0.0034	0.047	0.29	99	0.18	0.00053	989	26	0.0014	0.0028	0.0059	0.0049	1.3	
		April		0.0027	0.75	61	0.82	0.0034	0.047	0.29	99	0.18	0.00053	989	26	0.0014	0.0028	0.0059	0.0049	1.3	
		May		0.0027	0.75	61	0.82	0.0034	0.047	0.29	99	0.18	0.00053	989	26	0.0014	0.0028	0.0059	0.0049	1.3	
		June		0.0027	0.75	61	0.82	0.0034	0.047	0.29	99	0.18	0.00053	989	26	0.0014	0.0028	0.0059	0.0049	1.3	
		July		0.0027	0.75	61	0.82	0.0034	0.047	0.29	99	0.18	0.00053	989	26	0.0014	0.0028	0.0059	0.0049	1.3	
		August		0.0027	0.75	61	0.82	0.0034	0.047	0.29	99	0.18	0.00053	989	26	0.0014	0.0028	0.0059	0.0049	1.3	
		September		0.0027	0.76	61	0.79	0.0034	0.046	0.29	99	0.18	0.00052	1,002	26	0.0014	0.0027	0.0057	0.0048	1.3	
		October		0.0027	0.79	62	0.77	0.0035	0.046	0.29	103	0.19	0.00052	1,070	27	0.0015	0.0028	0.0055	0.0048	1.4	
		November		0.0029	0.85	67	0.79	0.0038	0.048	0.3	112	0.21	0.00054	1,176	29	0.0016	0.003	0.0056	0.005	1.5	
		December		0.003	0.9	70	0.79	0.004	0.049	0.31	118	0.22	0.00055	1,263	31	0.0016	0.0031	0.0055	0.0051	1.6	
		MINIMUM			0.0001	0.001	0.84	0.0029	0.0000054	0.000067	0.001	0.45	0.000056	0.00001	0.99	0.011	0.000010	0.0001	0.000097	0.00054	0.0012
		MAXIMUM			0.003	0.9	70	0.82	0.004	0.049	0.31	118	0.22	0.00055	1,263	31	0.0016	0.0031	0.011	0.0051	1.6
		AVERAGE			0.0015	0.26	33	0.44	0.0012	0.027	0.11	35	0.062	0.00022	325	9.0	0.0005	0.0011	0.0053	0.0027	0.46
		MAXIMUM (total)			0.0031	0.9	70	0.83	0.004	0.049	0.31	118	0.22	0.00058	1,263	31	0.0016	0.0031	0.011	0.006	1.6
		AVERAGE (total)			0.0016	0.26	33	0.45	0.0012	0.027	0.11	36	0.062	0.00024	325	9.0	0.00051	0.0012	0.0053	0.0036	0.46
	Closure and Post-Closure	January	2026	0.003	0.92	71	0.78	0.0041	0.049	0.31	120	0.22	0.00055	1,301	32	0.0017	0.0031	0.0055	0.0051	1.6	
		February		0.003	0.92	71	0.78	0.0041	0.049	0.31	120	0.22	0.00055	1,301	32	0.0017	0.0031	0.0055	0.0051	1.6	
		March		0.003	0.92	71	0.78	0.0041	0.049	0.31	120	0.22	0.00055	1,301	32	0.0017	0.0031	0.0055	0.0051	1.6	
		April		0.000097	0.03	2.3	0.025	0.00013	0.0016	0.0099	3.9	0.0072	0.000018	42	1.0	0.000054	0.0001	0.00018	0.00016	0.052	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		July		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		August		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		September		0.000051	0.00073	0.54	0.0023	0.000005	0.000035	0.00061	0.6	0.000052	0.0000064	0.42	0.0081	0.0000071	0.000083	0.00019	0.00041	0.0011	
		October		0.00014	0.0036	1.6	0.021	0.000041	0.0058	0.0018	6.5	0.00045	0.000019	1.1	0.039	0.000031	0.0005	0.0027	0.0026	0.0083	
		November		0.00012	0.0027	1.3	0.015	0.00003	0.0041	0.0015	4.8	0.00033	0.000016	0.86	0.029	0.000024	0.00038	0.002	0.0019	0.0061	
		December		0.000063	0.0011	0.68	0.0047	0.0000096	0.001	0.00077	1.4	0.0001	0.0000081	0.5	0.012	0.00001	0.00014	0.00052	0.00069	0.002	
		January	≥2027	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		July		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		August		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		September		0.000051	0.00073	0.54	0.0023	0.000005	0.000035	0.00061	0.6	0.000052	0.0000064	0.42	0.0081	0.0000071	0.000083	0.00019	0.00041	0.0011	
		October		0.00014	0.0036	1.6	0.021	0.000041	0.0058	0.0018	6.5	0.00045	0.000019	1.1	0.039	0.000031	0.0005	0.0027	0.0026	0.0083	
		November		0.00012	0.0027	1.3	0.015	0.00003	0.0041	0.0015	4.8	0.00033	0.000016	0.86	0.029	0.000024	0.00038	0.002	0.0019	0.0061	
		December		0.000063	0.0011	0.68	0.0047	0.0000096	0.001	0.00077	1.4	0.0001	0.0000081	0.5	0.012	0.00001	0.00014	0.00052	0.00069	0.002	
		MINIMUM			0.000051	0.00073	0.54	0.0023	0.000005	0.000035	0.00061	0.6	0.000052	0.0000064	0.42	0.0081	0.0000071	0.000083	0.00019	0.00041	0.0011
		MAXIMUM			0.00014	0.0036	1.6	0.021	0.000041	0.0058	0.0018	6.5	0.00045	0.000019	1.1	0.039	0.000031	0.0005	0.0027	0.0026	0.0083
		AVERAGE			0.000094	0.002	1.0	0.011	0.000021	0.0028	0.0012	3.3	0.00023	0.000012	0.71	0.022	0.000018	0.00028	0.0013	0.0014	0.0044
		MAXIMUM (total)			0.00028	0.0039	2.0	0.032	0.000041	0.0058	0.0054	6.7	0.00045	0.00004	1.1	0.04	0.000036	0.00051	0.0027	0.0035	0.009
		AVERAGE (total)			0.00022	0.0023	1.4	0.022	0.000021	0.0029	0.0048	3.5	0.00024	0.000033	0.71	0.023	0.000023	0.00028	0.0014	0.0023	0.0051

Notes:
¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells
²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type
³ CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed
⁴ CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.
⁵ CEQG Freshwater aquatic life criteria for chromium depends on the valence of chromium ion. In the above table, the Cr(VI) criterion of 0.001 mg/L is shown.
⁶ CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.
⁷ The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

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https://goldeassociates.sharepoint.com/sites/102627/Technical%20Work/Reporting/Water%20Quality%20Report/Appendix%20C/14May2019/5_BSP_GWSP_14May2019

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1		
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.007		
Constituent				Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Groundwater Storage Pond 2	Construction and Operations	May	2022	0.0011	0.46	19	0.024	0.0021	0.015	0.051	35	0.11	0.000094	480	16	0.00075	0.001	0.00094	0.001	0.81	
		June		0.00072	0.28	12	0.016	0.0013	0.0093	0.031	21	0.069	0.000061	294	9.7	0.00046	0.00068	0.00064	0.00085	0.5	
		July		0.00096	0.38	16	0.022	0.0017	0.013	0.042	29	0.094	0.000081	400	13	0.00063	0.00091	0.00099	0.0011	0.68	
		August		0.001	0.41	17	0.025	0.0019	0.014	0.046	32	0.1	0.000087	432	14	0.00068	0.00099	0.0011	0.0013	0.73	
		September		0.0009	0.36	15	0.021	0.0016	0.012	0.04	27	0.087	0.000076	374	12	0.00059	0.00086	0.0009	0.0011	0.63	
		October		0.0011	0.43	18	0.024	0.0019	0.014	0.048	33	0.11	0.00009	453	15	0.00071	0.0010	0.00098	0.0011	0.77	
		November		0.0012	0.47	20	0.025	0.0021	0.015	0.052	35	0.11	0.000096	492	16	0.00077	0.0011	0.001	0.0011	0.83	
		December		0.0012	0.48	20	0.026	0.0021	0.016	0.053	36	0.12	0.000098	500	17	0.00078	0.0011	0.001	0.0011	0.85	
		January	2023	0.0012	0.48	21	0.026	0.0022	0.016	0.053	38	0.12	0.000099	524	17	0.00079	0.0011	0.001	0.0011	0.86	
		February		0.0012	0.48	22	0.026	0.0022	0.016	0.053	40	0.12	0.000099	562	17	0.00079	0.0011	0.001	0.0011	0.86	
		March		0.0012	0.49	23	0.026	0.0022	0.016	0.054	42	0.12	0.000099	582	17	0.00079	0.0011	0.001	0.0011	0.86	
		April		0.0012	0.49	24	0.026	0.0022	0.016	0.054	43	0.12	0.000099	595	17	0.00079	0.0011	0.001	0.0011	0.86	
		May		0.0012	0.49	24	0.026	0.0022	0.016	0.054	43	0.12	0.000099	604	17	0.0008	0.0011	0.001	0.0011	0.87	
		June		0.0011	0.47	23	0.025	0.0021	0.015	0.051	42	0.11	0.000095	582	16	0.00076	0.0011	0.00096	0.0011	0.83	
		July		0.0011	0.45	23	0.024	0.002	0.015	0.049	41	0.11	0.000092	564	15	0.00073	0.001	0.00095	0.0011	0.79	
		August		0.0011	0.46	23	0.025	0.0021	0.015	0.05	42	0.11	0.000094	584	16	0.00075	0.001	0.001	0.0011	0.81	
		September		0.0011	0.45	23	0.025	0.002	0.015	0.05	42	0.11	0.000093	581	16	0.00073	0.001	0.001	0.0011	0.8	
		October		0.0011	0.45	24	0.025	0.002	0.015	0.05	43	0.11	0.000094	596	16	0.00074	0.001	0.0010	0.0011	0.81	
		November		0.0012	0.47	25	0.025	0.0021	0.015	0.052	45	0.12	0.000097	621	16	0.00077	0.0011	0.0010	0.0011	0.84	
		December		0.0012	0.48	25	0.026	0.0021	0.016	0.053	45	0.12	0.000098	630	17	0.00078	0.0011	0.0010	0.0011	0.85	
		January	2024	0.0012	0.48	26	0.026	0.0022	0.016	0.053	46	0.12	0.000098	643	17	0.00079	0.0011	0.0010	0.0011	0.85	
		February		0.0012	0.48	26	0.026	0.0022	0.016	0.053	48	0.12	0.000099	663	17	0.00079	0.0011	0.0010	0.0011	0.86	
		March		0.0012	0.48	27	0.026	0.0022	0.016	0.053	49	0.12	0.000099	677	17	0.00079	0.0011	0.0010	0.0011	0.86	
		April		0.0012	0.48	27	0.026	0.0022	0.016	0.053	49	0.12	0.000099	687	17	0.00079	0.0011	0.0010	0.0011	0.86	
		May		0.0012	0.49	28	0.026	0.0022	0.016	0.054	50	0.12	0.000099	695	17	0.00079	0.0011	0.0010	0.0011	0.86	
		June		0.0012	0.47	27	0.025	0.0021	0.015	0.052	49	0.11	0.000096	676	16	0.00077	0.0011	0.00097	0.0011	0.83	
		July		0.0011	0.45	26	0.024	0.002	0.015	0.05	47	0.11	0.000093	659	16	0.00074	0.001	0.00096	0.0011	0.81	
		August		0.0011	0.46	27	0.025	0.0021	0.015	0.051	49	0.11	0.000095	674	16	0.00075	0.001	0.0010	0.0011	0.82	
		September		0.0011	0.46	27	0.025	0.002	0.015	0.05	49	0.11	0.000094	675	16	0.00075	0.001	0.001	0.0011	0.81	
		October		0.0011	0.45	27	0.025	0.002	0.015	0.05	49	0.11	0.000094	679	16	0.00074	0.001	0.0010	0.0011	0.81	
		November		0.0011	0.46	28	0.025	0.0021	0.015	0.051	50	0.11	0.000095	696	16	0.00076	0.0011	0.0010	0.0011	0.82	
		December		0.0012	0.47	28	0.025	0.0021	0.015	0.052	51	0.11	0.000096	706	16	0.00077	0.0011	0.0010	0.0011	0.83	
		January	2025	0.0012	0.47	29	0.025	0.0021	0.015	0.052	52	0.12	0.000097	718	16	0.00077	0.0011	0.0010	0.0011	0.84	
		February		0.0012	0.47	29	0.026	0.0021	0.016	0.052	53	0.12	0.000097	733	16	0.00077	0.0011	0.0010	0.0011	0.84	
		March		0.0012	0.48	30	0.026	0.0021	0.016	0.052	54	0.12	0.000098	745	17	0.00078	0.0011	0.0010	0.0011	0.84	
		April		0.0012	0.48	30	0.026	0.0021	0.016	0.053	54	0.12	0.000098	755	17	0.00078	0.0011	0.0010	0.0011	0.85	
		May		0.0012	0.48	31	0.026	0.0021	0.016	0.053	55	0.12	0.000098	763	17	0.00078	0.0011	0.0010	0.0011	0.85	
		June		0.0011	0.46	30	0.025	0.0021	0.015	0.051	54	0.11	0.000095	746	16	0.00076	0.0011	0.00097	0.0011	0.83	
		July		0.0011	0.45	29	0.024	0.002	0.015	0.05	53	0.11	0.000093	730	16	0.00074	0.001	0.00096	0.0011	0.8	
		August		0.0011	0.46	30	0.025	0.0021	0.015	0.05	54	0.11	0.000094	744	16	0.00075	0.001	0.0010	0.0011	0.81	
		September		0.0011	0.45	30	0.025	0.002	0.015	0.05	54	0.11	0.000094	745	16	0.00074	0.001	0.001	0.0011	0.81	
		October		0.0011	0.45	30	0.025	0.002	0.015	0.05	54	0.11	0.000093	749	16	0.00074	0.001	0.001	0.0011	0.8	
		November		0.0011	0.46	31	0.025	0.0021	0.015	0.051	55	0.11	0.000095	764	16	0.00075	0.001	0.001	0.0011	0.81	
		December		0.0011	0.46	31	0.025	0.0021	0.015	0.051	56	0.11	0.000095	775	16	0.00076	0.0011	0.001	0.0011	0.82	
		MINIMUM			0.00072	0.28	12	0.016	0.0013	0.0093	0.031	21	0.069	0.000061	294	9.7	0.00046	0.00068	0.00064	0.00085	0.5
		MAXIMUM			0.0012	0.49	31	0.026	0.0022	0.016	0.054	56	0.12	0.000099	775	17	0.0008	0.0011	0.0011	0.0013	0.87
		AVERAGE			0.0011	0.46	25	0.025	0.0021	0.015	0.051	45	0.11	0.000094	626	16	0.00075	0.001	0.00099	0.0011	0.81
		MAXIMUM (total)			0.0013	0.49	31	0.037	0.0022	0.016	0.057	56	0.12	0.00012	775	17	0.0008	0.0011	0.0011	0.0022	0.87
		AVERAGE (total)			0.0013	0.46	25	0.036	0.0021	0.015	0.054	45	0.11	0.00012	626	16	0.00075	0.0011	0.001	0.002	0.81

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0	
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3	
LOCATION	Time Period	Constituent	Year	TDS mg/L	Acidity mg/L	Alkalinity mg/L	Cl mg/L	F mg/L	SO4 mg/L	NH3 (as N) mg N/L	NO3 mg N/L	P_total ³ mg/L	Al ⁴ mg/L	Sb mg/L	As ⁷ mg/L	Ba mg/L	Be mg/L	Bi mg/L	B mg/L	Cd ⁶ mg/L	Ca mg/L	Cr ⁵ mg/L	Co mg/L	Cu ⁶ mg/L	Fe mg/L	
Groundwater Storage Pond 2	Closure and Post-Closure	January	2026	347	0.0058	1.3	193	0.059	1.4	10.0	10.0	0.006	0.0000032	0.000072	0.00012	0.0089	0.000015	0.000015	0.017	0.00000075	80	0.00021	0.000053	0.00015	0.005	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		11	1.1	4.8	1.7	0.05	2.6	0.0026	0.0038	0.0015	0.0001	0.0003	0.004	0.0042	0.000013	0.000028	0.0064	0.0000043	1.9	0.00011	0.00013	0.00046	0.032	
		July		114	19	46	11	0.62	35	0.0026	0.0038	0.0084	0.0001	0.0045	0.068	0.035	0.000076	0.000091	0.032	0.000035	19	0.00042	0.0016	0.0026	0.10	
		August		83	14	34	8.2	0.45	25	0.0026	0.0038	0.0063	0.0001	0.0032	0.049	0.026	0.000057	0.000072	0.024	0.000026	14	0.00033	0.0011	0.0019	0.08	
		September		24	3.4	10	2.9	0.12	6.7	0.0026	0.0038	0.0024	0.0001	0.00083	0.012	0.0082	0.000021	0.000036	0.0097	0.0000082	4.1	0.00015	0.00032	0.00073	0.041	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	≥2027	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		11	1.1	4.8	1.7	0.05	2.6	0.0026	0.0038	0.0015	0.0001	0.0003	0.004	0.0042	0.000013	0.000028	0.0064	0.0000043	1.9	0.00011	0.00013	0.00046	0.032	
		July		114	19	46	11	0.62	35	0.0026	0.0038	0.0084	0.0001	0.0045	0.068	0.035	0.000076	0.000091	0.032	0.000035	19	0.00042	0.0016	0.0026	0.10	
		August		83	14	34	8.2	0.45	25	0.0026	0.0038	0.0063	0.0001	0.0032	0.049	0.026	0.000057	0.000072	0.024	0.000026	14	0.00033	0.0011	0.0019	0.08	
		September		24	3.4	10	2.9	0.12	6.7	0.0026	0.0038	0.0024	0.0001	0.00083	0.012	0.0082	0.000021	0.000036	0.0097	0.0000082	4.1	0.00015	0.00032	0.00073	0.041	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		MINIMUM		11	0.0058	1.3	1.7	0.05	1.4	0.0026	0.0038	0.0015	0.0000032	0.000072	0.00012	0.0042	0.000013	0.000015	0.0064	0.00000075	1.9	0.00011	0.000053	0.00015	0.005	
		MAXIMUM		114	19	46	193	0.62	35	10.0	10.0	0.0084	0.0001	0.0045	0.068	0.035	0.000076	0.000091	0.032	0.000035	80	0.00042	0.0016	0.0026	0.10	
		AVERAGE		58	8.3	21	27	0.28	16	1.1	1.1	0.0048	0.000089	0.002	0.03	0.017	0.000039	0.000052	0.018	0.000016	18	0.00025	0.00071	0.0013	0.057	
		MAXIMUM (total)		114	19	46	193	0.62	35	10.0	10.0	0.02	0.33	0.0045	0.072	0.039	0.000083	0.000093	0.032	0.000037	81	0.0086	0.002	0.0031	0.8	
		AVERAGE (total)		58	8.3	21	27	0.29	16	1.1	1.1	0.017	0.33	0.002	0.033	0.021	0.000046	0.000055	0.018	0.000018	18	0.0084	0.0012	0.0018	0.75	

Notes:

¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells

²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type

³CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed

⁴CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.

⁵CEQG Freshwater aquatic life criteria for chromium depends on the valence of chromium ion. In the above table, the Cr(VI) criterion of 0.001 mg/L is shown.

⁶CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.

⁷ The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1			
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.007			
Constituent				Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn		
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
Groundwater Storage Pond 2	Closure and Post-Closure	January	2026	0.000037	0.015	1.0	0.00081	0.000067	0.00049	0.0017	1.8	0.0037	0.0000031	25	0.52	0.000025	0.000034	0.000032	0.000036	0.027		
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		June		0.000053	0.00091	0.57	0.0038	0.0000078	0.00084	0.00064	1.1	0.000084	0.0000068	0.42	0.0099	0.0000084	0.00011	0.00041	0.00056	0.0016		
		July		0.00028	0.008	3.3	0.05	0.000097	0.014	0.0037	16	0.0011	0.000039	2.0	0.086	0.000067	0.0012	0.0067	0.0059	0.02		
		August		0.00022	0.0059	2.5	0.036	0.00007	0.01	0.0028	11	0.00077	0.000029	1.5	0.063	0.00005	0.00084	0.0048	0.0043	0.014		
		September		0.000082	0.0018	0.92	0.0098	0.000019	0.0026	0.001	3.0	0.00021	0.000011	0.62	0.02	0.000016	0.00025	0.0012	0.0012	0.0039		
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		January	≥2027	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		June		0.000053	0.00091	0.57	0.0038	0.0000078	0.00084	0.00064	1.1	0.000084	0.0000068	0.42	0.0099	0.0000084	0.00011	0.00041	0.00056	0.0016		
		July		0.00028	0.008	3.3	0.05	0.000097	0.014	0.0037	16	0.0011	0.000039	2.0	0.086	0.000067	0.0012	0.0067	0.0059	0.02		
		August		0.00022	0.0059	2.5	0.036	0.00007	0.01	0.0028	11	0.00077	0.000029	1.5	0.063	0.00005	0.00084	0.0048	0.0043	0.014		
		September		0.000082	0.0018	0.92	0.0098	0.000019	0.0026	0.001	3.0	0.00021	0.000011	0.62	0.02	0.000016	0.00025	0.0012	0.0012	0.0039		
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		MINIMUM			0.000037	0.00091	0.57	0.00081	0.0000078	0.00049	0.00064	1.1	0.000084	0.0000031	0.42	0.0099	0.0000084	0.000034	0.000032	0.000036	0.0016	
		MAXIMUM			0.00028	0.015	3.3	0.05	0.000097	0.014	0.0037	16	0.0037	0.000039	25	0.52	0.000067	0.0012	0.0067	0.0059	0.027	
		AVERAGE			0.00015	0.0053	1.7	0.022	0.000051	0.0063	0.002	7.2	0.00088	0.00002	3.8	0.098	0.000034	0.00053	0.0029	0.0027	0.012	
		MAXIMUM (total)			0.00042	0.015	3.7	0.061	0.000097	0.014	0.0073	16	0.0037	0.00006	25	0.52	0.000073	0.0012	0.0067	0.0068	0.027	
		AVERAGE (total)			0.00028	0.0056	2.1	0.033	0.000051	0.0063	0.0056	7.4	0.00089	0.00004	3.8	0.099	0.00004	0.00054	0.0029	0.0036	0.012	

Notes:

¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells

²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type

³CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed

⁴CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.

⁵CEQG Freshwater aquatic life criteria for chromium depends on the valence of chromium ion. In the above table, the Cr(VI) criterion of 0.001 mg/L is shown.

⁶CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.

⁷ The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)			1400						16		0.3	0.5		0.1				0.002		0.02		0.1	
Constituent			TDS	Acidity ⁵	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P ³ total ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁵	Ca	Cr ⁵	Co	Cu ⁶
LOCATION	Time Period	Month	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Effluent Discharge	Construction and Operations	January	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		July	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		August	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		September	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		October	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June	75	1.9	24	14	0.085	8.5	0.11	4.2	0.016	0.0011	0.00083	0.019	0.016	0.000033	0.000048	0.18	0.000016	7.0	0.0018	0.0008	0.0022
		July	287	13	73	89	0.35	47	0.15	3.8	0.049	0.00073	0.0036	0.094	0.069	0.000084	0.000085	0.45	0.000068	37	0.0039	0.0033	0.0065
		August	282	11	74	87	0.33	45	0.14	3.6	0.05	0.00084	0.0036	0.1	0.068	0.000084	0.000085	0.48	0.000067	36	0.0042	0.0032	0.0065
		September	150	3.4	37	50	0.17	19	0.099	2.9	0.049	0.001	0.0013	0.056	0.035	0.000048	0.00006	0.21	0.000034	19	0.0018	0.0013	0.003
		October	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June	469	0.52	29	261	0.11	14	0.64	4.6	0.037	0.0011	0.00042	0.018	0.033	0.000038	0.000054	0.14	0.000032	133	0.00068	0.00064	0.0016
		July	318	8.0	69	102	0.31	42	0.33	7.1	0.048	0.0001	0.0047	0.096	0.056	0.000074	0.000073	0.5	0.000057	57	0.005	0.0034	0.0069
		August	251	8.2	78	50	0.33	46	0.19	7.1	0.05	0.0001	0.0053	0.1	0.06	0.000082	0.000077	0.58	0.000061	28	0.0059	0.0036	0.0076
		September	140	2.9	36	30	0.15	20	0.18	6.8	0.04	0.0001	0.0022	0.10	0.03	0.000043	0.000051	0.25	0.00003	14	0.0025	0.0015	0.0033
		October	9.0	0.026	1.8	3.2	0.0062	0.81	0.009	0.32	0.0035	0.0000041	0.000039	0.0022	0.0018	0.000002	0.0000025	0.01	0.0000018	1.0	0.000061	0.000041	0.0001
		November	12	0.0043	2.2	4.9	0.0078	0.97	0.0094	0.33	0.0051	0.0000041	0.000013	0.00045	0.0025	0.0000024	0.000003	0.0098	0.0000024	1.5	0.000033	0.000039	0.000091
		December	12	0.00077	2.2	5.1	0.0079	0.98	0.0092	0.33	0.0057	0.0000041	0.0000087	0.00013	0.0026	0.0000024	0.0000031	0.0095	0.0000025	1.5	0.000027	0.000038	0.000088
		January	10	0.00015	1.8	4.2	0.0068	0.82	0.0087	0.33	0.0082	0.0000041	0.0000073	0.000069	0.0022	0.0000022	0.0000029	0.0079	0.0000021	1.3	0.000022	0.000032	0.000075
		February	8.9	0.00004	1.5	3.4	0.0057	0.68	0.0087	0.34	0.0061	0.0000041	0.0000066	0.00005	0.0018	0.0000019	0.0000027	0.0065	0.0000017	1.0	0.000019	0.000026	0.000064
		March	8.4	0.000012	1.5	3.2	0.0054	0.65	0.0087	0.34	0.006	0.0000041	0.0000064	0.000045	0.0017	0.0000018	0.0000027	0.0061	0.0000016	0.97	0.000018	0.000025	0.000061
		April	8.3	0.0000036	1.4	3.2	0.0053	0.64	0.0087	0.34	0.006	0.0000041	0.0000064	0.000044	0.0017	0.0000018	0.0000027	0.006	0.0000016	0.96	0.000017	0.000024	0.00006
		May	8.3	0.0000012	1.4	3.1	0.0053	0.63	0.0087	0.34	0.006	0.0000041	0.0000063	0.000043	0.0016	0.0000018	0.0000027	0.0059	0.0000016	0.95	0.000017	0.000024	0.000059
		June	74	0.99	14	13	0.061	7.4	0.18	7.0	0.021	0.0001	0.00076	0.05	0.012	0.000021	0.000036	0.076	0.000012	6.0	0.00071	0.00049	0.0012
		July	218	9.3	68	31	0.3	46	0.19	7.6	0.048	0.0001	0.0064	0.098	0.053	0.00007	0.00007	0.5	0.000052	24	0.0051	0.0035	0.0068
		August	242	9.7	79	34	0.32	52	0.19	7.5	0.05	0.0001	0.0075	0.1	0.059	0.000077	0.000075	0.6	0.000058	27	0.006	0.0039	0.0076
		September	130	3.5	35	20	0.14	22	0.18	7.3	0.043	0.0001	0.003	0.1	0.027	0.000039	0.000048	0.26	0.000027	13	0.0025	0.0015	0.0032
		October	6.4	0.036	1.3	1.9	0.0045	0.63	0.0085	0.33	0.0039	0.0000041	0.00005	0.0032	0.0012	0.0000016	0.0000022	0.008	0.0000012	0.67	0.000058	0.000035	0.000084
		November	7.9	0.01	1.4	2.9	0.0052	0.64	0.0087	0.34	0.0056	0.0000041	0.000018	0.00079	0.0016	0.0000018	0.0000026	0.0066	0.0000015	0.89	0.000028	0.000028	0.000067
		December	8.2	0.0049	1.4	3.1	0.0053	0.65	0.0087	0.34	0.0059	0.0000041	0.000011	0.00027	0.0016	0.0000018	0.0000027	0.0062	0.0000016	0.94	0.000022	0.000026	0.000063
		January	7.5	0.004	1.3	2.7	0.0048	0.58	0.0087	0.34	0.0057	0.0000041	0.0000093	0.000015	0.0015	0.0000017	0.0000026	0.0055	0.0000014	0.84	0.000019	0.000023	0.000057
		February																					

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05				0.004		0.25										0.1	
Constituent				Fe	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ²	K	Se	Ag	Na	Sr	Ti	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Effluent Discharge	Construction and Operations	January	2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		July		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		August		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		September		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		0.16	0.00056	0.0024	2.4	0.06	0.000013	0.0023	0.0058	2.3	0.00055	0.000031	8.0	0.044	0.000018	0.00017	0.00077	0.0013	0.0036	
		July		0.25	0.0015	0.0094	12	0.48	0.000033	0.011	0.046	9.4	0.0014	0.0001	31	0.24	0.000052	0.00038	0.0034	0.0026	0.011	
		August		0.24	0.0015	0.0092	12	0.45	0.000032	0.011	0.041	9.2	0.0014	0.000097	31	0.24	0.00005	0.00037	0.0034	0.0028	0.011	
		September		0.23	0.00069	0.005	6.7	0.17	0.000014	0.0059	0.014	3.8	0.0006	0.000039	16	0.13	0.000022	0.00018	0.0018	0.0013	0.0052	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		0.09	0.00037	0.0053	7.2	0.098	0.000009	0.0061	0.0039	2.2	0.00046	0.000017	14	0.17	0.000012	0.00011	0.0018	0.00063	0.0049	
		July		0.29	0.0017	0.0071	7.5	0.51	0.000035	0.0075	0.036	9.5	0.0017	0.000088	27	0.16	0.000046	0.00038	0.0027	0.0036	0.01	
		August		0.3	0.002	0.0076	8.2	0.52	0.000038	0.0082	0.037	11	0.0019	0.000098	30	0.16	0.00005	0.00041	0.0029	0.0041	0.011	
		September		0.3	0.00084	0.004	4.7	0.2	0.000017	0.0042	0.013	4.5	0.00081	0.000042	14	0.092	0.000023	0.00019	0.0015	0.0018	0.005	
		October		0.0084	0.000027	0.00026	0.41	0.0056	0.00000037	0.00035	0.0002	0.15	0.000024	0.0000011	0.84	0.0083	0.00000058	0.0000053	0.00011	0.000044	0.00022	
		November		0.0027	0.000023	0.00036	0.6	0.0064	0.00000024	0.00051	0.00014	0.14	0.000018	0.00000079	1.1	0.012	0.00000045	0.0000044	0.00015	0.000026	0.00026	
		December		0.0016	0.000022	0.00037	0.62	0.0064	0.00000021	0.00053	0.00013	0.14	0.000016	0.00000073	1.1	0.013	0.00000042	0.0000043	0.00016	0.000022	0.00026	
		January	2021	0.0013	0.000019	0.00031	0.52	0.0053	0.00000021	0.00044	0.00011	0.12	0.000014	0.00000067	0.94	0.011	0.00000042	0.0000043	0.00013	0.000021	0.00023	
		February		0.0012	0.000016	0.00026	0.43	0.0043	0.00000021	0.00035	0.000094	0.099	0.000011	0.00000062	0.76	0.0086	0.00000042	0.0000043	0.0001	0.000021	0.00019	
		March		0.0011	0.000015	0.00025	0.4	0.004	0.00000021	0.00033	0.00009	0.094	0.000011	0.0000006	0.71	0.0081	0.00000042	0.0000043	0.000098	0.000021	0.00018	
		April		0.0011	0.000015	0.00024	0.39	0.004	0.00000021	0.00033	0.000089	0.092	0.000011	0.0000006	0.7	0.008	0.00000042	0.0000043	0.000096	0.000021	0.00018	
		May		0.0011	0.000015	0.00024	0.39	0.0039	0.00000021	0.00032	0.000088	0.092	0.000011	0.0000006	0.7	0.0079	0.00000042	0.0000043	0.000095	0.000021	0.00018	
		June		0.14	0.00027	0.0018	2.1	0.067	0.0000067	0.0016	0.0048	1.7	0.00025	0.000016	4.8	0.04	0.000011	0.00010	0.00056	0.00075	0.002	
		July		0.29	0.0017	0.0065	6.3	0.52	0.000037	0.0064	0.039	12	0.0018	0.000096	24	0.13	0.000053	0.00042	0.0025	0.0043	0.0097	
		August		0.3	0.002	0.0072	7.1	0.56	0.000041	0.0073	0.041	13	0.0021	0.00011	27	0.14	0.000058	0.00046	0.0028	0.0051	0.011	
		September		0.3	0.00084	0.0036	3.8	0.21	0.000018	0.0035	0.015	5.5	0.0009	0.000045	12	0.074	0.000026	0.00021	0.0013	0.0022	0.0049	
		October		0.0087	0.000023	0.00018	0.26	0.0044	0.00000039	0.00021	0.00021	0.13	0.000022	0.0000011	0.56	0.0051	0.00000062	0.0000055	0.000067	0.000049	0.00017	
		November		0.003	0.000017	0.00023	0.36	0.0042	0.00000026	0.0003	0.00012	0.1	0.000014	0.00000073	0.67	0.0073	0.00000047	0.0000047	0.00009	0.000029	0.00018	
		December		0.0017	0.000016	0.00024	0.39	0.0041	0.00000023	0.00032	0.00011	0.098	0.000012	0.00000065	0.7	0.0078	0.00000044	0.0000045	0.000095	0.000024	0.00018	
		January	2022	0.0014	0.000014	0.00022	0.35	0.0037	0.00000022	0.00028	0.000097	0.088	0.00001	0.00000061	0.62	0.007	0.00000043	0.0000044	0.000084	0.000023	0.00016	
		February		0.0013	0.000012	0.00019	0.29	0.0031	0.00000022	0.00023	0.000088	0.077	0.0000091	0.00000058	0.52	0.0058	0.00000043	0.0000044	0.000069	0.000023	0.00014	
		March		0.0013	0.000012	0.00018	0.28	0.0029	0.00000022	0.00022	0.000085	0.073	0.0000087	0.00000058	0.49	0.0055	0.00000043	0.0000044	0.000065	0.000023	0.00014	
		April		0.3	0.00042	0.0017	1.0	0.012	0.000013	0.00024	0.0023	0.69	0.00014	0.000019	5.9	0.013	0.000013	0.00013	0.0004	0.0012	0.0024	
		May		0.29	0.00041	0.0017	1.0	0.011	0.000013	0.00024	0.0023	0.68	0.00015	0.000023	6.3	0.013	0.000013	0.00013	0.00039	0.0012	0.0025	
		June		0.15	0.00024	0.0019	1.7	0.048	0.0000084	0.0011	0.0042	1.6	0.00029	0.000016	4.2	0.04	0.000012	0.00011	0.00043	0.0008	0.0024	
		July		0.27	0.0015	0.0062	4.9	0.34	0.000037	0.0048	0.03	11	0.0019	0.000087	20	0.12	0.00005	0.00036	0.002	0.0044	0.0096	
		August		0.28	0.0017	0.0072	5.6	0.49	0.000043	0.0059	0.045	13	0.0021	0.00011	23	0.14	0.000062	0.00045	0.0023	0.0048	0.011	
		September		0.29	0.0007	0.0037	3.0	0.23	0.000021	0.0028	0.022	5.7	0.00088	0.000052	10	0.075	0.000031	0.00023	0.001	0.0021	0.0055	
		October		0.01	0.00006	0.0014																

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ²	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁵	Ca	Cr ⁵	Co	Cu ⁶
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Effluent Discharge	Construction and Operations	January	2024	68	60	56	5.7	0.02	1.3	2.1	0.28	0.05	0.1	0.0005	0.0001	0.0013	0.00005	0.00072	0.065	0.00001	0.9	0.0005	0.00005	0.014
		February		68	60	56	5.7	0.02	1.3	2.1	0.28	0.05	0.1	0.0005	0.0001	0.0013	0.00005	0.00072	0.065	0.00001	0.9	0.0005	0.00005	0.014
		March		68	60	56	5.7	0.02	1.3	2.1	0.28	0.05	0.1	0.0005	0.0001	0.0013	0.00005	0.00072	0.065	0.00001	0.9	0.0005	0.00005	0.014
		April		68	60	56	5.7	0.02	1.3	2.1	0.28	0.05	0.1	0.0005	0.0001	0.0013	0.00005	0.00072	0.065	0.00001	0.9	0.0005	0.00005	0.014
		May		68	60	56	5.7	0.02	1.3	2.1	0.28	0.05	0.1	0.0005	0.0001	0.0013	0.00005	0.00072	0.065	0.00001	0.9	0.0005	0.00005	0.014
		June		95	1.6	14	21	0.067	7.9	0.57	8.6	0.039	0.0004	0.00073	0.041	0.013	0.000024	0.000045	0.069	0.000013	9.4	0.00061	0.00049	0.0012
		July		247	13	55	56	0.27	40	2.7	9.8	0.039	0.0022	0.0058	0.075	0.04	0.000063	0.000077	0.38	0.000034	36	0.0042	0.0028	0.0059
		August		267	16	63	56	0.31	48	2.6	9.6	0.042	0.0021	0.0065	0.079	0.048	0.00007	0.000085	0.43	0.000042	39	0.0047	0.0035	0.0068
		September		153	7.7	29	35	0.15	22	1.7	8.3	0.035	0.0014	0.0028	0.087	0.024	0.000037	0.000058	0.19	0.000021	21	0.002	0.0016	0.0032
		October		68	75	56	5.7	0.02	1.3	2.1	0.28	0.05	0.1	0.0005	0.0001	0.0013	0.00005	0.00095	0.065	0.00001	0.9	0.0005	0.00005	0.014
		November		68	75	56	5.7	0.02	1.3	2.1	0.28	0.05	0.1	0.0005	0.0001	0.0013	0.00005	0.00095	0.065	0.00001	0.9	0.0005	0.00005	0.014
		December		68	75	56	5.7	0.02	1.3	2.1	0.28	0.05	0.1	0.0005	0.0001	0.0013	0.00005	0.00095	0.065	0.00001	0.9	0.0005	0.00005	0.014
		January	2025	68	75	56	5.7	0.02	1.3	2.1	0.28	0.05	0.1	0.0005	0.0001	0.0013	0.00005	0.00095	0.065	0.00001	0.9	0.0005	0.00005	0.014
		February		68	75	56	5.7	0.02	1.3	2.1	0.28	0.05	0.1	0.0005	0.0001	0.0013	0.00005	0.00095	0.065	0.00001	0.9	0.0005	0.00005	0.014
		March		68	75	56	5.7	0.02	1.3	2.1	0.28	0.05	0.1	0.0005	0.0001	0.0013	0.00005	0.00095	0.065	0.00001	0.9	0.0005	0.00005	0.014
		April		68	75	56	5.7	0.02	1.3	2.1	0.28	0.05	0.1	0.0005	0.0001	0.0013	0.00005	0.00095	0.065	0.00001	0.9	0.0005	0.00005	0.014
		May		68	75	56	5.7	0.02	1.3	2.1	0.28	0.05	0.1	0.0005	0.0001	0.0013	0.00005	0.00095	0.065	0.00001	0.9	0.0005	0.00005	0.014
		June		88	2.1	13	17	0.063	7.7	0.57	8.6	0.038	0.0004	0.00077	0.038	0.011	0.000023	0.000045	0.064	0.000011	8.8	0.00061	0.0005	0.0012
		July		253	15	54	60	0.28	41	2.8	10	0.039	0.0022	0.0055	0.075	0.038	0.000064	0.000084	0.38	0.000033	38	0.0041	0.0028	0.0058
		August		263	16	61	58	0.31	45	2.6	9.6	0.042	0.0021	0.006	0.079	0.045	0.000068	0.000088	0.43	0.000041	39	0.0046	0.0034	0.0066
		September		149	6.5	28	36	0.14	19	1.7	8.4	0.033	0.0014	0.0025	0.087	0.022	0.000035	0.000058	0.19	0.00002	21	0.002	0.0015	0.003
		October		68	74	56	5.7	0.02	1.3	2.1	0.28	0.05	0.1	0.0005	0.0001	0.0013	0.00005	0.0011	0.065	0.00001	0.9	0.0005	0.00005	0.014
		November		68	74	56	5.7	0.02	1.3	2.1	0.28	0.05	0.1	0.0005	0.0001	0.0013	0.00005	0.0011	0.065	0.00001	0.9	0.0005	0.00005	0.014
		December		68	74	56	5.7	0.02	1.3	2.1	0.28	0.05	0.1	0.0005	0.0001	0.0013	0.00005	0.0011	0.065	0.00001	0.9	0.0005	0.00005	0.014
		MINIMUM		6.3	0.0000012	1.1	1.9	0.004	0.47	0.0085	0.013	0.0035	0.0000041	0.0000063	0.000043	0.0012	0.0000015	0.0000022	0.0043	0.0000012	0.67	0.000016	0.000019	0.000049
		MAXIMUM		469	75	79	261	0.35	52	2.8	10	0.05	0.1	0.0075	0.1	0.069	0.000084	0.0011	0.6	0.000068	133	0.006	0.0039	0.014
		AVERAGE		106	26	40	22	0.095	12	1.2	3.1	0.036	0.039	0.0017	0.03	0.015	0.000041	0.00031	0.15	0.000018	12	0.0015	0.00088	0.0071
		MAXIMUM (total)		469	75	79	261	0.35	52	2.8	10	0.062	0.43	0.0075	0.1	0.073	0.000091	0.0011	0.6	0.00007	133	0.014	0.0043	0.014
		AVERAGE (total)		106	26	40	22	0.097	12	1.2	3.1	0.048	0.37	0.0017	0.033	0.019	0.000048	0.00031	0.15	0.00002	12	0.0096	0.0014	0.0076

Notes:

¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05				0.004		0.25									0.1			
Constituent				Fe	Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Ti	Sn	U	V	Zn		
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
Effluent Discharge	Construction and Operations	January	2024	0.01	0.00006	0.0014	0.1	0.001	0.00001	0.0001	0.0005	0.1	0.0005	0.0002	25	0.025	0.00002	0.00008	0.00001	0.001	0.005		
		February		0.01	0.00006	0.0014	0.1	0.001	0.00001	0.0001	0.0005	0.1	0.0005	0.0002	25	0.025	0.00002	0.00008	0.00001	0.001	0.005		
		March		0.01	0.00006	0.0014	0.1	0.001	0.00001	0.0001	0.0005	0.1	0.0005	0.0002	25	0.025	0.00002	0.00008	0.00001	0.001	0.005		
		April		0.01	0.00006	0.0014	0.1	0.001	0.00001	0.0001	0.0005	0.1	0.0005	0.0002	25	0.025	0.00002	0.00008	0.00001	0.001	0.005		
		May		0.01	0.00006	0.0014	0.1	0.001	0.00001	0.0001	0.0005	0.1	0.0005	0.0002	25	0.025	0.00002	0.00008	0.00001	0.001	0.005		
		June		0.12	0.00025	0.0026	2.3	0.066	0.00001	0.0018	0.0056	1.9	0.00039	0.000019	5.7	0.066	0.000014	0.00011	0.00058	0.00079	0.0033		
		July		0.23	0.0013	0.009	4.2	0.33	0.000053	0.0048	0.039	12	0.0025	0.0001	22	0.21	0.000062	0.00041	0.0019	0.0043	0.015		
		August		0.24	0.0015	0.0096	4.8	0.47	0.000058	0.0056	0.051	13	0.0027	0.00012	24	0.22	0.000072	0.00049	0.0021	0.0047	0.016		
		September		0.26	0.00069	0.0053	2.5	0.23	0.00003	0.0026	0.024	6.0	0.0013	0.000056	12	0.13	0.000036	0.00025	0.00096	0.0021	0.0088		
		October		0.01	0.00006	0.0014	0.1	0.001	0.00001	0.0001	0.0005	0.1	0.0005	0.0002	25	0.025	0.00002	0.00008	0.00001	0.001	0.005		
		November		0.01	0.00006	0.0014	0.1	0.001	0.00001	0.0001	0.0005	0.1	0.0005	0.0002	25	0.025	0.00002	0.00008	0.00001	0.001	0.005		
		December		0.01	0.00006	0.0014	0.1	0.001	0.00001	0.0001	0.0005	0.1	0.0005	0.0002	25	0.025	0.00002	0.00008	0.00001	0.001	0.005		
		January	2025	0.01	0.00006	0.0014	0.1	0.001	0.00001	0.0001	0.0005	0.1	0.0005	0.0002	25	0.025	0.00002	0.00008	0.00001	0.001	0.005		
		February		0.01	0.00006	0.0014	0.1	0.001	0.00001	0.0001	0.0005	0.1	0.0005	0.0002	25	0.025	0.00002	0.00008	0.00001	0.001	0.005		
		March		0.01	0.00006	0.0014	0.1	0.001	0.00001	0.0001	0.0005	0.1	0.0005	0.0002	25	0.025	0.00002	0.00008	0.00001	0.001	0.005		
		April		0.01	0.00006	0.0014	0.1	0.001	0.00001	0.0001	0.0005	0.1	0.0005	0.0002	25	0.025	0.00002	0.00008	0.00001	0.001	0.005		
		May		0.01	0.00006	0.0014	0.1	0.001	0.00001	0.0001	0.0005	0.1	0.0005	0.0002	25	0.025	0.00002	0.00008	0.00001	0.001	0.005		
		June		0.13	0.00023	0.0024	1.8	0.065	0.000011	0.0013	0.0068	1.9	0.00039	0.000021	4.9	0.056	0.000015	0.00012	0.00045	0.00079	0.0033		
		July		0.23	0.0013	0.009	4.0	0.33	0.000056	0.0049	0.043	12	0.0025	0.00011	22	0.21	0.000066	0.00044	0.0018	0.004	0.016		
		August		0.24	0.0015	0.0093	4.3	0.46	0.000059	0.0055	0.05	13	0.0026	0.00012	24	0.21	0.000071	0.00049	0.002	0.0044	0.016		
		September		0.26	0.00068	0.005	2.2	0.22	0.000029	0.0024	0.02	5.4	0.0013	0.00005	12	0.12	0.000033	0.00024	0.00092	0.002	0.0086		
		October		0.01	0.00006	0.0014	0.1	0.001	0.00001	0.0001	0.0005	0.1	0.0005	0.0002	25	0.025	0.00002	0.00008	0.00001	0.001	0.005		
		November		0.01	0.00006	0.0014	0.1	0.001	0.00001	0.0001	0.0005	0.1	0.0005	0.0002	25	0.025	0.00002	0.00008	0.00001	0.001	0.005		
		December		0.01	0.00006	0.0014	0.1	0.001	0.00001	0.0001	0.0005	0.1	0.0005	0.0002	25	0.025	0.00002	0.00008	0.00001	0.001	0.005		
		MINIMUM				0.0011	0.000012	0.00018	0.1	0.001	0.00000021	0.0001	0.000085	0.073	0.0000087	0.00000058	0.49	0.0051	0.00000042	0.0000043	0.00001	0.000021	0.00014
		MAXIMUM				0.3	0.002	0.0096	12	0.56	0.000059	0.011	0.051	13	0.0027	0.0002	31	0.24	0.000072	0.00049	0.0034	0.0051	0.016
		AVERAGE				0.1	0.00045	0.003	2.1	0.12	0.000016	0.002	0.011	3.1	0.00075	0.0001	17	0.066	0.000024	0.00015	0.00071	0.0015	0.0055
		MAXIMUM (total)				1.0	0.0021	0.0099	12	0.57	0.000059	0.011	0.055	14	0.0027	0.00022	31	0.24	0.000078	0.0005	0.0035	0.0059	0.017
		AVERAGE (total)				0.8	0.00058	0.0033	2.5	0.13	0.000016	0.002	0.014	3.2	0.00076	0.00012	17	0.067	0.000029	0.00016	0.00072	0.0024	0.0062

Notes:

¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025			1.5		0.00004		0.001		0.002
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁵	Co	Cu ⁸
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Mammoth Lake	Construction and Operations	January	2018	15	0	5.2	4.2	0.026	2.3	0.0065	0.0051	0.0022	0.0034	0.0001	0.00035	0.0059	0.00002	0.00005	0.01	0.000005	3.1	0.0001	0.0001	0.0004
		February		15	0	5.2	4.2	0.026	2.3	0.0065	0.0051	0.0022	0.0034	0.0001	0.00035	0.0059	0.00002	0.00005	0.01	0.000005	3.1	0.0001	0.0001	0.0004
		March		15	0	5.2	4.2	0.026	2.3	0.0065	0.0051	0.0022	0.0034	0.0001	0.00035	0.0059	0.00002	0.00005	0.01	0.000005	3.1	0.0001	0.0001	0.0004
		April		15	0	5.2	4.2	0.026	2.3	0.0065	0.0051	0.0022	0.0034	0.0001	0.00035	0.0059	0.00002	0.00005	0.01	0.000005	3.1	0.0001	0.0001	0.0004
		May		15	0	5.2	4.2	0.026	2.3	0.0065	0.0051	0.0022	0.0034	0.0001	0.00035	0.0059	0.00002	0.00005	0.01	0.000005	3.1	0.0001	0.0001	0.0004
		June		14	0	5.0	3.8	0.026	2.1	0.0064	0.0083	0.0024	0.0027	0.00010	0.00031	0.0055	0.00002	0.00005	0.010	0.000005	2.9	0.0001	0.00010	0.00042
		July		13	0	4.9	3.6	0.026	1.9	0.0063	0.01	0.0026	0.0021	0.00010	0.00027	0.0052	0.00002	0.00005	0.010	0.000005	2.7	0.0001	0.00010	0.00044
		August		13	0	5.0	3.6	0.027	2.0	0.0064	0.01	0.0027	0.0021	0.0001	0.00028	0.0053	0.00002	0.000051	0.01	0.0000051	2.8	0.0001	0.0001	0.00044
		September		13	0	5.0	3.6	0.027	2.0	0.0064	0.011	0.0027	0.0021	0.0001	0.00028	0.0053	0.00002	0.000051	0.01	0.0000051	2.8	0.00011	0.0001	0.00045
		October		13	0	5.0	3.6	0.027	2.0	0.0064	0.011	0.0027	0.0021	0.0001	0.00028	0.0053	0.00002	0.000051	0.01	0.0000051	2.8	0.00011	0.0001	0.00045
		November		13	0	5.0	3.6	0.027	2.0	0.0064	0.011	0.0027	0.0021	0.0001	0.00028	0.0053	0.00002	0.000051	0.01	0.0000051	2.8	0.00011	0.0001	0.00045
		December		13	0	5.0	3.6	0.027	2.0	0.0064	0.011	0.0027	0.0021	0.0001	0.00028	0.0053	0.00002	0.000051	0.01	0.0000051	2.8	0.00011	0.0001	0.00045
		January	2019	13	0	5.0	3.6	0.027	2.0	0.0064	0.011	0.0027	0.0021	0.0001	0.00028	0.0053	0.00002	0.000051	0.01	0.0000051	2.8	0.00011	0.0001	0.00045
		February		13	0	5.0	3.6	0.027	2.0	0.0064	0.011	0.0027	0.0021	0.0001	0.00028	0.0053	0.00002	0.000051	0.01	0.0000051	2.8	0.00011	0.0001	0.00045
		March		13	0	5.0	3.6	0.027	2.0	0.0064	0.011	0.0027	0.0021	0.0001	0.00028	0.0053	0.00002	0.000051	0.01	0.0000051	2.8	0.00011	0.0001	0.00045
		April		13	0	5.0	3.6	0.027	2.0	0.0064	0.011	0.0027	0.0021	0.0001	0.00028	0.0053	0.00002	0.000051	0.01	0.0000051	2.8	0.00011	0.0001	0.00045
		May		13	0	5.0	3.6	0.027	2.0	0.0064	0.011	0.0027	0.0021	0.0001	0.00028	0.0053	0.00002	0.000051	0.01	0.0000051	2.8	0.00011	0.0001	0.00045
		June		19	0.19	7.0	4.2	0.032	2.6	0.018	0.46	0.0034	0.0021	0.00018	0.002	0.0062	0.000022	0.00005	0.031	0.0000061	3.1	0.00032	0.00018	0.00064
		July		25	0.39	8.4	5.9	0.038	3.4	0.023	0.65	0.0049	0.0021	0.00024	0.0039	0.0074	0.000023	0.000051	0.039	0.0000073	3.7	0.00039	0.00023	0.00075
		August		32	0.69	10	8.2	0.046	4.5	0.026	0.73	0.0061	0.0021	0.00033	0.0064	0.0092	0.000025	0.000052	0.051	0.0000089	4.6	0.00049	0.00031	0.00091
		September		38	0.9	12	10	0.053	5.4	0.029	0.81	0.0077	0.0021	0.0004	0.0089	0.011	0.000026	0.000053	0.061	0.00001	5.4	0.00058	0.00037	0.001
		October		40	0.93	12	11	0.055	5.7	0.031	0.85	0.0086	0.0021	0.00042	0.0098	0.011	0.000026	0.000053	0.063	0.000011	5.7	0.00059	0.00039	0.0011
		November		40	0.93	12	11	0.055	5.7	0.031	0.85	0.0086	0.0021	0.00042	0.0098	0.011	0.000026	0.000053	0.063	0.000011	5.7	0.00059	0.00039	0.0011
		December		40	0.93	12	11	0.055	5.7	0.031	0.85	0.0086	0.0021	0.00042	0.0098	0.011	0.000026	0.000053	0.063	0.000011	5.7	0.00059	0.00039	0.0011
		January	2020	40	0.93	12	11	0.055	5.7	0.031	0.85	0.0086	0.0021	0.00042	0.0098	0.011	0.000026	0.000053	0.063	0.000011	5.7	0.00059	0.00039	0.0011
		February		40	0.93	12	11	0.055	5.7	0.031	0.85	0.0086	0.0021	0.00042	0.0098	0.011	0.000026	0.000053	0.063	0.000011	5.7	0.00059	0.00039	0.0011
		March		40	0.93	12	11	0.055	5.7	0.031	0.85	0.0086	0.0021	0.00042	0.0098	0.011	0.000026	0.000053	0.063	0.000011	5.7	0.00059	0.00039	0.0011
		April		40	0.93	12	11	0.055	5.7	0.031	0.85	0.0086	0.0021	0.00042	0.0098	0.011	0.000026	0.000053	0.063	0.000011	5.7	0.00059	0.00039	0.0011
		May		40	0.93	12	11	0.055	5.7	0.031	0.85	0.0086	0.0021	0.00042	0.0098	0.011	0.000026	0.000053	0.063	0.000011	5.7	0.00059	0.00039	0.0011
		June		75	0.83	14	31	0.061	6.4	0.076	1.1	0.011	0.0021	0.00039	0.0095	0.013	0.000027	0.000053	0.069	0.000013	15	0.00057	0.0004	0.0011
		July		98	0.77	14	46	0.061	6.5	0.11	1.3	0.012	0.0022	0.00039	0.0099	0.014	0.000027	0.000053	0.068	0.000013	23	0.00055	0.0004	0.0011
		August		101	0.9	15	46	0.066	7.2	0.12	1.4	0.013	0.0022	0.00048	0.011	0.015	0.000029	0.000054	0.077	0.000014	23	0.00065	0.00046	0.0012
		September		100	0.97	16	44	0.069	7.6	0.11	1.5	0.013	0.0022	0.00054	0.013	0.015	0.000029	0.000054	0.083	0.000015	23	0.00071	0.00049	0.0013
		October		96	0.94	15	42	0.067	7.4	0.11	1.5	0.013	0.0022	0.00053	0.014	0.015	0.000029	0.000054	0.081	0.000014	21	0.0007	0.00048	0.0013
		November		95	0.94	15	42	0.067	7.4	0.11	1.5	0.013	0.0022	0.00053	0.014	0.015	0.000029	0.000054	0.08	0.000014	21	0.00069	0.00048	0.0013
		December		95	0.93	15	41	0.067	7.4	0.11	1.5	0.013	0.0022	0.00053	0.014	0.014	0.000029	0.000053	0.08	0.000014	21	0.00069	0.00048	0.0012
		January	2021	95	0.93	15	41	0.067	7.3	0.11	1.4	0.013	0.0022	0.00053	0.014	0.014	0.000028	0.000053	0.08	0.000014	21	0.00069	0.00048	0.0012
		February		94	0.92	15	41	0.066	7.3	0.11	1.4	0.013	0.0022	0.00052	0.014	0.014	0.000028	0.000053	0.079	0.000014	21	0.00068	0.00047	0.0012
		March		94	0.92	15	41	0.066	7.3	0.11	1.4	0.013	0.0022	0.00052	0.013	0.014	0.000028	0.000053	0.079	0.000014	21	0.00068	0.00047	0.0012
		April		94	0.92	15	41	0.066																

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05					0.004		0.25								0.1		
CEQG aquatic life (long-term) ² (mg/L)				0.3	0.001					0.000026	0.073	0.025		0.001	0.0003			0.0008		0.015	0.007	
Constituent				Fe	Pb ⁶	Li	Mg	Mn		Hg	Mo	Ni ⁵	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Mammoth Lake	Construction and Operations	January	2018	0.01	0.000066	0.0011	0.94	0.0011		0.0000051	0.000051	0.00074	0.59	0.00005	0.00001	0.6	0.02	0.00001	0.0001	0.00002	0.0005	0.001
		February		0.01	0.000066	0.0011	0.94	0.0011		0.0000051	0.000051	0.00074	0.59	0.00005	0.00001	0.6	0.02	0.00001	0.0001	0.00002	0.0005	0.001
		March		0.01	0.000066	0.0011	0.94	0.0011		0.0000051	0.000051	0.00074	0.59	0.00005	0.00001	0.6	0.02	0.00001	0.0001	0.00002	0.0005	0.001
		April		0.01	0.000066	0.0011	0.94	0.0011		0.0000051	0.000051	0.00074	0.59	0.00005	0.00001	0.6	0.02	0.00001	0.0001	0.00002	0.0005	0.001
		May		0.01	0.000066	0.0011	0.94	0.0011		0.0000051	0.000051	0.00074	0.59	0.00005	0.00001	0.6	0.02	0.00001	0.0001	0.00002	0.0005	0.001
		June		0.012	0.000063	0.001	0.89	0.0012		0.0000051	0.000051	0.00072	0.55	0.00005	0.000010	0.59	0.018	0.000010	0.00010	0.000023	0.0005	0.001
		July		0.013	0.000062	0.001	0.86	0.0013		0.0000051	0.000051	0.00071	0.52	0.00005	0.000010	0.58	0.017	0.000010	0.00010	0.000026	0.0005	0.0011
		August		0.014	0.000063	0.0011	0.87	0.0013		0.0000051	0.000051	0.00072	0.52	0.000051	0.00001	0.59	0.018	0.00001	0.0001	0.000026	0.00051	0.0011
		September		0.014	0.000063	0.0011	0.87	0.0013		0.0000052	0.000051	0.00072	0.53	0.000051	0.00001	0.59	0.018	0.00001	0.0001	0.000026	0.00051	0.0011
		October		0.014	0.000063	0.0011	0.87	0.0013		0.0000052	0.000051	0.00072	0.52	0.000051	0.00001	0.59	0.018	0.00001	0.0001	0.000026	0.00051	0.0011
		November		0.014	0.000063	0.0011	0.87	0.0013		0.0000052	0.000051	0.00072	0.52	0.000051	0.00001	0.59	0.018	0.00001	0.0001	0.000026	0.00051	0.0011
		December		0.014	0.000063	0.0011	0.87	0.0013		0.0000052	0.000051	0.00072	0.52	0.000051	0.00001	0.59	0.018	0.00001	0.0001	0.000026	0.00051	0.0011
		January	2019	0.014	0.000063	0.0011	0.87	0.0013		0.0000052	0.000051	0.00072	0.52	0.000051	0.00001	0.59	0.018	0.00001	0.0001	0.000026	0.00051	0.0011
		February		0.014	0.000063	0.0011	0.87	0.0013		0.0000052	0.000051	0.00072	0.52	0.000051	0.00001	0.59	0.018	0.00001	0.0001	0.000026	0.00051	0.0011
		March		0.014	0.000063	0.0011	0.87	0.0013		0.0000052	0.000051	0.00072	0.52	0.000051	0.00001	0.59	0.018	0.00001	0.0001	0.000026	0.00051	0.0011
		April		0.014	0.000063	0.0011	0.87	0.0013		0.0000052	0.000051	0.00072	0.52	0.000051	0.00001	0.59	0.018	0.00001	0.0001	0.000026	0.00051	0.0011
		May		0.014	0.000063	0.0011	0.87	0.0013		0.0000052	0.000051	0.00072	0.52	0.000051	0.00001	0.59	0.018	0.00001	0.0001	0.000026	0.00051	0.0011
		June		0.027	0.00012	0.0012	0.97	0.0061		0.0000062	0.00024	0.0012	0.73	0.00011	0.000013	1.3	0.019	0.000011	0.00011	0.000092	0.0006	0.0013
		July		0.037	0.00015	0.0013	1.2	0.014		0.0000066	0.00047	0.0019	0.88	0.00014	0.000014	1.9	0.024	0.000012	0.00011	0.00016	0.00064	0.0015
		August		0.042	0.00019	0.0016	1.5	0.026		0.0000074	0.00076	0.003	1.1	0.00017	0.000016	2.7	0.03	0.000013	0.00012	0.00025	0.0007	0.0018
		September		0.049	0.00022	0.0017	1.8	0.035		0.0000079	0.001	0.0038	1.3	0.0002	0.000018	3.4	0.035	0.000014	0.00013	0.00033	0.00075	0.002
		October		0.053	0.00022	0.0018	1.9	0.038		0.000008	0.0011	0.0039	1.3	0.0002	0.000018	3.7	0.037	0.000014	0.00013	0.00036	0.00075	0.002
		November		0.053	0.00022	0.0018	1.9	0.038		0.000008	0.0011	0.0039	1.3	0.0002	0.000018	3.7	0.037	0.000014	0.00013	0.00036	0.00075	0.002
		December		0.053	0.00022	0.0018	1.9	0.038		0.000008	0.0011	0.0039	1.3	0.0002	0.000018	3.7	0.037	0.000014	0.00013	0.00036	0.00075	0.002
		January	2020	0.053	0.00022	0.0018	1.9	0.038		0.000008	0.0011	0.0039	1.3	0.0002	0.000018	3.7	0.037	0.000014	0.00013	0.00036	0.00075	0.002
		February		0.053	0.00022	0.0018	1.9	0.038		0.000008	0.0011	0.0039	1.3	0.0002	0.000018	3.7	0.037	0.000014	0.00013	0.00036	0.00075	0.002
		March		0.053	0.00022	0.0018	1.9	0.038		0.000008	0.0011	0.0039	1.3	0.0002	0.000018	3.7	0.037	0.000014	0.00013	0.00036	0.00075	0.002
		April		0.053	0.00022	0.0018	1.9	0.038		0.000008	0.0011	0.0039	1.3	0.0002	0.000018	3.7	0.037	0.000014	0.00013	0.00036	0.00075	0.002
		May		0.053	0.00022	0.0018	1.9	0.038		0.000008	0.0011	0.0039	1.3	0.0002	0.000018	3.7	0.037	0.000014	0.00013	0.00036	0.00075	0.002
		June		0.052	0.00023	0.0022	2.5	0.042		0.0000078	0.0017	0.0037	1.4	0.00022	0.000018	4.7	0.051	0.000013	0.00012	0.00051	0.00072	0.0023
		July		0.053	0.00023	0.0022	2.5	0.044		0.0000078	0.0017	0.0036	1.4	0.00022	0.000017	4.9	0.054	0.000013	0.00012	0.00054	0.00071	0.0023
		August		0.057	0.00026	0.0023	2.6	0.052		0.0000084	0.0018	0.0042	1.6	0.00025	0.000019	5.3	0.056	0.000014	0.00013	0.00058	0.00078	0.0025
		September		0.062	0.00028	0.0024	2.7	0.057		0.0000088	0.0019	0.0045	1.7	0.00027	0.00002	5.5	0.056	0.000014	0.00013	0.0006	0.00082	0.0026
		October		0.063	0.00027	0.0023	2.6	0.056		0.0000086	0.0018	0.0044	1.6	0.00027	0.000019	5.4	0.055	0.000014	0.00013	0.00058	0.00081	0.0025
		November		0.063	0.00027	0.0023	2.6	0.056		0.0000086	0.0018	0.0044	1.6	0.00026	0.000019	5.4	0.055	0.000014	0.00013	0.00058	0.00081	0.0025
		December		0.063	0.00027	0.0023	2.6	0.056		0.0000086	0.0018	0.0044	1.6	0.00026	0.000019	5.3	0.054	0.000014	0.00013	0.00057	0.00081	0.0025
		January	2021	0.062	0.00027	0.0023	2.6	0.055		0.0000085	0.0018	0.0044	1.6	0.00026	0.000019	5.3	0.054	0.000014	0.00013	0.00057	0.0008	0.0025
		February		0.062	0.00027	0.0023	2.6	0.055		0.0000085	0.0018	0.0044	1.6	0.00026	0.000019	5.3	0.054	0.000014	0.00013	0.00057	0.0008	0.0025
		March		0.062	0.00027	0.0023	2.5	0.055		0.0000085	0.0018	0.0043	1.6	0.00026	0.000019	5.3	0.054	0.000014	0.00013	0.00057	0.0008	0.0025
		April		0.062	0.00027	0.0023	2.5	0.055		0.0000084	0.0018	0.0043	1.6	0.00026	0.000019	5.3	0.054	0.000014	0.00013	0.00057	0.00079	0.0025
		May		0.061	0.00027	0.0023	2.5	0.055		0.0000084	0.0018	0.0043	1.6	0.00026	0.000019	5.2	0.053	0.000014	0.00013	0.00056	0.00079	0.0025
		June		0.054	0.00023	0.002	2.2	0.045		0.0000077	0.0015	0.0036	1.4	0.00022	0.000017	4.4	0.047	0.000013	0.00012	0.00047	0.00073	0.0022
		July		0.046	0.00019	0.0018	1.9	0.035		0.0000071	0.0012	0.0029	1.2	0.00018	0.000015	3.6	0.04	0.000012	0.00012	0.00038	0.00068	0.002
		August		0.046	0.00019	0.0018	1.9	0.035		0.0000072	0.0012	0.0029	1.2	0.00018	0.000016	3.6	0.04	0.000012	0.00012	0.00038	0.00069	0

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025			1.5	0.00004		0.001		0.002		
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁵	Co	Cu ⁸	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Mammoth Lake	Construction and Operations	January	2024	33	0.43	8.5	10	0.043	3.8	0.064	0.84	0.0077	0.0037	0.00035	0.0074	0.0079	0.000023	0.000052	0.035	0.000008	5.8	0.00035	0.00025	0.00082	
		February		33	0.43	8.5	10	0.043	3.8	0.064	0.84	0.0077	0.0037	0.00035	0.0074	0.0079	0.000023	0.000052	0.035	0.000008	5.8	0.00035	0.00025	0.00082	
		March		33	0.43	8.5	10	0.043	3.8	0.064	0.84	0.0077	0.0037	0.00035	0.0074	0.0079	0.000023	0.000052	0.035	0.000008	5.8	0.00035	0.00025	0.00082	
		April		33	0.43	8.5	10	0.043	3.8	0.064	0.84	0.0077	0.0037	0.00035	0.0074	0.0079	0.000023	0.000052	0.035	0.000008	5.8	0.00035	0.00025	0.00082	
		May		33	0.43	8.5	10	0.043	3.8	0.064	0.84	0.0077	0.0037	0.00035	0.0074	0.0079	0.000023	0.000052	0.035	0.000008	5.8	0.00035	0.00025	0.00082	
		June		33	0.49	8.6	9.4	0.044	3.9	0.079	0.94	0.0079	0.0037	0.00037	0.0079	0.0078	0.000023	0.000052	0.035	0.000008	5.5	0.00036	0.00026	0.00083	
		July		33	0.56	8.6	8.9	0.044	4.0	0.097	1.1	0.0083	0.0037	0.00039	0.0086	0.0079	0.000023	0.000052	0.036	0.0000079	5.2	0.00037	0.00027	0.00084	
		August		33	0.56	8.7	8.9	0.044	4.1	0.098	1.1	0.0084	0.0038	0.00039	0.0087	0.0079	0.000023	0.000052	0.036	0.000008	5.2	0.00037	0.00027	0.00085	
		September		33	0.59	8.8	8.9	0.045	4.1	0.1	1.1	0.0085	0.0038	0.0004	0.0089	0.008	0.000024	0.000053	0.036	0.0000081	5.2	0.00037	0.00027	0.00086	
		October		33	0.62	8.8	8.8	0.045	4.2	0.11	1.2	0.0086	0.0038	0.00041	0.0092	0.008	0.000024	0.000052	0.037	0.0000081	5.2	0.00038	0.00028	0.00086	
		November		33	0.62	8.8	8.8	0.045	4.2	0.11	1.2	0.0086	0.0038	0.00041	0.0092	0.008	0.000024	0.000052	0.037	0.0000081	5.2	0.00038	0.00028	0.00086	
		December		33	0.62	8.8	8.8	0.045	4.2	0.11	1.2	0.0086	0.0038	0.00041	0.0092	0.008	0.000024	0.000052	0.037	0.0000081	5.2	0.00038	0.00028	0.00086	
		January	2025	33	0.62	8.8	8.8	0.045	4.2	0.11	1.2	0.0086	0.0038	0.00041	0.0092	0.008	0.000024	0.000052	0.037	0.0000081	5.2	0.00038	0.00028	0.00086	
		February		33	0.62	8.8	8.8	0.045	4.2	0.11	1.2	0.0086	0.0038	0.00041	0.0092	0.008	0.000024	0.000052	0.037	0.0000081	5.2	0.00038	0.00028	0.00086	
		March		33	0.62	8.8	8.8	0.045	4.2	0.11	1.2	0.0086	0.0038	0.00041	0.0092	0.008	0.000024	0.000052	0.037	0.0000081	5.2	0.00038	0.00028	0.00086	
		April		33	0.62	8.8	8.8	0.045	4.2	0.11	1.2	0.0086	0.0038	0.00041	0.0092	0.008	0.000024	0.000052	0.037	0.0000081	5.2	0.00038	0.00028	0.00086	
		May		33	0.62	8.8	8.8	0.045	4.2	0.11	1.2	0.0086	0.0038	0.00041	0.0092	0.008	0.000024	0.000052	0.037	0.0000081	5.2	0.00038	0.00028	0.00086	
		June		34	0.71	8.9	8.6	0.045	4.3	0.13	1.3	0.0089	0.0038	0.00044	0.0097	0.008	0.000023	0.000052	0.037	0.0000081	5.2	0.00039	0.00029	0.00088	
		July		35	0.8	9.0	8.5	0.046	4.4	0.15	1.4	0.0094	0.0038	0.00046	0.01	0.0081	0.000023	0.000052	0.038	0.0000081	5.1	0.0004	0.0003	0.0009	
		August		35	0.81	9.1	8.6	0.046	4.5	0.15	1.4	0.0094	0.0039	0.00046	0.01	0.0082	0.000024	0.000053	0.039	0.0000082	5.2	0.0004	0.0003	0.00091	
		September		35	0.84	9.2	8.6	0.047	4.6	0.16	1.5	0.0095	0.0039	0.00047	0.011	0.0082	0.000024	0.000053	0.039	0.0000082	5.2	0.00041	0.0003	0.00092	
		October		36	0.88	9.3	8.6	0.047	4.6	0.16	1.5	0.0096	0.0039	0.00048	0.011	0.0083	0.000024	0.000053	0.04	0.0000082	5.2	0.00041	0.00031	0.00092	
		November		36	0.88	9.3	8.6	0.047	4.6	0.16	1.5	0.0096	0.0039	0.00048	0.011	0.0083	0.000024	0.000053	0.04	0.0000082	5.2	0.00041	0.00031	0.00092	
		December		36	0.88	9.3	8.6	0.047	4.6	0.16	1.5	0.0096	0.0039	0.00048	0.011	0.0083	0.000024	0.000053	0.04	0.0000082	5.2	0.00041	0.00031	0.00092	
		MINIMUM MAXIMUM AVERAGE		13	0.19	4.9	3.6	0.026	1.9	0.0063	0.0051	0.0022	0.0021	0.00010	0.00027	0.0052	0.00002	0.00005	0.010	0.000005	2.7	0.0001	0.00010	0.0004	
				101	0.97	16	46	0.069	7.6	0.16	1.5	0.013	0.0039	0.00054	0.014	0.015	0.000029	0.000054	0.083	0.000015	23	0.00071	0.00049	0.0013	
				42	0.62	9.5	15	0.046	4.3	0.064	0.81	0.0078	0.003	0.00034	0.0073	0.009	0.000024	0.000052	0.041	0.0000088	8.2	0.00039	0.00028	0.00085	
	Closure, no mine contact water discharge	January	2026	36	0.88	9.3	8.6	0.047	4.6	0.16	1.5	0.0096	0.0039	0.00048	0.011	0.0083	0.000024	0.000053	0.04	0.0000082	5.2	0.00041	0.00031	0.00092	
		February		36	0.88	9.3	8.6	0.047	4.6	0.16	1.5	0.0096	0.0039	0.00048	0.011	0.0083	0.000024	0.000053	0.04	0.0000082	5.2	0.00041	0.00031	0.00092	
		March		36	0.88	9.3	8.6	0.047	4.6	0.16	1.5	0.0096	0.0039	0.00048	0.011	0.0083	0.000024	0.000053	0.04	0.0000082	5.2	0.00041	0.00031	0.00092	
		April		36	0.88	9.3	8.6	0.047	4.6	0.16	1.5	0.0096	0.0039	0.00048	0.011	0.0083	0.000024	0.000053	0.04	0.0000082	5.2	0.00041	0.00031	0.00092	
		May		36	0.88	9.3	8.6	0.047	4.6	0.16	1.5	0.0096	0.0039	0.00048	0.011	0.0083	0.000024	0.000053	0.04	0.0000082	5.2	0.00041	0.00031	0.00092	
		June		35	0.83	9.0	8.4	0.046	4.5	0.15	1.4	0.0092	0.0038	0.00046	0.01	0.0081	0.000024	0.000053	0.038	0.000008	5.1	0.0004	0.00029	0.00089	
		July		33	0.78	8.8	8.1	0.045	4.3	0.14	1.3	0.0087	0.0038	0.00044	0.0097	0.008	0.000023	0.000053	0.036	0.0000079	5.0	0.00038	0.00028	0.00086	
		August		34	0.77	8.9	8.2	0.045	4.4	0.14	1.3	0.0088	0.0039	0.00044	0.0097	0.0081	0.000024	0.000053	0.036	0.0000079	5.0	0.00038	0.00028	0.00087	
		September		33	0.76	8.8	8.1	0.045	4.3	0.14	1.3	0.0086	0.0039	0.00043	0.0095	0.0081	0.000024	0.000054	0.036	0.0000079	5.0	0.00037	0.00028	0.00086	
		October		33	0.75	8.7	8.0	0.044	4.3	0.14	1.3	0.0085	0.0039	0.00043	0.0093	0.008	0.000024	0.000054	0.035	0.0000078	5.0	0.00037	0.00028	0.00085	
		November		33	0.75	8.7	8.0	0.044	4.3	0.14	1.3	0.0085	0.0039	0.00043	0.0093	0.008	0.000024	0.000054	0.035	0.0000078	5.0	0.00037	0.00028	0.00085	
		December		33	0.75	8.7	8.0	0.044	4.3	0.14	1.3	0.0085	0.0039	0.00043	0.0093	0.008	0.000024	0.000054	0.035	0.0000078	5.0	0.00037	0.00028	0.00085	
		January	2027	33	0.75	8.7	8.0	0.044	4.3	0.14	1.3	0.0085	0.0039	0.00043	0.0093	0.008	0.000024	0.000054	0.035	0.0000078	5.0	0.00037	0.00028	0.00085	
		February		33	0.75	8.7	8.0	0.044	4.3	0.14	1.3														

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05				0.004		0.25									0.1		
CEQG aquatic life (long-term) ² (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.0003			0.0008		0.015		0.007	
Constituent				Fe	Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Mammoth Lake	Construction and Operations	January	2024	0.042	0.00014	0.0015	1.3	0.023	0.0000067	0.00058	0.0023	0.96	0.00014	0.000014	2.2	0.028	0.000012	0.00011	0.00021	0.00067	0.0017	
		February		0.042	0.00014	0.0015	1.3	0.023	0.0000067	0.00058	0.0023	0.96	0.00014	0.000014	2.2	0.028	0.000012	0.00011	0.00021	0.00067	0.0017	
		March		0.042	0.00014	0.0015	1.3	0.023	0.0000067	0.00058	0.0023	0.96	0.00014	0.000014	2.2	0.028	0.000012	0.00011	0.00021	0.00067	0.0017	
		April		0.042	0.00014	0.0015	1.3	0.023	0.0000067	0.00058	0.0023	0.96	0.00014	0.000014	2.2	0.028	0.000012	0.00011	0.00021	0.00067	0.0017	
		May		0.042	0.00014	0.0015	1.3	0.023	0.0000067	0.00058	0.0023	0.96	0.00014	0.000014	2.2	0.028	0.000012	0.00011	0.00021	0.00067	0.0017	
		June		0.043	0.00014	0.0015	1.3	0.024	0.0000068	0.00057	0.0024	0.99	0.00015	0.000014	2.2	0.028	0.000012	0.00011	0.00021	0.00067	0.0017	
		July		0.044	0.00015	0.0015	1.3	0.025	0.000007	0.00057	0.0025	1.0	0.00016	0.000015	2.3	0.028	0.000012	0.00011	0.00021	0.00068	0.0017	
		August		0.044	0.00015	0.0015	1.3	0.025	0.0000071	0.00057	0.0026	1.0	0.00016	0.000015	2.3	0.029	0.000012	0.00012	0.00021	0.00069	0.0018	
		September		0.045	0.00015	0.0015	1.3	0.026	0.0000072	0.00058	0.0026	1.1	0.00016	0.000015	2.3	0.029	0.000012	0.00012	0.00021	0.0007	0.0018	
		October		0.045	0.00015	0.0015	1.3	0.027	0.0000072	0.00058	0.0027	1.1	0.00017	0.000015	2.4	0.029	0.000012	0.00012	0.00022	0.0007	0.0018	
		November		0.045	0.00015	0.0015	1.3	0.027	0.0000072	0.00058	0.0027	1.1	0.00017	0.000015	2.4	0.029	0.000012	0.00012	0.00022	0.0007	0.0018	
		December		0.045	0.00015	0.0015	1.3	0.027	0.0000072	0.00058	0.0027	1.1	0.00017	0.000015	2.4	0.029	0.000012	0.00012	0.00022	0.0007	0.0018	
		January	2025	0.045	0.00015	0.0015	1.3	0.027	0.0000072	0.00058	0.0027	1.1	0.00017	0.000015	2.4	0.029	0.000012	0.00012	0.00022	0.0007	0.0018	
		February		0.045	0.00015	0.0015	1.3	0.027	0.0000072	0.00058	0.0027	1.1	0.00017	0.000015	2.4	0.029	0.000012	0.00012	0.00022	0.0007	0.0018	
		March		0.045	0.00015	0.0015	1.3	0.027	0.0000072	0.00058	0.0027	1.1	0.00017	0.000015	2.4	0.029	0.000012	0.00012	0.00022	0.0007	0.0018	
		April		0.045	0.00015	0.0015	1.3	0.027	0.0000072	0.00058	0.0027	1.1	0.00017	0.000015	2.4	0.029	0.000012	0.00012	0.00022	0.0007	0.0018	
		May		0.045	0.00015	0.0015	1.3	0.027	0.0000072	0.00058	0.0027	1.1	0.00017	0.000015	2.4	0.029	0.000012	0.00012	0.00022	0.0007	0.0018	
		June		0.046	0.00015	0.0016	1.3	0.028	0.0000074	0.00058	0.0029	1.1	0.00018	0.000015	2.4	0.03	0.000013	0.00012	0.00022	0.00071	0.0019	
		July		0.048	0.00016	0.0016	1.3	0.029	0.0000076	0.00059	0.0031	1.2	0.00019	0.000016	2.5	0.031	0.000013	0.00012	0.00022	0.00072	0.0019	
		August		0.048	0.00016	0.0016	1.3	0.03	0.0000077	0.00059	0.0031	1.2	0.00019	0.000016	2.5	0.031	0.000013	0.00012	0.00022	0.00073	0.0019	
		September		0.048	0.00016	0.0016	1.3	0.03	0.0000078	0.0006	0.0032	1.2	0.0002	0.000016	2.5	0.031	0.000013	0.00012	0.00022	0.00074	0.002	
		October		0.049	0.00016	0.0016	1.3	0.031	0.0000079	0.0006	0.0032	1.2	0.0002	0.000016	2.6	0.032	0.000013	0.00012	0.00023	0.00074	0.002	
		November		0.049	0.00016	0.0016	1.3	0.031	0.0000079	0.0006	0.0032	1.2	0.0002	0.000016	2.6	0.032	0.000013	0.00012	0.00023	0.00074	0.002	
		December		0.049	0.00016	0.0016	1.3	0.031	0.0000079	0.0006	0.0032	1.2	0.0002	0.000016	2.6	0.032	0.000013	0.00012	0.00023	0.00074	0.002	
		MINIMUM		0.01	0.000062	0.001	0.86	0.0011	0.0000051	0.000051	0.00071	0.52	0.00005	0.000010	0.58	0.017	0.000010	0.00010	0.00002	0.0005	0.001	
		MAXIMUM		0.063	0.00028	0.0024	2.7	0.057	0.0000088	0.0019	0.0045	1.7	0.00027	0.00002	5.5	0.056	0.000014	0.00013	0.0006	0.00082	0.0026	
		AVERAGE		0.041	0.00016	0.0016	1.5	0.026	0.0000069	0.00076	0.0026	1.0	0.00015	0.000015	2.7	0.032	0.000012	0.00012	0.00026	0.00067	0.0018	
	Closure, no mine contact water discharge	January	2026	0.049	0.00016	0.0016	1.3	0.031	0.0000079	0.0006	0.0032	1.2	0.0002	0.000016	2.6	0.032	0.000013	0.00012	0.00023	0.00074	0.002	
		February		0.049	0.00016	0.0016	1.3	0.031	0.0000079	0.0006	0.0032	1.2	0.0002	0.000016	2.6	0.032	0.000013	0.00012	0.00023	0.00074	0.002	
		March		0.049	0.00016	0.0016	1.3	0.031	0.0000079	0.0006	0.0032	1.2	0.0002	0.000016	2.6	0.032	0.000013	0.00012	0.00023	0.00074	0.002	
		April		0.049	0.00016	0.0016	1.3	0.031	0.0000079	0.0006	0.0032	1.2	0.0002	0.000016	2.6	0.032	0.000013	0.00012	0.00023	0.00074	0.002	
		May		0.049	0.00016	0.0016	1.3	0.031	0.0000079	0.0006	0.0032	1.2	0.0002	0.000016	2.6	0.032	0.000013	0.00012	0.00023	0.00074	0.002	
		June		0.046	0.00016	0.0016	1.3	0.029	0.0000077	0.00057	0.0031	1.2	0.00019	0.000016	2.4	0.031	0.000013	0.00012	0.00021	0.00073	0.0019	
		July		0.044	0.00015	0.0016	1.3	0.027	0.0000076	0.00054	0.003	1.1	0.00018	0.000015	2.3	0.03	0.000013	0.00012	0.0002	0.00071	0.0019	
		August		0.044	0.00015	0.0016	1.3	0.027	0.0000076	0.00054	0.003	1.1	0.00018	0.000016	2.3	0.03	0.000013	0.00012	0.0002	0.00072	0.0019	
		September		0.044	0.00015	0.0016	1.3	0.027	0.0000076	0.00053	0.0029	1.1	0.00018	0.000016	2.3	0.03	0.000013	0.00012	0.0002	0.00072	0.0019	
		October		0.043	0.00015	0.0016	1.3	0.026	0.0000076	0.00052	0.0029	1.1	0.00018	0.000015	2.3	0.03	0.000013	0.00012	0.0002	0.00071	0.0019	
		November		0.043	0.00015	0.0016	1.3	0.026	0.0000076	0.00052	0.0029	1.1	0.00018	0.000015	2.3	0.03	0.000013	0.00012	0.0002	0.00071	0.0019	
		December		0.043	0.00015	0.0016	1.3	0.026	0.0000076	0.00052	0.0029	1.1	0.00018	0.000015	2.3	0.03	0.000013	0.00012	0.0002	0.00071	0.0019	
		January	2027	0.043	0.00015	0.0016	1.3	0.026	0.0000076	0.00052	0.0029	1.1	0.00018	0.000015	2.3	0.03	0.000013	0.00012	0.0002	0.00071	0.0019	
		February		0.043	0.00015	0.0016	1.3	0.026	0.0000076	0.00052	0.0029	1.1	0.00018	0.000015	2.3	0.03	0.000013	0.00012	0.0002	0.00071	0.0019	
		March		0.043	0.00015	0.0016	1.3	0.026	0.0000076	0.00052	0.0029	1.1	0.00018	0.000015	2.3	0.03	0.000013	0.00012	0.0002	0.00071	0.0019	
		April		0.043	0.00015	0.0016	1.3	0.026	0.0000076	0.00052	0.0029	1.1	0.00018	0.000015	2.3	0.03	0.000013	0.00012	0.0002	0.00071	0.0019	
		May		0.043	0.00015	0.0016	1.3	0.026	0.0000076	0.00052	0.0029	1.1	0.00018	0.000015	2.3	0.03	0.000013	0.00012	0.0002	0.00071	0.0019	
		June		0.041	0.00014	0.0015	1.2	0.025	0.0000074	0.00049	0.0028	1.1	0.00017	0.000015	2.2	0.029	0.000013	0.00012	0.00019	0.0007	0.0018	
		July		0.039	0.00014	0.0015	1.2	0.023	0.0000073	0.00047	0.0026	1.1	0.00016	0.000015	2.1	0.029	0.000012	0.00012	0.00018	0.00069	0.0018	
		August		0.039	0.00014	0.0015	1.2	0.023	0.0000073	0.00047	0.0026	1.1	0.00016	0.000015	2.1	0.029	0.00.					

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025			1.5		0.00004		0.001		0.002
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁵	Co	Cu ⁸
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Mammoth Lake	Closure, no mine contact water discharge	January	2029	28	0.54	7.9	7.1	0.04	3.8	0.1	0.92	0.0068	0.0038	0.00034	0.0069	0.0076	0.000023	0.000054	0.029	0.0000072	4.6	0.0003	0.00023	0.00074
		February		28	0.54	7.9	7.1	0.04	3.8	0.1	0.92	0.0068	0.0038	0.00034	0.0069	0.0076	0.000023	0.000054	0.029	0.0000072	4.6	0.0003	0.00023	0.00074
		March		28	0.54	7.9	7.1	0.04	3.8	0.1	0.92	0.0068	0.0038	0.00034	0.0069	0.0076	0.000023	0.000054	0.029	0.0000072	4.6	0.0003	0.00023	0.00074
		April		28	0.54	7.9	7.1	0.04	3.8	0.1	0.92	0.0068	0.0038	0.00034	0.0069	0.0076	0.000023	0.000054	0.029	0.0000072	4.6	0.0003	0.00023	0.00074
		May		28	0.54	7.9	7.1	0.04	3.8	0.1	0.92	0.0068	0.0038	0.00034	0.0069	0.0076	0.000023	0.000054	0.029	0.0000072	4.6	0.0003	0.00023	0.00074
		June		28	0.51	7.7	6.9	0.039	3.7	0.097	0.87	0.0066	0.0038	0.00032	0.0065	0.0075	0.000023	0.000054	0.028	0.0000071	4.5	0.00029	0.00022	0.00072
		July		27	0.48	7.6	6.8	0.038	3.6	0.092	0.81	0.0063	0.0038	0.00031	0.0061	0.0074	0.000023	0.000054	0.027	0.000007	4.4	0.00027	0.00022	0.0007
		August		27	0.48	7.7	6.8	0.039	3.7	0.092	0.81	0.0063	0.0038	0.00031	0.0061	0.0075	0.000023	0.000054	0.027	0.000007	4.4	0.00028	0.00022	0.00071
		September		27	0.47	7.6	6.8	0.039	3.7	0.09	0.8	0.0062	0.0038	0.00031	0.006	0.0075	0.000023	0.000054	0.026	0.000007	4.4	0.00027	0.00022	0.0007
		October		27	0.46	7.6	6.7	0.038	3.6	0.089	0.78	0.0062	0.0038	0.0003	0.0059	0.0075	0.000023	0.000054	0.026	0.000007	4.4	0.00027	0.00021	0.0007
		November		27	0.46	7.6	6.7	0.038	3.6	0.089	0.78	0.0062	0.0038	0.0003	0.0059	0.0075	0.000023	0.000054	0.026	0.000007	4.4	0.00027	0.00021	0.0007
		December		27	0.46	7.6	6.7	0.038	3.6	0.089	0.78	0.0062	0.0038	0.0003	0.0059	0.0075	0.000023	0.000054	0.026	0.000007	4.4	0.00027	0.00021	0.0007
		January	2030	27	0.46	7.6	6.7	0.038	3.6	0.089	0.78	0.0062	0.0038	0.0003	0.0059	0.0075	0.000023	0.000054	0.026	0.000007	4.4	0.00027	0.00021	0.0007
		February		27	0.46	7.6	6.7	0.038	3.6	0.089	0.78	0.0062	0.0038	0.0003	0.0059	0.0075	0.000023	0.000054	0.026	0.000007	4.4	0.00027	0.00021	0.0007
		March		27	0.46	7.6	6.7	0.038	3.6	0.089	0.78	0.0062	0.0038	0.0003	0.0059	0.0075	0.000023	0.000054	0.026	0.000007	4.4	0.00027	0.00021	0.0007
		April		27	0.46	7.6	6.7	0.038	3.6	0.089	0.78	0.0062	0.0038	0.0003	0.0059	0.0075	0.000023	0.000054	0.026	0.000007	4.4	0.00027	0.00021	0.0007
		May		27	0.46	7.6	6.7	0.038	3.6	0.089	0.78	0.0062	0.0038	0.0003	0.0059	0.0075	0.000023	0.000054	0.026	0.000007	4.4	0.00027	0.00021	0.0007
		June		26	0.43	7.4	6.6	0.038	3.5	0.084	0.74	0.0059	0.0038	0.00029	0.0056	0.0074	0.000023	0.000054	0.025	0.0000068	4.3	0.00026	0.00021	0.00068
		July		25	0.41	7.3	6.4	0.037	3.5	0.079	0.69	0.0057	0.0038	0.00028	0.0053	0.0073	0.000023	0.000054	0.024	0.0000067	4.2	0.00025	0.0002	0.00066
		August		25	0.41	7.4	6.5	0.037	3.5	0.079	0.69	0.0057	0.0038	0.00028	0.0053	0.0074	0.000023	0.000054	0.024	0.0000068	4.3	0.00025	0.0002	0.00067
		September		25	0.4	7.4	6.5	0.037	3.5	0.078	0.68	0.0057	0.0038	0.00028	0.0052	0.0074	0.000023	0.000055	0.024	0.0000068	4.3	0.00025	0.0002	0.00066
		October		25	0.39	7.3	6.4	0.037	3.5	0.077	0.67	0.0056	0.0038	0.00028	0.0051	0.0073	0.000023	0.000054	0.024	0.0000067	4.3	0.00025	0.0002	0.00066
		November		25	0.39	7.3	6.4	0.037	3.5	0.077	0.67	0.0056	0.0038	0.00028	0.0051	0.0073	0.000023	0.000054	0.024	0.0000067	4.3	0.00025	0.0002	0.00066
		December		25	0.39	7.3	6.4	0.037	3.5	0.077	0.67	0.0056	0.0038	0.00028	0.0051	0.0073	0.000023	0.000054	0.024	0.0000067	4.3	0.00025	0.0002	0.00066
		January	2031	25	0.39	7.3	6.4	0.037	3.5	0.077	0.67	0.0056	0.0038	0.00028	0.0051	0.0073	0.000023	0.000054	0.024	0.0000067	4.3	0.00025	0.0002	0.00066
		February		25	0.39	7.3	6.4	0.037	3.5	0.077	0.67	0.0056	0.0038	0.00028	0.0051	0.0073	0.000023	0.000054	0.024	0.0000067	4.3	0.00025	0.0002	0.00066
		March		25	0.39	7.3	6.4	0.037	3.5	0.077	0.67	0.0056	0.0038	0.00028	0.0051	0.0073	0.000023	0.000054	0.024	0.0000067	4.3	0.00025	0.0002	0.00066
		April		25	0.39	7.3	6.4	0.037	3.5	0.077	0.67	0.0056	0.0038	0.00028	0.0051	0.0073	0.000023	0.000054	0.024	0.0000067	4.3	0.00025	0.0002	0.00066
		May		25	0.39	7.3	6.4	0.037	3.5	0.077	0.67	0.0056	0.0038	0.00028	0.0051	0.0073	0.000023	0.000054	0.024	0.0000067	4.3	0.00025	0.0002	0.00066
		June		24	0.37	7.2	6.3	0.036	3.4	0.073	0.63	0.0054	0.0038	0.00027	0.0048	0.0072	0.000023	0.000054	0.023	0.0000066	4.2	0.00024	0.00019	0.00064
		July		24	0.35	7.1	6.2	0.036	3.3	0.069	0.59	0.0052	0.0038	0.00026	0.0045	0.0072	0.000023	0.000054	0.022	0.0000065	4.1	0.00023	0.00019	0.00063
		August		24	0.35	7.1	6.2	0.036	3.4	0.069	0.59	0.0052	0.0038	0.00026	0.0045	0.0072	0.000023	0.000055	0.022	0.0000066	4.2	0.00023	0.00019	0.00063
		September		24	0.34	7.1	6.2	0.036	3.3	0.067	0.58	0.0052	0.0038	0.00025	0.0045	0.0072	0.000023	0.000055	0.022	0.0000066	4.2	0.00023	0.00019	0.00063
		October		24	0.33	7.1	6.1	0.036	3.3	0.066	0.57	0.0051	0.0038	0.00025	0.0044	0.0072	0.000023	0.000055	0.022	0.0000066	4.1	0.00023	0.00019	0.00063
		November		24	0.33	7.1	6.1	0.036	3.3	0.066	0.57	0.0051	0.0038	0.00025	0.0044	0.0072	0.000023	0.000055	0.022	0.0000066	4.1	0.00023	0.00019	0.00063
		December		24	0.33	7.1	6.1	0.036	3.3	0.066	0.57	0.0051	0.0038	0.00025	0.0044	0.0072	0.000023	0.000055	0.022	0.0000066	4.1	0.00023	0.00019	0.00063
		January	2032	24	0.33	7.1	6.1	0.036	3.3	0.066	0.57	0.0051	0.0038	0.00025	0.0044	0.0072	0.000023	0.000055	0.022	0.0000066	4.1	0.00023	0.00019	0.00063
		February		24	0.33	7.1	6.1	0.036	3.3	0.066	0.57	0.0051	0.0038	0.00025	0.0044	0.0072	0.000023	0.000055	0.022	0.0000066	4.1	0.00023	0.00019	0.00063
		March		24	0.33	7.1	6.1	0.036	3.3	0.066	0.5													

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05				0.004		0.25									0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.0003			0.0008		0.015		0.007
Constituent				Fe	Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Mammoth Lake	Closure, no mine contact water discharge	January	2029	0.034	0.00013	0.0015	1.2	0.019	0.000007	0.00039	0.0023	1.0	0.00014	0.000014	1.8	0.028	0.000012	0.00012	0.00015	0.00067	0.0017
		February		0.034	0.00013	0.0015	1.2	0.019	0.000007	0.00039	0.0023	1.0	0.00014	0.000014	1.8	0.028	0.000012	0.00012	0.00015	0.00067	0.0017
		March		0.034	0.00013	0.0015	1.2	0.019	0.000007	0.00039	0.0023	1.0	0.00014	0.000014	1.8	0.028	0.000012	0.00012	0.00015	0.00067	0.0017
		April		0.034	0.00013	0.0015	1.2	0.019	0.000007	0.00039	0.0023	1.0	0.00014	0.000014	1.8	0.028	0.000012	0.00012	0.00015	0.00067	0.0017
		May		0.034	0.00013	0.0015	1.2	0.019	0.000007	0.00039	0.0023	1.0	0.00014	0.000014	1.8	0.028	0.000012	0.00012	0.00015	0.00067	0.0017
		June		0.033	0.00012	0.0014	1.2	0.018	0.0000069	0.00037	0.0022	0.97	0.00014	0.000014	1.8	0.027	0.000012	0.00011	0.00014	0.00066	0.0016
		July		0.031	0.00012	0.0014	1.2	0.017	0.0000068	0.00035	0.0021	0.95	0.00013	0.000014	1.7	0.027	0.000012	0.00011	0.00013	0.00065	0.0016
		August		0.032	0.00012	0.0014	1.2	0.017	0.0000069	0.00035	0.0021	0.96	0.00013	0.000014	1.7	0.027	0.000012	0.00012	0.00013	0.00066	0.0016
		September		0.031	0.00012	0.0014	1.2	0.017	0.0000069	0.00035	0.0021	0.95	0.00013	0.000014	1.7	0.027	0.000012	0.00012	0.00013	0.00066	0.0016
		October		0.031	0.00012	0.0014	1.2	0.017	0.0000068	0.00034	0.0021	0.94	0.00013	0.000014	1.7	0.027	0.000012	0.00012	0.00013	0.00065	0.0016
		November		0.031	0.00012	0.0014	1.2	0.017	0.0000068	0.00034	0.0021	0.94	0.00013	0.000014	1.7	0.027	0.000012	0.00012	0.00013	0.00065	0.0016
		December		0.031	0.00012	0.0014	1.2	0.017	0.0000068	0.00034	0.0021	0.94	0.00013	0.000014	1.7	0.027	0.000012	0.00012	0.00013	0.00065	0.0016
		January	2030	0.031	0.00012	0.0014	1.2	0.017	0.0000068	0.00034	0.0021	0.94	0.00013	0.000014	1.7	0.027	0.000012	0.00012	0.00013	0.00065	0.0016
		February		0.031	0.00012	0.0014	1.2	0.017	0.0000068	0.00034	0.0021	0.94	0.00013	0.000014	1.7	0.027	0.000012	0.00012	0.00013	0.00065	0.0016
		March		0.031	0.00012	0.0014	1.2	0.017	0.0000068	0.00034	0.0021	0.94	0.00013	0.000014	1.7	0.027	0.000012	0.00012	0.00013	0.00065	0.0016
		April		0.031	0.00012	0.0014	1.2	0.017	0.0000068	0.00034	0.0021	0.94	0.00013	0.000014	1.7	0.027	0.000012	0.00012	0.00013	0.00065	0.0016
		May		0.031	0.00012	0.0014	1.2	0.017	0.0000068	0.00034	0.0021	0.94	0.00013	0.000014	1.7	0.027	0.000012	0.00012	0.00013	0.00065	0.0016
		June		0.03	0.00012	0.0014	1.2	0.016	0.0000067	0.00033	0.002	0.92	0.00013	0.000014	1.6	0.026	0.000012	0.00011	0.00012	0.00064	0.0015
		July		0.028	0.00011	0.0014	1.1	0.015	0.0000066	0.00031	0.0019	0.9	0.00012	0.000013	1.5	0.026	0.000012	0.00011	0.00012	0.00063	0.0015
		August		0.029	0.00011	0.0014	1.2	0.015	0.0000067	0.00031	0.0019	0.91	0.00012	0.000013	1.5	0.026	0.000012	0.00011	0.00012	0.00064	0.0015
		September		0.028	0.00011	0.0014	1.2	0.015	0.0000067	0.00031	0.0019	0.91	0.00012	0.000013	1.5	0.026	0.000012	0.00012	0.00011	0.00064	0.0015
		October		0.028	0.00011	0.0014	1.2	0.014	0.0000067	0.0003	0.0019	0.9	0.00012	0.000013	1.5	0.026	0.000012	0.00011	0.00011	0.00064	0.0015
		November		0.028	0.00011	0.0014	1.2	0.014	0.0000067	0.0003	0.0019	0.9	0.00012	0.000013	1.5	0.026	0.000012	0.00011	0.00011	0.00064	0.0015
		December		0.028	0.00011	0.0014	1.2	0.014	0.0000067	0.0003	0.0019	0.9	0.00012	0.000013	1.5	0.026	0.000012	0.00011	0.00011	0.00064	0.0015
		January	2031	0.028	0.00011	0.0014	1.2	0.014	0.0000067	0.0003	0.0019	0.9	0.00012	0.000013	1.5	0.026	0.000012	0.00011	0.00011	0.00064	0.0015
		February		0.028	0.00011	0.0014	1.2	0.014	0.0000067	0.0003	0.0019	0.9	0.00012	0.000013	1.5	0.026	0.000012	0.00011	0.00011	0.00064	0.0015
		March		0.028	0.00011	0.0014	1.2	0.014	0.0000067	0.0003	0.0019	0.9	0.00012	0.000013	1.5	0.026	0.000012	0.00011	0.00011	0.00064	0.0015
		April		0.028	0.00011	0.0014	1.2	0.014	0.0000067	0.0003	0.0019	0.9	0.00012	0.000013	1.5	0.026	0.000012	0.00011	0.00011	0.00064	0.0015
		May		0.028	0.00011	0.0014	1.2	0.014	0.0000067	0.0003	0.0019	0.9	0.00012	0.000013	1.5	0.026	0.000012	0.00011	0.00011	0.00064	0.0015
		June		0.027	0.00011	0.0014	1.1	0.014	0.0000066	0.00029	0.0018	0.88	0.00012	0.000013	1.5	0.026	0.000012	0.00011	0.00011	0.00063	0.0015
		July		0.026	0.00011	0.0013	1.1	0.013	0.0000065	0.00027	0.0018	0.86	0.00011	0.000013	1.4	0.025	0.000012	0.00011	0.0001	0.00062	0.0015
		August		0.026	0.00011	0.0014	1.1	0.013	0.0000066	0.00027	0.0018	0.87	0.00011	0.000013	1.4	0.026	0.000012	0.00011	0.0001	0.00063	0.0015
		September		0.026	0.00011	0.0014	1.1	0.013	0.0000066	0.00027	0.0018	0.87	0.00011	0.000013	1.4	0.026	0.000012	0.00011	0.0001	0.00063	0.0015
		October		0.025	0.00011	0.0013	1.1	0.012	0.0000065	0.00026	0.0017	0.86	0.00011	0.000013	1.4	0.026	0.000012	0.00011	0.00010	0.00063	0.0015
		November		0.025	0.00011	0.0013	1.1	0.012	0.0000065	0.00026	0.0017	0.86	0.00011	0.000013	1.4	0.026	0.000012	0.00011	0.00010	0.00063	0.0015
		December		0.025	0.00011	0.0013	1.1	0.012	0.0000065	0.00026	0.0017	0.86	0.00011	0.000013	1.4	0.026	0.000012	0.00011	0.00010	0.00063	0.0015
		January	2032	0.025	0.00011	0.0013	1.1	0.012	0.0000065	0.00026	0.0017	0.86	0.00011	0.000013	1.4	0.026	0.000012	0.00011	0.00010	0.00063	0.0015
		February		0.025	0.00011	0.0013	1.1	0.012	0.0000065	0.00026	0.0017	0.86	0.00011	0.000013	1.4	0.026	0.000012	0.00011	0.00010	0.00063	0.0015
		March		0.025	0.00011	0.0013	1.1	0.012	0.0000065	0.00026	0.0017	0.86	0.00011	0.000013	1.4	0.026	0.000012	0.00011	0.00010	0.00063	0.0015
		April		0.025	0.00011	0.0013	1.1	0.012	0.0000065	0.00026	0.0017	0.86	0.00011	0.000013	1.4	0.026	0.000012	0.00011	0.00010	0.00063	0.0015
		May		0.025	0.00011	0.0013	1.1	0.012	0.0000065	0.00026	0.0017	0.86	0.00011	0.000013	1.4	0.026	0.000012	0.00011	0.00010	0.00063	0.0015
		June		0.024	0.0001	0.0013	1.1	0.012	0.0000064	0.00025	0.0017	0.85	0.00011	0.000013	1.3	0.025	0.000012	0.00011	0.000095	0.00062	0.0014
		July		0.024	0.0001	0.0013	1.1	0.011	0.0000064	0.00024	0.0016	0.83	0.0001	0.000013	1.3	0.025	0.000012	0.00011	0.00009	0.00061	0.0014
		August		0.024	0.0001	0.0013	1.1	0.011	0.0000064	0.00024	0.0016	0.84	0.0001	0.000013	1.3	0.025	0.000012	0.00011	0.000091	0.00062	0.0014
		September		0.023	0.0001	0.0013	1.1	0.011	0.0000064	0.00024	0.0016	0.84	0.0001	0.000013	1.3	0.025	0.000012	0.0.			

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025			1.5		0.00004		0.001		0.002
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁵	Co	Cu ⁸
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Mammoth Lake	Closure, no mine contact water discharge	January	2035	21	0.2	6.6	5.6	0.033	3.0	0.044	0.35	0.0041	0.0038	0.0002	0.0028	0.007	0.000023	0.000055	0.018	0.000062	3.9	0.00018	0.00016	0.00056
		February		21	0.2	6.6	5.6	0.033	3.0	0.044	0.35	0.0041	0.0038	0.0002	0.0028	0.007	0.000023	0.000055	0.018	0.000062	3.9	0.00018	0.00016	0.00056
		March		21	0.2	6.6	5.6	0.033	3.0	0.044	0.35	0.0041	0.0038	0.0002	0.0028	0.007	0.000023	0.000055	0.018	0.000062	3.9	0.00018	0.00016	0.00056
		April		21	0.2	6.6	5.6	0.033	3.0	0.044	0.35	0.0041	0.0038	0.0002	0.0028	0.007	0.000023	0.000055	0.018	0.000062	3.9	0.00018	0.00016	0.00056
		May		21	0.2	6.6	5.6	0.033	3.0	0.044	0.35	0.0041	0.0038	0.0002	0.0028	0.007	0.000023	0.000055	0.018	0.000062	3.9	0.00018	0.00016	0.00056
		June		21	0.19	6.5	5.5	0.033	3.0	0.041	0.33	0.004	0.0037	0.00019	0.0027	0.0069	0.000022	0.000054	0.017	0.000061	3.8	0.00018	0.00015	0.00055
		July		20	0.18	6.4	5.4	0.032	2.9	0.039	0.31	0.0039	0.0037	0.00019	0.0026	0.0069	0.000022	0.000054	0.017	0.00006	3.8	0.00017	0.00015	0.00054
		August		20	0.18	6.5	5.4	0.033	3.0	0.039	0.31	0.0039	0.0038	0.00019	0.0026	0.0069	0.000023	0.000055	0.017	0.000061	3.8	0.00017	0.00015	0.00054
		September		20	0.18	6.5	5.4	0.033	3.0	0.039	0.31	0.0039	0.0038	0.00019	0.0025	0.0069	0.000023	0.000055	0.017	0.000061	3.8	0.00017	0.00015	0.00054
		October		20	0.17	6.4	5.4	0.032	3.0	0.038	0.3	0.0038	0.0038	0.00018	0.0025	0.0069	0.000023	0.000055	0.017	0.000061	3.8	0.00017	0.00015	0.00054
		November		20	0.17	6.4	5.4	0.032	3.0	0.038	0.3	0.0038	0.0038	0.00018	0.0025	0.0069	0.000023	0.000055	0.017	0.000061	3.8	0.00017	0.00015	0.00054
		December		20	0.17	6.4	5.4	0.032	3.0	0.038	0.3	0.0038	0.0038	0.00018	0.0025	0.0069	0.000023	0.000055	0.017	0.000061	3.8	0.00017	0.00015	0.00054
		January	2036	20	0.17	6.4	5.4	0.032	3.0	0.038	0.3	0.0038	0.0038	0.00018	0.0025	0.0069	0.000023	0.000055	0.017	0.000061	3.8	0.00017	0.00015	0.00054
		February		20	0.17	6.4	5.4	0.032	3.0	0.038	0.3	0.0038	0.0038	0.00018	0.0025	0.0069	0.000023	0.000055	0.017	0.000061	3.8	0.00017	0.00015	0.00054
		March		20	0.17	6.4	5.4	0.032	3.0	0.038	0.3	0.0038	0.0038	0.00018	0.0025	0.0069	0.000023	0.000055	0.017	0.000061	3.8	0.00017	0.00015	0.00054
		April		20	0.17	6.4	5.4	0.032	3.0	0.038	0.3	0.0038	0.0038	0.00018	0.0025	0.0069	0.000023	0.000055	0.017	0.000061	3.8	0.00017	0.00015	0.00054
		May		20	0.17	6.4	5.4	0.032	3.0	0.038	0.3	0.0038	0.0038	0.00018	0.0025	0.0069	0.000023	0.000055	0.017	0.000061	3.8	0.00017	0.00015	0.00054
		June		20	0.16	6.4	5.3	0.032	2.9	0.036	0.28	0.0037	0.0037	0.00018	0.0024	0.0068	0.000022	0.000055	0.016	0.00006	3.8	0.00017	0.00015	0.00053
		July		20	0.15	6.3	5.3	0.032	2.9	0.035	0.27	0.0036	0.0037	0.00017	0.0022	0.0068	0.000022	0.000054	0.016	0.00006	3.7	0.00016	0.00014	0.00052
		August		20	0.15	6.4	5.3	0.032	2.9	0.035	0.27	0.0037	0.0038	0.00018	0.0022	0.0069	0.000022	0.000055	0.016	0.00006	3.8	0.00016	0.00015	0.00053
		September		20	0.15	6.4	5.3	0.032	2.9	0.034	0.26	0.0036	0.0038	0.00018	0.0022	0.0069	0.000023	0.000055	0.016	0.00006	3.8	0.00016	0.00015	0.00053
		October		20	0.15	6.3	5.3	0.032	2.9	0.034	0.26	0.0036	0.0038	0.00017	0.0022	0.0069	0.000022	0.000055	0.016	0.00006	3.8	0.00016	0.00014	0.00053
		November		20	0.15	6.3	5.3	0.032	2.9	0.034	0.26	0.0036	0.0038	0.00017	0.0022	0.0069	0.000022	0.000055	0.016	0.00006	3.8	0.00016	0.00014	0.00053
		December		20	0.15	6.3	5.3	0.032	2.9	0.034	0.26	0.0036	0.0038	0.00017	0.0022	0.0069	0.000022	0.000055	0.016	0.00006	3.8	0.00016	0.00014	0.00053
		January	2037	20	0.15	6.3	5.3	0.032	2.9	0.034	0.26	0.0036	0.0038	0.00017	0.0022	0.0069	0.000022	0.000055	0.016	0.00006	3.8	0.00016	0.00014	0.00053
		February		20	0.15	6.3	5.3	0.032	2.9	0.034	0.26	0.0036	0.0038	0.00017	0.0022	0.0069	0.000022	0.000055	0.016	0.00006	3.8	0.00016	0.00014	0.00053
		March		20	0.15	6.3	5.3	0.032	2.9	0.034	0.26	0.0036	0.0038	0.00017	0.0022	0.0069	0.000022	0.000055	0.016	0.00006	3.8	0.00016	0.00014	0.00053
		April		20	0.15	6.3	5.3	0.032	2.9	0.034	0.26	0.0036	0.0038	0.00017	0.0022	0.0069	0.000022	0.000055	0.016	0.00006	3.8	0.00016	0.00014	0.00053
		May		20	0.15	6.3	5.3	0.032	2.9	0.034	0.26	0.0036	0.0038	0.00017	0.0022	0.0069	0.000022	0.000055	0.016	0.00006	3.8	0.00016	0.00014	0.00053
		June		19	0.14	6.3	5.2	0.031	2.8	0.032	0.24	0.0035	0.0037	0.00017	0.0021	0.0068	0.000022	0.000055	0.016	0.000059	3.7	0.00016	0.00014	0.00052
		July		19	0.13	6.2	5.2	0.031	2.8	0.03	0.23	0.0034	0.0037	0.00017	0.002	0.0068	0.000022	0.000054	0.015	0.000059	3.7	0.00015	0.00014	0.00051
		August		19	0.13	6.3	5.2	0.032	2.8	0.031	0.23	0.0035	0.0038	0.00017	0.002	0.0068	0.000022	0.000055	0.015	0.00006	3.7	0.00016	0.00014	0.00052
		September		19	0.13	6.3	5.2	0.032	2.8	0.03	0.22	0.0035	0.0038	0.00017	0.0019	0.0068	0.000022	0.000055	0.015	0.00006	3.7	0.00016	0.00014	0.00052
		October		19	0.13	6.3	5.2	0.031	2.8	0.03	0.22	0.0034	0.0038	0.00016	0.0019	0.0068	0.000022	0.000055	0.015	0.000059	3.7	0.00015	0.00014	0.00051
		November		19	0.13	6.3	5.2	0.031	2.8	0.03	0.22	0.0034	0.0038	0.00016	0.0019	0.0068	0.000022	0.000055	0.015	0.000059	3.7	0.00015	0.00014	0.00051
		December		19	0.13	6.3	5.2	0.031	2.8	0.03	0.22	0.0034	0.0038	0.00016	0.0019	0.0068	0.000022	0.000055	0.015	0.000059	3.7	0.00015	0.00014	0.00051
		January	2038	19	0.13	6.3	5.2	0.031	2.8	0.03	0.22	0.0034	0.0038	0.00016	0.0019	0.0068	0.000022	0.000055	0.015	0.000059	3.7	0.00015	0.00014	0.00051
		February		19	0.13	6.3	5.2	0.031	2.8	0.03	0.22	0.0034	0.0038	0.00016	0.0019	0.0068	0.000022	0.000055	0.015	0.000059	3.7	0.00015	0.00014	0.00051
		March		19	0.13	6.3	5.2	0.031	2.8	0.03	0.22	0.0034	0.0038											

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05					0.004		0.25									0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.3	0.001					0.000026	0.073	0.025		0.001	0.0003			0.0008		0.015	0.007	
Constituent				Fe	Pb ⁶	Li	Mg	Mn		Hg	Mo	Ni ⁵	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Mammoth Lake	Closure, no mine contact water discharge	January	2035	0.02	0.000093	0.0013	1.1	0.0081		0.0000062	0.00018	0.0014	0.78	0.000089	0.000012	1.1	0.024	0.000012	0.00011	0.00007	0.0006	0.0013
		February		0.02	0.000093	0.0013	1.1	0.0081		0.0000062	0.00018	0.0014	0.78	0.000089	0.000012	1.1	0.024	0.000012	0.00011	0.00007	0.0006	0.0013
		March		0.02	0.000093	0.0013	1.1	0.0081		0.0000062	0.00018	0.0014	0.78	0.000089	0.000012	1.1	0.024	0.000012	0.00011	0.00007	0.0006	0.0013
		April		0.02	0.000093	0.0013	1.1	0.0081		0.0000062	0.00018	0.0014	0.78	0.000089	0.000012	1.1	0.024	0.000012	0.00011	0.00007	0.0006	0.0013
		May		0.02	0.000093	0.0013	1.1	0.0081		0.0000062	0.00018	0.0014	0.78	0.000089	0.000012	1.1	0.024	0.000012	0.00011	0.00007	0.0006	0.0013
		June		0.019	0.000092	0.0013	1.1	0.0077		0.0000061	0.00018	0.0013	0.77	0.000087	0.000012	1.1	0.024	0.000011	0.00011	0.000067	0.00059	0.0013
		July		0.019	0.00009	0.0013	1.1	0.0073		0.0000061	0.00017	0.0013	0.76	0.000085	0.000012	1.0	0.024	0.000011	0.00011	0.000064	0.00059	0.0013
		August		0.019	0.000091	0.0013	1.1	0.0073		0.0000061	0.00017	0.0013	0.77	0.000085	0.000012	1.1	0.024	0.000012	0.00011	0.000064	0.00059	0.0013
		September		0.019	0.000091	0.0013	1.1	0.0072		0.0000061	0.00017	0.0013	0.77	0.000085	0.000012	1.0	0.024	0.000012	0.00011	0.000064	0.00059	0.0013
		October		0.019	0.00009	0.0013	1.1	0.0071		0.0000061	0.00017	0.0013	0.76	0.000084	0.000012	1.0	0.024	0.000011	0.00011	0.000063	0.00059	0.0013
		November		0.019	0.00009	0.0013	1.1	0.0071		0.0000061	0.00017	0.0013	0.76	0.000084	0.000012	1.0	0.024	0.000011	0.00011	0.000063	0.00059	0.0013
		December		0.019	0.00009	0.0013	1.1	0.0071		0.0000061	0.00017	0.0013	0.76	0.000084	0.000012	1.0	0.024	0.000011	0.00011	0.000063	0.00059	0.0013
		January	2036	0.019	0.00009	0.0013	1.1	0.0071		0.0000061	0.00017	0.0013	0.76	0.000084	0.000012	1.0	0.024	0.000011	0.00011	0.000063	0.00059	0.0013
		February		0.019	0.00009	0.0013	1.1	0.0071		0.0000061	0.00017	0.0013	0.76	0.000084	0.000012	1.0	0.024	0.000011	0.00011	0.000063	0.00059	0.0013
		March		0.019	0.00009	0.0013	1.1	0.0071		0.0000061	0.00017	0.0013	0.76	0.000084	0.000012	1.0	0.024	0.000011	0.00011	0.000063	0.00059	0.0013
		April		0.019	0.00009	0.0013	1.1	0.0071		0.0000061	0.00017	0.0013	0.76	0.000084	0.000012	1.0	0.024	0.000011	0.00011	0.000063	0.00059	0.0013
		May		0.019	0.00009	0.0013	1.1	0.0071		0.0000061	0.00017	0.0013	0.76	0.000084	0.000012	1.0	0.024	0.000011	0.00011	0.000063	0.00059	0.0013
		June		0.018	0.000089	0.0013	1.1	0.0068		0.0000061	0.00016	0.0013	0.75	0.000082	0.000012	1.0	0.023	0.000011	0.00011	0.00006	0.00058	0.0013
		July		0.018	0.000088	0.0012	1.1	0.0064		0.000006	0.00015	0.0012	0.74	0.00008	0.000012	0.99	0.023	0.000011	0.00011	0.000058	0.00058	0.0013
		August		0.018	0.000088	0.0013	1.1	0.0064		0.0000061	0.00015	0.0012	0.75	0.000081	0.000012	1.0	0.024	0.000011	0.00011	0.000058	0.00059	0.0013
		September		0.018	0.000088	0.0013	1.1	0.0063		0.0000061	0.00015	0.0012	0.75	0.000081	0.000012	0.99	0.024	0.000011	0.00011	0.000057	0.00059	0.0013
		October		0.017	0.000088	0.0013	1.1	0.0062		0.0000061	0.00015	0.0012	0.75	0.00008	0.000012	0.98	0.023	0.000011	0.00011	0.000057	0.00059	0.0013
		November		0.017	0.000088	0.0013	1.1	0.0062		0.0000061	0.00015	0.0012	0.75	0.00008	0.000012	0.98	0.023	0.000011	0.00011	0.000057	0.00059	0.0013
		December		0.017	0.000088	0.0013	1.1	0.0062		0.0000061	0.00015	0.0012	0.75	0.00008	0.000012	0.98	0.023	0.000011	0.00011	0.000057	0.00059	0.0013
		January	2037	0.017	0.000088	0.0013	1.1	0.0062		0.0000061	0.00015	0.0012	0.75	0.00008	0.000012	0.98	0.023	0.000011	0.00011	0.000057	0.00059	0.0013
		February		0.017	0.000088	0.0013	1.1	0.0062		0.0000061	0.00015	0.0012	0.75	0.00008	0.000012	0.98	0.023	0.000011	0.00011	0.000057	0.00059	0.0013
		March		0.017	0.000088	0.0013	1.1	0.0062		0.0000061	0.00015	0.0012	0.75	0.00008	0.000012	0.98	0.023	0.000011	0.00011	0.000057	0.00059	0.0013
		April		0.017	0.000088	0.0013	1.1	0.0062		0.0000061	0.00015	0.0012	0.75	0.00008	0.000012	0.98	0.023	0.000011	0.00011	0.000057	0.00059	0.0013
		May		0.017	0.000088	0.0013	1.1	0.0062		0.0000061	0.00015	0.0012	0.75	0.00008	0.000012	0.98	0.023	0.000011	0.00011	0.000057	0.00059	0.0013
		June		0.017	0.000086	0.0012	1.1	0.0059		0.000006	0.00014	0.0012	0.74	0.000078	0.000012	0.96	0.023	0.000011	0.00011	0.000054	0.00058	0.0013
		July		0.017	0.000085	0.0012	1.1	0.0056		0.000006	0.00014	0.0012	0.73	0.000077	0.000012	0.94	0.023	0.000011	0.00011	0.000052	0.00058	0.0012
		August		0.017	0.000086	0.0012	1.1	0.0057		0.000006	0.00014	0.0012	0.74	0.000077	0.000012	0.95	0.023	0.000011	0.00011	0.000053	0.00058	0.0013
		September		0.017	0.000086	0.0012	1.1	0.0056		0.000006	0.00014	0.0012	0.74	0.000077	0.000012	0.94	0.023	0.000011	0.00011	0.000052	0.00058	0.0013
		October		0.017	0.000086	0.0012	1.1	0.0055		0.000006	0.00014	0.0012	0.73	0.000076	0.000012	0.94	0.023	0.000011	0.00011	0.000051	0.00058	0.0013
		November		0.017	0.000086	0.0012	1.1	0.0055		0.000006	0.00014	0.0012	0.73	0.000076	0.000012	0.94	0.023	0.000011	0.00011	0.000051	0.00058	0.0013
		December		0.017	0.000086	0.0012	1.1	0.0055		0.000006	0.00014	0.0012	0.73	0.000076	0.000012	0.94	0.023	0.000011	0.00011	0.000051	0.00058	0.0013
		January	2038	0.017	0.000086	0.0012	1.1	0.0055		0.000006	0.00014	0.0012	0.73	0.000076	0.000012	0.94	0.023	0.000011	0.00011	0.000051	0.00058	0.0013
		February		0.017	0.000086	0.0012	1.1	0.0055		0.000006	0.00014	0.0012	0.73	0.000076	0.000012	0.94	0.023	0.000011	0.00011	0.000051	0.00058	0.0013
		March		0.017	0.000086	0.0012	1.1	0.0055		0.000006	0.00014	0.0012	0.73	0.000076	0.000012	0.94	0.023	0.000011	0.00011	0.000051	0.00058	0.0013
		April		0.017	0.000086	0.0012	1.1	0.0055		0.000006	0.00014	0.0012	0.73	0.000076	0.000012	0.94	0.023	0.000011	0.00011	0.000051	0.00058	0.0013
		May		0.017	0.000086	0.0012	1.1	0.0055		0.000006	0.00014	0.0012	0.73	0.000076	0.000012	0.94	0.023	0.000011	0.00011	0.000051	0.00058	0.0013
		June		0.016	0.000084	0.0012	1.1	0.0052		0.0000059	0.00013	0.0011	0.72	0.000075	0.000012	0.91	0.023	0.000011	0.00011	0.00005	0.00058	0.0012
		July		0.016	0.000083	0.0012	1.1	0.005		0.0000059	0.00013	0.0011	0.72	0.000073	0.000012	0.9	0.023	0.000011	0.00011	0.000048	0.00057	

Site and Downstream Water Quality Model Predictions
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Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁵	Co	Cu ⁸
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Mammoth Lake	Closure, no mine contact water discharge	January	2041	18	0.078	6.1	5.0	0.03	2.7	0.021	0.14	0.003	0.0038	0.00014	0.0013	0.0067	0.000022	0.000055	0.014	0.0000058	3.6	0.00014	0.00013	0.00049
		February		18	0.078	6.1	5.0	0.03	2.7	0.021	0.14	0.003	0.0038	0.00014	0.0013	0.0067	0.000022	0.000055	0.014	0.0000058	3.6	0.00014	0.00013	0.00049
		March		18	0.078	6.1	5.0	0.03	2.7	0.021	0.14	0.003	0.0038	0.00014	0.0013	0.0067	0.000022	0.000055	0.014	0.0000058	3.6	0.00014	0.00013	0.00049
		April		18	0.078	6.1	5.0	0.03	2.7	0.021	0.14	0.003	0.0038	0.00014	0.0013	0.0067	0.000022	0.000055	0.014	0.0000058	3.6	0.00014	0.00013	0.00049
		May		18	0.078	6.1	5.0	0.03	2.7	0.021	0.14	0.003	0.0038	0.00014	0.0013	0.0067	0.000022	0.000055	0.014	0.0000058	3.6	0.00014	0.00013	0.00049
		June		18	0.073	6.0	4.9	0.03	2.7	0.02	0.13	0.003	0.0037	0.00014	0.0013	0.0067	0.000022	0.000055	0.013	0.0000057	3.6	0.00014	0.00013	0.00048
		July		18	0.069	6.0	4.9	0.03	2.7	0.019	0.12	0.0029	0.0037	0.00014	0.0012	0.0066	0.000022	0.000055	0.013	0.0000057	3.6	0.00013	0.00013	0.00048
		August		18	0.069	6.0	4.9	0.03	2.7	0.019	0.12	0.003	0.0038	0.00014	0.0012	0.0067	0.000022	0.000055	0.013	0.0000058	3.6	0.00013	0.00013	0.00048
		September		18	0.067	6.0	4.9	0.03	2.7	0.019	0.12	0.0029	0.0038	0.00014	0.0012	0.0067	0.000022	0.000055	0.013	0.0000058	3.6	0.00013	0.00013	0.00048
		October		18	0.066	6.0	4.9	0.03	2.7	0.019	0.12	0.0029	0.0038	0.00014	0.0012	0.0067	0.000022	0.000055	0.013	0.0000057	3.6	0.00013	0.00013	0.00048
		November		18	0.066	6.0	4.9	0.03	2.7	0.019	0.12	0.0029	0.0038	0.00014	0.0012	0.0067	0.000022	0.000055	0.013	0.0000057	3.6	0.00013	0.00013	0.00048
		December		18	0.066	6.0	4.9	0.03	2.7	0.019	0.12	0.0029	0.0038	0.00014	0.0012	0.0067	0.000022	0.000055	0.013	0.0000057	3.6	0.00013	0.00013	0.00048
		MINIMUM MAXIMUM AVERAGE		18	0.066	6.0	4.9	0.03	2.7	0.019	0.12	0.0029	0.0037	0.00014	0.0012	0.0066	0.000022	0.000053	0.013	0.0000057	3.6	0.00013	0.00013	0.00048
				36	0.88	9.3	8.6	0.047	4.6	0.16	1.5	0.0096	0.0039	0.00048	0.011	0.0083	0.000024	0.000055	0.04	0.0000082	5.2	0.00041	0.00031	0.00092
				23	0.31	7.0	6.1	0.035	3.3	0.063	0.54	0.005	0.0038	0.00024	0.0042	0.0072	0.000023	0.000055	0.021	0.0000065	4.1	0.00022	0.00018	0.00062
	Closure, controlled discharge from pit lake	January	2042	18	0.066	6.0	4.9	0.03	2.7	0.019	0.12	0.0029	0.0038	0.00014	0.0012	0.0067	0.000022	0.000055	0.013	0.0000057	3.6	0.00013	0.00013	0.00048
		February		18	0.066	6.0	4.9	0.03	2.7	0.019	0.12	0.0029	0.0038	0.00014	0.0012	0.0067	0.000022	0.000055	0.013	0.0000057	3.6	0.00013	0.00013	0.00048
		March		18	0.066	6.0	4.9	0.03	2.7	0.019	0.12	0.0029	0.0038	0.00014	0.0012	0.0067	0.000022	0.000055	0.013	0.0000057	3.6	0.00013	0.00013	0.00048
		April		18	0.066	6.0	4.9	0.03	2.7	0.019	0.12	0.0029	0.0038	0.00014	0.0012	0.0067	0.000022	0.000055	0.013	0.0000057	3.6	0.00013	0.00013	0.00048
		May		18	0.066	6.0	4.9	0.03	2.7	0.019	0.12	0.0029	0.0038	0.00014	0.0012	0.0067	0.000022	0.000055	0.013	0.0000057	3.6	0.00013	0.00013	0.00048
		June		18	0.062	6.0	4.9	0.03	2.7	0.018	0.11	0.0029	0.0037	0.00014	0.0011	0.0066	0.000022	0.000055	0.013	0.0000057	3.6	0.00013	0.00012	0.00048
		July		18	0.059	5.9	4.8	0.03	2.6	0.018	0.1	0.0028	0.0037	0.00013	0.0011	0.0066	0.000022	0.000055	0.013	0.0000057	3.5	0.00013	0.00012	0.00047
		August		18	0.058	6.0	4.9	0.03	2.7	0.018	0.1	0.0029	0.0038	0.00014	0.0011	0.0067	0.000022	0.000055	0.013	0.0000057	3.6	0.00013	0.00012	0.00048
		September		18	0.091	6.1	4.9	0.031	2.7	0.019	0.12	0.0031	0.0036	0.00015	0.0019	0.0067	0.000022	0.000055	0.013	0.0000058	3.6	0.00014	0.00013	0.00049
		October		18	0.14	6.2	4.8	0.033	2.8	0.022	0.14	0.0033	0.0034	0.00017	0.0031	0.0067	0.000022	0.000055	0.014	0.0000059	3.6	0.00015	0.00014	0.00051
		November		18	0.14	6.2	4.8	0.033	2.8	0.022	0.14	0.0033	0.0034	0.00017	0.0031	0.0067	0.000022	0.000055	0.014	0.0000059	3.6	0.00015	0.00014	0.00051
		December		18	0.14	6.2	4.8	0.033	2.8	0.022	0.14	0.0033	0.0034	0.00017	0.0031	0.0067	0.000022	0.000055	0.014	0.0000059	3.6	0.00015	0.00014	0.00051
		January	2043	18	0.14	6.2	4.8	0.033	2.8	0.022	0.14	0.0033	0.0034	0.00017	0.0031	0.0067	0.000022	0.000055	0.014	0.0000059	3.6	0.00015	0.00014	0.00051
		February		18	0.14	6.2	4.8	0.033	2.8	0.022	0.14	0.0033	0.0034	0.00017	0.0031	0.0067	0.000022	0.000055	0.014	0.0000059	3.6	0.00015	0.00014	0.00051
		March		18	0.14	6.2	4.8	0.033	2.8	0.022	0.14	0.0033	0.0034	0.00017	0.0031	0.0067	0.000022	0.000055	0.014	0.0000059	3.6	0.00015	0.00014	0.00051
		April		18	0.14	6.2	4.8	0.033	2.8	0.022	0.14	0.0033	0.0034	0.00017	0.0031	0.0067	0.000022	0.000055	0.014	0.0000059	3.6	0.00015	0.00014	0.00051
		May		18	0.14	6.2	4.8	0.033	2.8	0.022	0.14	0.0033	0.0034	0.00017	0.0031	0.0067	0.000022	0.000055	0.014	0.0000059	3.6	0.00015	0.00014	0.00051
		June		19	0.26	6.4	4.7	0.036	3.0	0.029	0.19	0.004	0.0027	0.00022	0.0063	0.0067	0.000022	0.000053	0.016	0.0000061	3.5	0.00017	0.00017	0.00057
		July		19	0.36	6.6	4.6	0.04	3.1	0.035	0.24	0.0046	0.0022	0.00026	0.0091	0.0067	0.000022	0.000052	0.017	0.0000064	3.5	0.00019	0.00019	0.00061
		August		20	0.38	6.7	4.7	0.041	3.2	0.035	0.24	0.0046	0.0022	0.00027	0.0092	0.0068	0.000022	0.000052	0.017	0.0000065	3.5	0.0002	0.00019	0.00062
		September		20	0.41	6.8	4.6	0.042	3.2	0.036	0.25	0.0047	0.0021	0.00028	0.0099	0.0069	0.000022	0.000052	0.018	0.0000065	3.5	0.0002	0.0002	0.00063
		October		20	0.43	6.8	4.6	0.042	3.3	0.037	0.26	0.0048	0.002	0.00028	0.01	0.0068	0.000022	0.000052	0.018	0.0000065	3.5	0.0002	0.0002	0.00064
		November		20	0.43	6.8	4.6	0.042	3.3	0.037	0.26	0.0048	0.002	0.00										

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05					0.004		0.25								0.1		
CEQG aquatic life (long-term) ² (mg/L)				0.3	0.001					0.000026	0.073	0.025		0.001	0.0003			0.0008		0.015		0.007
Constituent				Fe	Pb ⁶	Li	Mg	Mn		Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Mammoth Lake	Closure, no mine contact water discharge	January	2041	0.014	0.000081	0.0012	1.1	0.0039		0.0000059	0.00011	0.001	0.7	0.000068	0.000012	0.83	0.023	0.000011	0.00011	0.00004	0.00057	0.0012
		February		0.014	0.000081	0.0012	1.1	0.0039		0.0000059	0.00011	0.001	0.7	0.000068	0.000012	0.83	0.023	0.000011	0.00011	0.00004	0.00057	0.0012
		March		0.014	0.000081	0.0012	1.1	0.0039		0.0000059	0.00011	0.001	0.7	0.000068	0.000012	0.83	0.023	0.000011	0.00011	0.00004	0.00057	0.0012
		April		0.014	0.000081	0.0012	1.1	0.0039		0.0000059	0.00011	0.001	0.7	0.000068	0.000012	0.83	0.023	0.000011	0.00011	0.00004	0.00057	0.0012
		May		0.014	0.000081	0.0012	1.1	0.0039		0.0000059	0.00011	0.001	0.7	0.000068	0.000012	0.83	0.023	0.000011	0.00011	0.00004	0.00057	0.0012
		June		0.014	0.00008	0.0012	1.1	0.0037		0.0000058	0.0001	0.001	0.69	0.000067	0.000011	0.82	0.022	0.000011	0.00011	0.000039	0.00057	0.0012
		July		0.014	0.000079	0.0012	1.0	0.0035		0.0000058	0.000099	0.001	0.69	0.000066	0.000011	0.8	0.022	0.000011	0.00011	0.000038	0.00056	0.0012
		August		0.014	0.00008	0.0012	1.1	0.0035		0.0000059	0.000099	0.001	0.7	0.000067	0.000011	0.81	0.023	0.000011	0.00011	0.000038	0.00057	0.0012
		September		0.014	0.00008	0.0012	1.1	0.0035		0.0000059	0.000099	0.001	0.7	0.000067	0.000012	0.81	0.023	0.000011	0.00011	0.000038	0.00057	0.0012
		October		0.014	0.00008	0.0012	1.1	0.0035		0.0000059	0.000098	0.001	0.69	0.000066	0.000011	0.81	0.023	0.000011	0.00011	0.000037	0.00057	0.0012
		November		0.014	0.00008	0.0012	1.1	0.0035		0.0000059	0.000098	0.001	0.69	0.000066	0.000011	0.81	0.023	0.000011	0.00011	0.000037	0.00057	0.0012
		December		0.014	0.00008	0.0012	1.1	0.0035		0.0000059	0.000098	0.001	0.69	0.000066	0.000011	0.81	0.023	0.000011	0.00011	0.000037	0.00057	0.0012
		MINIMUM MAXIMUM AVERAGE		0.014	0.000079	0.0012	1.0	0.0035		0.0000058	0.000098	0.001	0.69	0.000066	0.000011	0.8	0.022	0.000011	0.00011	0.000037	0.00056	0.0012
				0.049	0.00016	0.0016	1.3	0.031		0.0000079	0.0006	0.0032	1.2	0.0002	0.000016	2.6	0.032	0.000013	0.00012	0.00023	0.00074	0.002
				0.025	0.0001	0.0013	1.1	0.012		0.0000065	0.00025	0.0017	0.85	0.00011	0.000013	1.3	0.025	0.000012	0.00011	0.000095	0.00062	0.0014
	Closure, controlled discharge from pit lake	January	2042	0.014	0.00008	0.0012	1.1	0.0035		0.0000059	0.000098	0.001	0.69	0.000066	0.000011	0.81	0.023	0.000011	0.00011	0.000037	0.00057	0.0012
		February		0.014	0.00008	0.0012	1.1	0.0035		0.0000059	0.000098	0.001	0.69	0.000066	0.000011	0.81	0.023	0.000011	0.00011	0.000037	0.00057	0.0012
		March		0.014	0.00008	0.0012	1.1	0.0035		0.0000059	0.000098	0.001	0.69	0.000066	0.000011	0.81	0.023	0.000011	0.00011	0.000037	0.00057	0.0012
		April		0.014	0.00008	0.0012	1.1	0.0035		0.0000059	0.000098	0.001	0.69	0.000066	0.000011	0.81	0.023	0.000011	0.00011	0.000037	0.00057	0.0012
		May		0.014	0.00008	0.0012	1.1	0.0035		0.0000059	0.000098	0.001	0.69	0.000066	0.000011	0.81	0.023	0.000011	0.00011	0.000037	0.00057	0.0012
		June		0.014	0.000079	0.0012	1.0	0.0033		0.0000058	0.000095	0.00099	0.69	0.000065	0.000011	0.79	0.022	0.000011	0.00011	0.000036	0.00056	0.0012
		July		0.013	0.000078	0.0012	1.0	0.0032		0.0000058	0.000092	0.00097	0.68	0.000065	0.000011	0.78	0.022	0.000011	0.00011	0.000035	0.00056	0.0012
		August		0.014	0.000079	0.0012	1.1	0.0032		0.0000058	0.000093	0.00098	0.69	0.000065	0.000011	0.79	0.022	0.000011	0.00011	0.000036	0.00057	0.0012
		September		0.015	0.000081	0.0012	1.1	0.0045		0.000006	0.00012	0.001	0.71	0.000069	0.000012	0.83	0.022	0.000011	0.00011	0.000048	0.00058	0.0012
		October		0.017	0.000084	0.0012	1.0	0.0065		0.0000061	0.00015	0.0011	0.74	0.000073	0.000012	0.88	0.022	0.000011	0.00011	0.000065	0.00059	0.0013
		November		0.017	0.000084	0.0012	1.0	0.0065		0.0000061	0.00015	0.0011	0.74	0.000073	0.000012	0.88	0.022	0.000011	0.00011	0.000065	0.00059	0.0013
		December		0.017	0.000084	0.0012	1.0	0.0065		0.0000061	0.00015	0.0011	0.74	0.000073	0.000012	0.88	0.022	0.000011	0.00011	0.000065	0.00059	0.0013
		January	2043	0.017	0.000084	0.0012	1.0	0.0065		0.0000061	0.00015	0.0011	0.74	0.000073	0.000012	0.88	0.022	0.000011	0.00011	0.000065	0.00059	0.0013
		February		0.017	0.000084	0.0012	1.0	0.0065		0.0000061	0.00015	0.0011	0.74	0.000073	0.000012	0.88	0.022	0.000011	0.00011	0.000065	0.00059	0.0013
		March		0.017	0.000084	0.0012	1.0	0.0065		0.0000061	0.00015	0.0011	0.74	0.000073	0.000012	0.88	0.022	0.000011	0.00011	0.000065	0.00059	0.0013
		April		0.017	0.000084	0.0012	1.0	0.0065		0.0000061	0.00015	0.0011	0.74	0.000073	0.000012	0.88	0.022	0.000011	0.00011	0.000065	0.00059	0.0013
		May		0.017	0.000084	0.0012	1.0	0.0065		0.0000061	0.00015	0.0011	0.74	0.000073	0.000012	0.88	0.022	0.000011	0.00011	0.000065	0.00059	0.0013
		June		0.023	0.000091	0.0012	1.0	0.012		0.0000064	0.00024	0.0014	0.82	0.000085	0.000012	1.0	0.022	0.000011	0.00012	0.00011	0.00061	0.0014
		July		0.028	0.000097	0.0013	1.0	0.016		0.0000068	0.00032	0.0016	0.89	0.000096	0.000012	1.1	0.022	0.000011	0.00012	0.00015	0.00063	0.0015
		August		0.028	0.000098	0.0013	1.0	0.016		0.0000069	0.00033	0.0016	0.91	0.000098	0.000012	1.1	0.022	0.000012	0.00012	0.00015	0.00065	0.0015
		September		0.029	0.00010	0.0013	1.0	0.017		0.000007	0.00035	0.0016	0.93	0.0001	0.000012	1.2	0.022	0.000012	0.00012	0.00016	0.00065	0.0015
		October		0.03	0.0001	0.0013	1.0	0.018		0.0000071	0.00036	0.0017	0.94	0.0001	0.000012	1.2	0.022	0.000012	0.00012	0.00017	0.00065	0.0015
		November		0.03	0.0001	0.0013	1.0	0.018		0.0000071	0.00036	0.0017	0.94	0.0001	0.000012	1.2	0.022	0.000012	0.00012	0.00017	0.00065	0.0015
		December		0.03	0.0001	0.0013	1.0	0.018		0.0000071	0.00036	0.0017	0.94	0.0001	0.000012	1.2	0.022	0.000012	0.00012	0.00017	0.00065	0.0015
		January	2044	0.03	0.0001	0.0013	1.0	0.018		0.0000071	0.00036	0.0017	0.94	0.0001	0.000012	1.2	0.022	0.000012	0.00012	0.00017	0.00065	0.0015
		February		0.03	0.0001	0.0013	1.0	0.018		0.0000071	0.00036	0.0017	0.94	0.0001	0.000012	1.2	0.022	0.000012	0.00012	0.00017	0.00065	0.0015
		March		0.03	0.0001	0.0013	1.0	0.018		0.0000071	0.00036	0.0017	0.94	0.0001	0.000012	1.2	0.022	0.000012	0.00012	0.00017	0.00065	0.0015
		April		0.03	0.0001	0.0013	1.0	0.018		0.0000071	0.00036	0.0017	0.94									

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			293	0.01	0.1		0.025			1.5	0.00004		0.001		0.002	
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	As ⁷	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁵	Co	Cu ⁶
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Mammoth Lake	Closure, controlled discharge from pit lake	January	2047	20	0.57	6.9	4.2	0.046	3.4	0.042	0.3	0.0054	0.00099	0.00034	0.014	0.0066	0.000022	0.00005	0.019	0.0000068	3.3	0.00022	0.00022	0.0007
		February		20	0.57	6.9	4.2	0.046	3.4	0.042	0.3	0.0054	0.00099	0.00034	0.014	0.0066	0.000022	0.00005	0.019	0.0000068	3.3	0.00022	0.00022	0.0007
		March		20	0.57	6.9	4.2	0.046	3.4	0.042	0.3	0.0054	0.00099	0.00034	0.014	0.0066	0.000022	0.00005	0.019	0.0000068	3.3	0.00022	0.00022	0.0007
		April		20	0.57	6.9	4.2	0.046	3.4	0.042	0.3	0.0054	0.00099	0.00034	0.014	0.0066	0.000022	0.00005	0.019	0.0000068	3.3	0.00022	0.00022	0.0007
		May		20	0.57	6.9	4.2	0.046	3.4	0.042	0.3	0.0054	0.00099	0.00034	0.014	0.0066	0.000022	0.00005	0.019	0.0000068	3.3	0.00022	0.00022	0.0007
		June		19	0.56	6.8	4.2	0.046	3.3	0.041	0.29	0.0053	0.00094	0.00033	0.013	0.0065	0.000021	0.000049	0.019	0.0000067	3.3	0.00022	0.00022	0.00069
		July		19	0.55	6.8	4.1	0.045	3.3	0.041	0.29	0.0052	0.00091	0.00033	0.013	0.0065	0.000021	0.000049	0.019	0.0000066	3.2	0.00022	0.00022	0.00068
		August		19	0.56	6.9	4.2	0.046	3.3	0.041	0.29	0.0053	0.00095	0.00033	0.013	0.0066	0.000022	0.00005	0.019	0.0000067	3.3	0.00022	0.00022	0.00069
		September		19	0.57	6.9	4.2	0.046	3.3	0.04	0.29	0.0053	0.00095	0.00033	0.013	0.0066	0.000022	0.00005	0.019	0.0000067	3.3	0.00022	0.00022	0.00069
		October		19	0.56	6.9	4.2	0.046	3.3	0.04	0.28	0.0052	0.00094	0.00033	0.013	0.0065	0.000022	0.00005	0.019	0.0000067	3.3	0.00022	0.00022	0.00069
		November		19	0.56	6.9	4.2	0.046	3.3	0.04	0.28	0.0052	0.00094	0.00033	0.013	0.0065	0.000022	0.00005	0.019	0.0000067	3.3	0.00022	0.00022	0.00069
		December		19	0.56	6.9	4.2	0.046	3.3	0.04	0.28	0.0052	0.00094	0.00033	0.013	0.0065	0.000022	0.00005	0.019	0.0000067	3.3	0.00022	0.00022	0.00069
		January	2048	19	0.56	6.9	4.2	0.046	3.3	0.04	0.28	0.0052	0.00094	0.00033	0.013	0.0065	0.000022	0.00005	0.019	0.0000067	3.3	0.00022	0.00022	0.00069
		February		19	0.56	6.9	4.2	0.046	3.3	0.04	0.28	0.0052	0.00094	0.00033	0.013	0.0065	0.000022	0.00005	0.019	0.0000067	3.3	0.00022	0.00022	0.00069
		March		19	0.56	6.9	4.2	0.046	3.3	0.04	0.28	0.0052	0.00094	0.00033	0.013	0.0065	0.000022	0.00005	0.019	0.0000067	3.3	0.00022	0.00022	0.00069
		April		19	0.56	6.9	4.2	0.046	3.3	0.04	0.28	0.0052	0.00094	0.00033	0.013	0.0065	0.000022	0.00005	0.019	0.0000067	3.3	0.00022	0.00022	0.00069
		May		19	0.56	6.9	4.2	0.046	3.3	0.04	0.28	0.0052	0.00094	0.00033	0.013	0.0065	0.000022	0.00005	0.019	0.0000067	3.3	0.00022	0.00022	0.00069
		June		19	0.54	6.7	4.1	0.045	3.2	0.039	0.28	0.0051	0.0009	0.00032	0.013	0.0064	0.000021	0.000049	0.018	0.0000066	3.2	0.00022	0.00022	0.00068
		July		19	0.53	6.7	4.1	0.045	3.2	0.039	0.27	0.0051	0.00089	0.00032	0.013	0.0064	0.000021	0.000049	0.018	0.0000066	3.2	0.00021	0.00021	0.00068
		August		19	0.55	6.8	4.1	0.046	3.2	0.039	0.27	0.0051	0.00092	0.00032	0.013	0.0065	0.000022	0.00005	0.018	0.0000066	3.2	0.00022	0.00022	0.00068
		September		19	0.55	6.8	4.1	0.046	3.2	0.039	0.27	0.0051	0.00093	0.00032	0.013	0.0065	0.000022	0.00005	0.018	0.0000067	3.2	0.00022	0.00022	0.00068
		October		19	0.55	6.8	4.1	0.045	3.2	0.038	0.27	0.0051	0.00092	0.00032	0.013	0.0064	0.000022	0.00005	0.018	0.0000066	3.2	0.00021	0.00021	0.00068
		November		19	0.55	6.8	4.1	0.045	3.2	0.038	0.27	0.0051	0.00092	0.00032	0.013	0.0064	0.000022	0.00005	0.018	0.0000066	3.2	0.00021	0.00021	0.00068
		December		19	0.55	6.8	4.1	0.045	3.2	0.038	0.27	0.0051	0.00092	0.00032	0.013	0.0064	0.000022	0.00005	0.018	0.0000066	3.2	0.00021	0.00021	0.00068
		January	2049	19	0.55	6.8	4.1	0.045	3.2	0.038	0.27	0.0051	0.00092	0.00032	0.013	0.0064	0.000022	0.00005	0.018	0.0000066	3.2	0.00021	0.00021	0.00068
		February		19	0.55	6.8	4.1	0.045	3.2	0.038	0.27	0.0051	0.00092	0.00032	0.013	0.0064	0.000022	0.00005	0.018	0.0000066	3.2	0.00021	0.00021	0.00068
		March		19	0.55	6.8	4.1	0.045	3.2	0.038	0.27	0.0051	0.00092	0.00032	0.013	0.0064	0.000022	0.00005	0.018	0.0000066	3.2	0.00021	0.00021	0.00068
		April		19	0.55	6.8	4.1	0.045	3.2	0.038	0.27	0.0051	0.00092	0.00032	0.013	0.0064	0.000022	0.00005	0.018	0.0000066	3.2	0.00021	0.00021	0.00068
		May		19	0.55	6.8	4.1	0.045	3.2	0.038	0.27	0.0051	0.00092	0.00032	0.013	0.0064	0.000022	0.00005	0.018	0.0000066	3.2	0.00021	0.00021	0.00068
		June		19	0.53	6.7	4.0	0.045	3.2	0.037	0.26	0.005	0.00088	0.00032	0.012	0.0063	0.000021	0.000049	0.018	0.0000065	3.2	0.00021	0.00021	0.00067
		July		18	0.52	6.6	4.0	0.044	3.1	0.037	0.26	0.0049	0.00087	0.00031	0.012	0.0063	0.000021	0.000049	0.018	0.0000065	3.1	0.00021	0.00021	0.00067
		August		19	0.53	6.7	4.1	0.045	3.2	0.037	0.26	0.0049	0.00091	0.00032	0.012	0.0064	0.000022	0.00005	0.018	0.0000066	3.2	0.00021	0.00021	0.00067
		September		19	0.53	6.7	4.1	0.045	3.2	0.037	0.26	0.0049	0.00092	0.00032	0.012	0.0064	0.000022	0.00005	0.018	0.0000066	3.2	0.00021	0.00021	0.00067
		October		19	0.53	6.7	4.0	0.045	3.2	0.036	0.25	0.0049	0.00091	0.00031	0.012	0.0064	0.000022	0.00005	0.018	0.0000066	3.2	0.00021	0.00021	0.00067
		November		19	0.53	6.7	4.0	0.045	3.2	0.036	0.25	0.0049	0.00091	0.00031	0.012	0.0064	0.000022	0.00005	0.018	0.0000066	3.2	0.00021	0.00021	0.00067
		December		19	0.53	6.7	4.0	0.045	3.2	0.036	0.25	0.0049	0.00091	0.00031	0.012	0.0064	0.000022	0.00005	0.018	0.0000066	3.2	0.00021	0.00021	0.00067
		January	≥2050	19	0.53	6.7	4.0	0.045	3.2	0.036	0.25	0.0049	0.00091	0.00031	0.012	0.0064	0.000022	0.00005	0.018	0.0000066	3.2	0.00021	0.00021	0.00067
		February		19	0.53	6.7	4.0	0.045	3.2	0.036	0.25	0.0049	0.00091	0.00031	0.012	0.0064	0.000022	0.00005	0.018	0.0000066	3.2	0.00021	0.00021	0.00067
		March		19	0.53	6.7	4.0	0.045	3.2	0.036	0.25	0.0049	0.00091	0.00031	0.012	0.0064	0.000022	0.00005	0.018	0.0000066	3.2	0.00021	0.00021	0.00067
		April		19	0.53	6.7	4.0	0.045	3.2	0.036	0.25	0.0049	0.00091	0.00031	0.012	0.0064	0.000022	0.00005	0.018	0.0000066	3.2	0.00021	0.00021	0.00067
		May		19	0.53	6.7	4.0	0.045	3.2	0.036	0.25	0.0049	0.00091	0.00031	0.012	0.0064	0.000022	0.00005	0.018	0.0000066	3.2	0.00021	0.00021	0.00067
		June		18	0.51	6.6	4.0	0.044	3.1	0.036	0.25	0.0048	0.00088	0.00031	0.012	0.0062	0.000021	0.000049	0.017	0.0000065	3.1	0.0002	0.00021	0.00066
		July		18	0.5	6.5	3.9	0.043	3.1	0.035	0.24	0.0047	0.00087	0.0003	0.012	0.0062	0.000021	0.000049	0.017	0.0000064	3.1	0.0002	0.0002	0.00066
		August		18	0.51</																			

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05				0.004		0.25								0.1				
CEQG aquatic life (long-term) ² (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.0003			0.0008	0.015	0.007				
Constituent				Fe	Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn		
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
Mammoth Lake	Closure, controlled discharge from pit lake	January	2047	0.036	0.00011	0.0013	0.96	0.023	0.0000075	0.00047	0.0019	1.0	0.00011	0.000012	1.3	0.021	0.000012	0.00012	0.00023	0.00068	0.0017		
		February		0.036	0.00011	0.0013	0.96	0.023	0.0000075	0.00047	0.0019	1.0	0.00011	0.000012	1.3	0.021	0.000012	0.00012	0.00023	0.00068	0.0017		
		March		0.036	0.00011	0.0013	0.96	0.023	0.0000075	0.00047	0.0019	1.0	0.00011	0.000012	1.3	0.021	0.000012	0.00012	0.00023	0.00068	0.0017		
		April		0.036	0.00011	0.0013	0.96	0.023	0.0000075	0.00047	0.0019	1.0	0.00011	0.000012	1.3	0.021	0.000012	0.00012	0.00023	0.00068	0.0017		
		May		0.036	0.00011	0.0013	0.96	0.023	0.0000075	0.00047	0.0019	1.0	0.00011	0.000012	1.3	0.021	0.000012	0.00012	0.00023	0.00068	0.0017		
		June		0.035	0.0001	0.0013	0.94	0.022	0.0000074	0.00046	0.0018	1.0	0.00011	0.000012	1.3	0.02	0.000011	0.00012	0.00022	0.00067	0.0016		
		July		0.035	0.0001	0.0013	0.94	0.022	0.0000073	0.00045	0.0018	0.98	0.00011	0.000012	1.3	0.02	0.000011	0.00012	0.00022	0.00067	0.0016		
		August		0.035	0.0001	0.0013	0.95	0.022	0.0000074	0.00046	0.0018	1.0	0.00011	0.000012	1.3	0.02	0.000012	0.00012	0.00022	0.00068	0.0017		
		September		0.035	0.0001	0.0013	0.95	0.022	0.0000075	0.00047	0.0018	1.0	0.00011	0.000012	1.3	0.02	0.000012	0.00012	0.00022	0.00068	0.0017		
		October		0.035	0.0001	0.0013	0.95	0.022	0.0000074	0.00046	0.0018	1.0	0.00011	0.000012	1.3	0.02	0.000012	0.00012	0.00022	0.00068	0.0017		
		November		0.035	0.0001	0.0013	0.95	0.022	0.0000074	0.00046	0.0018	1.0	0.00011	0.000012	1.3	0.02	0.000012	0.00012	0.00022	0.00068	0.0017		
		December		0.035	0.0001	0.0013	0.95	0.022	0.0000074	0.00046	0.0018	1.0	0.00011	0.000012	1.3	0.02	0.000012	0.00012	0.00022	0.00068	0.0017		
		January	2048	0.035	0.0001	0.0013	0.95	0.022	0.0000074	0.00046	0.0018	1.0	0.00011	0.000012	1.3	0.02	0.000012	0.00012	0.00022	0.00068	0.0017		
		February		0.035	0.0001	0.0013	0.95	0.022	0.0000074	0.00046	0.0018	1.0	0.00011	0.000012	1.3	0.02	0.000012	0.00012	0.00022	0.00068	0.0017		
		March		0.035	0.0001	0.0013	0.95	0.022	0.0000074	0.00046	0.0018	1.0	0.00011	0.000012	1.3	0.02	0.000012	0.00012	0.00022	0.00068	0.0017		
		April		0.035	0.0001	0.0013	0.95	0.022	0.0000074	0.00046	0.0018	1.0	0.00011	0.000012	1.3	0.02	0.000012	0.00012	0.00022	0.00068	0.0017		
		May		0.035	0.0001	0.0013	0.95	0.022	0.0000074	0.00046	0.0018	1.0	0.00011	0.000012	1.3	0.02	0.000012	0.00012	0.00022	0.00068	0.0017		
		June		0.035	0.0001	0.0013	0.93	0.021	0.0000073	0.00045	0.0018	0.98	0.00011	0.000012	1.2	0.02	0.000011	0.00012	0.00022	0.00067	0.0016		
		July		0.034	0.0001	0.0013	0.93	0.021	0.0000072	0.00044	0.0018	0.97	0.00011	0.000012	1.2	0.02	0.000011	0.00012	0.00021	0.00066	0.0016		
		August		0.035	0.0001	0.0013	0.94	0.021	0.0000074	0.00045	0.0018	0.99	0.00011	0.000012	1.2	0.02	0.000012	0.00012	0.00022	0.00067	0.0016		
		September		0.034	0.0001	0.0013	0.94	0.021	0.0000074	0.00045	0.0018	0.99	0.00011	0.000012	1.2	0.02	0.000012	0.00012	0.00022	0.00068	0.0016		
		October		0.034	0.0001	0.0013	0.94	0.021	0.0000074	0.00045	0.0018	0.98	0.00011	0.000012	1.2	0.02	0.000012	0.00012	0.00022	0.00067	0.0016		
		November		0.034	0.0001	0.0013	0.94	0.021	0.0000074	0.00045	0.0018	0.98	0.00011	0.000012	1.2	0.02	0.000012	0.00012	0.00022	0.00067	0.0016		
		December		0.034	0.0001	0.0013	0.94	0.021	0.0000074	0.00045	0.0018	0.98	0.00011	0.000012	1.2	0.02	0.000012	0.00012	0.00022	0.00067	0.0016		
		January	2049	0.034	0.0001	0.0013	0.94	0.021	0.0000074	0.00045	0.0018	0.98	0.00011	0.000012	1.2	0.02	0.000012	0.00012	0.00022	0.00067	0.0016		
		February		0.034	0.0001	0.0013	0.94	0.021	0.0000074	0.00045	0.0018	0.98	0.00011	0.000012	1.2	0.02	0.000012	0.00012	0.00022	0.00067	0.0016		
		March		0.034	0.0001	0.0013	0.94	0.021	0.0000074	0.00045	0.0018	0.98	0.00011	0.000012	1.2	0.02	0.000012	0.00012	0.00022	0.00067	0.0016		
		April		0.034	0.0001	0.0013	0.94	0.021	0.0000074	0.00045	0.0018	0.98	0.00011	0.000012	1.2	0.02	0.000012	0.00012	0.00022	0.00067	0.0016		
		May		0.034	0.0001	0.0013	0.94	0.021	0.0000074	0.00045	0.0018	0.98	0.00011	0.000012	1.2	0.02	0.000012	0.00012	0.00022	0.00067	0.0016		
		June		0.034	0.000099	0.0013	0.93	0.02	0.0000072	0.00044	0.0017	0.96	0.00011	0.000012	1.2	0.02	0.000011	0.00012	0.00021	0.00066	0.0016		
		July		0.034	0.000098	0.0013	0.92	0.02	0.0000072	0.00043	0.0017	0.95	0.00011	0.000012	1.2	0.02	0.000011	0.00012	0.00021	0.00066	0.0016		
		August		0.034	0.000099	0.0013	0.93	0.02	0.0000073	0.00044	0.0017	0.97	0.00011	0.000012	1.2	0.02	0.000012	0.00012	0.00021	0.00067	0.0016		
		September		0.034	0.000099	0.0013	0.94	0.02	0.0000073	0.00044	0.0017	0.97	0.00011	0.000012	1.2	0.02	0.000012	0.00012	0.00021	0.00067	0.0016		
		October		0.033	0.000099	0.0013	0.93	0.02	0.0000073	0.00044	0.0017	0.96	0.00011	0.000012	1.2	0.02	0.000012	0.00012	0.00021	0.00067	0.0016		
		November		0.033	0.000099	0.0013	0.93	0.02	0.0000073	0.00044	0.0017	0.96	0.00011	0.000012	1.2	0.02	0.000012	0.00012	0.00021	0.00067	0.0016		
		December		0.033	0.000099	0.0013	0.93	0.02	0.0000073	0.00044	0.0017	0.96	0.00011	0.000012	1.2	0.02	0.000012	0.00012	0.00021	0.00067	0.0016		
		January	≥2050	0.033	0.000099	0.0013	0.93	0.02	0.0000073	0.00044	0.0017	0.96	0.00011	0.000012	1.2	0.02	0.000012	0.00012	0.00021	0.00067	0.0016		
		February		0.033	0.000099	0.0013	0.93	0.02	0.0000073	0.00044	0.0017	0.96	0.00011	0.000012	1.2	0.02	0.000012	0.00012	0.00021	0.00067	0.0016		
		March		0.033	0.000099	0.0013	0.93	0.02	0.0000073	0.00044	0.0017	0.96	0.00011	0.000012	1.2	0.02	0.000012	0.00012	0.00021	0.00067	0.0016		
		April		0.033	0.000099	0.0013	0.93	0.02	0.0000073	0.00044	0.0017	0.96	0.00011	0.000012	1.2	0.02	0.000012	0.00012	0.00021	0.00067	0.0016		
		May		0.033	0.000099	0.0013	0.93	0.02	0.0000073	0.00044	0.0017	0.96	0.00011	0.000012	1.2	0.02	0.000012	0.00012	0.00021	0.00067	0.0016		
		June		0.033	0.000097	0.0013	0.92	0.019	0.0000072	0.00042	0.0017	0.94	0.0001	0.000012	1.2	0.019	0.000011	0.00012	0.00021	0.00066	0.0016		
		July		0.033	0.000096	0.0012	0.91	0.019	0.0000071	0.00042	0.0016	0.93	0.0001	0.000011	1.2	0.019	0.000011	0.00012	0.0002	0.00065	0.0016		
		August		0.033	0.000097	0.0013	0.93	0.019	0.0000073	0.00043	0.0017	0.95	0.0001	0.000012	1.2	0.02	0.000011	0.00012	0.00021	0.00066	0.0016		
		September		0.033	0.000097	0.0013	0.93	0.019	0.0000073	0.00043	0.0017	0.95	0.0001	0.000012	1.2	0.02	0.000012	0.00012	0.00021	0.00067	0.0016		
		October		0.033	0.000096	0.0013	0.92	0.018	0.0000072	0.00043	0.0016	0.94	0.0001	0.000012	1.2	0.02	0.000011	0.00012	0.00021	0.00066	0.0016		
		November		0.033	0.000096	0.0013	0.92	0.018	0.0000072	0.00043	0.0016	0.94	0.0001	0.000012	1.2	0.02	0.000011	0.00012	0.00021	0.00066	0.0016		
		December		0.033	0.000096	0.0013	0.92	0.018	0.0000072	0.00043	0.0016	0.94	0.0001	0.000012	1.2	0.02	0.000011	0.00012	0.00021	0.00066	0.0016		
				MINIMUM		0.013	0.000078	0.0012	0.91	0.0032	0.0000058	0.000092	0.00097	0.68	0.000065	0.000011	0.78	0.019	0.000011	0.00011	0.000035	0.00056	0.0012
				MAXIMUM		0.036	0.00011	0.0013															

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1
CEQG aquatic life (long-term) ² (mg/L)							120	0.12				2.93	0.01	0.1		0.025			1.5	0.00004		0.001		0.002
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P total ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁵	Co	Cu ⁶
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Mammoth Outlet	Construction and Operations	January	2018	15	0	5.2	4.2	0.026	2.3	0.0065	0.0051	0.0022	0.0034	0.0001	0.00035	0.0059	0.00002	0.00005	0.01	0.000005	3.1	0.0001	0.0001	0.0004
		February		15	0	5.2	4.2	0.026	2.3	0.0065	0.0051	0.0022	0.0034	0.0001	0.00035	0.0059	0.00002	0.00005	0.01	0.000005	3.1	0.0001	0.0001	0.0004
		March		15	0	5.2	4.2	0.026	2.3	0.0065	0.0051	0.0022	0.0034	0.0001	0.00035	0.0059	0.00002	0.00005	0.01	0.000005	3.1	0.0001	0.0001	0.0004
		April		15	0	5.2	4.2	0.026	2.3	0.0065	0.0051	0.0022	0.0034	0.0001	0.00035	0.0059	0.00002	0.00005	0.01	0.000005	3.1	0.0001	0.0001	0.0004
		May		15	0	5.2	4.2	0.026	2.3	0.0065	0.0051	0.0022	0.0034	0.0001	0.00035	0.0059	0.00002	0.00005	0.01	0.000005	3.1	0.0001	0.0001	0.0004
		June		14	0	5.1	3.9	0.026	2.1	0.0064	0.008	0.0024	0.0028	0.00010	0.00031	0.0056	0.00002	0.00005	0.010	0.000005	2.9	0.0001	0.00010	0.00042
		July		14	0	5.1	3.7	0.027	2.0	0.0065	0.01	0.0026	0.0023	0.0001	0.00029	0.0055	0.00002	0.000051	0.01	0.0000051	2.8	0.0001	0.0001	0.00044
		August		14	0	5.2	3.9	0.027	2.1	0.0067	0.009	0.0026	0.0025	0.0001	0.00031	0.0057	0.000021	0.000052	0.01	0.0000052	3.0	0.00011	0.0001	0.00045
		September		14	0	5.1	3.8	0.027	2.1	0.0065	0.009	0.0026	0.0024	0.0001	0.0003	0.0055	0.00002	0.000051	0.01	0.0000051	2.9	0.0001	0.0001	0.00044
		October		14	0	5.1	3.7	0.026	2.0	0.0064	0.009	0.0026	0.0024	0.0001	0.00029	0.0055	0.00002	0.00005	0.01	0.000005	2.8	0.0001	0.0001	0.00044
		November		14	0	5.1	3.7	0.026	2.0	0.0064	0.009	0.0026	0.0024	0.0001	0.00029	0.0055	0.00002	0.00005	0.01	0.000005	2.8	0.0001	0.0001	0.00044
		December		14	0	5.1	3.7	0.026	2.0	0.0064	0.009	0.0026	0.0024	0.0001	0.00029	0.0055	0.00002	0.00005	0.01	0.000005	2.8	0.0001	0.0001	0.00044
		January	2019	14	0	5.1	3.7	0.026	2.0	0.0064	0.009	0.0026	0.0024	0.0001	0.00029	0.0055	0.00002	0.00005	0.01	0.000005	2.8	0.0001	0.0001	0.00044
		February		14	0	5.1	3.7	0.026	2.0	0.0064	0.009	0.0026	0.0024	0.0001	0.00029	0.0055	0.00002	0.00005	0.01	0.000005	2.8	0.0001	0.0001	0.00044
		March		14	0	5.1	3.7	0.026	2.0	0.0064	0.009	0.0026	0.0024	0.0001	0.00029	0.0055	0.00002	0.00005	0.01	0.000005	2.8	0.0001	0.0001	0.00044
		April		14	0	5.1	3.7	0.026	2.0	0.0064	0.009	0.0026	0.0024	0.0001	0.00029	0.0055	0.00002	0.00005	0.01	0.000005	2.8	0.0001	0.0001	0.00044
		May		14	0	5.1	3.7	0.026	2.0	0.0064	0.009	0.0026	0.0024	0.0001	0.00029	0.0055	0.00002	0.00005	0.01	0.000005	2.8	0.0001	0.0001	0.00044
		June		18	0.15	6.6	4.1	0.03	2.5	0.015	0.35	0.0031	0.0023	0.00016	0.0016	0.0061	0.000021	0.00005	0.026	0.0000058	3.1	0.00027	0.00016	0.00058
		July		22	0.25	7.5	5.2	0.035	3.0	0.02	0.53	0.0042	0.0023	0.0002	0.0028	0.0069	0.000022	0.000051	0.033	0.0000066	3.5	0.00033	0.00019	0.00067
		August		27	0.46	8.8	6.7	0.04	3.7	0.022	0.6	0.0051	0.0023	0.00026	0.0044	0.0081	0.000024	0.000052	0.041	0.0000078	4.1	0.0004	0.00025	0.00078
		September		33	0.69	10	8.8	0.047	4.7	0.025	0.65	0.0063	0.0023	0.00033	0.0068	0.0095	0.000025	0.000052	0.05	0.0000091	4.9	0.00047	0.00031	0.0009
		October		35	0.74	11	9.5	0.049	5.0	0.026	0.67	0.0071	0.0023	0.00035	0.0077	0.0099	0.000025	0.000052	0.052	0.0000095	5.1	0.00049	0.00033	0.00093
		November		35	0.74	11	9.5	0.049	5.0	0.026	0.67	0.0071	0.0023	0.00035	0.0077	0.0099	0.000025	0.000052	0.052	0.0000095	5.1	0.00049	0.00033	0.00093
		December		35	0.74	11	9.5	0.049	5.0	0.026	0.67	0.0071	0.0023	0.00035	0.0077	0.0099	0.000025	0.000052	0.052	0.0000095	5.1	0.00049	0.00033	0.00093
		January	2020	35	0.74	11	9.5	0.049	5.0	0.026	0.67	0.0071	0.0023	0.00035	0.0077	0.0099	0.000025	0.000052	0.052	0.0000095	5.1	0.00049	0.00033	0.00093
		February		35	0.74	11	9.5	0.049	5.0	0.026	0.67	0.0071	0.0023	0.00035	0.0077	0.0099	0.000025	0.000052	0.052	0.0000095	5.1	0.00049	0.00033	0.00093
		March		35	0.74	11	9.5	0.049	5.0	0.026	0.67	0.0071	0.0023	0.00035	0.0077	0.0099	0.000025	0.000052	0.052	0.0000095	5.1	0.00049	0.00033	0.00093
		April		35	0.74	11	9.5	0.049	5.0	0.026	0.67	0.0071	0.0023	0.00035	0.0077	0.0099	0.000025	0.000052	0.052	0.0000095	5.1	0.00049	0.00033	0.00093
		May		35	0.74	11	9.5	0.049	5.0	0.026	0.67	0.0071	0.0023	0.00035	0.0077	0.0099	0.000025	0.000052	0.052	0.0000095	5.1	0.00049	0.00033	0.00093
		June		63	0.7	12	25	0.054	5.7	0.061	0.92	0.01	0.0023	0.00034	0.0079	0.012	0.000026	0.000053	0.058	0.000011	13	0.00049	0.00035	0.00098
		July		87	0.65	13	40	0.056	5.9	0.099	1.1	0.011	0.0024	0.00034	0.0083	0.013	0.000027	0.000053	0.06	0.000012	21	0.00048	0.00035	0.00099
		August		86	0.69	13	39	0.058	6.1	0.097	1.1	0.011	0.0025	0.00037	0.0088	0.013	0.000027	0.000054	0.062	0.000012	20	0.00051	0.00037	0.001
		September		86	0.8	14	38	0.061	6.7	0.096	1.2	0.011	0.0024	0.00046	0.011	0.013	0.000028	0.000054	0.07	0.000013	20	0.0006	0.00042	0.0011
		October		88	0.84	14	38	0.063	6.9	0.098	1.3	0.012	0.0024	0.00049	0.012	0.014	0.000028	0.000054	0.073	0.000013	20	0.00063	0.00044	0.0012
		November		89	0.86	14	39	0.064	7.0	0.1	1.3	0.012	0.0023	0.0005	0.013	0.014	0.000028	0.000054	0.075	0.000013	20	0.00065	0.00045	0.0012
		December		91	0.88	15	39	0.065	7.1	0.1	1.4	0.012	0.0023	0.0005	0.013	0.014	0.000028	0.000054	0.076	0.000014	20	0.00066	0.00046	0.0012
		January	2021	92	0.89	15	40	0.065	7.1	0.1	1.4	0.012	0.0023	0.00051	0.013	0.014	0.000028	0.000053	0.077	0.000014	20	0.00066	0.00046	0.0012
		February		92	0.9	15	40	0.065	7.2	0.1	1.4	0.013	0.0023	0.00051	0.013	0.014	0.000028	0.000053	0.077	0.000014	21	0.00067	0.00046	0.0012
		March		93	0.9	15	40	0.066	7.2	0.1	1.4	0.013	0.0023	0.00052	0.013	0.014	0.000028	0.000053	0.078	0.000014	21	0.00067	0.00047	0.0012
		April		93	0.91	15	40	0.066	7.2	0.1	1.4	0.013	0											

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05				0.004		0.25									0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015		0.007
Constituent				Fe	Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Mammoth Outlet	Construction and Operations	January	2018	0.01	0.000066	0.0011	0.94	0.0011	0.0000051	0.000051	0.00074	0.59	0.00005	0.00001	0.6	0.02	0.00001	0.0001	0.00002	0.0005	0.001
		February		0.01	0.000066	0.0011	0.94	0.0011	0.0000051	0.000051	0.00074	0.59	0.00005	0.00001	0.6	0.02	0.00001	0.0001	0.00002	0.0005	0.001
		March		0.01	0.000066	0.0011	0.94	0.0011	0.0000051	0.000051	0.00074	0.59	0.00005	0.00001	0.6	0.02	0.00001	0.0001	0.00002	0.0005	0.001
		April		0.01	0.000066	0.0011	0.94	0.0011	0.0000051	0.000051	0.00074	0.59	0.00005	0.00001	0.6	0.02	0.00001	0.0001	0.00002	0.0005	0.001
		May		0.01	0.000066	0.0011	0.94	0.0011	0.0000051	0.000051	0.00074	0.59	0.00005	0.00001	0.6	0.02	0.00001	0.0001	0.00002	0.0005	0.001
		June		0.011	0.000064	0.001	0.9	0.0012	0.0000051	0.000051	0.00072	0.55	0.00005	0.000010	0.59	0.019	0.000010	0.00010	0.000022	0.0005	0.001
		July		0.013	0.000064	0.0011	0.88	0.0013	0.0000052	0.000051	0.00072	0.54	0.000051	0.00001	0.59	0.018	0.00001	0.0001	0.000025	0.00051	0.0011
		August		0.013	0.000066	0.0011	0.92	0.0013	0.0000053	0.000053	0.00075	0.56	0.000052	0.00001	0.61	0.019	0.00001	0.0001	0.000025	0.00052	0.0011
		September		0.013	0.000064	0.0011	0.89	0.0013	0.0000052	0.000052	0.00073	0.54	0.000051	0.00001	0.6	0.018	0.00001	0.0001	0.000025	0.00051	0.0011
		October		0.013	0.000064	0.0011	0.88	0.0013	0.0000052	0.000051	0.00072	0.54	0.000051	0.00001	0.59	0.018	0.00001	0.0001	0.000025	0.0005	0.0011
		November		0.013	0.000064	0.0011	0.88	0.0013	0.0000052	0.000051	0.00072	0.54	0.000051	0.00001	0.59	0.018	0.00001	0.0001	0.000025	0.0005	0.0011
		December		0.013	0.000064	0.0011	0.88	0.0013	0.0000052	0.000051	0.00072	0.54	0.000051	0.00001	0.59	0.018	0.00001	0.0001	0.000025	0.0005	0.0011
		January	2019	0.013	0.000064	0.0011	0.88	0.0013	0.0000052	0.000051	0.00072	0.54	0.000051	0.00001	0.59	0.018	0.00001	0.0001	0.000025	0.0005	0.0011
		February		0.013	0.000064	0.0011	0.88	0.0013	0.0000052	0.000051	0.00072	0.54	0.000051	0.00001	0.59	0.018	0.00001	0.0001	0.000025	0.0005	0.0011
		March		0.013	0.000064	0.0011	0.88	0.0013	0.0000052	0.000051	0.00072	0.54	0.000051	0.00001	0.59	0.018	0.00001	0.0001	0.000025	0.0005	0.0011
		April		0.013	0.000064	0.0011	0.88	0.0013	0.0000052	0.000051	0.00072	0.54	0.000051	0.00001	0.59	0.018	0.00001	0.0001	0.000025	0.0005	0.0011
		May		0.013	0.000064	0.0011	0.88	0.0013	0.0000052	0.000051	0.00072	0.54	0.000051	0.00001	0.59	0.018	0.00001	0.0001	0.000025	0.0005	0.0011
		June		0.023	0.00011	0.0011	0.95	0.0048	0.0000059	0.00019	0.0011	0.69	0.000098	0.000012	1.1	0.019	0.000011	0.00011	0.000073	0.00058	0.0013
		July		0.031	0.00013	0.0012	1.1	0.0093	0.0000063	0.00034	0.0014	0.79	0.00012	0.000013	1.6	0.022	0.000011	0.00011	0.00012	0.00061	0.0014
		August		0.036	0.00016	0.0014	1.3	0.017	0.0000069	0.00053	0.0022	0.95	0.00014	0.000015	2.1	0.026	0.000012	0.00012	0.00018	0.00066	0.0016
		September		0.04	0.00018	0.0016	1.6	0.027	0.0000073	0.00079	0.0031	1.1	0.00017	0.000016	2.8	0.031	0.000013	0.00012	0.00026	0.00069	0.0018
		October		0.043	0.00019	0.0016	1.6	0.03	0.0000074	0.00089	0.0033	1.2	0.00017	0.000017	3.0	0.033	0.000013	0.00012	0.00029	0.0007	0.0018
		November		0.043	0.00019	0.0016	1.6	0.03	0.0000074	0.00089	0.0033	1.2	0.00017	0.000017	3.0	0.033	0.000013	0.00012	0.00029	0.0007	0.0018
		December		0.043	0.00019	0.0016	1.6	0.03	0.0000074	0.00089	0.0033	1.2	0.00017	0.000017	3.0	0.033	0.000013	0.00012	0.00029	0.0007	0.0018
		January	2020	0.043	0.00019	0.0016	1.6	0.03	0.0000074	0.00089	0.0033	1.2	0.00017	0.000017	3.0	0.033	0.000013	0.00012	0.00029	0.0007	0.0018
		February		0.043	0.00019	0.0016	1.6	0.03	0.0000074	0.00089	0.0033	1.2	0.00017	0.000017	3.0	0.033	0.000013	0.00012	0.00029	0.0007	0.0018
		March		0.043	0.00019	0.0016	1.6	0.03	0.0000074	0.00089	0.0033	1.2	0.00017	0.000017	3.0	0.033	0.000013	0.00012	0.00029	0.0007	0.0018
		April		0.043	0.00019	0.0016	1.6	0.03	0.0000074	0.00089	0.0033	1.2	0.00017	0.000017	3.0	0.033	0.000013	0.00012	0.00029	0.0007	0.0018
		May		0.043	0.00019	0.0016	1.6	0.03	0.0000074	0.00089	0.0033	1.2	0.00017	0.000017	3.0	0.033	0.000013	0.00012	0.00029	0.0007	0.0018
		June		0.045	0.0002	0.002	2.2	0.035	0.0000074	0.0014	0.0032	1.3	0.00019	0.000017	4.0	0.045	0.000013	0.00012	0.00042	0.00069	0.0021
		July		0.047	0.00021	0.0021	2.3	0.037	0.0000075	0.0015	0.0032	1.3	0.0002	0.000016	4.3	0.05	0.000013	0.00012	0.00047	0.00068	0.0022
		August		0.048	0.00022	0.0021	2.3	0.039	0.0000078	0.0015	0.0034	1.3	0.00021	0.000017	4.4	0.05	0.000013	0.00012	0.00047	0.00071	0.0022
		September		0.053	0.00024	0.0022	2.4	0.047	0.0000081	0.0016	0.0039	1.5	0.00023	0.000018	4.7	0.05	0.000014	0.00013	0.0005	0.00076	0.0023
		October		0.057	0.00025	0.0022	2.4	0.05	0.0000083	0.0016	0.0041	1.5	0.00024	0.000018	4.9	0.051	0.000014	0.00013	0.00052	0.00078	0.0024
		November		0.058	0.00026	0.0022	2.5	0.052	0.0000084	0.0017	0.0041	1.5	0.00025	0.000019	5.0	0.052	0.000014	0.00013	0.00053	0.00079	0.0024
		December		0.059	0.00026	0.0022	2.5	0.052	0.0000084	0.0017	0.0042	1.6	0.00025	0.000019	5.1	0.052	0.000014	0.00013	0.00054	0.00079	0.0024
		January	2021	0.06	0.00026	0.0022	2.5	0.053	0.0000084	0.0017	0.0042	1.6	0.00025	0.000019	5.1	0.053	0.000014	0.00013	0.00055	0.00079	0.0024
		February		0.061	0.00026	0.0023	2.5	0.054	0.0000084	0.0017	0.0043	1.6	0.00026	0.000019	5.2	0.053	0.000014	0.00013	0.00055	0.0008	0.0025
		March		0.061	0.00027	0.0023	2.5	0.054	0.0000085	0.0017	0.0043	1.6	0.00026	0.000019	5.2	0.053	0.000014	0.00013	0.00056	0.0008	0.0025
		April		0.061	0.00027	0.0023	2.5	0.054	0.0000084	0.0017	0.0043	1.6	0.00026	0.000019	5.2	0.053	0.000014	0.00013	0.00056	0.0008	0.0025
		May		0.061	0.00027	0.0023	2.5	0.054	0.0000084	0.0017	0.0043	1.6	0.00026	0.000019	5.2	0.053	0.000014	0.00013	0.00056	0.00079	0.0025
		June		0.049	0.00021	0.0019	2.1	0.04	0.0000075	0.0013	0.0033	1.3	0.0002	0.000016	4.0	0.044	0.000013	0.00012	0.00042	0.00071	0.0021
		July		0.041	0.00017	0.0017	1.8	0.03	0.0000069	0.001	0.0026	1.1	0.00016	0.000015	3.2	0.037	0.000012	0.00012	0.00033	0.00066	0.0018
		August		0.037	0.00016	0.0017	1.7	0.026	0.0000069	0.00086	0.0024	1.0	0.00015	0.000015	2.8	0.036	0.000012	0.00012	0.00028	0.00066	0.0018
		September		0.04	0.00017	0.0017	1.7	0.029	0.0000069	0.00095	0.0025	1.1	0.00016	0.000015	3.0	0.036	0.000012				

Site and Downstream Water Quality Model Predictions
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Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1		
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025			1.5	0.00004		0.001		0.002			
LOCATION	Time Period	Constituent	Month	Year	TDS mg/L	Acidity mg/L	Alkalinity mg/L	Cl mg/L	F mg/L	SO4 mg/L	NH3 (as N) mg N/L	NO3 mg N/L	P _{total} ³ mg/L	Al ⁴ mg/L	Sb mg/L	As ⁷ mg/L	Ba mg/L	Be mg/L	Bi mg/L	B mg/L	Cd ⁶ mg/L	Ca mg/L	Cr ⁵ mg/L	Co mg/L	Cu ⁶ mg/L	
Mammoth Outlet	Construction and Operations	2024	January	31	0.38	8.1	9.4	0.041	3.6	0.056	0.74	0.007	0.0036	0.00031	0.0065	0.0077	0.000023	0.000052	0.032	0.0000076	5.5	0.00032	0.00023	0.00077		
			February	31	0.38	8.1	9.4	0.041	3.6	0.056	0.74	0.007	0.0036	0.00031	0.0065	0.0077	0.000023	0.000052	0.032	0.0000076	5.5	0.00032	0.00023	0.00077		
			March	31	0.38	8.1	9.4	0.041	3.6	0.056	0.74	0.007	0.0036	0.00031	0.0065	0.0077	0.000023	0.000052	0.032	0.0000076	5.5	0.00032	0.00023	0.00077		
			April	31	0.38	8.1	9.4	0.041	3.6	0.056	0.74	0.007	0.0036	0.00031	0.0065	0.0077	0.000023	0.000052	0.032	0.0000076	5.5	0.00032	0.00023	0.00077		
			May	31	0.38	8.1	9.4	0.041	3.6	0.056	0.74	0.007	0.0036	0.00031	0.0065	0.0077	0.000023	0.000052	0.032	0.0000076	5.5	0.00032	0.00023	0.00077		
			June	31	0.43	8.2	8.9	0.041	3.7	0.07	0.83	0.0073	0.0036	0.00034	0.007	0.0076	0.000023	0.000051	0.032	0.0000076	5.2	0.00033	0.00024	0.00078		
			July	31	0.5	8.3	8.5	0.042	3.9	0.086	0.95	0.0077	0.0037	0.00036	0.0077	0.0077	0.000023	0.000052	0.033	0.0000077	5.0	0.00034	0.00025	0.0008		
			August	30	0.45	8.2	8.2	0.042	3.8	0.079	0.87	0.0072	0.0038	0.00034	0.007	0.0078	0.000023	0.000054	0.031	0.0000076	5.0	0.00032	0.00024	0.00078		
			September	31	0.51	8.3	8.2	0.042	3.9	0.09	0.96	0.0076	0.0037	0.00036	0.0077	0.0077	0.000023	0.000052	0.033	0.0000077	5.0	0.00034	0.00025	0.0008		
			October	31	0.54	8.4	8.3	0.043	3.9	0.097	1.0	0.0078	0.0037	0.00038	0.0081	0.0078	0.000023	0.000052	0.033	0.0000077	5.0	0.00034	0.00025	0.00081		
			November	31	0.54	8.4	8.3	0.043	3.9	0.097	1.0	0.0078	0.0037	0.00038	0.0081	0.0078	0.000023	0.000052	0.033	0.0000077	5.0	0.00034	0.00025	0.00081		
			December	31	0.54	8.4	8.3	0.043	3.9	0.097	1.0	0.0078	0.0037	0.00038	0.0081	0.0078	0.000023	0.000052	0.033	0.0000077	5.0	0.00034	0.00025	0.00081		
		January	2025	31	0.54	8.4	8.3	0.043	3.9	0.097	1.0	0.0078	0.0037	0.00038	0.0081	0.0078	0.000023	0.000052	0.033	0.0000077	5.0	0.00034	0.00025	0.00081		
		February		31	0.54	8.4	8.3	0.043	3.9	0.097	1.0	0.0078	0.0037	0.00038	0.0081	0.0078	0.000023	0.000052	0.033	0.0000077	5.0	0.00034	0.00025	0.00081		
		March		31	0.54	8.4	8.3	0.043	3.9	0.097	1.0	0.0078	0.0037	0.00038	0.0081	0.0078	0.000023	0.000052	0.033	0.0000077	5.0	0.00034	0.00025	0.00081		
		April		31	0.54	8.4	8.3	0.043	3.9	0.097	1.0	0.0078	0.0037	0.00038	0.0081	0.0078	0.000023	0.000052	0.033	0.0000077	5.0	0.00034	0.00025	0.00081		
		May		31	0.54	8.4	8.3	0.043	3.9	0.097	1.0	0.0078	0.0037	0.00038	0.0081	0.0078	0.000023	0.000052	0.033	0.0000077	5.0	0.00034	0.00025	0.00081		
		June		32	0.62	8.5	8.1	0.043	4.1	0.11	1.1	0.0081	0.0037	0.0004	0.0086	0.0078	0.000023	0.000052	0.034	0.0000077	4.9	0.00036	0.00026	0.00083		
		July		33	0.71	8.7	8.1	0.044	4.2	0.13	1.3	0.0086	0.0038	0.00042	0.0093	0.008	0.000023	0.000053	0.036	0.0000079	5.0	0.00037	0.00028	0.00085		
		August		32	0.65	8.5	7.9	0.043	4.1	0.12	1.1	0.0081	0.0039	0.00039	0.0085	0.0079	0.000024	0.000054	0.033	0.0000077	4.9	0.00035	0.00026	0.00082		
		September		33	0.72	8.7	8.0	0.044	4.2	0.13	1.3	0.0085	0.0038	0.00042	0.0093	0.0079	0.000023	0.000053	0.035	0.0000078	4.9	0.00037	0.00027	0.00085		
		October		33	0.77	8.8	8.1	0.044	4.3	0.14	1.3	0.0087	0.0038	0.00043	0.0096	0.008	0.000023	0.000053	0.036	0.0000079	5.0	0.00038	0.00028	0.00086		
		November		33	0.77	8.8	8.1	0.044	4.3	0.14	1.3	0.0087	0.0038	0.00043	0.0096	0.008	0.000023	0.000053	0.036	0.0000079	5.0	0.00038	0.00028	0.00086		
		December		33	0.77	8.8	8.1	0.044	4.3	0.14	1.3	0.0087	0.0038	0.00043	0.0096	0.008	0.000023	0.000053	0.036	0.0000079	5.0	0.00038	0.00028	0.00086		
		MINIMUM			14	0.15	5.1	3.7	0.026	2.0	0.0064	0.0051	0.0022	0.0022	0.00010	0.00029	0.0055	0.00002	0.00005	0.010	0.000005	2.8	0.0001	0.00010	0.0004	
		MAXIMUM			93	0.91	15	40	0.066	7.2	0.14	1.4	0.013	0.0039	0.00052	0.013	0.014	0.000028	0.000054	0.078	0.000014	21	0.00067	0.00047	0.0012	
		AVERAGE			39	0.54	8.9	14	0.043	4.1	0.057	0.71	0.0071	0.0031	0.00031	0.0064	0.0086	0.000024	0.000052	0.037	0.0000084	7.7	0.00035	0.00026	0.00079	
	Closure, no mine contact water discharge	2026	January	33	0.77	8.8	8.1	0.044	4.3	0.14	1.3	0.0087	0.0038	0.00043	0.0096	0.008	0.000023	0.000053	0.036	0.0000079	5.0	0.00038	0.00028	0.00086		
			February	33	0.77	8.8	8.1	0.044	4.3	0.14	1.3	0.0087	0.0038	0.00043	0.0096	0.008	0.000023	0.000053	0.036	0.0000079	5.0	0.00038	0.00028	0.00086		
			March	33	0.77	8.8	8.1	0.044	4.3	0.14	1.3	0.0087	0.0038	0.00043	0.0096	0.008	0.000023	0.000053	0.036	0.0000079	5.0	0.00038	0.00028	0.00086		
			April	33	0.77	8.8	8.1	0.044	4.3	0.14	1.3	0.0087	0.0038	0.00043	0.0096	0.008	0.000023	0.000053	0.036	0.0000079	5.0	0.00038	0.00028	0.00086		
			May	33	0.77	8.8	8.1	0.044	4.3	0.14	1.3	0.0087	0.0038	0.00043	0.0096	0.008	0.000023	0.000053	0.036	0.0000079	5.0	0.00038	0.00028	0.00086		
			June	28	0.57	7.8	7.0	0.039	3.8	0.11	0.97	0.007	0.0037	0.00035	0.0072	0.0074	0.000022	0.000052	0.029	0.0000071	4.5	0.0003	0.00023	0.00074		
			July	27	0.48	7.5	6.7	0.038	3.6	0.093	0.82	0.0063	0.0037	0.00031	0.0062	0.0073	0.000022	0.000053	0.027	0.0000069	4.3	0.00027	0.00022	0.0007		
			August	25	0.4	7.4	6.5	0.037	3.5	0.079	0.69	0.0057	0.0038	0.00028	0.0053	0.0073	0.000023	0.000054	0.024	0.0000068	4.3	0.00025	0.0002	0.00067		
			September	26	0.45	7.4	6.6	0.037	3.5	0.087	0.77	0.006	0.0037	0.0003	0.0058	0.0073	0.000023	0.000053	0.025	0.0000068	4.3	0.00026	0.00021	0.00068		
			October	26	0.47	7.4	6.6	0.038	3.6	0.091	0.81	0.0062	0.0037	0.00031	0.0061	0.0073	0.000022	0.000052	0.026	0.0000068	4.3	0.00027	0.00021	0.00069		
			November	26	0.47	7.4	6.6	0.038	3.6	0.091	0.81	0.0062	0.0037	0.00031	0.0061	0.0073	0.000022	0.000052	0.026	0.0000068	4.3	0.00027	0.00021	0.00069		
			December	26	0.47	7.4	6.6																			

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05				0.004		0.25									0.1		
CEQG aquatic life (long-term) ² (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015		0.007	
Constituent				Fe	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Mammoth Outlet	Construction and Operations	January	2024	0.038	0.00013	0.0014	1.3	0.02	0.0000065	0.00052	0.0021	0.91	0.00013	0.000014	2.0	0.027	0.000012	0.00011	0.00019	0.00064	0.0016	
		February		0.038	0.00013	0.0014	1.3	0.02	0.0000065	0.00052	0.0021	0.91	0.00013	0.000014	2.0	0.027	0.000012	0.00011	0.00019	0.00064	0.0016	
		March		0.038	0.00013	0.0014	1.3	0.02	0.0000065	0.00052	0.0021	0.91	0.00013	0.000014	2.0	0.027	0.000012	0.00011	0.00019	0.00064	0.0016	
		April		0.038	0.00013	0.0014	1.3	0.02	0.0000065	0.00052	0.0021	0.91	0.00013	0.000014	2.0	0.027	0.000012	0.00011	0.00019	0.00064	0.0016	
		May		0.038	0.00013	0.0014	1.3	0.02	0.0000065	0.00052	0.0021	0.91	0.00013	0.000014	2.0	0.027	0.000012	0.00011	0.00019	0.00064	0.0016	
		June		0.039	0.00013	0.0014	1.3	0.021	0.0000066	0.00051	0.0022	0.94	0.00014	0.000014	2.1	0.027	0.000012	0.00011	0.00019	0.00065	0.0016	
		July		0.041	0.00014	0.0015	1.3	0.023	0.0000069	0.00052	0.0024	0.99	0.00015	0.000014	2.1	0.028	0.000012	0.00011	0.00019	0.00067	0.0017	
		August		0.038	0.00013	0.0015	1.3	0.021	0.0000069	0.00047	0.0022	0.97	0.00014	0.000014	2.0	0.028	0.000012	0.00012	0.00018	0.00067	0.0016	
		September		0.04	0.00014	0.0015	1.3	0.022	0.0000069	0.0005	0.0024	0.99	0.00015	0.000014	2.1	0.028	0.000012	0.00011	0.00019	0.00067	0.0017	
		October		0.041	0.00014	0.0015	1.3	0.023	0.000007	0.00052	0.0025	1.0	0.00015	0.000014	2.1	0.028	0.000012	0.00011	0.00019	0.00068	0.0017	
		November		0.041	0.00014	0.0015	1.3	0.023	0.000007	0.00052	0.0025	1.0	0.00015	0.000014	2.1	0.028	0.000012	0.00011	0.00019	0.00068	0.0017	
		December		0.041	0.00014	0.0015	1.3	0.023	0.000007	0.00052	0.0025	1.0	0.00015	0.000014	2.1	0.028	0.000012	0.00011	0.00019	0.00068	0.0017	
		January	2025	0.041	0.00014	0.0015	1.3	0.023	0.000007	0.00052	0.0025	1.0	0.00015	0.000014	2.1	0.028	0.000012	0.00011	0.00019	0.00068	0.0017	
		February		0.041	0.00014	0.0015	1.3	0.023	0.000007	0.00052	0.0025	1.0	0.00015	0.000014	2.1	0.028	0.000012	0.00011	0.00019	0.00068	0.0017	
		March		0.041	0.00014	0.0015	1.3	0.023	0.000007	0.00052	0.0025	1.0	0.00015	0.000014	2.1	0.028	0.000012	0.00011	0.00019	0.00068	0.0017	
		April		0.041	0.00014	0.0015	1.3	0.023	0.000007	0.00052	0.0025	1.0	0.00015	0.000014	2.1	0.028	0.000012	0.00011	0.00019	0.00068	0.0017	
		May		0.041	0.00014	0.0015	1.3	0.023	0.000007	0.00052	0.0025	1.0	0.00015	0.000014	2.1	0.028	0.000012	0.00011	0.00019	0.00068	0.0017	
		June		0.042	0.00014	0.0015	1.2	0.025	0.0000071	0.00052	0.0026	1.1	0.00016	0.000015	2.2	0.029	0.000012	0.00011	0.0002	0.00069	0.0018	
		July		0.044	0.00015	0.0015	1.3	0.026	0.0000074	0.00054	0.0028	1.1	0.00018	0.000015	2.3	0.03	0.000013	0.00012	0.0002	0.00071	0.0018	
		August		0.041	0.00014	0.0015	1.3	0.024	0.0000074	0.00049	0.0026	1.1	0.00017	0.000015	2.2	0.029	0.000013	0.00012	0.00018	0.0007	0.0018	
		September		0.043	0.00015	0.0015	1.3	0.026	0.0000074	0.00052	0.0028	1.1	0.00018	0.000015	2.3	0.03	0.000013	0.00012	0.0002	0.00071	0.0018	
		October		0.044	0.00015	0.0016	1.3	0.027	0.0000075	0.00054	0.0029	1.1	0.00018	0.000015	2.3	0.03	0.000013	0.00012	0.0002	0.00071	0.0019	
		November		0.044	0.00015	0.0016	1.3	0.027	0.0000075	0.00054	0.0029	1.1	0.00018	0.000015	2.3	0.03	0.000013	0.00012	0.0002	0.00071	0.0019	
		December		0.044	0.00015	0.0016	1.3	0.027	0.0000075	0.00054	0.0029	1.1	0.00018	0.000015	2.3	0.03	0.000013	0.00012	0.0002	0.00071	0.0019	
		MINIMUM MAXIMUM AVERAGE		0.01	0.000064	0.001	0.88	0.0011	0.0000051	0.000051	0.00072	0.54	0.00005	0.000010	0.59	0.018	0.000010	0.00010	0.00002	0.0005	0.001	
				0.061	0.00027	0.0023	2.5	0.054	0.0000085	0.0017	0.0043	1.6	0.00026	0.000019	5.2	0.053	0.000014	0.00013	0.00056	0.0008	0.0025	
				0.037	0.00015	0.0015	1.5	0.023	0.0000067	0.00067	0.0023	0.98	0.00014	0.000014	2.4	0.031	0.000012	0.00011	0.00023	0.00065	0.0017	
	Closure, no mine contact water discharge	January	2026	0.044	0.00015	0.0016	1.3	0.027	0.0000075	0.00054	0.0029	1.1	0.00018	0.000015	2.3	0.03	0.000013	0.00012	0.0002	0.00071	0.0019	
		February		0.044	0.00015	0.0016	1.3	0.027	0.0000075	0.00054	0.0029	1.1	0.00018	0.000015	2.3	0.03	0.000013	0.00012	0.0002	0.00071	0.0019	
		March		0.044	0.00015	0.0016	1.3	0.027	0.0000075	0.00054	0.0029	1.1	0.00018	0.000015	2.3	0.03	0.000013	0.00012	0.0002	0.00071	0.0019	
		April		0.044	0.00015	0.0016	1.3	0.027	0.0000075	0.00054	0.0029	1.1	0.00018	0.000015	2.3	0.03	0.000013	0.00012	0.0002	0.00071	0.0019	
		May		0.044	0.00015	0.0016	1.3	0.027	0.0000075	0.00054	0.0029	1.1	0.00018	0.000015	2.3	0.03	0.000013	0.00012	0.0002	0.00071	0.0019	
		June		0.035	0.00013	0.0014	1.2	0.02	0.0000069	0.00041	0.0024	0.99	0.00015	0.000014	1.9	0.027	0.000012	0.00011	0.00015	0.00065	0.0016	
		July		0.031	0.00012	0.0014	1.2	0.017	0.0000067	0.00036	0.0021	0.94	0.00013	0.000014	1.7	0.027	0.000012	0.00011	0.00013	0.00064	0.0016	
		August		0.028	0.00011	0.0014	1.2	0.015	0.0000067	0.00031	0.0019	0.91	0.00012	0.000013	1.5	0.026	0.000012	0.00011	0.00012	0.00064	0.0015	
		September		0.03	0.00012	0.0014	1.1	0.016	0.0000067	0.00034	0.002	0.92	0.00013	0.000013	1.6	0.026	0.000012	0.00011	0.00013	0.00064	0.0015	
		October		0.031	0.00012	0.0014	1.1	0.017	0.0000067	0.00035	0.0021	0.93	0.00013	0.000013	1.7	0.026	0.000012	0.00011	0.00013	0.00064	0.0016	
		November		0.031	0.00012	0.0014	1.1	0.017	0.0000067	0.00035	0.0021	0.93	0.00013	0.000013	1.7	0.026	0.000012	0.00011	0.00013	0.00064	0.0016	
		December		0.031	0.00012	0.0014	1.1	0.017	0.0000067	0.00035	0.0021	0.93	0.00013	0.000013	1.7	0.026	0.000012	0.00011	0.00013	0.00064	0.0016	
		January	2027	0.031	0.00012	0.0014	1.1	0.017	0.0000067	0.00035	0.0021	0.93	0.00013	0.000013	1.7	0.026	0.000012	0.00011	0.00013	0.00064	0.0016	
		February		0.031	0.00012	0.0014	1.1	0.017	0.0000067	0.00035	0.0021	0.93	0.00013	0.000013	1.7	0.026	0.000012	0.00011	0.00013	0.00064	0.0016	
		March		0.031	0.00012	0.0014	1.1	0.017	0.0000067	0.00035	0.0021	0.93	0.00013	0.000013	1.7	0.026	0.000012	0.00011	0.00013	0.00064	0.0016	
		April		0.031	0.00012	0.0014	1.1	0.017	0.0000067	0.00035	0.0021	0.93	0.00013	0.000013	1.7	0.026	0.000012	0.00011	0.00013	0.00064	0.0016	
		May		0.031	0.00012	0.0014	1.1	0.017	0.0000067	0.00035	0.0021	0.93	0.00013	0.000013	1.7	0.026	0.000012	0.00011	0.00013	0.00064	0.0016	
		June		0.03	0.00012	0.0014	1.1	0.017														

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1				0.002		0.02		0.1	
CEQG aquatic life (long-term) ² (mg/L)							120	0.12				2.93	0.01	0.1		0.025		1.5	0.00004		0.001		0.002	
LOCATION	Time Period	Constituent	Year	TDS mg/L	Acidity mg/L	Alkalinity mg/L	Cl mg/L	F mg/L	SO4 mg/L	NH3 (as N) mg N/L	NO3 mg N/L	P _{total} ³ mg/L	Al ⁴ mg/L	Sb mg/L	As ⁷ mg/L	Ba mg/L	Be mg/L	Bi mg/L	B mg/L	Cd ⁶ mg/L	Ca mg/L	Cr ⁵ mg/L	Co mg/L	Cu ⁶ mg/L
Mammoth Outlet	Closure, no mine contact water discharge	January	2030	22	0.29	6.7	5.8	0.034	3.1	0.059	0.5	0.0047	0.0037	0.00023	0.0039	0.0069	0.000022	0.000053	0.02	0.0000062	3.9	0.00021	0.00017	0.00059
		February		22	0.29	6.7	5.8	0.034	3.1	0.059	0.5	0.0047	0.0037	0.00023	0.0039	0.0069	0.000022	0.000053	0.02	0.0000062	3.9	0.00021	0.00017	0.00059
		March		22	0.29	6.7	5.8	0.034	3.1	0.059	0.5	0.0047	0.0037	0.00023	0.0039	0.0069	0.000022	0.000053	0.02	0.0000062	3.9	0.00021	0.00017	0.00059
		April		22	0.29	6.7	5.8	0.034	3.1	0.059	0.5	0.0047	0.0037	0.00023	0.0039	0.0069	0.000022	0.000053	0.02	0.0000062	3.9	0.00021	0.00017	0.00059
		May		22	0.29	6.7	5.8	0.034	3.1	0.059	0.5	0.0047	0.0037	0.00023	0.0039	0.0069	0.000022	0.000053	0.02	0.0000062	3.9	0.00021	0.00017	0.00059
		June		22	0.28	6.6	5.7	0.033	3.1	0.057	0.49	0.0046	0.0036	0.00023	0.0038	0.0069	0.000022	0.000052	0.02	0.0000062	3.9	0.0002	0.00017	0.00058
		July		22	0.25	6.6	5.6	0.033	3.1	0.052	0.43	0.0044	0.0037	0.00021	0.0034	0.0069	0.000022	0.000053	0.019	0.0000062	3.9	0.00019	0.00016	0.00057
		August		21	0.21	6.6	5.6	0.033	3.0	0.045	0.37	0.0041	0.0038	0.0002	0.0029	0.007	0.000023	0.000055	0.018	0.0000062	3.9	0.00018	0.00016	0.00056
		September		21	0.24	6.6	5.6	0.033	3.0	0.049	0.4	0.0043	0.0037	0.00021	0.0032	0.0069	0.000022	0.000054	0.019	0.0000061	3.9	0.00019	0.00016	0.00056
		October		21	0.25	6.5	5.6	0.033	3.0	0.051	0.43	0.0043	0.0036	0.00021	0.0034	0.0068	0.000022	0.000053	0.019	0.0000061	3.8	0.00019	0.00016	0.00057
		November		21	0.25	6.5	5.6	0.033	3.0	0.051	0.43	0.0043	0.0036	0.00021	0.0034	0.0068	0.000022	0.000053	0.019	0.0000061	3.8	0.00019	0.00016	0.00057
		December		21	0.25	6.5	5.6	0.033	3.0	0.051	0.43	0.0043	0.0036	0.00021	0.0034	0.0068	0.000022	0.000053	0.019	0.0000061	3.8	0.00019	0.00016	0.00057
		January	2031	21	0.25	6.5	5.6	0.033	3.0	0.051	0.43	0.0043	0.0036	0.00021	0.0034	0.0068	0.000022	0.000053	0.019	0.0000061	3.8	0.00019	0.00016	0.00057
		February		21	0.25	6.5	5.6	0.033	3.0	0.051	0.43	0.0043	0.0036	0.00021	0.0034	0.0068	0.000022	0.000053	0.019	0.0000061	3.8	0.00019	0.00016	0.00057
		March		21	0.25	6.5	5.6	0.033	3.0	0.051	0.43	0.0043	0.0036	0.00021	0.0034	0.0068	0.000022	0.000053	0.019	0.0000061	3.8	0.00019	0.00016	0.00057
		April		21	0.25	6.5	5.6	0.033	3.0	0.051	0.43	0.0043	0.0036	0.00021	0.0034	0.0068	0.000022	0.000053	0.019	0.0000061	3.8	0.00019	0.00016	0.00057
		May		21	0.25	6.5	5.6	0.033	3.0	0.051	0.43	0.0043	0.0036	0.00021	0.0034	0.0068	0.000022	0.000053	0.019	0.0000061	3.8	0.00019	0.00016	0.00057
		June		21	0.24	6.5	5.5	0.033	3.0	0.05	0.41	0.0043	0.0036	0.00021	0.0033	0.0068	0.000022	0.000053	0.019	0.0000061	3.8	0.00019	0.00016	0.00056
		July		21	0.21	6.4	5.5	0.032	3.0	0.045	0.37	0.0041	0.0037	0.0002	0.003	0.0068	0.000022	0.000053	0.018	0.000006	3.8	0.00018	0.00016	0.00055
		August		20	0.18	6.5	5.4	0.032	3.0	0.039	0.31	0.0039	0.0038	0.00019	0.0026	0.0069	0.000022	0.000055	0.017	0.0000061	3.8	0.00017	0.00015	0.00054
		September		21	0.2	6.4	5.4	0.032	3.0	0.043	0.34	0.004	0.0037	0.00019	0.0028	0.0068	0.000022	0.000054	0.017	0.000006	3.8	0.00018	0.00015	0.00055
		October		21	0.21	6.4	5.4	0.032	2.9	0.044	0.36	0.004	0.0036	0.0002	0.0029	0.0068	0.000022	0.000053	0.018	0.000006	3.8	0.00018	0.00015	0.00055
		November		21	0.21	6.4	5.4	0.032	2.9	0.044	0.36	0.004	0.0036	0.0002	0.0029	0.0068	0.000022	0.000053	0.018	0.000006	3.8	0.00018	0.00015	0.00055
		December		21	0.21	6.4	5.4	0.032	2.9	0.044	0.36	0.004	0.0036	0.0002	0.0029	0.0068	0.000022	0.000053	0.018	0.000006	3.8	0.00018	0.00015	0.00055
		January	2032	21	0.21	6.4	5.4	0.032	2.9	0.044	0.36	0.004	0.0036	0.0002	0.0029	0.0068	0.000022	0.000053	0.018	0.000006	3.8	0.00018	0.00015	0.00055
		February		21	0.21	6.4	5.4	0.032	2.9	0.044	0.36	0.004	0.0036	0.0002	0.0029	0.0068	0.000022	0.000053	0.018	0.000006	3.8	0.00018	0.00015	0.00055
		March		21	0.21	6.4	5.4	0.032	2.9	0.044	0.36	0.004	0.0036	0.0002	0.0029	0.0068	0.000022	0.000053	0.018	0.000006	3.8	0.00018	0.00015	0.00055
		April		21	0.21	6.4	5.4	0.032	2.9	0.044	0.36	0.004	0.0036	0.0002	0.0029	0.0068	0.000022	0.000053	0.018	0.000006	3.8	0.00018	0.00015	0.00055
		May		21	0.21	6.4	5.4	0.032	2.9	0.044	0.36	0.004	0.0036	0.0002	0.0029	0.0068	0.000022	0.000053	0.018	0.000006	3.8	0.00018	0.00015	0.00055
		June		20	0.21	6.3	5.4	0.032	2.9	0.043	0.35	0.004	0.0036	0.00019	0.0028	0.0067	0.000022	0.000053	0.017	0.0000059	3.7	0.00018	0.00015	0.00054
		July		20	0.18	6.3	5.3	0.032	2.9	0.039	0.32	0.0038	0.0037	0.00018	0.0026	0.0067	0.000022	0.000053	0.017	0.000006	3.7	0.00017	0.00015	0.00053
		August		20	0.15	6.4	5.3	0.032	2.9	0.035	0.27	0.0036	0.0038	0.00018	0.0022	0.0069	0.000022	0.000055	0.016	0.000006	3.8	0.00016	0.00015	0.00053
		September		20	0.17	6.3	5.3	0.032	2.9	0.037	0.29	0.0037	0.0037	0.00018	0.0024	0.0068	0.000022	0.000054	0.016	0.0000059	3.7	0.00017	0.00015	0.00053
		October		20	0.18	6.3	5.3	0.032	2.9	0.039	0.31	0.0038	0.0036	0.00018	0.0025	0.0067	0.000022	0.000053	0.017	0.0000059	3.7	0.00017	0.00015	0.00053
		November		20	0.18	6.3	5.3	0.032	2.9	0.039	0.31	0.0038	0.0036	0.00018	0.0025	0.0067	0.000022	0.000053	0.017	0.0000059	3.7	0.00017	0.00015	0.00053
		December		20	0.18	6.3	5.3	0.032	2.9	0.039	0.31	0.0038	0.0036	0.00018	0.0025	0.0067	0.000022	0.000053	0.017	0.0000059	3.7	0.00017	0.00015	0.00053
		January	2033	20	0.18	6.3	5.3	0.032	2.9	0.039	0.31	0.0038	0.0036	0.00018	0.0025	0.0067	0.000022	0.000053	0.017	0.0000059	3.7	0.00017	0.00015	0.00053
		February		20	0.18	6.3	5.3	0.032	2.9	0.039	0.31	0.0038	0.0036	0.00018	0.0025	0.0067	0.000022	0.000053	0.017	0.0000059	3.7	0.00017	0.00015	0.00053
		March		20	0.18	6.3	5.3	0.032	2.9	0.039	0.31	0.0038	0.0036	0.00018	0.0025	0.0067	0.000022	0.						

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05				0.004		0.25									0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015		0.007
Constituent				Fe	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Mammoth Outlet	Closure, no mine contact water discharge	January	2030	0.023	0.00010	0.0013	1.1	0.011	0.000062	0.00024	0.0016	0.82	0.0001	0.000012	1.3	0.024	0.000011	0.00011	0.000089	0.0006	0.0014
		February		0.023	0.00010	0.0013	1.1	0.011	0.000062	0.00024	0.0016	0.82	0.0001	0.000012	1.3	0.024	0.000011	0.00011	0.000089	0.0006	0.0014
		March		0.023	0.00010	0.0013	1.1	0.011	0.000062	0.00024	0.0016	0.82	0.0001	0.000012	1.3	0.024	0.000011	0.00011	0.000089	0.0006	0.0014
		April		0.023	0.00010	0.0013	1.1	0.011	0.000062	0.00024	0.0016	0.82	0.0001	0.000012	1.3	0.024	0.000011	0.00011	0.000089	0.0006	0.0014
		May		0.023	0.00010	0.0013	1.1	0.011	0.000062	0.00024	0.0016	0.82	0.0001	0.000012	1.3	0.024	0.000011	0.00011	0.000089	0.0006	0.0014
		June		0.023	0.000098	0.0013	1.1	0.011	0.000062	0.00023	0.0016	0.81	0.0001	0.000012	1.2	0.024	0.000011	0.00011	0.000087	0.00059	0.0014
		July		0.022	0.000096	0.0013	1.1	0.0097	0.000062	0.00021	0.0015	0.79	0.000096	0.000012	1.2	0.024	0.000011	0.00011	0.00008	0.00059	0.0013
		August		0.02	0.000094	0.0013	1.1	0.0084	0.000062	0.00019	0.0014	0.79	0.00009	0.000012	1.1	0.024	0.000012	0.00011	0.000071	0.0006	0.0013
		September		0.021	0.000095	0.0013	1.1	0.0091	0.000062	0.0002	0.0015	0.79	0.000093	0.000012	1.2	0.024	0.000011	0.00011	0.000076	0.00059	0.0013
		October		0.021	0.000095	0.0013	1.1	0.0096	0.000061	0.00021	0.0015	0.79	0.000095	0.000012	1.2	0.024	0.000011	0.00011	0.000079	0.00059	0.0013
		November		0.021	0.000095	0.0013	1.1	0.0096	0.000061	0.00021	0.0015	0.79	0.000095	0.000012	1.2	0.024	0.000011	0.00011	0.000079	0.00059	0.0013
		December		0.021	0.000095	0.0013	1.1	0.0096	0.000061	0.00021	0.0015	0.79	0.000095	0.000012	1.2	0.024	0.000011	0.00011	0.000079	0.00059	0.0013
		January	2031	0.021	0.000095	0.0013	1.1	0.0096	0.000061	0.00021	0.0015	0.79	0.000095	0.000012	1.2	0.024	0.000011	0.00011	0.000079	0.00059	0.0013
		February		0.021	0.000095	0.0013	1.1	0.0096	0.000061	0.00021	0.0015	0.79	0.000095	0.000012	1.2	0.024	0.000011	0.00011	0.000079	0.00059	0.0013
		March		0.021	0.000095	0.0013	1.1	0.0096	0.000061	0.00021	0.0015	0.79	0.000095	0.000012	1.2	0.024	0.000011	0.00011	0.000079	0.00059	0.0013
		April		0.021	0.000095	0.0013	1.1	0.0096	0.000061	0.00021	0.0015	0.79	0.000095	0.000012	1.2	0.024	0.000011	0.00011	0.000079	0.00059	0.0013
		May		0.021	0.000095	0.0013	1.1	0.0096	0.000061	0.00021	0.0015	0.79	0.000095	0.000012	1.2	0.024	0.000011	0.00011	0.000079	0.00059	0.0013
		June		0.021	0.000094	0.0013	1.1	0.0093	0.000061	0.0002	0.0015	0.78	0.000093	0.000012	1.2	0.024	0.000011	0.00011	0.000077	0.00058	0.0013
		July		0.02	0.000092	0.0013	1.1	0.0084	0.000061	0.00019	0.0014	0.77	0.000089	0.000012	1.1	0.024	0.000011	0.00011	0.000072	0.00058	0.0013
		August		0.019	0.000091	0.0013	1.1	0.0073	0.000061	0.00017	0.0013	0.77	0.000085	0.000012	1.1	0.024	0.000011	0.00011	0.000064	0.00059	0.0013
		September		0.019	0.000091	0.0013	1.1	0.008	0.000061	0.00018	0.0014	0.77	0.000087	0.000012	1.1	0.024	0.000011	0.00011	0.000068	0.00058	0.0013
		October		0.02	0.000092	0.0012	1.1	0.0083	0.00006	0.00019	0.0014	0.76	0.000088	0.000012	1.1	0.023	0.000011	0.00011	0.000071	0.00058	0.0013
		November		0.02	0.000092	0.0012	1.1	0.0083	0.00006	0.00019	0.0014	0.76	0.000088	0.000012	1.1	0.023	0.000011	0.00011	0.000071	0.00058	0.0013
		December		0.02	0.000092	0.0012	1.1	0.0083	0.00006	0.00019	0.0014	0.76	0.000088	0.000012	1.1	0.023	0.000011	0.00011	0.000071	0.00058	0.0013
		January	2032	0.02	0.000092	0.0012	1.1	0.0083	0.00006	0.00019	0.0014	0.76	0.000088	0.000012	1.1	0.023	0.000011	0.00011	0.000071	0.00058	0.0013
		February		0.02	0.000092	0.0012	1.1	0.0083	0.00006	0.00019	0.0014	0.76	0.000088	0.000012	1.1	0.023	0.000011	0.00011	0.000071	0.00058	0.0013
		March		0.02	0.000092	0.0012	1.1	0.0083	0.00006	0.00019	0.0014	0.76	0.000088	0.000012	1.1	0.023	0.000011	0.00011	0.000071	0.00058	0.0013
		April		0.02	0.000092	0.0012	1.1	0.0083	0.00006	0.00019	0.0014	0.76	0.000088	0.000012	1.1	0.023	0.000011	0.00011	0.000071	0.00058	0.0013
		May		0.02	0.000092	0.0012	1.1	0.0083	0.00006	0.00019	0.0014	0.76	0.000088	0.000012	1.1	0.023	0.000011	0.00011	0.000071	0.00058	0.0013
		June		0.019	0.000091	0.0012	1.1	0.0081	0.00006	0.00018	0.0014	0.76	0.000087	0.000012	1.1	0.023	0.000011	0.00011	0.000069	0.00058	0.0013
		July		0.019	0.000089	0.0012	1.1	0.0074	0.00006	0.00017	0.0013	0.75	0.000084	0.000012	1.0	0.023	0.000011	0.00011	0.000064	0.00058	0.0013
		August		0.018	0.000088	0.0013	1.1	0.0064	0.000061	0.00015	0.0012	0.75	0.000081	0.000012	0.99	0.023	0.000011	0.00011	0.000058	0.00059	0.0013
		September		0.018	0.000088	0.0012	1.1	0.0069	0.00006	0.00016	0.0013	0.75	0.000082	0.000012	1.0	0.023	0.000011	0.00011	0.000061	0.00058	0.0013
		October		0.018	0.000088	0.0012	1.1	0.0073	0.000059	0.00017	0.0013	0.74	0.000083	0.000012	1.0	0.023	0.000011	0.00011	0.000063	0.00057	0.0013
		November		0.018	0.000088	0.0012	1.1	0.0073	0.000059	0.00017	0.0013	0.74	0.000083	0.000012	1.0	0.023	0.000011	0.00011	0.000063	0.00057	0.0013
		December		0.018	0.000088	0.0012	1.1	0.0073	0.000059	0.00017	0.0013	0.74	0.000083	0.000012	1.0	0.023	0.000011	0.00011	0.000063	0.00057	0.0013
		January	2033	0.018	0.000088	0.0012	1.1	0.0073	0.000059	0.00017	0.0013	0.74	0.000083	0.000012	1.0	0.023	0.000011	0.00011	0.000063	0.00057	0.0013
		February		0.018	0.000088	0.0012	1.1	0.0073	0.000059	0.00017	0.0013	0.74	0.000083	0.000012	1.0	0.023	0.000011	0.00011	0.000063	0.00057	0.0013
		March		0.018	0.000088	0.0012	1.1	0.0073	0.000059	0.00017	0.0013	0.74	0.000083	0.000012	1.0	0.023	0.000011	0.00011	0.000063	0.00057	0.0013
		April		0.018	0.000088	0.0012	1.1	0.0073	0.000059	0.00017	0.0013	0.74	0.000083	0.000012	1.0	0.023	0.000011	0.00011	0.000063	0.00057	0.0013
		May		0.018	0.000088	0.0012	1.1	0.0073	0.000059	0.00017	0.0013	0.74	0.000083	0.000012	1.0	0.023	0.000011	0.00011	0.000063	0.00057	0.0013
		June		0.018	0.000087	0.0012	1.0	0.0071	0.000059	0.00016	0.0013	0.74	0.000082	0.000012	1.0	0.023	0.000011	0.00011	0.000062	0.00057	0.0013
		July		0.017	0.000086	0.0012	1.1	0.0064	0.000059	0.00015	0.0012	0.73	0.00008	0.000012	0.98	0.023	0.000011	0.00011	0.000058	0.00057	0.0013
		August		0.017	0.000086	0.0012	1.1	0.0056	0.00006	0.00014	0.0012	0.73	0.000077	0.000012	0.94	0.023	0.000011	0.00011	0.000052	0.00058	0.0013
		September		0.017	0.000086																

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025		1.5	0.00004		0.001		0.002		
LOCATION	Time Period	Month	Year	TDS mg/L	Acidity mg/L	Alkalinity mg/L	Cl mg/L	F mg/L	SO4 mg/L	NH3 (as N) mg N/L	NO3 mg N/L	P _{total} ³ mg/L	Al ⁴ mg/L	Sb mg/L	As ⁷ mg/L	Ba mg/L	Be mg/L	Bi mg/L	B mg/L	Cd ⁶ mg/L	Ca mg/L	Cr ⁵ mg/L	Co mg/L	Cu ⁶ mg/L
Mammoth Outlet	Closure, no mine contact water discharge	January	2036	18	0.11	6.0	5.0	0.03	2.7	0.027	0.19	0.0032	0.0036	0.00015	0.0017	0.0066	0.000022	0.000053	0.014	0.0000057	3.6	0.00015	0.00013	0.00049
		February		18	0.11	6.0	5.0	0.03	2.7	0.027	0.19	0.0032	0.0036	0.00015	0.0017	0.0066	0.000022	0.000053	0.014	0.0000057	3.6	0.00015	0.00013	0.00049
		March		18	0.11	6.0	5.0	0.03	2.7	0.027	0.19	0.0032	0.0036	0.00015	0.0017	0.0066	0.000022	0.000053	0.014	0.0000057	3.6	0.00015	0.00013	0.00049
		April		18	0.11	6.0	5.0	0.03	2.7	0.027	0.19	0.0032	0.0036	0.00015	0.0017	0.0066	0.000022	0.000053	0.014	0.0000057	3.6	0.00015	0.00013	0.00049
		May		18	0.11	6.0	5.0	0.03	2.7	0.027	0.19	0.0032	0.0036	0.00015	0.0017	0.0066	0.000022	0.000053	0.014	0.0000057	3.6	0.00015	0.00013	0.00049
		June		18	0.11	5.9	4.9	0.03	2.7	0.026	0.19	0.0032	0.0036	0.00015	0.0017	0.0065	0.000021	0.000053	0.014	0.0000056	3.5	0.00014	0.00013	0.00049
		July		18	0.096	6.0	4.9	0.03	2.7	0.024	0.17	0.0031	0.0037	0.00015	0.0015	0.0066	0.000022	0.000054	0.014	0.0000057	3.6	0.00014	0.00013	0.00049
		August		18	0.081	6.1	5.0	0.03	2.7	0.022	0.14	0.003	0.0038	0.00014	0.0014	0.0067	0.000022	0.000055	0.014	0.0000058	3.6	0.00014	0.00013	0.00049
		September		18	0.089	6.0	4.9	0.03	2.7	0.023	0.16	0.0031	0.0037	0.00015	0.0015	0.0066	0.000022	0.000054	0.014	0.0000057	3.6	0.00014	0.00013	0.00048
		October		18	0.094	5.9	4.9	0.03	2.7	0.024	0.17	0.0031	0.0036	0.00015	0.0015	0.0065	0.000022	0.000053	0.014	0.0000056	3.5	0.00014	0.00013	0.00048
		November		18	0.094	5.9	4.9	0.03	2.7	0.024	0.17	0.0031	0.0036	0.00015	0.0015	0.0065	0.000022	0.000053	0.014	0.0000056	3.5	0.00014	0.00013	0.00048
		December		18	0.094	5.9	4.9	0.03	2.7	0.024	0.17	0.0031	0.0036	0.00015	0.0015	0.0065	0.000022	0.000053	0.014	0.0000056	3.5	0.00014	0.00013	0.00048
		January	2037	18	0.094	5.9	4.9	0.03	2.7	0.024	0.17	0.0031	0.0036	0.00015	0.0015	0.0065	0.000022	0.000053	0.014	0.0000056	3.5	0.00014	0.00013	0.00048
		February		18	0.094	5.9	4.9	0.03	2.7	0.024	0.17	0.0031	0.0036	0.00015	0.0015	0.0065	0.000022	0.000053	0.014	0.0000056	3.5	0.00014	0.00013	0.00048
		March		18	0.094	5.9	4.9	0.03	2.7	0.024	0.17	0.0031	0.0036	0.00015	0.0015	0.0065	0.000022	0.000053	0.014	0.0000056	3.5	0.00014	0.00013	0.00048
		April		18	0.094	5.9	4.9	0.03	2.7	0.024	0.17	0.0031	0.0036	0.00015	0.0015	0.0065	0.000022	0.000053	0.014	0.0000056	3.5	0.00014	0.00013	0.00048
		May		18	0.094	5.9	4.9	0.03	2.7	0.024	0.17	0.0031	0.0036	0.00015	0.0015	0.0065	0.000022	0.000053	0.014	0.0000056	3.5	0.00014	0.00013	0.00048
		June		18	0.092	5.9	4.8	0.029	2.6	0.023	0.16	0.003	0.0036	0.00014	0.0015	0.0065	0.000021	0.000053	0.014	0.0000056	3.5	0.00014	0.00013	0.00048
		July		18	0.082	5.9	4.9	0.03	2.7	0.022	0.14	0.003	0.0037	0.00014	0.0014	0.0065	0.000022	0.000054	0.013	0.0000056	3.5	0.00014	0.00013	0.00048
		August		18	0.069	6.0	4.9	0.03	2.7	0.019	0.12	0.0029	0.0038	0.00014	0.0012	0.0067	0.000022	0.000055	0.013	0.0000057	3.6	0.00013	0.00013	0.00048
		September		18	0.076	5.9	4.9	0.03	2.7	0.021	0.13	0.003	0.0037	0.00014	0.0013	0.0066	0.000022	0.000054	0.013	0.0000057	3.5	0.00013	0.00013	0.00048
		October		18	0.08	5.9	4.8	0.029	2.6	0.021	0.14	0.003	0.0036	0.00014	0.0013	0.0065	0.000022	0.000053	0.013	0.0000056	3.5	0.00013	0.00012	0.00047
		November		18	0.08	5.9	4.8	0.029	2.6	0.021	0.14	0.003	0.0036	0.00014	0.0013	0.0065	0.000022	0.000053	0.013	0.0000056	3.5	0.00013	0.00012	0.00047
		December		18	0.08	5.9	4.8	0.029	2.6	0.021	0.14	0.003	0.0036	0.00014	0.0013	0.0065	0.000022	0.000053	0.013	0.0000056	3.5	0.00013	0.00012	0.00047
		January	2038	18	0.08	5.9	4.8	0.029	2.6	0.021	0.14	0.003	0.0036	0.00014	0.0013	0.0065	0.000022	0.000053	0.013	0.0000056	3.5	0.00013	0.00012	0.00047
		February		18	0.08	5.9	4.8	0.029	2.6	0.021	0.14	0.003	0.0036	0.00014	0.0013	0.0065	0.000022	0.000053	0.013	0.0000056	3.5	0.00013	0.00012	0.00047
		March		18	0.08	5.9	4.8	0.029	2.6	0.021	0.14	0.003	0.0036	0.00014	0.0013	0.0065	0.000022	0.000053	0.013	0.0000056	3.5	0.00013	0.00012	0.00047
		April		18	0.08	5.9	4.8	0.029	2.6	0.021	0.14	0.003	0.0036	0.00014	0.0013	0.0065	0.000022	0.000053	0.013	0.0000056	3.5	0.00013	0.00012	0.00047
		May		18	0.08	5.9	4.8	0.029	2.6	0.021	0.14	0.003	0.0036	0.00014	0.0013	0.0065	0.000022	0.000053	0.013	0.0000056	3.5	0.00013	0.00012	0.00047
		June		18	0.078	5.8	4.8	0.029	2.6	0.021	0.14	0.0029	0.0036	0.00014	0.0013	0.0065	0.000021	0.000053	0.013	0.0000056	3.5	0.00013	0.00012	0.00047
		July		18	0.069	5.9	4.8	0.029	2.6	0.019	0.12	0.0029	0.0036	0.00014	0.0012	0.0065	0.000022	0.000054	0.013	0.0000056	3.5	0.00013	0.00012	0.00047
		August		18	0.058	6.0	4.9	0.03	2.7	0.018	0.1	0.0029	0.0037	0.00014	0.0011	0.0067	0.000022	0.000055	0.013	0.0000057	3.6	0.00013	0.00012	0.00048
		September		18	0.065	5.9	4.8	0.029	2.6	0.019	0.12	0.0029	0.0037	0.00014	0.0012	0.0066	0.000022	0.000054	0.013	0.0000056	3.5	0.00013	0.00012	0.00047
		October		17	0.068	5.8	4.8	0.029	2.6	0.019	0.12	0.0029	0.0036	0.00014	0.0012	0.0065	0.000022	0.000053	0.013	0.0000056	3.5	0.00013	0.00012	0.00047
		November		17	0.068	5.8	4.8	0.029	2.6	0.019	0.12	0.0029	0.0036	0.00014	0.0012	0.0065	0.000022	0.000053	0.013	0.0000056	3.5	0.00013	0.00012	0.00047
		December		17	0.068	5.8	4.8	0.029	2.6	0.019	0.12	0.0029	0.0036	0.00014	0.0012	0.0065	0.000022	0.000053	0.013	0.0000056	3.5	0.00013	0.00012	0.00047
		January	2039	17	0.068	5.8	4.8	0.029	2.6	0.019	0.12	0.0029	0.0036	0.00014	0.0012	0.0065	0.000022	0.000053	0.013	0.0000056	3.5	0.00013	0.00012	0.00047
		February		17	0.068	5.8	4.8	0.029	2.6	0.019	0.12	0.0029	0.0036	0.00014	0.0012	0.0065	0.000022	0.000053	0.013	0.0000056	3.5	0.00013	0.00012	0.00047
		March		17	0.068	5.8	4.8	0.029	2.6	0.019	0.12	0.0029	0.0036	0.00014										

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05				0.004	0.25									0.1		
CEQG aquatic life (long-term) ² (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.007	
Constituent				Fe	Pb ⁶	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Mammoth Outlet	Closure, no mine contact water discharge	January	2036	0.015	0.000081	0.0012	1.0	0.0049	0.0000058	0.00012	0.0011	0.7	0.000072	0.000011	0.88	0.022	0.000011	0.00011	0.000047	0.00056	0.0012
		February		0.015	0.000081	0.0012	1.0	0.0049	0.0000058	0.00012	0.0011	0.7	0.000072	0.000011	0.88	0.022	0.000011	0.00011	0.000047	0.00056	0.0012
		March		0.015	0.000081	0.0012	1.0	0.0049	0.0000058	0.00012	0.0011	0.7	0.000072	0.000011	0.88	0.022	0.000011	0.00011	0.000047	0.00056	0.0012
		April		0.015	0.000081	0.0012	1.0	0.0049	0.0000058	0.00012	0.0011	0.7	0.000072	0.000011	0.88	0.022	0.000011	0.00011	0.000047	0.00056	0.0012
		May		0.015	0.000081	0.0012	1.0	0.0049	0.0000058	0.00012	0.0011	0.7	0.000072	0.000011	0.88	0.022	0.000011	0.00011	0.000047	0.00056	0.0012
		June		0.015	0.000081	0.0012	1.0	0.0048	0.0000057	0.00012	0.0011	0.69	0.000071	0.000011	0.87	0.022	0.000011	0.00011	0.000046	0.00055	0.0012
		July		0.015	0.00008	0.0012	1.0	0.0044	0.0000058	0.00011	0.0011	0.7	0.00007	0.000011	0.85	0.022	0.000011	0.00011	0.000044	0.00056	0.0012
		August		0.015	0.000081	0.0012	1.1	0.0039	0.0000059	0.00011	0.001	0.7	0.000069	0.000012	0.84	0.023	0.000011	0.00011	0.000041	0.00057	0.0012
		September		0.015	0.00008	0.0012	1.0	0.0042	0.0000058	0.00011	0.001	0.7	0.000069	0.000011	0.84	0.022	0.000011	0.00011	0.000042	0.00056	0.0012
		October		0.015	0.00008	0.0012	1.0	0.0044	0.0000057	0.00011	0.0011	0.69	0.000069	0.000011	0.84	0.022	0.000011	0.00011	0.000043	0.00056	0.0012
		November		0.015	0.00008	0.0012	1.0	0.0044	0.0000057	0.00011	0.0011	0.69	0.000069	0.000011	0.84	0.022	0.000011	0.00011	0.000043	0.00056	0.0012
		December		0.015	0.00008	0.0012	1.0	0.0044	0.0000057	0.00011	0.0011	0.69	0.000069	0.000011	0.84	0.022	0.000011	0.00011	0.000043	0.00056	0.0012
		January	2037	0.015	0.00008	0.0012	1.0	0.0044	0.0000057	0.00011	0.0011	0.69	0.000069	0.000011	0.84	0.022	0.000011	0.00011	0.000043	0.00056	0.0012
		February		0.015	0.00008	0.0012	1.0	0.0044	0.0000057	0.00011	0.0011	0.69	0.000069	0.000011	0.84	0.022	0.000011	0.00011	0.000043	0.00056	0.0012
		March		0.015	0.00008	0.0012	1.0	0.0044	0.0000057	0.00011	0.0011	0.69	0.000069	0.000011	0.84	0.022	0.000011	0.00011	0.000043	0.00056	0.0012
		April		0.015	0.00008	0.0012	1.0	0.0044	0.0000057	0.00011	0.0011	0.69	0.000069	0.000011	0.84	0.022	0.000011	0.00011	0.000043	0.00056	0.0012
		May		0.015	0.00008	0.0012	1.0	0.0044	0.0000057	0.00011	0.0011	0.69	0.000069	0.000011	0.84	0.022	0.000011	0.00011	0.000043	0.00056	0.0012
		June		0.015	0.000079	0.0012	1.0	0.0043	0.0000057	0.00011	0.001	0.68	0.000068	0.000011	0.83	0.022	0.000011	0.00011	0.000042	0.00055	0.0012
		July		0.014	0.000079	0.0012	1.0	0.0039	0.0000057	0.00011	0.001	0.69	0.000067	0.000011	0.82	0.022	0.000011	0.00011	0.00004	0.00056	0.0012
		August		0.014	0.00008	0.0012	1.1	0.0035	0.0000059	0.000099	0.001	0.7	0.000067	0.000011	0.81	0.023	0.000011	0.00011	0.000038	0.00057	0.0012
		September		0.014	0.000079	0.0012	1.0	0.0038	0.0000058	0.0001	0.001	0.69	0.000067	0.000011	0.81	0.022	0.000011	0.00011	0.000039	0.00056	0.0012
		October		0.014	0.000078	0.0012	1.0	0.0039	0.0000057	0.0001	0.001	0.68	0.000067	0.000011	0.81	0.022	0.000011	0.00011	0.00004	0.00055	0.0012
		November		0.014	0.000078	0.0012	1.0	0.0039	0.0000057	0.0001	0.001	0.68	0.000067	0.000011	0.81	0.022	0.000011	0.00011	0.00004	0.00055	0.0012
		December		0.014	0.000078	0.0012	1.0	0.0039	0.0000057	0.0001	0.001	0.68	0.000067	0.000011	0.81	0.022	0.000011	0.00011	0.00004	0.00055	0.0012
		January	2038	0.014	0.000078	0.0012	1.0	0.0039	0.0000057	0.0001	0.001	0.68	0.000067	0.000011	0.81	0.022	0.000011	0.00011	0.00004	0.00055	0.0012
		February		0.014	0.000078	0.0012	1.0	0.0039	0.0000057	0.0001	0.001	0.68	0.000067	0.000011	0.81	0.022	0.000011	0.00011	0.00004	0.00055	0.0012
		March		0.014	0.000078	0.0012	1.0	0.0039	0.0000057	0.0001	0.001	0.68	0.000067	0.000011	0.81	0.022	0.000011	0.00011	0.00004	0.00055	0.0012
		April		0.014	0.000078	0.0012	1.0	0.0039	0.0000057	0.0001	0.001	0.68	0.000067	0.000011	0.81	0.022	0.000011	0.00011	0.00004	0.00055	0.0012
		May		0.014	0.000078	0.0012	1.0	0.0039	0.0000057	0.0001	0.001	0.68	0.000067	0.000011	0.81	0.022	0.000011	0.00011	0.00004	0.00055	0.0012
		June		0.014	0.000078	0.0012	1.0	0.0038	0.0000056	0.0001	0.001	0.68	0.000066	0.000011	0.8	0.022	0.000011	0.00011	0.000039	0.00055	0.0012
		July		0.014	0.000078	0.0012	1.0	0.0035	0.0000057	0.000098	0.00099	0.68	0.000065	0.000011	0.79	0.022	0.000011	0.00011	0.000038	0.00055	0.0012
		August		0.014	0.000079	0.0012	1.1	0.0032	0.0000058	0.000093	0.00098	0.69	0.000065	0.000011	0.79	0.022	0.000011	0.00011	0.000036	0.00057	0.0012
		September		0.014	0.000078	0.0012	1.0	0.0034	0.0000057	0.000096	0.00098	0.68	0.000065	0.000011	0.79	0.022	0.000011	0.00011	0.000037	0.00056	0.0012
		October		0.014	0.000077	0.0012	1.0	0.0035	0.0000057	0.000097	0.00098	0.67	0.000065	0.000011	0.79	0.022	0.000011	0.00011	0.000037	0.00055	0.0012
		November		0.014	0.000077	0.0012	1.0	0.0035	0.0000057	0.000097	0.00098	0.67	0.000065	0.000011	0.79	0.022	0.000011	0.00011	0.000037	0.00055	0.0012
		December		0.014	0.000077	0.0012	1.0	0.0035	0.0000057	0.000097	0.00098	0.67	0.000065	0.000011	0.79	0.022	0.000011	0.00011	0.000037	0.00055	0.0012
		January	2039	0.014	0.000077	0.0012	1.0	0.0035	0.0000057	0.000097	0.00098	0.67	0.000065	0.000011	0.79	0.022	0.000011	0.00011	0.000037	0.00055	0.0012
		February		0.014	0.000077	0.0012	1.0	0.0035	0.0000057	0.000097	0.00098	0.67	0.000065	0.000011	0.79	0.022	0.000011	0.00011	0.000037	0.00055	0.0012
		March		0.014	0.000077	0.0012	1.0	0.0035	0.0000057	0.000097	0.00098	0.67	0.000065	0.000011	0.79	0.022	0.000011	0.00011	0.000037	0.00055	0.0012
		April		0.014	0.000077	0.0012	1.0	0.0035	0.0000057	0.000097	0.00098	0.67	0.000065	0.000011	0.79	0.022	0.000011	0.00011	0.000037	0.00055	0.0012
		May		0.014	0.000077	0.0012	1.0	0.0035	0.0000057	0.000097	0.00098	0.67	0.000065	0.000011	0.79	0.022	0.000011	0.00011	0.000037	0.00055	0.0012
		June		0.013	0.000077	0.0012	1.0	0.0034	0.0000056	0.000096	0.00097	0.67	0.000064	0.000011	0.78	0.022	0.000011	0.00011	0.000037	0.00055	0.0012
		July		0.013	0.000077	0.0012	1.0	0.0032	0.0000057	0.000092	0.00096	0.67	0.000064	0.000011	0.77	0.022	0.000011	0.00011	0.000035	0.00055	0.0012
		August		0.013	0.000078	0.0012	1.1	0.0029	0.0000058	0.000087	0.00096	0.68	0.000064	0.000011	0.						

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	
CEQG aquatic life (long-term) ² (mg/L)							120	0.12				2.93	0.01	0.1		0.025			1.5	0.00004		0.001		0.002	
LOCATION	Time Period	Month	Year	Constituent	TDS mg/L	Acidity mg/L	Alkalinity mg/L	Cl mg/L	F mg/L	SO4 mg/L	NH3 (as N) mg N/L	NO3 mg N/L	P _{total} ³ mg/L	Al ⁴ mg/L	Sb mg/L	As ⁷ mg/L	Ba mg/L	Be mg/L	Bi mg/L	B mg/L	Cd ⁶ mg/L	Ca mg/L	Cr ⁵ mg/L	Co mg/L	Cu ⁸ mg/L
Mammoth Outlet	Closure, controlled discharge from pit lake	January	2042	17	0.042	5.7	4.6	0.029	2.5	0.014	0.077	0.0026	0.0036	0.00012	0.00088	0.0064	0.000021	0.000053	0.012	0.0000055	3.4	0.00012	0.00012	0.00045	
		February		17	0.042	5.7	4.6	0.029	2.5	0.014	0.077	0.0026	0.0036	0.00012	0.00088	0.0064	0.000021	0.000053	0.012	0.0000055	3.4	0.00012	0.00012	0.00045	
		March		17	0.042	5.7	4.6	0.029	2.5	0.014	0.077	0.0026	0.0036	0.00012	0.00088	0.0064	0.000021	0.000053	0.012	0.0000055	3.4	0.00012	0.00012	0.00045	
		April		17	0.042	5.7	4.6	0.029	2.5	0.014	0.077	0.0026	0.0036	0.00012	0.00088	0.0064	0.000021	0.000053	0.012	0.0000055	3.4	0.00012	0.00012	0.00045	
		May		17	0.042	5.7	4.6	0.029	2.5	0.014	0.077	0.0026	0.0036	0.00012	0.00088	0.0064	0.000021	0.000053	0.012	0.0000055	3.4	0.00012	0.00012	0.00045	
		June		17	0.041	5.7	4.6	0.028	2.5	0.014	0.075	0.0026	0.0036	0.00012	0.00086	0.0064	0.000021	0.000053	0.012	0.0000054	3.4	0.00012	0.00012	0.00045	
		July		17	0.036	5.7	4.7	0.029	2.6	0.013	0.067	0.0026	0.0036	0.00012	0.00081	0.0065	0.000022	0.000054	0.012	0.0000055	3.4	0.00012	0.00012	0.00045	
		August		17	0.031	5.9	4.7	0.029	2.6	0.013	0.057	0.0026	0.0037	0.00012	0.00076	0.0066	0.000022	0.000055	0.012	0.0000056	3.5	0.00012	0.00012	0.00046	
		September		17	0.069	5.9	4.8	0.03	2.7	0.017	0.094	0.0029	0.0036	0.00014	0.0015	0.0066	0.000022	0.000055	0.013	0.0000057	3.5	0.00013	0.00013	0.00048	
		October		18	0.12	6.0	4.8	0.032	2.7	0.02	0.12	0.0031	0.0034	0.00016	0.0026	0.0066	0.000022	0.000054	0.014	0.0000058	3.5	0.00014	0.00013	0.0005	
		November		18	0.12	6.0	4.8	0.032	2.7	0.02	0.12	0.0031	0.0034	0.00016	0.0026	0.0066	0.000022	0.000054	0.014	0.0000058	3.5	0.00014	0.00013	0.0005	
		December		18	0.12	6.0	4.8	0.032	2.7	0.02	0.12	0.0031	0.0034	0.00016	0.0026	0.0066	0.000022	0.000054	0.014	0.0000058	3.5	0.00014	0.00013	0.0005	
		January	2043	18	0.12	6.0	4.8	0.032	2.7	0.02	0.12	0.0031	0.0034	0.00016	0.0026	0.0066	0.000022	0.000054	0.014	0.0000058	3.5	0.00014	0.00013	0.0005	
		February		18	0.12	6.0	4.8	0.032	2.7	0.02	0.12	0.0031	0.0034	0.00016	0.0026	0.0066	0.000022	0.000054	0.014	0.0000058	3.5	0.00014	0.00013	0.0005	
		March		18	0.12	6.0	4.8	0.032	2.7	0.02	0.12	0.0031	0.0034	0.00016	0.0026	0.0066	0.000022	0.000054	0.014	0.0000058	3.5	0.00014	0.00013	0.0005	
		April		18	0.12	6.0	4.8	0.032	2.7	0.02	0.12	0.0031	0.0034	0.00016	0.0026	0.0066	0.000022	0.000054	0.014	0.0000058	3.5	0.00014	0.00013	0.0005	
		May		18	0.12	6.0	4.8	0.032	2.7	0.02	0.12	0.0031	0.0034	0.00016	0.0026	0.0066	0.000022	0.000054	0.014	0.0000058	3.5	0.00014	0.00013	0.0005	
		June		18	0.23	6.3	4.6	0.035	2.9	0.026	0.17	0.0038	0.0028	0.0002	0.0056	0.0066	0.000022	0.000053	0.015	0.000006	3.5	0.00016	0.00016	0.00055	
		July		19	0.3	6.5	4.6	0.038	3.0	0.03	0.21	0.0042	0.0024	0.00024	0.0077	0.0067	0.000022	0.000052	0.016	0.0000062	3.5	0.00018	0.00018	0.00059	
		August		19	0.3	6.5	4.7	0.038	3.1	0.029	0.2	0.0042	0.0025	0.00023	0.0074	0.0068	0.000022	0.000053	0.016	0.0000063	3.5	0.00018	0.00018	0.00059	
		September		19	0.36	6.6	4.6	0.04	3.1	0.033	0.22	0.0044	0.0023	0.00026	0.0087	0.0068	0.000022	0.000052	0.017	0.0000064	3.5	0.00019	0.00019	0.00061	
		October		19	0.38	6.6	4.6	0.04	3.2	0.034	0.23	0.0045	0.0021	0.00026	0.0092	0.0067	0.000022	0.000052	0.017	0.0000064	3.5	0.00019	0.00019	0.00061	
		November		19	0.38	6.6	4.6	0.04	3.2	0.034	0.23	0.0045	0.0021	0.00026	0.0092	0.0067	0.000022	0.000052	0.017	0.0000064	3.5	0.00019	0.00019	0.00061	
		December		19	0.38	6.6	4.6	0.04	3.2	0.034	0.23	0.0045	0.0021	0.00026	0.0092	0.0067	0.000022	0.000052	0.017	0.0000064	3.5	0.00019	0.00019	0.00061	
		January	2044	19	0.38	6.6	4.6	0.04	3.2	0.034	0.23	0.0045	0.0021	0.00026	0.0092	0.0067	0.000022	0.000052	0.017	0.0000064	3.5	0.00019	0.00019	0.00061	
		February		19	0.38	6.6	4.6	0.04	3.2	0.034	0.23	0.0045	0.0021	0.00026	0.0092	0.0067	0.000022	0.000052	0.017	0.0000064	3.5	0.00019	0.00019	0.00061	
		March		19	0.38	6.6	4.6	0.04	3.2	0.034	0.23	0.0045	0.0021	0.00026	0.0092	0.0067	0.000022	0.000052	0.017	0.0000064	3.5	0.00019	0.00019	0.00061	
		April		19	0.38	6.6	4.6	0.04	3.2	0.034	0.23	0.0045	0.0021	0.00026	0.0092	0.0067	0.000022	0.000052	0.017	0.0000064	3.5	0.00019	0.00019	0.00061	
		May		19	0.38	6.6	4.6	0.04	3.2	0.034	0.23	0.0045	0.0021	0.00026	0.0092	0.0067	0.000022	0.000052	0.017	0.0000064	3.5	0.00019	0.00019	0.00061	
		June		19	0.42	6.6	4.5	0.041	3.2	0.036	0.25	0.0048	0.0018	0.00028	0.01	0.0067	0.000022	0.00005	0.017	0.0000064	3.4	0.0002	0.0002	0.00063	
		July		19	0.43	6.7	4.5	0.042	3.2	0.036	0.25	0.0048	0.0018	0.00028	0.011	0.0067	0.000022	0.000051	0.018	0.0000065	3.4	0.0002	0.0002	0.00064	
		August		20	0.41	6.8	4.6	0.042	3.2	0.035	0.24	0.0047	0.0019	0.00028	0.01	0.0068	0.000022	0.000052	0.017	0.0000065	3.5	0.0002	0.0002	0.00064	
		September		20	0.47	6.8	4.5	0.043	3.3	0.038	0.27	0.005	0.0017	0.0003	0.011	0.0067	0.000022	0.000051	0.018	0.0000066	3.4	0.00021	0.00021	0.00065	
		October		20	0.48	6.8	4.4	0.043	3.3	0.038	0.27	0.005	0.0016	0.0003	0.012	0.0067	0.000022	0.00005	0.018	0.0000066	3.4	0.00021	0.00021	0.00065	
		November		20	0.48	6.8	4.4	0.043	3.3	0.038	0.27	0.005	0.0016	0.0003	0.012	0.0067	0.000022	0.00005	0.018	0.0000066	3.4	0.00021	0.00021	0.00065	
		December		20	0.48	6.8	4.4	0.043	3.3	0.038	0.27	0.005	0.0016	0.0003	0.012	0.0067	0.000022	0.00005	0.018	0.0000066	3.4	0.00021	0.00021	0.00065	
		January	2045	20	0.48	6.8	4.4	0.043	3.3	0.038	0.27	0.005	0.0016	0.0003	0.012	0.0067	0.000022	0.00005	0.018	0.0000066	3.4	0.00021	0.00021	0.00065	
		February		20	0.48	6.8	4.4	0.043	3.3	0.038	0.27	0.005	0.0016	0.0003	0.012	0.0067	0.000022	0.00005	0.018	0.0000066	3.4	0.00021	0.00021	0.00065	
		March		20	0.48	6.8	4.4	0.043	3.3	0.038	0.27	0.005	0.0016	0.0003	0.012	0.006									

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05				0.004		0.25									0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.007	
Constituent				Fe	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Mammoth Outlet	Closure, controlled discharge from pit lake	January	2042	0.013	0.000075	0.0012	1.0	0.0026	0.0000056	0.000081	0.00091	0.66	0.00006	0.000011	0.73	0.022	0.000011	0.00011	0.000031	0.00054	0.0011
		February		0.013	0.000075	0.0012	1.0	0.0026	0.0000056	0.000081	0.00091	0.66	0.00006	0.000011	0.73	0.022	0.000011	0.00011	0.000031	0.00054	0.0011
		March		0.013	0.000075	0.0012	1.0	0.0026	0.0000056	0.000081	0.00091	0.66	0.00006	0.000011	0.73	0.022	0.000011	0.00011	0.000031	0.00054	0.0011
		April		0.013	0.000075	0.0012	1.0	0.0026	0.0000056	0.000081	0.00091	0.66	0.00006	0.000011	0.73	0.022	0.000011	0.00011	0.000031	0.00054	0.0011
		May		0.013	0.000075	0.0012	1.0	0.0026	0.0000056	0.000081	0.00091	0.66	0.00006	0.000011	0.73	0.022	0.000011	0.00011	0.000031	0.00054	0.0011
		June		0.012	0.000074	0.0012	1.0	0.0026	0.0000056	0.00008	0.0009	0.65	0.00006	0.000011	0.72	0.021	0.000011	0.00011	0.000031	0.00054	0.0011
		July		0.012	0.000074	0.0012	1.0	0.0024	0.0000056	0.000078	0.0009	0.66	0.00006	0.000011	0.72	0.022	0.000011	0.00011	0.00003	0.00055	0.0011
		August		0.012	0.000076	0.0012	1.0	0.0023	0.0000058	0.000075	0.0009	0.67	0.00006	0.000011	0.73	0.022	0.000011	0.00011	0.000029	0.00056	0.0012
		September		0.014	0.000078	0.0012	1.0	0.0037	0.0000058	0.0001	0.00099	0.69	0.000065	0.000011	0.78	0.022	0.000011	0.00011	0.000041	0.00057	0.0012
		October		0.016	0.000081	0.0012	1.0	0.0056	0.000006	0.00013	0.0011	0.72	0.00007	0.000011	0.84	0.022	0.000011	0.00011	0.000057	0.00058	0.0012
		November		0.016	0.000081	0.0012	1.0	0.0056	0.000006	0.00013	0.0011	0.72	0.00007	0.000011	0.84	0.022	0.000011	0.00011	0.000057	0.00058	0.0012
		December		0.016	0.000081	0.0012	1.0	0.0056	0.000006	0.00013	0.0011	0.72	0.00007	0.000011	0.84	0.022	0.000011	0.00011	0.000057	0.00058	0.0012
		January	2043	0.016	0.000081	0.0012	1.0	0.0056	0.000006	0.00013	0.0011	0.72	0.00007	0.000011	0.84	0.022	0.000011	0.00011	0.000057	0.00058	0.0012
		February		0.016	0.000081	0.0012	1.0	0.0056	0.000006	0.00013	0.0011	0.72	0.00007	0.000011	0.84	0.022	0.000011	0.00011	0.000057	0.00058	0.0012
		March		0.016	0.000081	0.0012	1.0	0.0056	0.000006	0.00013	0.0011	0.72	0.00007	0.000011	0.84	0.022	0.000011	0.00011	0.000057	0.00058	0.0012
		April		0.016	0.000081	0.0012	1.0	0.0056	0.000006	0.00013	0.0011	0.72	0.00007	0.000011	0.84	0.022	0.000011	0.00011	0.000057	0.00058	0.0012
		May		0.016	0.000081	0.0012	1.0	0.0056	0.000006	0.00013	0.0011	0.72	0.00007	0.000011	0.84	0.022	0.000011	0.00011	0.000057	0.00058	0.0012
		June		0.021	0.000088	0.0012	1.0	0.01	0.0000063	0.00022	0.0013	0.79	0.000081	0.000011	0.97	0.022	0.000011	0.00011	0.000098	0.0006	0.0013
		July		0.025	0.000093	0.0013	1.0	0.014	0.0000066	0.00027	0.0015	0.85	0.000089	0.000012	1.1	0.022	0.000011	0.00012	0.00013	0.00062	0.0014
		August		0.025	0.000094	0.0013	1.0	0.013	0.0000067	0.00027	0.0015	0.86	0.000089	0.000012	1.1	0.022	0.000012	0.00012	0.00012	0.00063	0.0014
		September		0.027	0.000096	0.0013	1.0	0.015	0.0000068	0.00031	0.0015	0.89	0.000094	0.000012	1.1	0.022	0.000011	0.00012	0.00015	0.00064	0.0015
		October		0.028	0.000097	0.0013	1.0	0.016	0.0000068	0.00033	0.0016	0.9	0.000096	0.000012	1.1	0.022	0.000011	0.00012	0.00015	0.00064	0.0015
		November		0.028	0.000097	0.0013	1.0	0.016	0.0000068	0.00033	0.0016	0.9	0.000096	0.000012	1.1	0.022	0.000011	0.00012	0.00015	0.00064	0.0015
		December		0.028	0.000097	0.0013	1.0	0.016	0.0000068	0.00033	0.0016	0.9	0.000096	0.000012	1.1	0.022	0.000011	0.00012	0.00015	0.00064	0.0015
		January	2044	0.028	0.000097	0.0013	1.0	0.016	0.0000068	0.00033	0.0016	0.9	0.000096	0.000012	1.1	0.022	0.000011	0.00012	0.00015	0.00064	0.0015
		February		0.028	0.000097	0.0013	1.0	0.016	0.0000068	0.00033	0.0016	0.9	0.000096	0.000012	1.1	0.022	0.000011	0.00012	0.00015	0.00064	0.0015
		March		0.028	0.000097	0.0013	1.0	0.016	0.0000068	0.00033	0.0016	0.9	0.000096	0.000012	1.1	0.022	0.000011	0.00012	0.00015	0.00064	0.0015
		April		0.028	0.000097	0.0013	1.0	0.016	0.0000068	0.00033	0.0016	0.9	0.000096	0.000012	1.1	0.022	0.000011	0.00012	0.00015	0.00064	0.0015
		May		0.028	0.000097	0.0013	1.0	0.016	0.0000068	0.00033	0.0016	0.9	0.000096	0.000012	1.1	0.022	0.000011	0.00012	0.00015	0.00064	0.0015
		June		0.03	0.000099	0.0013	0.98	0.018	0.0000069	0.00036	0.0017	0.92	0.0001	0.000012	1.2	0.021	0.000011	0.00012	0.00017	0.00064	0.0015
		July		0.03	0.00010	0.0013	0.99	0.018	0.000007	0.00036	0.0017	0.93	0.0001	0.000012	1.2	0.021	0.000011	0.00012	0.00017	0.00065	0.0015
		August		0.03	0.00010	0.0013	1.0	0.018	0.000007	0.00035	0.0017	0.93	0.0001	0.000012	1.2	0.022	0.000012	0.00012	0.00017	0.00065	0.0015
		September		0.031	0.0001	0.0013	0.99	0.019	0.0000072	0.0004	0.0017	0.96	0.0001	0.000012	1.2	0.021	0.000012	0.00012	0.00019	0.00066	0.0016
		October		0.032	0.0001	0.0013	0.98	0.02	0.0000072	0.0004	0.0017	0.96	0.00011	0.000012	1.2	0.021	0.000011	0.00012	0.00019	0.00066	0.0016
		November		0.032	0.0001	0.0013	0.98	0.02	0.0000072	0.0004	0.0017	0.96	0.00011	0.000012	1.2	0.021	0.000011	0.00012	0.00019	0.00066	0.0016
		December		0.032	0.0001	0.0013	0.98	0.02	0.0000072	0.0004	0.0017	0.96	0.00011	0.000012	1.2	0.021	0.000011	0.00012	0.00019	0.00066	0.0016
		January	2045	0.032	0.0001	0.0013	0.98	0.02	0.0000072	0.0004	0.0017	0.96	0.00011	0.000012	1.2	0.021	0.000011	0.00012	0.00019	0.00066	0.0016
		February		0.032	0.0001	0.0013	0.98	0.02	0.0000072	0.0004	0.0017	0.96	0.00011	0.000012	1.2	0.021	0.000011	0.00012	0.00019	0.00066	0.0016
		March		0.032	0.0001	0.0013	0.98	0.02	0.0000072	0.0004	0.0017	0.96	0.00011	0.000012	1.2	0.021	0.000011	0.00012	0.00019	0.00066	0.0016
		April		0.032	0.0001	0.0013	0.98	0.02	0.0000072	0.0004	0.0017	0.96	0.00011	0.000012	1.2	0.021	0.000011	0.00012	0.00019	0.00066	0.0016
		May		0.032	0.0001	0.0013	0.98	0.02	0.0000072	0.0004	0.0017	0.96	0.00011	0.000012	1.2	0.021	0.000011	0.00012	0.00019	0.00066	0.0016
		June		0.033	0.0001	0.0013	0.96	0.02	0.0000071	0.00041	0.0018	0.96	0.00011	0.000012	1.2	0.021	0.000011	0.00012	0.0002	0.00066	0.0016
		July		0.032	0.0001	0.0013	0.97	0.02	0.0000071	0.00039	0.0017	0.95	0.0001	0.000012	1.2	0.021	0.000011	0.00012	0.00019	0.00066	0.0016
		August		0.031	0.0001	0.0013	0.99	0.019	0.0000071	0.00038	0.0017	0.95	0.0001	0.000012	1.2	0.021	0.000012	0.00012	0.00018	0.00066	0.0016
		September		0.033	0.0001	0.0013	0.97	0.													

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002
LOCATION	Time Period	Constituent	Year	TDS mg/L	Acidity mg/L	Alkalinity mg/L	Cl mg/L	F mg/L	SO4 mg/L	NH3 (as N) mg N/L	NO3 mg N/L	P _{total} ³ mg/L	Al ⁴ mg/L	Sb mg/L	As ⁷ mg/L	Ba mg/L	Be mg/L	Bi mg/L	B mg/L	Cd ⁵ mg/L	Ca mg/L	Cr ⁵ mg/L	Co mg/L	Cu ⁶ mg/L
Mammoth Outlet	Closure, controlled discharge from pit lake	January	2048	19	0.5	6.7	4.2	0.044	3.2	0.037	0.26	0.0049	0.0012	0.00031	0.012	0.0065	0.000021	0.00005	0.018	0.0000065	3.3	0.00021	0.00021	0.00066
		February		19	0.5	6.7	4.2	0.044	3.2	0.037	0.26	0.0049	0.0012	0.00031	0.012	0.0065	0.000021	0.00005	0.018	0.0000065	3.3	0.00021	0.00021	0.00066
		March		19	0.5	6.7	4.2	0.044	3.2	0.037	0.26	0.0049	0.0012	0.00031	0.012	0.0065	0.000021	0.00005	0.018	0.0000065	3.3	0.00021	0.00021	0.00066
		April		19	0.5	6.7	4.2	0.044	3.2	0.037	0.26	0.0049	0.0012	0.00031	0.012	0.0065	0.000021	0.00005	0.018	0.0000065	3.3	0.00021	0.00021	0.00066
		May		19	0.5	6.7	4.2	0.044	3.2	0.037	0.26	0.0049	0.0012	0.00031	0.012	0.0065	0.000021	0.00005	0.018	0.0000065	3.3	0.00021	0.00021	0.00066
		June		19	0.49	6.6	4.1	0.043	3.1	0.036	0.25	0.0049	0.0011	0.0003	0.012	0.0064	0.000021	0.000049	0.018	0.0000064	3.2	0.00021	0.00021	0.00065
		July		19	0.45	6.6	4.1	0.042	3.1	0.034	0.23	0.0047	0.0013	0.00029	0.011	0.0064	0.000021	0.00005	0.017	0.0000064	3.2	0.0002	0.0002	0.00064
		August		19	0.44	6.6	4.3	0.042	3.1	0.033	0.22	0.0046	0.0015	0.00028	0.01	0.0065	0.000022	0.000051	0.017	0.0000065	3.3	0.0002	0.0002	0.00064
		September		19	0.49	6.6	4.1	0.044	3.1	0.035	0.24	0.0048	0.0012	0.0003	0.011	0.0064	0.000021	0.00005	0.017	0.0000065	3.2	0.0002	0.0002	0.00065
		October		19	0.49	6.6	4.1	0.043	3.1	0.035	0.24	0.0048	0.0012	0.0003	0.011	0.0064	0.000021	0.00005	0.017	0.0000065	3.2	0.0002	0.0002	0.00065
		November		19	0.49	6.6	4.1	0.043	3.1	0.035	0.24	0.0048	0.0012	0.0003	0.011	0.0064	0.000021	0.00005	0.017	0.0000065	3.2	0.0002	0.0002	0.00065
		December		19	0.49	6.6	4.1	0.043	3.1	0.035	0.24	0.0048	0.0012	0.0003	0.011	0.0064	0.000021	0.00005	0.017	0.0000065	3.2	0.0002	0.0002	0.00065
		January	2049	19	0.49	6.6	4.1	0.043	3.1	0.035	0.24	0.0048	0.0012	0.0003	0.011	0.0064	0.000021	0.00005	0.017	0.0000065	3.2	0.0002	0.0002	0.00065
		February		19	0.49	6.6	4.1	0.043	3.1	0.035	0.24	0.0048	0.0012	0.0003	0.011	0.0064	0.000021	0.00005	0.017	0.0000065	3.2	0.0002	0.0002	0.00065
		March		19	0.49	6.6	4.1	0.043	3.1	0.035	0.24	0.0048	0.0012	0.0003	0.011	0.0064	0.000021	0.00005	0.017	0.0000065	3.2	0.0002	0.0002	0.00065
		April		19	0.49	6.6	4.1	0.043	3.1	0.035	0.24	0.0048	0.0012	0.0003	0.011	0.0064	0.000021	0.00005	0.017	0.0000065	3.2	0.0002	0.0002	0.00065
		May		19	0.49	6.6	4.1	0.043	3.1	0.035	0.24	0.0048	0.0012	0.0003	0.011	0.0064	0.000021	0.00005	0.017	0.0000065	3.2	0.0002	0.0002	0.00065
		June		18	0.48	6.5	4.0	0.043	3.1	0.035	0.24	0.0047	0.0011	0.0003	0.011	0.0063	0.000021	0.000049	0.017	0.0000064	3.2	0.0002	0.0002	0.00065
		July		18	0.44	6.5	4.1	0.042	3.0	0.033	0.22	0.0045	0.0013	0.00028	0.01	0.0063	0.000021	0.00005	0.017	0.0000064	3.2	0.00019	0.00019	0.00063
		August		18	0.42	6.6	4.2	0.042	3.1	0.031	0.21	0.0045	0.0015	0.00028	0.0099	0.0065	0.000022	0.000051	0.017	0.0000064	3.3	0.00019	0.00019	0.00063
		September		18	0.47	6.6	4.1	0.043	3.1	0.033	0.23	0.0046	0.0012	0.00029	0.011	0.0064	0.000021	0.00005	0.017	0.0000064	3.2	0.0002	0.0002	0.00064
		October		18	0.47	6.5	4.0	0.043	3.1	0.033	0.23	0.0046	0.0012	0.00029	0.011	0.0063	0.000021	0.00005	0.017	0.0000064	3.2	0.0002	0.0002	0.00064
		November		18	0.47	6.5	4.0	0.043	3.1	0.033	0.23	0.0046	0.0012	0.00029	0.011	0.0063	0.000021	0.00005	0.017	0.0000064	3.2	0.0002	0.0002	0.00064
		December		18	0.47	6.5	4.0	0.043	3.1	0.033	0.23	0.0046	0.0012	0.00029	0.011	0.0063	0.000021	0.00005	0.017	0.0000064	3.2	0.0002	0.0002	0.00064
		January	≥ 2050	25	0.92	8.8	5.0	0.062	4.8	0.036	0.25	0.0091	0.001	0.00047	0.019	0.0092	0.000024	0.000054	0.027	0.0000095	4.0	0.00025	0.00038	0.00086
		February		25	0.92	8.8	5.0	0.062	4.8	0.036	0.25	0.0091	0.001	0.00047	0.019	0.0092	0.000024	0.000054	0.027	0.0000095	4.0	0.00025	0.00038	0.00086
		March		25	0.92	8.8	5.0	0.062	4.8	0.036	0.25	0.0091	0.001	0.00047	0.019	0.0092	0.000024	0.000054	0.027	0.0000095	4.0	0.00025	0.00038	0.00086
		April		25	0.92	8.8	5.0	0.062	4.8	0.036	0.25	0.0091	0.001	0.00047	0.019	0.0092	0.000024	0.000054	0.027	0.0000095	4.0	0.00025	0.00038	0.00086
		May		25	0.92	8.8	5.0	0.062	4.8	0.036	0.25	0.0091	0.001	0.00047	0.019	0.0092	0.000024	0.000054	0.027	0.0000095	4.0	0.00025	0.00038	0.00086
		June		24	0.87	8.6	4.9	0.061	4.7	0.035	0.25	0.0089	0.001	0.00046	0.018	0.009	0.000024	0.000053	0.026	0.0000094	4.0	0.00025	0.00037	0.00085
		July		23	0.78	8.4	4.9	0.058	4.5	0.033	0.23	0.0084	0.0012	0.00043	0.017	0.0088	0.000024	0.000054	0.025	0.0000091	3.9	0.00024	0.00035	0.00082
		August		24	0.77	8.4	4.9	0.058	4.5	0.032	0.22	0.0083	0.0013	0.00042	0.016	0.0089	0.000024	0.000055	0.025	0.0000091	4.0	0.00024	0.00035	0.00082
		September		24	0.89	8.6	4.9	0.061	4.7	0.034	0.24	0.0087	0.0011	0.00046	0.018	0.009	0.000024	0.000054	0.026	0.0000093	4.0	0.00024	0.00037	0.00085
		October		24	0.9	8.6	4.9	0.061	4.7	0.034	0.24	0.0087	0.001	0.00046	0.018	0.009	0.000024	0.000054	0.026	0.0000093	4.0	0.00024	0.00037	0.00084
		November		24	0.9	8.6	4.9	0.061	4.7	0.034	0.24	0.0087	0.001	0.00046	0.018	0.009	0.000024	0.000054	0.026	0.0000093	4.0	0.00024	0.00037	0.00084
		December		24	0.9	8.6	4.9	0.061	4.7	0.034	0.24	0.0087	0.001	0.00046	0.018	0.009	0.000024	0.000054	0.026	0.0000093	4.0	0.00024	0.00037	0.00084
			MINIMUM	17	0.031	5.7	4.0	0.028	2.5	0.013	0.057	0.0026	0.001	0.00012	0.00076	0.0063	0.000021	0.000049	0.012	0.0000054	3.2	0.00012	0.00012	0.00045
			MAXIMUM	25	0.92	8.8	5.0	0.062	4.8	0.039	0.28	0.0091	0.0037	0.00047	0.019	0.0092	0.000024	0.000055	0.027	0.0000095	4.0	0.00025	0.00038	0.00086
			AVERAGE	19	0.45	6.8	4.4	0.043	3.3	0.033	0.23	0.005	0.0018	0.00029	0.01	0.0068	0.000022	0.000051	0.018	0.0000067	3.4	0.0002	0.00021	0.00064

Notes:
¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells
²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type
³CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed
⁴CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.
⁵CEQG Freshwater aquatic life criteria for chromium depends on the valence of chromium ion. In the above table, the Cr(VI) criterion of 0.001 mg/L is shown.
⁶CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.
⁷ The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1.0	0.05				0.004		0.25									0.1			
CEQG aquatic life (long-term) ² (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.007			
Constituent				Fe	Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn		
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
Mammoth Outlet	Closure, controlled discharge from pit lake	January	2048	0.033	0.000099	0.0013	0.95	0.02	0.0000072	0.00042	0.0017	0.96	0.00011	0.000012	1.2	0.02	0.000011	0.00012	0.0002	0.00066	0.0016		
		February		0.033	0.000099	0.0013	0.95	0.02	0.0000072	0.00042	0.0017	0.96	0.00011	0.000012	1.2	0.02	0.000011	0.00012	0.0002	0.00066	0.0016		
		March		0.033	0.000099	0.0013	0.95	0.02	0.0000072	0.00042	0.0017	0.96	0.00011	0.000012	1.2	0.02	0.000011	0.00012	0.0002	0.00066	0.0016		
		April		0.033	0.000099	0.0013	0.95	0.02	0.0000072	0.00042	0.0017	0.96	0.00011	0.000012	1.2	0.02	0.000011	0.00012	0.0002	0.00066	0.0016		
		May		0.033	0.000099	0.0013	0.95	0.02	0.0000072	0.00042	0.0017	0.96	0.00011	0.000012	1.2	0.02	0.000011	0.00012	0.0002	0.00066	0.0016		
		June		0.032	0.000098	0.0013	0.93	0.019	0.0000071	0.00041	0.0017	0.94	0.0001	0.000012	1.2	0.02	0.000011	0.00012	0.0002	0.00065	0.0016		
		July		0.031	0.000097	0.0013	0.94	0.018	0.000007	0.00038	0.0016	0.92	0.0001	0.000012	1.1	0.02	0.000011	0.00012	0.00018	0.00065	0.0015		
		August		0.03	0.000097	0.0013	0.97	0.017	0.0000071	0.00037	0.0016	0.92	0.000099	0.000012	1.1	0.021	0.000012	0.00012	0.00018	0.00065	0.0015		
		September		0.032	0.000098	0.0013	0.95	0.019	0.0000072	0.00041	0.0017	0.94	0.0001	0.000012	1.2	0.02	0.000011	0.00012	0.0002	0.00066	0.0016		
		October		0.032	0.000097	0.0013	0.94	0.019	0.0000071	0.00041	0.0017	0.94	0.0001	0.000012	1.2	0.02	0.000011	0.00012	0.0002	0.00066	0.0016		
		November		0.032	0.000097	0.0013	0.94	0.019	0.0000071	0.00041	0.0017	0.94	0.0001	0.000012	1.2	0.02	0.000011	0.00012	0.0002	0.00066	0.0016		
		December		0.032	0.000097	0.0013	0.94	0.019	0.0000071	0.00041	0.0017	0.94	0.0001	0.000012	1.2	0.02	0.000011	0.00012	0.0002	0.00066	0.0016		
		January	2049	0.032	0.000097	0.0013	0.94	0.019	0.0000071	0.00041	0.0017	0.94	0.0001	0.000012	1.2	0.02	0.000011	0.00012	0.0002	0.00066	0.0016		
		February		0.032	0.000097	0.0013	0.94	0.019	0.0000071	0.00041	0.0017	0.94	0.0001	0.000012	1.2	0.02	0.000011	0.00012	0.0002	0.00066	0.0016		
		March		0.032	0.000097	0.0013	0.94	0.019	0.0000071	0.00041	0.0017	0.94	0.0001	0.000012	1.2	0.02	0.000011	0.00012	0.0002	0.00066	0.0016		
		April		0.032	0.000097	0.0013	0.94	0.019	0.0000071	0.00041	0.0017	0.94	0.0001	0.000012	1.2	0.02	0.000011	0.00012	0.0002	0.00066	0.0016		
		May		0.032	0.000097	0.0013	0.94	0.019	0.0000071	0.00041	0.0017	0.94	0.0001	0.000012	1.2	0.02	0.000011	0.00012	0.0002	0.00066	0.0016		
		June		0.032	0.000096	0.0012	0.93	0.018	0.000007	0.0004	0.0016	0.92	0.0001	0.000011	1.1	0.02	0.000011	0.00012	0.00019	0.00065	0.0016		
		July		0.03	0.000095	0.0012	0.94	0.017	0.000007	0.00037	0.0016	0.9	0.000098	0.000011	1.1	0.02	0.000011	0.00012	0.00018	0.00064	0.0015		
		August		0.03	0.000095	0.0013	0.96	0.016	0.000007	0.00036	0.0016	0.91	0.000097	0.000012	1.1	0.02	0.000012	0.00012	0.00017	0.00065	0.0015		
		September		0.031	0.000096	0.0013	0.94	0.018	0.0000071	0.0004	0.0016	0.93	0.0001	0.000012	1.1	0.02	0.000011	0.00012	0.00019	0.00065	0.0016		
		October		0.031	0.000095	0.0012	0.93	0.018	0.0000071	0.0004	0.0016	0.92	0.0001	0.000011	1.1	0.02	0.000011	0.00012	0.00019	0.00065	0.0016		
		November		0.031	0.000095	0.0012	0.93	0.018	0.0000071	0.0004	0.0016	0.92	0.0001	0.000011	1.1	0.02	0.000011	0.00012	0.00019	0.00065	0.0016		
		December		0.031	0.000095	0.0012	0.93	0.018	0.0000071	0.0004	0.0016	0.92	0.0001	0.000011	1.1	0.02	0.000011	0.00012	0.00019	0.00065	0.0016		
		January	≥ 2050	0.04	0.00015	0.0016	1.1	0.063	0.0000095	0.00081	0.0034	1.4	0.00015	0.000014	1.8	0.024	0.000014	0.00015	0.00038	0.00083	0.0022		
		February		0.04	0.00015	0.0016	1.1	0.063	0.0000095	0.00081	0.0034	1.4	0.00015	0.000014	1.8	0.024	0.000014	0.00015	0.00038	0.00083	0.0022		
		March		0.04	0.00015	0.0016	1.1	0.063	0.0000095	0.00081	0.0034	1.4	0.00015	0.000014	1.8	0.024	0.000014	0.00015	0.00038	0.00083	0.0022		
		April		0.04	0.00015	0.0016	1.1	0.063	0.0000095	0.00081	0.0034	1.4	0.00015	0.000014	1.8	0.024	0.000014	0.00015	0.00038	0.00083	0.0022		
		May		0.04	0.00015	0.0016	1.1	0.063	0.0000095	0.00081	0.0034	1.4	0.00015	0.000014	1.8	0.024	0.000014	0.00015	0.00038	0.00083	0.0022		
		June		0.04	0.00015	0.0015	1.1	0.062	0.0000092	0.00077	0.0034	1.4	0.00015	0.000013	1.7	0.024	0.000013	0.00015	0.00036	0.00081	0.0021		
		July		0.038	0.00014	0.0015	1.1	0.057	0.0000089	0.00069	0.0032	1.3	0.00014	0.000013	1.7	0.024	0.000013	0.00015	0.00033	0.00079	0.002		
		August		0.037	0.00014	0.0015	1.1	0.055	0.0000089	0.00069	0.0031	1.3	0.00014	0.000013	1.6	0.024	0.000013	0.00015	0.00032	0.00079	0.002		
		September		0.039	0.00014	0.0016	1.1	0.059	0.0000094	0.00078	0.0033	1.4	0.00015	0.000013	1.7	0.024	0.000013	0.00015	0.00037	0.00082	0.0021		
		October		0.039	0.00014	0.0015	1.1	0.059	0.0000094	0.00079	0.0033	1.4	0.00015	0.000013	1.7	0.024	0.000013	0.00015	0.00037	0.00082	0.0021		
		November		0.039	0.00014	0.0015	1.1	0.059	0.0000094	0.00079	0.0033	1.4	0.00015	0.000013	1.7	0.024	0.000013	0.00015	0.00037	0.00082	0.0021		
		December		0.039	0.00014	0.0015	1.1	0.059	0.0000094	0.00079	0.0033	1.4	0.00015	0.000013	1.7	0.024	0.000013	0.00015	0.00037	0.00082	0.0021		
		MINIMUM			0.012	0.000074	0.0012	0.93	0.0023	0.0000056	0.000075	0.0009	0.65	0.00006	0.000011	0.72	0.02	0.000011	0.00011	0.000029	0.00054	0.0011	
		MAXIMUM			0.04	0.00015	0.0016	1.1	0.063	0.0000095	0.00081	0.0034	1.4	0.00015	0.000014	1.8	0.024	0.000014	0.00015	0.00038	0.00083	0.0022	
		AVERAGE			0.029	0.0001	0.0013	0.99	0.021	0.0000071	0.00039	0.0018	0.95	0.0001	0.000012	1.2	0.021	0.000012	0.00012	0.00018	0.00066	0.0016	

Notes:
¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells
²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEGQ's shown in bold-underlined type
³ CEGQ Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed
⁴ CEGQ Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.
⁵ CEGQ Freshwater aquatic life criteria for chromium depends on the valence of chromium ion. In the above table, the Cr(VI) criterion of 0.001 mg/L is shown.
⁶ CEGQ Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.
⁷ The CEGQ aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1						0.002		0.02		0.1	1.0
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025		1.5	0.00004		0.001		0.002		0.002		
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Ar ⁴	Sb	As ⁵	Ba	Be	Bi	B	Cd ⁶	Ca	Co	Cr ⁷	Co	Cu ⁸	Fe
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Lake (South Basin)	Construction and Operations	January	2018	11	0	4.5	2.6	0.026	1.4	0.0061	0.0051	0.0021	0.0053	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.015	
		February		11	0	4.5	2.6	0.026	1.4	0.0061	0.0051	0.0021	0.0053	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.015	
		March		11	0	4.5	2.6	0.026	1.4	0.0061	0.0051	0.0021	0.0053	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.015	
		April		11	0	4.5	2.6	0.026	1.4	0.0061	0.0051	0.0021	0.0053	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.015	
		May		11	0	4.5	2.6	0.026	1.4	0.0061	0.0051	0.0021	0.0053	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.015	
		June		10	0	4.5	2.6	0.026	1.4	0.0061	0.0051	0.0021	0.0053	0.000099	0.00015	0.0041	0.00002	0.00005	0.0099	0.000005	2.1	0.000099	0.000099	0.00048	0.015	
		July		10	0	4.5	2.6	0.026	1.4	0.0061	0.0051	0.0021	0.0053	0.000099	0.00015	0.0041	0.00002	0.000049	0.0099	0.0000049	2.1	0.000099	0.000099	0.00048	0.015	
		August		11	0	4.5	2.6	0.026	1.4	0.0061	0.0051	0.0021	0.0053	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.015	
		September		11	0	4.6	2.6	0.026	1.4	0.0061	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		October		11	0	4.6	2.6	0.026	1.4	0.0061	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		November		11	0	4.6	2.6	0.026	1.4	0.0061	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		December		11	0	4.6	2.6	0.026	1.4	0.0061	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		January	2019	11	0	4.6	2.6	0.026	1.4	0.0061	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		February		11	0	4.6	2.6	0.026	1.4	0.0061	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		March		11	0	4.6	2.7	0.027	1.4	0.0063	0.0093	0.0026	0.0048	0.0001	0.00015	0.0042	0.00002	0.00005	0.01	0.0000051	2.1	0.00011	0.0001	0.00049	0.017	
		April		12	0	4.9	3.3	0.028	1.5	0.007	0.016	0.0038	0.004	0.0001	0.00017	0.0045	0.00002	0.000051	0.011	0.0000054	2.3	0.00011	0.00011	0.00051	0.019	
		May		12	0	5.0	3.5	0.028	1.5	0.0072	0.018	0.004	0.0039	0.0001	0.00017	0.0046	0.00002	0.000051	0.012	0.0000054	2.3	0.00012	0.00011	0.00052	0.02	
		June		14	0	5.3	4.3	0.03	1.7	0.0083	0.023	0.0052	0.0036	0.0001	0.00019	0.005	0.000021	0.000051	0.013	0.0000058	2.6	0.00012	0.00011	0.00053	0.021	
		July		14	0	5.3	4.3	0.029	1.7	0.0082	0.023	0.0051	0.0036	0.0001	0.00019	0.005	0.000021	0.00005	0.013	0.0000058	2.6	0.00012	0.00011	0.00053	0.021	
		August		14	0	5.4	4.3	0.03	1.7	0.0083	0.023	0.0052	0.0037	0.0001	0.00019	0.0051	0.000021	0.000051	0.013	0.0000059	2.6	0.00012	0.00012	0.00054	0.021	
		September		14	0	5.4	4.3	0.03	1.7	0.0084	0.022	0.0051	0.0038	0.0001	0.00019	0.0051	0.000021	0.000052	0.013	0.0000059	2.6	0.00012	0.00012	0.00054	0.021	
		October		14	0	5.4	4.3	0.03	1.7	0.0083	0.022	0.0051	0.0038	0.0001	0.00019	0.0051	0.000021	0.000051	0.013	0.0000059	2.6	0.00012	0.00012	0.00054	0.021	
		November		14	0	5.4	4.3	0.03	1.7	0.0083	0.022	0.0051	0.0038	0.0001	0.00019	0.0051	0.000021	0.000051	0.013	0.0000059	2.6	0.00012	0.00012	0.00054	0.021	
		December		14	0	5.4	4.3	0.03	1.7	0.0083	0.022	0.0051	0.0038	0.0001	0.00019	0.0051	0.000021	0.000051	0.013	0.0000059	2.6	0.00012	0.00012	0.00054	0.021	
		January	2020	14	0	5.4	4.3	0.03	1.7	0.0084	0.022	0.0051	0.0038	0.0001	0.00019	0.0051	0.000021	0.000051	0.013	0.0000059	2.6	0.00012	0.00012	0.00054	0.021	
		February		14	0	5.4	4.3	0.03	1.7	0.0086	0.023	0.0051	0.0038	0.0001	0.00019	0.0051	0.000021	0.000051	0.013	0.0000059	2.6	0.00012	0.00012	0.00054	0.021	
		March		14	0	5.4	4.4	0.03	1.7	0.0088	0.023	0.0051	0.0038	0.0001	0.00019	0.0051	0.000021	0.000051	0.013	0.0000059	2.6	0.00012	0.00012	0.00054	0.021	
		April		15	0	5.4	4.4	0.03	1.7	0.0089	0.023	0.0052	0.0038	0.0001	0.00019	0.0051	0.000021	0.000052	0.013	0.0000059	2.6	0.00012	0.00012	0.00054	0.021	
		May		15	0	5.4	4.4	0.03	1.7	0.0091	0.024	0.0052	0.0038	0.0001	0.00019	0.0051	0.000021	0.000052	0.014	0.0000059	2.6	0.00012	0.00012	0.00054	0.021	
		June		14	0	5.3	4.3	0.03	1.7	0.009	0.022	0.005	0.0038	0.0001	0.00019	0.005	0.000021	0.000051	0.013	0.0000058	2.6	0.00013	0.00012	0.00054	0.022	
		July		14	0	5.3	4.2	0.03	1.7	0.0089	0.021	0.0049	0.0039	0.0001	0.0002	0.005	0.000021	0.00005	0.013	0.0000057	2.5	0.00013	0.00012	0.00054	0.023	
		August		14	0	5.4	4.3	0.031	1.7	0.0092	0.022	0.005	0.004	0.00011	0.0002	0.0051	0.000021	0.000051	0.013	0.0000059	2.6	0.00013	0.00012	0.00055	0.024	
		September		14	0	5.4	4.3	0.031	1.7	0.0093	0.022	0.005	0.004	0.00011	0.00021	0.0051	0.000021	0.000052	0.014	0.0000059	2.6	0.00014	0.00012	0.00056	0.024	
		October		14	0	5.4	4.3	0.031	1.7	0.0094	0.022	0.005	0.004	0.00011	0.00021	0.0051	0.000021	0.000051	0.014	0.0000059	2.6	0.00014	0.00012	0.00056	0.025	
		November		14	0	5.5	4.3	0.031	1.7	0.0096	0.022	0.005	0.0041	0.00011	0.00021	0.0051	0.000021	0.000051	0.014	0.0000059	2.6	0.00014	0.00012	0.00056	0.025	
		December		15	0	5.5	4.4	0.031	1.7	0.0097	0.022	0.005	0.0041	0.00011	0.00021	0.0051	0.000021	0.000051	0.014	0.0000059	2.6	0.00014	0.00012	0.00056	0.025	
		January	2021	15	0	5.5	4.4	0.032	1.7	0.0099	0.023	0.0051	0.0041	0.00011	0.00021	0.0052	0.000021	0.000051	0.014	0.0000059	2.6	0.00014	0.00012	0.00056	0.025	
		February		15	0	5.5	4.4	0.032	1.7	0.01	0.023	0.0051	0.0041	0.00011	0.00021	0.0052	0.000021	0.000051	0.014	0.00000						

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.007	
Constituent				Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Ti	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Lake (South Basin)	Construction and Operations	January	2018	0.000054	0.001	0.72	0.0015	0.000005	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000031	0.0005	0.0011
		February		0.000054	0.001	0.72	0.0015	0.000005	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000031	0.0005	0.0011
		March		0.000054	0.001	0.72	0.0015	0.000005	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000031	0.0005	0.0011
		April		0.000054	0.001	0.72	0.0015	0.000005	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000031	0.0005	0.0011
		May		0.000054	0.001	0.72	0.0015	0.000005	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000031	0.0005	0.0011
		June		0.000054	0.00099	0.71	0.0015	0.000005	0.00005	0.00062	0.4	0.00005	0.0000099	0.54	0.014	0.0000099	0.000099	0.000031	0.0005	0.0011
		July		0.000054	0.00099	0.71	0.0015	0.000005	0.000049	0.00062	0.4	0.000049	0.0000099	0.54	0.014	0.0000099	0.000099	0.000031	0.00049	0.0011
		August		0.000054	0.001	0.72	0.0015	0.000005	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000031	0.0005	0.0011
		September		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		October		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		November		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		December		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		January	2019	0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		February		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		March		0.000056	0.001	0.74	0.0017	0.0000051	0.000061	0.00064	0.41	0.000051	0.00001	0.58	0.014	0.00001	0.0001	0.000036	0.0005	0.0011
		April		0.00006	0.0011	0.81	0.0025	0.0000051	0.00012	0.00067	0.42	0.000053	0.00001	0.73	0.016	0.00001	0.0001	0.000057	0.00051	0.0012
		May		0.000061	0.0011	0.83	0.0027	0.0000051	0.00014	0.00067	0.43	0.000053	0.00001	0.77	0.016	0.00001	0.0001	0.000062	0.00051	0.0012
		June		0.000065	0.0011	0.93	0.0039	0.0000051	0.00023	0.0007	0.45	0.000055	0.00001	0.96	0.018	0.00001	0.0001	0.000088	0.00051	0.0012
		July		0.000065	0.0011	0.92	0.0039	0.0000051	0.00023	0.0007	0.44	0.000055	0.00001	0.95	0.018	0.000010	0.0001	0.000088	0.0005	0.0012
		August		0.000066	0.0011	0.94	0.0039	0.0000052	0.00023	0.00071	0.45	0.000056	0.00001	0.96	0.018	0.00001	0.0001	0.000089	0.00051	0.0012
		September		0.000066	0.0011	0.94	0.0039	0.0000052	0.00023	0.00071	0.45	0.000056	0.00001	0.96	0.018	0.00001	0.0001	0.000088	0.00052	0.0012
		October		0.000066	0.0011	0.94	0.0038	0.0000052	0.00022	0.00071	0.45	0.000056	0.00001	0.95	0.018	0.00001	0.0001	0.000086	0.00051	0.0012
		November		0.000066	0.0011	0.94	0.0038	0.0000052	0.00022	0.00071	0.45	0.000056	0.00001	0.95	0.018	0.00001	0.0001	0.000086	0.00051	0.0012
		December		0.000066	0.0011	0.94	0.0038	0.0000052	0.00022	0.00071	0.45	0.000056	0.00001	0.95	0.018	0.00001	0.0001	0.000086	0.00051	0.0012
		January	2020	0.000066	0.0011	0.94	0.0038	0.0000052	0.00022	0.00071	0.45	0.000056	0.00001	0.95	0.018	0.00001	0.0001	0.000087	0.00051	0.0012
		February		0.000066	0.0011	0.94	0.0039	0.0000052	0.00023	0.00071	0.45	0.000056	0.00001	0.96	0.018	0.00001	0.0001	0.000088	0.00051	0.0012
		March		0.000066	0.0011	0.95	0.0039	0.0000052	0.00023	0.00071	0.45	0.000056	0.00001	0.97	0.018	0.00001	0.0001	0.000089	0.00051	0.0012
		April		0.000066	0.0011	0.95	0.004	0.0000052	0.00024	0.00071	0.45	0.000056	0.00001	0.98	0.018	0.00001	0.0001	0.00009	0.00051	0.0012
		May		0.000066	0.0011	0.95	0.004	0.0000052	0.00024	0.00071	0.46	0.000057	0.00001	0.99	0.019	0.00001	0.0001	0.000092	0.00051	0.0012
		June		0.000066	0.0011	0.93	0.0039	0.0000051	0.00023	0.0007	0.45	0.000056	0.00001	0.97	0.018	0.00001	0.0001	0.000089	0.00051	0.0012
		July		0.000066	0.0011	0.91	0.0038	0.0000051	0.00022	0.0007	0.44	0.000055	0.00001	0.96	0.018	0.000010	0.0001	0.000087	0.00051	0.0012
		August		0.000068	0.0011	0.93	0.0039	0.0000052	0.00022	0.00071	0.45	0.000056	0.00001	0.99	0.018	0.00001	0.0001	0.000089	0.00052	0.0012
		September		0.000069	0.0011	0.94	0.0039	0.0000053	0.00023	0.00072	0.45	0.000057	0.00001	1.0	0.018	0.00001	0.0001	0.00009	0.00052	0.0012
		October		0.000069	0.0011	0.94	0.0039	0.0000053	0.00023	0.00072	0.45	0.000057	0.00001	1.0	0.018	0.00001	0.0001	0.000091	0.00052	0.0012
		November		0.00007	0.0011	0.94	0.004	0.0000053	0.00023	0.00072	0.45	0.000057	0.00001	1.0	0.018	0.00001	0.0001	0.000092	0.00052	0.0012
		December		0.00007	0.0011	0.95	0.004	0.0000053	0.00023	0.00072	0.46	0.000057	0.00001	1.0	0.018	0.00001	0.0001	0.000093	0.00052	0.0012
		January	2021	0.00007	0.0011	0.95	0.004	0.0000053	0.00023	0.00072	0.46	0.000057	0.00001	1.0	0.018	0.00001	0.0001	0.000093	0.00052	0.0012
		February		0.00007	0.0011	0.95	0.004	0.0000053	0.00024	0.00073	0.46	0.000057	0.00001	1.0	0.018	0.00001	0.0001	0.000094	0.00052	0.0012
		March		0.00007	0.0011	0.95	0.004	0.0000053	0.00024	0.00073	0.46	0.000057	0.00001	1.0	0.018	0.00001	0.0001	0.000094	0.00052	0.0012
		April		0.00007	0.0011	0.95	0.004	0.0000053	0.00024	0.00073	0.46	0.000057	0.00001	1.0	0.018	0.00001	0.0001	0.000094	0.00052	0.0012
		May		0.00007	0.0011	0.95	0.004	0.0000053	0.00024	0.00073	0.46	0.000057	0.00001	1.0	0.018	0.00001	0.0001	0.000094	0.00052	0.0012
		June		0.000073	0.0011	0.95	0.005	0.0000052	0.00025	0.00079	0.47	0.00006	0.00001	1.1	0.018	0.00001	0.0001	0.0001	0.00052	0.0012
		July		0.000081	0.0011	0.96	0.0074	0.0000053	0.00027	0.00096	0.52	0.000067	0.000011	1.2	0.018	0.00001	0.0001	0.00011	0.00053	0.0013
		August		0.000097	0.0012	1.0	0.012	0.0000057	0.00033	0.0013	0.62	0.000085	0.000012	1.4	0.02	0.000011	0.00011	0.00013	0.00057	0.0014
		September		0.00011	0.0013	1.1	0.016	0.000006	0.00038	0.0016	0.72	0.00010	0.000012	1.6	0.021	0.000011	0.00011	0.00015	0.00061	0.0014
		October		0.00012	0.0013	1.1	0.017	0.0000061	0.0004	0.0017	0.74	0.0001	0.000012	1.7	0.021	0.000011	0.00011	0.00016	0.00062	0.0014
		November		0.00012	0.0013	1.1	0.017	0.000006	0.0004	0.0016	0.74	0.0001	0.000012	1.7	0.021	0.000011	0.00011	0.00016	0.00062	0.0014
		December		0.00012	0.0013	1.1	0.017	0.000006	0.0004	0.0016	0.74	0.0001	0.000012	1.7	0.021	0.000011	0.00011	0.00016	0.00062	0.0014
		January	2022	0.00012	0.0013	1.1	0.017	0.000006	0.0004	0.0016	0.74	0.0001	0.000012	1.7	0.021	0.000011	0.00011	0.00016	0.00061	0.0

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0		
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3		
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	As ⁴	Sb	As ⁵	Ba	Be	Bi	B	Cd ⁶	Ca	Co	Cr ⁷	Co	Cu ⁸	Fe	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
Whale Tail Lake (South Basin)	Construction and Operations	January	2023	27	0.53	8.5	5.7	0.045	3.9	0.061	0.93	0.008	0.0039	0.00044	0.0094	0.0073	0.000023	0.000051	0.037	0.0000078	3.7	0.0004	0.00028	0.0009	0.052		
		February		27	0.54	8.6	5.7	0.045	3.9	0.061	0.93	0.008	0.0039	0.00044	0.0094	0.0073	0.000023	0.000051	0.037	0.0000078	3.7	0.0004	0.00028	0.0009	0.052		
		March		27	0.55	8.6	5.7	0.045	3.9	0.062	0.93	0.0081	0.004	0.00044	0.0094	0.0073	0.000023	0.000051	0.037	0.0000078	3.7	0.0004	0.00028	0.00091	0.052		
		April		27	0.56	8.6	5.7	0.045	3.9	0.062	0.93	0.0081	0.004	0.00044	0.0094	0.0073	0.000023	0.000051	0.037	0.0000078	3.7	0.00041	0.00028	0.00091	0.052		
		May		27	0.57	8.6	5.7	0.045	3.9	0.063	0.93	0.0081	0.004	0.00044	0.0093	0.0073	0.000023	0.000051	0.037	0.0000078	3.7	0.00041	0.00028	0.00091	0.052		
		June		29	0.56	8.6	6.3	0.045	3.9	0.076	1.1	0.0089	0.0039	0.00042	0.0095	0.0074	0.000023	0.000051	0.036	0.0000079	3.8	0.00039	0.00027	0.00089	0.051		
		July		31	0.6	8.7	6.8	0.045	4.0	0.1	1.4	0.0096	0.0038	0.00044	0.011	0.0075	0.000023	0.00005	0.037	0.000008	4.0	0.0004	0.00028	0.00089	0.053		
		August		34	0.74	9.4	7.4	0.049	4.5	0.13	1.5	0.01	0.0039	0.00052	0.012	0.0081	0.000024	0.000051	0.042	0.0000085	4.4	0.00045	0.00032	0.00097	0.055		
		September		36	0.85	9.9	7.8	0.051	4.9	0.16	1.6	0.01	0.0039	0.00058	0.013	0.0084	0.000024	0.000052	0.046	0.0000088	4.8	0.00049	0.00034	0.001	0.058		
		October		36	0.88	10.0	7.9	0.051	5.0	0.17	1.6	0.01	0.0039	0.00058	0.013	0.0085	0.000024	0.000052	0.046	0.0000088	4.8	0.00049	0.00035	0.001	0.059		
		November		36	0.9	10.0	7.9	0.051	5.0	0.17	1.6	0.01	0.0039	0.00058	0.013	0.0085	0.000024	0.000052	0.046	0.0000088	4.8	0.00049	0.00035	0.001	0.059		
		December		36	0.91	10.0	7.9	0.051	5.0	0.17	1.6	0.01	0.0039	0.00058	0.013	0.0085	0.000024	0.000052	0.046	0.0000088	4.8	0.00049	0.00035	0.001	0.059		
		January	2024	36	0.93	10.0	7.9	0.051	5.0	0.17	1.6	0.011	0.004	0.00058	0.013	0.0085	0.000024	0.000052	0.046	0.0000088	4.8	0.00049	0.00035	0.001	0.059		
		February		36	0.94	10.0	7.9	0.051	5.0	0.17	1.6	0.011	0.004	0.00058	0.013	0.0085	0.000024	0.000052	0.046	0.0000088	4.8	0.00049	0.00035	0.001	0.059		
		March		36	0.95	10	7.9	0.051	5.0	0.17	1.6	0.011	0.004	0.00058	0.013	0.0085	0.000024	0.000052	0.046	0.0000088	4.8	0.00049	0.00035	0.001	0.059		
		April		36	0.97	10	7.9	0.051	5.0	0.17	1.6	0.011	0.004	0.00058	0.013	0.0085	0.000024	0.000052	0.046	0.0000088	4.8	0.00049	0.00035	0.0011	0.059		
		May		36	0.98	10	7.9	0.051	5.0	0.18	1.6	0.011	0.0041	0.00058	0.013	0.0085	0.000024	0.000053	0.046	0.0000088	4.8	0.00049	0.00035	0.0011	0.059		
		June		37	0.94	9.8	8.1	0.05	4.8	0.18	1.7	0.011	0.004	0.00055	0.013	0.0083	0.000024	0.000052	0.044	0.0000087	4.8	0.00047	0.00034	0.001	0.057		
		July		38	0.96	9.7	8.3	0.05	4.9	0.19	1.9	0.012	0.0038	0.00056	0.014	0.0083	0.000023	0.000051	0.044	0.0000086	4.9	0.00047	0.00034	0.001	0.059		
		August		41	1.1	10	8.9	0.053	5.4	0.22	2.0	0.012	0.0039	0.00063	0.015	0.0088	0.000024	0.000052	0.049	0.000009	5.3	0.00052	0.00037	0.0011	0.061		
		September		43	1.3	11	9.3	0.055	5.7	0.25	2.1	0.012	0.0039	0.00067	0.016	0.0091	0.000025	0.000053	0.052	0.0000093	5.6	0.00055	0.0004	0.0011	0.063		
		October		43	1.3	11	9.4	0.056	5.8	0.26	2.1	0.012	0.004	0.00068	0.016	0.0092	0.000025	0.000053	0.052	0.0000093	5.7	0.00055	0.0004	0.0011	0.064		
		November		43	1.3	11	9.4	0.056	5.8	0.26	2.1	0.012	0.004	0.00068	0.016	0.0092	0.000025	0.000053	0.052	0.0000093	5.7	0.00055	0.0004	0.0011	0.064		
		December		43	1.3	11	9.4	0.056	5.8	0.26	2.1	0.012	0.004	0.00068	0.016	0.0092	0.000025	0.000053	0.052	0.0000093	5.7	0.00055	0.0004	0.0011	0.064		
		January	2025	43	1.4	11	9.4	0.056	5.8	0.26	2.1	0.012	0.004	0.00068	0.016	0.0091	0.000025	0.000053	0.052	0.0000093	5.7	0.00055	0.0004	0.0011	0.064		
		February		43	1.4	11	9.4	0.056	5.8	0.26	2.1	0.012	0.004	0.00068	0.016	0.0091	0.000025	0.000054	0.052	0.0000093	5.7	0.00055	0.0004	0.0011	0.064		
		March		43	1.4	11	9.4	0.056	5.8	0.26	2.1	0.012	0.0041	0.00068	0.016	0.0091	0.000025	0.000054	0.052	0.0000093	5.7	0.00055	0.0004	0.0011	0.064		
		April		43	1.4	11	9.4	0.056	5.8	0.26	2.1	0.012	0.0041	0.00068	0.016	0.0091	0.000025	0.000054	0.052	0.0000093	5.7	0.00055	0.0004	0.0012	0.064		
		May		43	1.4	11	9.4	0.056	5.8	0.26	2.1	0.012	0.0041	0.00068	0.016	0.0091	0.000025	0.000054	0.052	0.0000093	5.7	0.00055	0.0004	0.0012	0.064		
		June		43	1.4	11	9.3	0.054	5.5	0.25	2.2	0.013	0.004	0.00064	0.015	0.0089	0.000024	0.000053	0.05	0.0000091	5.6	0.00052	0.00038	0.0011	0.062		
		July		43	1.4	10	9.3	0.053	5.5	0.26	2.4	0.013	0.0039	0.00064	0.016	0.0087	0.000024	0.000052	0.049	0.0000089	5.6	0.00052	0.00038	0.0011	0.063		
		August		46	1.6	11	10.0	0.057	6.0	0.29	2.5	0.013	0.004	0.00071	0.017	0.0092	0.000025	0.000054	0.054	0.0000094	6.0	0.00057	0.00042	0.0012	0.066		
		September		48	1.7	11	10	0.059	6.3	0.31	2.5	0.013	0.004	0.00075	0.018	0.0095	0.000025	0.000054	0.057	0.0000097	6.3	0.0006	0.00044	0.0012	0.068		
		October		48	1.7	11	10	0.059	6.3	0.32	2.6	0.013	0.004	0.00075	0.018	0.0095	0.000025	0.000054	0.057	0.0000096	6.4	0.0006	0.00044	0.0012	0.069		
		November		48	1.7	11	10	0.059	6.3	0.32	2.6	0.013	0.004	0.00075	0.018	0.0095	0.000025	0.000054	0.057	0.0000096	6.4	0.0006	0.00044	0.0012	0.069		
		December		48	1.7	11	10	0.059	6.3	0.32	2.6	0.013	0.004	0.00075	0.018	0.0095	0.000025	0.000055	0.057	0.0000096	6.4	0.0006	0.00044	0.0012	0.069		
		MINIMUM			10	0.017	4.5	2.6	0.026	1.4	0.0061	0.0051	0.0021	0.0036	0.000099	0.00015	0.0041	0.00002	0.000049	0.0099	0.0000049	2.1	0.000099	0.000099	0.00048	0.015	
		MAXIMUM			48	1.7	11	10	0.059	6.3	0.32	2.6	0.013	0.0054	0.00075	0.018	0.0095	0.000025	0.000055	0.057	0.0000097	6.4	0.0006	0.00044	0.0012	0.069	
		AVERAGE			24	0.81	7.4	5.7	0.04																		

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.007	
Constituent				Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Ti	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Lake (South Basin)	Construction and Operations	January	2023	0.00015	0.0014	1.2	0.027	0.0000069	0.00052	0.0026	1.0	0.00015	0.000015	2.2	0.024	0.000012	0.00012	0.00021	0.00071	0.0017
		February		0.00015	0.0014	1.2	0.027	0.0000069	0.00052	0.0026	1.0	0.00015	0.000015	2.2	0.024	0.000012	0.00012	0.00021	0.00071	0.0017
		March		0.00015	0.0014	1.2	0.027	0.0000069	0.00052	0.0026	1.0	0.00015	0.000015	2.2	0.024	0.000012	0.00012	0.00021	0.00071	0.0017
		April		0.00015	0.0014	1.2	0.027	0.0000069	0.00052	0.0026	1.0	0.00015	0.000015	2.2	0.024	0.000012	0.00012	0.00021	0.00071	0.0017
		May		0.00015	0.0014	1.2	0.027	0.0000069	0.00052	0.0026	1.0	0.00015	0.000015	2.2	0.024	0.000012	0.00012	0.00021	0.00071	0.0017
		June		0.00015	0.0014	1.2	0.027	0.0000068	0.00056	0.0026	1.0	0.00015	0.000015	2.3	0.025	0.000012	0.00011	0.00022	0.00069	0.0017
		July		0.00015	0.0015	1.2	0.028	0.000007	0.0006	0.0027	1.0	0.00017	0.000015	2.4	0.027	0.000012	0.00011	0.00023	0.00069	0.0018
		August		0.00017	0.0016	1.3	0.032	0.0000076	0.00066	0.0032	1.2	0.0002	0.000016	2.7	0.029	0.000013	0.00012	0.00025	0.00075	0.0019
		September		0.00018	0.0017	1.3	0.036	0.0000081	0.00069	0.0036	1.3	0.00022	0.000017	2.9	0.031	0.000013	0.00012	0.00027	0.00079	0.0021
		October		0.00018	0.0017	1.3	0.037	0.0000082	0.0007	0.0036	1.3	0.00023	0.000017	2.9	0.032	0.000013	0.00012	0.00027	0.0008	0.0021
		November		0.00018	0.0017	1.3	0.037	0.0000082	0.0007	0.0036	1.3	0.00023	0.000017	2.9	0.032	0.000013	0.00012	0.00027	0.0008	0.0021
		December		0.00018	0.0017	1.3	0.037	0.0000082	0.0007	0.0036	1.3	0.00023	0.000017	2.9	0.032	0.000013	0.00012	0.00027	0.0008	0.0021
		January	2024	0.00018	0.0017	1.3	0.037	0.0000082	0.0007	0.0036	1.3	0.00023	0.000017	2.9	0.032	0.000013	0.00012	0.00027	0.0008	0.0021
		February		0.00018	0.0017	1.3	0.037	0.0000082	0.0007	0.0036	1.3	0.00023	0.000017	2.9	0.032	0.000013	0.00012	0.00027	0.0008	0.0021
		March		0.00018	0.0017	1.3	0.037	0.0000082	0.0007	0.0036	1.3	0.00023	0.000017	2.9	0.032	0.000013	0.00012	0.00027	0.0008	0.0021
		April		0.00018	0.0017	1.3	0.037	0.0000082	0.0007	0.0036	1.3	0.00023	0.000017	2.9	0.032	0.000013	0.00012	0.00027	0.0008	0.0021
		May		0.00018	0.0017	1.3	0.037	0.0000082	0.0007	0.0036	1.3	0.00023	0.000017	2.9	0.032	0.000013	0.00012	0.00027	0.0008	0.0021
		June		0.00018	0.0017	1.3	0.036	0.000008	0.0007	0.0035	1.3	0.00022	0.000017	2.9	0.032	0.000013	0.00012	0.00027	0.00077	0.0021
		July		0.00017	0.0017	1.3	0.036	0.000008	0.0007	0.0035	1.3	0.00022	0.000017	2.9	0.032	0.000013	0.00012	0.00027	0.00076	0.0021
		August		0.00019	0.0018	1.4	0.04	0.0000087	0.00076	0.0041	1.4	0.00025	0.000018	3.2	0.035	0.000014	0.00012	0.00029	0.00082	0.0023
		September		0.0002	0.0018	1.4	0.044	0.0000092	0.0008	0.0045	1.5	0.00028	0.000019	3.3	0.037	0.000014	0.00013	0.0003	0.00085	0.0024
		October		0.0002	0.0019	1.4	0.045	0.0000093	0.0008	0.0046	1.5	0.00028	0.000019	3.4	0.037	0.000015	0.00013	0.0003	0.00085	0.0025
		November		0.0002	0.0019	1.4	0.045	0.0000093	0.0008	0.0046	1.5	0.00028	0.000019	3.4	0.037	0.000015	0.00013	0.0003	0.00085	0.0025
		December		0.0002	0.0019	1.4	0.045	0.0000093	0.0008	0.0046	1.5	0.00028	0.000019	3.4	0.037	0.000015	0.00013	0.0003	0.00085	0.0025
		January	2025	0.0002	0.0019	1.4	0.045	0.0000093	0.0008	0.0046	1.5	0.00028	0.000019	3.4	0.037	0.000015	0.00013	0.0003	0.00085	0.0025
		February		0.0002	0.0019	1.4	0.045	0.0000093	0.0008	0.0046	1.5	0.00028	0.000019	3.4	0.037	0.000015	0.00013	0.0003	0.00085	0.0025
		March		0.0002	0.0019	1.4	0.045	0.0000093	0.0008	0.0045	1.5	0.00028	0.000019	3.4	0.037	0.000015	0.00013	0.0003	0.00085	0.0025
		April		0.0002	0.0019	1.4	0.045	0.0000093	0.0008	0.0045	1.5	0.00028	0.000019	3.4	0.037	0.000015	0.00013	0.0003	0.00085	0.0025
		May		0.0002	0.0019	1.4	0.045	0.0000093	0.0008	0.0045	1.5	0.00028	0.000019	3.4	0.037	0.000015	0.00013	0.0003	0.00085	0.0025
		June		0.00019	0.0018	1.4	0.043	0.000009	0.00077	0.0043	1.5	0.00027	0.000019	3.3	0.036	0.000014	0.00012	0.00029	0.00082	0.0024
		July		0.00019	0.0018	1.3	0.042	0.000009	0.00076	0.0044	1.5	0.00027	0.000019	3.2	0.036	0.000014	0.00012	0.00029	0.00081	0.0024
		August		0.00021	0.0019	1.4	0.047	0.0000097	0.00082	0.005	1.6	0.0003	0.00002	3.5	0.038	0.000015	0.00013	0.00031	0.00086	0.0026
		September		0.00022	0.002	1.4	0.05	0.00001	0.00085	0.0053	1.7	0.00032	0.000021	3.6	0.04	0.000015	0.00013	0.00032	0.00089	0.0027
		October		0.00022	0.002	1.4	0.051	0.00001	0.00085	0.0054	1.7	0.00032	0.000021	3.7	0.04	0.000015	0.00013	0.00032	0.00089	0.0027
		November		0.00022	0.002	1.4	0.051	0.00001	0.00085	0.0054	1.7	0.00032	0.000021	3.7	0.04	0.000015	0.00013	0.00032	0.00089	0.0027
		December		0.00022	0.002	1.4	0.051	0.00001	0.00085	0.0054	1.7	0.00032	0.000021	3.7	0.04	0.000015	0.00013	0.00032	0.00089	0.0027
			MINIMUM	0.000054	0.00099	0.71	0.0015	0.000005	0.000049	0.00062	0.4	0.000049	0.0000099	0.54	0.014	0.0000099	0.000099	0.000031	0.00049	0.0011
			MAXIMUM	0.00022	0.002	1.4	0.051	0.00001	0.00085	0.0054	1.7	0.00032	0.000021	3.7	0.04	0.000015	0.00013	0.00032	0.00089	0.0027
			AVERAGE	0.00012	0.0014	1.1	0.019	0.0000066	0.00042	0.0021	0.85	0.00013	0.000013	1.8	0.024	0.000012	0.00011	0.00016	0.00064	0.0016
	Closure, no mine contact water discharge	2026	January	0.00022	0.002	1.4	0.051	0.00001	0.00085	0.0054	1.7	0.00032	0.000021	3.7	0.04	0.000015	0.00013	0.00032	0.00089	0.0027
			February	0.00022	0.002	1.4	0.051	0.00001	0.00085	0.0054	1.7	0.00032	0.000021	3.7	0.04	0.000015	0.00013	0.00032	0.00089	0.0027
			March	0.00022	0.002	1.4	0.051	0.00001	0.00085	0.0054	1.7	0.00032	0.000021	3.7	0.04	0.000015	0.00013	0.00032	0.00089	0.0027
			April	0.00022	0.002	1.4	0.051	0.00001	0.00085	0.0054	1.7	0.00032	0.000021	3.7	0.04	0.000015	0.00013	0.00032	0.00089	0.0027
			May	0.00022	0.002	1.4	0.051	0.00001	0.00085	0.0054	1.7	0.00032	0.000021	3.7	0.04	0.000015	0.00013	0.00032	0.00089	0.0027
			June	0.0002	0.0019	1.3	0.047	0.0000097	0.00079	0.005	1.6	0.0003	0.00002	3.4	0.038	0.000015	0.00013	0.0003	0.00086	0.0026
			July	0.00019	0.0018	1.3	0.043	0.0000093	0.00073	0.0046	1.5	0.00028	0.000019	3.2	0.036	0.000014	0.00013	0.00028	0.00082	0.0025
			August	0.00019	0.0018	1.3	0.043	0.0000094	0.00073	0.0047	1.5	0.00028	0.000019	3.2	0.036	0.000015	0.00013	0.00028	0.00084	0.0025
			September	0.00019	0.0018	1.3	0.042	0.0000093	0.00071	0.0045	1.5	0.00027	0.000019	3.1	0.035	0.000015	0.00013	0.00027	0.00083	0.0024
			October	0.00018	0.0018	1.3	0.04	0.0000091	0.00068	0.0044	1.4	0.00026	0.000019	3.0	0.035	0.000014	0.00013	0.00026	0.00081	0.0024
			November	0.00018	0.0018	1.3	0.04	0.0000091	0.00068	0.0044	1.4	0.00026	0.000019	3.						

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1						0.002		0.02		0.1	1.0
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3	
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Ar ⁴	Sb	As ⁵	Ba	Be	Bi	B	Cd ⁶	Ca	Co	Cr ⁷	Co	Cu ⁸	Fe
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Lake (South Basin)	Closure, no mine contact water discharge	January	2028	28	0.79	7.7	6.2	0.041	3.6	0.15	1.2	0.0072	0.0048	0.00039	0.0082	0.0066	0.000022	0.000052	0.031	0.0000071	4.0	0.00033	0.00026	0.00082	0.04	
		February		28	0.79	7.7	6.2	0.041	3.6	0.15	1.2	0.0072	0.0048	0.00039	0.0082	0.0066	0.000022	0.000052	0.031	0.0000071	4.0	0.00033	0.00026	0.00082	0.04	
		March		28	0.79	7.7	6.2	0.041	3.6	0.15	1.2	0.0072	0.0048	0.00039	0.0082	0.0066	0.000022	0.000052	0.031	0.0000071	4.0	0.00033	0.00026	0.00082	0.04	
		April		28	0.79	7.7	6.2	0.041	3.6	0.15	1.2	0.0072	0.0048	0.00039	0.0082	0.0066	0.000022	0.000052	0.031	0.0000071	4.0	0.00033	0.00026	0.00082	0.04	
		May		28	0.79	7.7	6.2	0.041	3.6	0.15	1.2	0.0072	0.0048	0.00039	0.0082	0.0066	0.000022	0.000052	0.031	0.0000071	4.0	0.00033	0.00026	0.00082	0.04	
		June		25	0.65	7.1	5.5	0.038	3.2	0.12	0.95	0.0063	0.0048	0.00034	0.0068	0.0061	0.000022	0.000052	0.028	0.0000067	3.7	0.00029	0.00023	0.00075	0.035	
		July		22	0.52	6.6	4.9	0.036	2.8	0.1	0.76	0.0054	0.0049	0.00029	0.0054	0.0057	0.000021	0.000051	0.024	0.0000063	3.4	0.00025	0.0002	0.0007	0.031	
		August		22	0.51	6.6	4.9	0.036	2.8	0.099	0.75	0.0054	0.005	0.00029	0.0054	0.0057	0.000022	0.000052	0.024	0.0000064	3.4	0.00025	0.0002	0.0007	0.031	
		September		21	0.48	6.5	4.8	0.035	2.7	0.093	0.7	0.0052	0.005	0.00028	0.005	0.0056	0.000022	0.000052	0.023	0.0000063	3.3	0.00024	0.0002	0.00069	0.03	
		October		20	0.45	6.4	4.7	0.035	2.6	0.088	0.66	0.005	0.005	0.00027	0.0047	0.0055	0.000021	0.000052	0.022	0.0000062	3.2	0.00023	0.00019	0.00067	0.029	
		November		20	0.45	6.4	4.7	0.035	2.6	0.088	0.66	0.005	0.005	0.00027	0.0047	0.0055	0.000021	0.000052	0.022	0.0000062	3.2	0.00023	0.00019	0.00067	0.029	
		December		20	0.45	6.4	4.7	0.035	2.6	0.088	0.66	0.005	0.005	0.00027	0.0047	0.0055	0.000021	0.000052	0.022	0.0000062	3.2	0.00023	0.00019	0.00067	0.029	
		January	2029	20	0.45	6.4	4.7	0.035	2.6	0.088	0.66	0.005	0.005	0.00027	0.0047	0.0055	0.000021	0.000052	0.022	0.0000062	3.2	0.00023	0.00019	0.00067	0.029	
		February		20	0.45	6.4	4.7	0.035	2.6	0.088	0.66	0.005	0.005	0.00027	0.0047	0.0055	0.000021	0.000052	0.022	0.0000062	3.2	0.00023	0.00019	0.00067	0.029	
		March		20	0.45	6.4	4.7	0.035	2.6	0.088	0.66	0.005	0.005	0.00027	0.0047	0.0055	0.000021	0.000052	0.022	0.0000062	3.2	0.00023	0.00019	0.00067	0.029	
		April		20	0.45	6.4	4.7	0.035	2.6	0.088	0.66	0.005	0.005	0.00027	0.0047	0.0055	0.000021	0.000052	0.022	0.0000062	3.2	0.00023	0.00019	0.00067	0.029	
		May		20	0.45	6.4	4.7	0.035	2.6	0.088	0.66	0.005	0.005	0.00027	0.0047	0.0055	0.000021	0.000052	0.022	0.0000062	3.2	0.00023	0.00019	0.00067	0.029	
		June		18	0.37	6.0	4.3	0.033	2.4	0.073	0.54	0.0045	0.005	0.00024	0.0039	0.0052	0.000021	0.000051	0.02	0.000006	3.0	0.00021	0.00017	0.00063	0.027	
		July		17	0.29	5.7	3.9	0.031	2.2	0.06	0.43	0.004	0.0051	0.00021	0.0031	0.005	0.000021	0.00005	0.018	0.0000057	2.8	0.00018	0.00016	0.0006	0.024	
		August		17	0.29	5.7	3.9	0.032	2.2	0.059	0.43	0.004	0.0051	0.00021	0.0031	0.005	0.000021	0.000051	0.018	0.0000058	2.8	0.00018	0.00016	0.0006	0.024	
		September		16	0.27	5.7	3.9	0.031	2.1	0.055	0.4	0.0039	0.0052	0.0002	0.0029	0.005	0.000021	0.000051	0.017	0.0000058	2.8	0.00018	0.00015	0.0006	0.024	
		October		16	0.25	5.6	3.8	0.031	2.1	0.052	0.38	0.0038	0.0052	0.0002	0.0027	0.0049	0.000021	0.000051	0.017	0.0000057	2.7	0.00017	0.00015	0.00059	0.023	
		November		16	0.25	5.6	3.8	0.031	2.1	0.052	0.38	0.0038	0.0052	0.0002	0.0027	0.0049	0.000021	0.000051	0.017	0.0000057	2.7	0.00017	0.00015	0.00059	0.023	
		December		16	0.25	5.6	3.8	0.031	2.1	0.052	0.38	0.0038	0.0052	0.0002	0.0027	0.0049	0.000021	0.000051	0.017	0.0000057	2.7	0.00017	0.00015	0.00059	0.023	
		January	2030	16	0.25	5.6	3.8	0.031	2.1	0.052	0.38	0.0038	0.0052	0.0002	0.0027	0.0049	0.000021	0.000051	0.017	0.0000057	2.7	0.00017	0.00015	0.00059	0.023	
		February		16	0.25	5.6	3.8	0.031	2.1	0.052	0.38	0.0038	0.0052	0.0002	0.0027	0.0049	0.000021	0.000051	0.017	0.0000057	2.7	0.00017	0.00015	0.00059	0.023	
		March		16	0.25	5.6	3.8	0.031	2.1	0.052	0.38	0.0038	0.0052	0.0002	0.0027	0.0049	0.000021	0.000051	0.017	0.0000057	2.7	0.00017	0.00015	0.00059	0.023	
		April		16	0.25	5.6	3.8	0.031	2.1	0.052	0.38	0.0038	0.0052	0.0002	0.0027	0.0049	0.000021	0.000051	0.017	0.0000057	2.7	0.00017	0.00015	0.00059	0.023	
		May		16	0.25	5.6	3.8	0.031	2.1	0.052	0.38	0.0038	0.0052	0.0002	0.0027	0.0049	0.000021	0.000051	0.017	0.0000057	2.7	0.00017	0.00015	0.00059	0.023	
		June		15	0.21	5.4	3.6	0.03	2.0	0.044	0.31	0.0035	0.0052	0.00018	0.0023	0.0048	0.000021	0.00005	0.016	0.0000055	2.6	0.00016	0.00014	0.00057	0.022	
		July		14	0.17	5.2	3.4	0.029	1.8	0.036	0.25	0.0032	0.0052	0.00016	0.0018	0.0046	0.00002	0.00005	0.014	0.0000054	2.5	0.00015	0.00013	0.00055	0.02	
		August		14	0.16	5.2	3.4	0.029	1.8	0.036	0.25	0.0032	0.0052	0.00016	0.0018	0.0046	0.000021	0.000051	0.014	0.0000055	2.5	0.00015	0.00013	0.00055	0.021	
		September		14	0.15	5.2	3.3	0.029	1.8	0.034	0.23	0.0031	0.0053	0.00016	0.0017	0.0046	0.000021	0.000051	0.014	0.0000054	2.5	0.00015	0.00013	0.00055	0.02	
		October		14	0.14	5.2	3.3	0.029	1.8	0.032	0.22	0.003	0.0053	0.00015	0.0016	0.0046	0.000021	0.000051	0.014	0.0000054	2.5	0.00014	0.00013	0.00054	0.02	
		November		14	0.14	5.2	3.3	0.029	1.8	0.032	0.22	0.003	0.0053	0.00015	0.0016	0.0046	0.000021	0.000051	0.014	0.0000054	2.5	0.00014	0.00013	0.00054	0.02	
		December		14	0.14	5.2	3.3	0.029	1.8	0.032	0.22	0.003	0.0053	0.00015	0.0016	0.0046	0.000021	0.000051	0.014	0.0000054	2.5	0.00014	0.00013	0.00054	0.02	
		January	2031	14	0.14	5.2	3.3	0.029	1.8	0.032	0.22	0.003	0.0053	0.00015	0.0016	0.0046	0.000021	0.000051	0.014	0.0000054	2.5	0.00014	0.00013	0.00054	0.02	
		February		14	0.14	5.2	3.3	0.029	1.8	0.032	0.22	0.003	0.0053	0.00015	0.0016	0.0046</										

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.007	
Constituent				Pb ⁵	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Ti	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Lake (South Basin)	Closure, no mine contact water discharge	January	2028	0.00013	0.0015	1.0	0.024	0.0000074	0.00041	0.0028	0.99	0.00017	0.000015	2.0	0.026	0.000013	0.00012	0.00016	0.00068	0.0018
		February		0.00013	0.0015	1.0	0.024	0.0000074	0.00041	0.0028	0.99	0.00017	0.000015	2.0	0.026	0.000013	0.00012	0.00016	0.00068	0.0018
		March		0.00013	0.0015	1.0	0.024	0.0000074	0.00041	0.0028	0.99	0.00017	0.000015	2.0	0.026	0.000013	0.00012	0.00016	0.00068	0.0018
		April		0.00013	0.0015	1.0	0.024	0.0000074	0.00041	0.0028	0.99	0.00017	0.000015	2.0	0.026	0.000013	0.00012	0.00016	0.00068	0.0018
		May		0.00013	0.0015	1.0	0.024	0.0000074	0.00041	0.0028	0.99	0.00017	0.000015	2.0	0.026	0.000013	0.00012	0.00016	0.00068	0.0018
		June		0.00012	0.0014	0.97	0.02	0.0000069	0.00035	0.0024	0.89	0.00015	0.000014	1.7	0.024	0.000012	0.00011	0.00014	0.00065	0.0017
		July		0.0001	0.0013	0.91	0.016	0.0000065	0.00029	0.002	0.79	0.00013	0.000013	1.5	0.022	0.000012	0.00011	0.00012	0.00061	0.0016
		August		0.0001	0.0013	0.92	0.016	0.0000066	0.00028	0.002	0.78	0.00013	0.000013	1.5	0.022	0.000012	0.00011	0.00012	0.00062	0.0016
		September		0.00010	0.0013	0.91	0.015	0.0000065	0.00027	0.0019	0.76	0.00012	0.000013	1.4	0.021	0.000012	0.00011	0.00011	0.00061	0.0016
		October		0.000097	0.0013	0.9	0.014	0.0000064	0.00026	0.0019	0.74	0.00012	0.000013	1.4	0.021	0.000011	0.00011	0.00011	0.0006	0.0015
		November		0.000097	0.0013	0.9	0.014	0.0000064	0.00026	0.0019	0.74	0.00012	0.000013	1.4	0.021	0.000011	0.00011	0.00011	0.0006	0.0015
		December		0.000097	0.0013	0.9	0.014	0.0000064	0.00026	0.0019	0.74	0.00012	0.000013	1.4	0.021	0.000011	0.00011	0.00011	0.0006	0.0015
		January	2029	0.000097	0.0013	0.9	0.014	0.0000064	0.00026	0.0019	0.74	0.00012	0.000013	1.4	0.021	0.000011	0.00011	0.00011	0.0006	0.0015
		February		0.000097	0.0013	0.9	0.014	0.0000064	0.00026	0.0019	0.74	0.00012	0.000013	1.4	0.021	0.000011	0.00011	0.00011	0.0006	0.0015
		March		0.000097	0.0013	0.9	0.014	0.0000064	0.00026	0.0019	0.74	0.00012	0.000013	1.4	0.021	0.000011	0.00011	0.00011	0.0006	0.0015
		April		0.000097	0.0013	0.9	0.014	0.0000064	0.00026	0.0019	0.74	0.00012	0.000013	1.4	0.021	0.000011	0.00011	0.00011	0.0006	0.0015
		May		0.000097	0.0013	0.9	0.014	0.0000064	0.00026	0.0019	0.74	0.00012	0.000013	1.4	0.021	0.000011	0.00011	0.00011	0.0006	0.0015
		June		0.000089	0.0012	0.86	0.012	0.0000061	0.00022	0.0016	0.68	0.00011	0.000012	1.2	0.02	0.000011	0.00011	0.000092	0.00058	0.0015
		July		0.000082	0.0012	0.83	0.0098	0.0000059	0.00018	0.0014	0.62	0.000095	0.000012	1.1	0.018	0.000011	0.0001	0.00008	0.00056	0.0014
		August		0.000082	0.0012	0.83	0.0097	0.0000059	0.00018	0.0014	0.62	0.000095	0.000012	1.1	0.019	0.000011	0.00011	0.000079	0.00057	0.0014
		September		0.00008	0.0012	0.83	0.0092	0.0000059	0.00017	0.0014	0.61	0.000092	0.000012	1.0	0.018	0.000011	0.00011	0.000076	0.00056	0.0014
		October		0.000079	0.0012	0.82	0.0087	0.0000058	0.00017	0.0013	0.59	0.00009	0.000012	1.0	0.018	0.000011	0.00011	0.000074	0.00056	0.0014
		November		0.000079	0.0012	0.82	0.0087	0.0000058	0.00017	0.0013	0.59	0.00009	0.000012	1.0	0.018	0.000011	0.00011	0.000074	0.00056	0.0014
		December		0.000079	0.0012	0.82	0.0087	0.0000058	0.00017	0.0013	0.59	0.00009	0.000012	1.0	0.018	0.000011	0.00011	0.000074	0.00056	0.0014
		January	2030	0.000079	0.0012	0.82	0.0087	0.0000058	0.00017	0.0013	0.59	0.00009	0.000012	1.0	0.018	0.000011	0.00011	0.000074	0.00056	0.0014
		February		0.000079	0.0012	0.82	0.0087	0.0000058	0.00017	0.0013	0.59	0.00009	0.000012	1.0	0.018	0.000011	0.00011	0.000074	0.00056	0.0014
		March		0.000079	0.0012	0.82	0.0087	0.0000058	0.00017	0.0013	0.59	0.00009	0.000012	1.0	0.018	0.000011	0.00011	0.000074	0.00056	0.0014
		April		0.000079	0.0012	0.82	0.0087	0.0000058	0.00017	0.0013	0.59	0.00009	0.000012	1.0	0.018	0.000011	0.00011	0.000074	0.00056	0.0014
		May		0.000079	0.0012	0.82	0.0087	0.0000058	0.00017	0.0013	0.59	0.00009	0.000012	1.0	0.018	0.000011	0.00011	0.000074	0.00056	0.0014
		June		0.000074	0.0011	0.8	0.0074	0.0000056	0.00015	0.0012	0.56	0.000082	0.000011	0.92	0.017	0.000011	0.0001	0.000066	0.00055	0.0013
		July		0.00007	0.0011	0.78	0.0062	0.0000055	0.00013	0.0011	0.52	0.000076	0.000011	0.84	0.017	0.00001	0.0001	0.000059	0.00053	0.0013
		August		0.00007	0.0011	0.79	0.0062	0.0000055	0.00013	0.0011	0.53	0.000076	0.000011	0.85	0.017	0.000011	0.0001	0.000059	0.00054	0.0013
		September		0.000069	0.0011	0.78	0.0059	0.0000055	0.00012	0.0011	0.52	0.000074	0.000011	0.83	0.017	0.000011	0.0001	0.000057	0.00054	0.0013
		October		0.000068	0.0011	0.78	0.0056	0.0000055	0.00012	0.001	0.51	0.000073	0.000011	0.81	0.016	0.000011	0.0001	0.000056	0.00054	0.0013
		November		0.000068	0.0011	0.78	0.0056	0.0000055	0.00012	0.001	0.51	0.000073	0.000011	0.81	0.016	0.000011	0.0001	0.000056	0.00054	0.0013
		December		0.000068	0.0011	0.78	0.0056	0.0000055	0.00012	0.001	0.51	0.000073	0.000011	0.81	0.016	0.000011	0.0001	0.000056	0.00054	0.0013
		January	2031	0.000068	0.0011	0.78	0.0056	0.0000055	0.00012	0.001	0.51	0.000073	0.000011	0.81	0.016	0.000011	0.0001	0.000056	0.00054	0.0013
		February		0.000068	0.0011	0.78	0.0056	0.0000055	0.00012	0.001	0.51	0.000073	0.000011	0.81	0.016	0.000011	0.0001	0.000056	0.00054	0.0013
		March		0.000068	0.0011	0.78	0.0056	0.0000055	0.00012	0.001	0.51	0.000073	0.000011	0.81	0.016	0.000011	0.0001	0.000056	0.00054	0.0013
		April		0.000068	0.0011	0.78	0.0056	0.0000055	0.00012	0.001	0.51	0.000073	0.000011	0.81	0.016	0.000011	0.0001	0.000056	0.00054	0.0013
		May		0.000068	0.0011	0.78	0.0056	0.0000055	0.00012	0.001	0.51	0.000073	0.000011	0.81	0.016	0.000011	0.0001	0.000056	0.00054	0.0013
		June		0.000065	0.0011	0.76	0.0049	0.0000054	0.0001	0.00095	0.49	0.000068	0.000011	0.76	0.016	0.00001	0.0001	0.000051	0.00053	0.0012
		July		0.000063	0.001	0.75	0.0042	0.0000053	0.000093	0.00088	0.47	0.000064	0.000011	0.71	0.015	0.00001	0.0001	0.000047	0.00052	0.0012
		August		0.000063	0.0011	0.76	0.0042	0.0000053	0.000093	0.00088	0.47	0.000065	0.000011	0.72	0.016	0.00001	0.0001	0.000047	0.00052	0.0012
		September		0.000063	0.0011	0.76	0.004	0.0000053	0.00009	0.00087	0.47	0.000064	0.000011	0.71	0.016	0.00001	0.0001	0.000046	0.00052	0.0012
		October		0.000062	0.0011	0.76	0.0039	0.0000053	0.000088	0.00085	0.47	0.000063	0.000011	0.7	0.015	0.00001	0.0001	0.000045	0.00052	0.0012
		November		0.000062	0.0011	0.76	0.0039	0.0000053	0.000088	0.00085	0.47	0.000063	0.000011	0.7	0.015	0.00001	0.0001	0.000045	0.00052	0.0012
		December		0.000062	0.0011	0.76	0.0039	0.0000053	0.000088	0.00085	0.47	0.000063	0.000011	0.7	0.015	0.00001	0.0001	0.000045	0.00052	0.0012
		January	2032	0.000062	0.0011	0.76	0.0039	0.0000053	0.000088	0.00085	0.47	0.000063	0.000011	0.7						

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Ar ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁵	Ca	Co	Cu ⁶	Fe	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Lake (South Basin)	Closure, no mine contact water discharge	January	2033	12	0.047	4.8	2.9	0.027	1.5	0.015	0.073	0.0024	0.0053	0.00012	0.00063	0.0043	0.00002	0.00005	0.011	0.0000052	2.2	0.00011	0.00011	0.0005	0.017
		February		12	0.047	4.8	2.9	0.027	1.5	0.015	0.073	0.0024	0.0053	0.00012	0.00063	0.0043	0.00002	0.00005	0.011	0.0000052	2.2	0.00011	0.00011	0.0005	0.017
		March		12	0.047	4.8	2.9	0.027	1.5	0.015	0.073	0.0024	0.0053	0.00012	0.00063	0.0043	0.00002	0.00005	0.011	0.0000052	2.2	0.00011	0.00011	0.0005	0.017
		April		12	0.047	4.8	2.9	0.027	1.5	0.015	0.073	0.0024	0.0053	0.00012	0.00063	0.0043	0.00002	0.00005	0.011	0.0000052	2.2	0.00011	0.00011	0.0005	0.017
		May		12	0.047	4.8	2.9	0.027	1.5	0.015	0.073	0.0024	0.0053	0.00012	0.00063	0.0043	0.00002	0.00005	0.011	0.0000052	2.2	0.00011	0.00011	0.0005	0.017
		June		11	0.038	4.7	2.8	0.027	1.5	0.013	0.061	0.0023	0.0053	0.00011	0.00054	0.0042	0.00002	0.00005	0.011	0.0000051	2.2	0.00011	0.00011	0.0005	0.017
		July		11	0.03	4.6	2.7	0.027	1.4	0.012	0.05	0.0023	0.0053	0.00011	0.00046	0.0042	0.00002	0.00005	0.011	0.0000051	2.2	0.00011	0.00011	0.00049	0.016
		August		11	0.03	4.7	2.8	0.027	1.5	0.012	0.049	0.0023	0.0053	0.00011	0.00046	0.0042	0.00002	0.00005	0.011	0.0000051	2.2	0.00011	0.00011	0.00049	0.016
		September		11	0.028	4.7	2.8	0.027	1.5	0.011	0.046	0.0023	0.0054	0.00011	0.00044	0.0042	0.00002	0.00005	0.011	0.0000051	2.2	0.00011	0.00011	0.0005	0.016
		October		11	0.026	4.7	2.8	0.027	1.4	0.011	0.044	0.0023	0.0054	0.00011	0.00042	0.0042	0.00002	0.00005	0.011	0.0000051	2.2	0.00011	0.00011	0.00049	0.016
		November		11	0.026	4.7	2.8	0.027	1.4	0.011	0.044	0.0023	0.0054	0.00011	0.00042	0.0042	0.00002	0.00005	0.011	0.0000051	2.2	0.00011	0.00011	0.00049	0.016
		December		11	0.026	4.7	2.8	0.027	1.4	0.011	0.044	0.0023	0.0054	0.00011	0.00042	0.0042	0.00002	0.00005	0.011	0.0000051	2.2	0.00011	0.00011	0.00049	0.016
		January	2034	11	0.026	4.7	2.8	0.027	1.4	0.011	0.044	0.0023	0.0054	0.00011	0.00042	0.0042	0.00002	0.00005	0.011	0.0000051	2.2	0.00011	0.00011	0.00049	0.016
		February		11	0.026	4.7	2.8	0.027	1.4	0.011	0.044	0.0023	0.0054	0.00011	0.00042	0.0042	0.00002	0.00005	0.011	0.0000051	2.2	0.00011	0.00011	0.00049	0.016
		March		11	0.026	4.7	2.8	0.027	1.4	0.011	0.044	0.0023	0.0054	0.00011	0.00042	0.0042	0.00002	0.00005	0.011	0.0000051	2.2	0.00011	0.00011	0.00049	0.016
		April		11	0.026	4.7	2.8	0.027	1.4	0.011	0.044	0.0023	0.0054	0.00011	0.00042	0.0042	0.00002	0.00005	0.011	0.0000051	2.2	0.00011	0.00011	0.00049	0.016
		May		11	0.026	4.7	2.8	0.027	1.4	0.011	0.044	0.0023	0.0054	0.00011	0.00042	0.0042	0.00002	0.00005	0.011	0.0000051	2.2	0.00011	0.00011	0.00049	0.016
		June		11	0.022	4.6	2.7	0.026	1.4	0.01	0.037	0.0022	0.0053	0.00011	0.00037	0.0042	0.00002	0.00005	0.011	0.000005	2.2	0.00011	0.0001	0.00049	0.016
		July		11	0.017	4.6	2.7	0.026	1.4	0.0092	0.03	0.0022	0.0053	0.00011	0.00032	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016
		August		11	0.017	4.6	2.7	0.027	1.4	0.0093	0.03	0.0022	0.0053	0.00011	0.00032	0.0042	0.00002	0.00005	0.011	0.0000051	2.2	0.00011	0.0001	0.00049	0.016
		September		11	0.016	4.6	2.7	0.027	1.4	0.0091	0.029	0.0022	0.0054	0.00011	0.00031	0.0042	0.00002	0.00005	0.011	0.0000051	2.2	0.00011	0.0001	0.00049	0.016
		October		11	0.015	4.6	2.7	0.027	1.4	0.0089	0.027	0.0022	0.0054	0.00011	0.0003	0.0042	0.00002	0.00005	0.01	0.0000051	2.2	0.0001	0.0001	0.00049	0.016
		November		11	0.015	4.6	2.7	0.027	1.4	0.0089	0.027	0.0022	0.0054	0.00011	0.0003	0.0042	0.00002	0.00005	0.01	0.0000051	2.2	0.0001	0.0001	0.00049	0.016
		December		11	0.015	4.6	2.7	0.027	1.4	0.0089	0.027	0.0022	0.0054	0.00011	0.0003	0.0042	0.00002	0.00005	0.01	0.0000051	2.2	0.0001	0.0001	0.00049	0.016
		January	2035	11	0.015	4.6	2.7	0.027	1.4	0.0089	0.027	0.0022	0.0054	0.00011	0.0003	0.0042	0.00002	0.00005	0.01	0.0000051	2.2	0.0001	0.0001	0.00049	0.016
		February		11	0.015	4.6	2.7	0.027	1.4	0.0089	0.027	0.0022	0.0054	0.00011	0.0003	0.0042	0.00002	0.00005	0.01	0.0000051	2.2	0.0001	0.0001	0.00049	0.016
		March		11	0.015	4.6	2.7	0.027	1.4	0.0089	0.027	0.0022	0.0054	0.00011	0.0003	0.0042	0.00002	0.00005	0.01	0.0000051	2.2	0.0001	0.0001	0.00049	0.016
		April		11	0.015	4.6	2.7	0.027	1.4	0.0089	0.027	0.0022	0.0054	0.00011	0.0003	0.0042	0.00002	0.00005	0.01	0.0000051	2.2	0.0001	0.0001	0.00049	0.016
		May		11	0.015	4.6	2.7	0.027	1.4	0.0089	0.027	0.0022	0.0054	0.00011	0.0003	0.0042	0.00002	0.00005	0.01	0.0000051	2.2	0.0001	0.0001	0.00049	0.016
		June		11	0.012	4.6	2.7	0.026	1.4	0.0083	0.023	0.0022	0.0053	0.0001	0.00027	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016
		July		11	0.0098	4.6	2.7	0.026	1.4	0.0079	0.02	0.0021	0.0053	0.0001	0.00025	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016
		August		11	0.0097	4.6	2.7	0.026	1.4	0.0079	0.019	0.0022	0.0054	0.0001	0.00025	0.0042	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00049	0.016
		September		11	0.0091	4.6	2.7	0.027	1.4	0.0078	0.018	0.0022	0.0054	0.0001	0.00024	0.0042	0.00002	0.00005	0.01	0.0000051	2.1	0.0001	0.0001	0.00049	0.016
		October		11	0.0085	4.6	2.7	0.026	1.4	0.0077	0.018	0.0022	0.0054	0.0001	0.00024	0.0042	0.00002	0.00005	0.01	0.0000051	2.1	0.0001	0.0001	0.00049	0.016
		November		11	0.0085	4.6	2.7	0.026	1.4	0.0077	0.018	0.0022	0.0054	0.0001	0.00024	0.0042	0.00002	0.00005	0.01	0.0000051	2.1	0.0001	0.0001	0.00049	0.016
		December		11	0.0085	4.6	2.7	0.026	1.4	0.0077	0.018	0.0022	0.0054	0.0001	0.00024	0.0042	0.00002	0.00005	0.01	0.0000051	2.1	0.0001	0.0001	0.00049	0.016
		January	2036	11	0.0085	4.6	2.7	0.026	1.4	0.0077	0.018	0.0022	0.0054	0.0001	0.00024	0.0042	0.00002	0.00005	0.01	0.0000051	2.1	0.0001	0.0001	0.00049	0.016
		February		11	0.0085	4.6	2.7	0.026	1.4	0.0077	0.018	0.0022	0.0054												

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.007	
Constituent				Pb ³	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Ti	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Lake (South Basin)	Closure, no mine contact water discharge	January	2033	0.000059	0.001	0.74	0.0029	0.0000052	0.000072	0.00076	0.44	0.000058	0.00001	0.63	0.015	0.00001	0.0001	0.000039	0.00051	0.0012
		February		0.000059	0.001	0.74	0.0029	0.0000052	0.000072	0.00076	0.44	0.000058	0.00001	0.63	0.015	0.00001	0.0001	0.000039	0.00051	0.0012
		March		0.000059	0.001	0.74	0.0029	0.0000052	0.000072	0.00076	0.44	0.000058	0.00001	0.63	0.015	0.00001	0.0001	0.000039	0.00051	0.0012
		April		0.000059	0.001	0.74	0.0029	0.0000052	0.000072	0.00076	0.44	0.000058	0.00001	0.63	0.015	0.00001	0.0001	0.000039	0.00051	0.0012
		May		0.000059	0.001	0.74	0.0029	0.0000052	0.000072	0.00076	0.44	0.000058	0.00001	0.63	0.015	0.00001	0.0001	0.000039	0.00051	0.0012
		June		0.000058	0.001	0.73	0.0026	0.0000051	0.000067	0.00073	0.43	0.000056	0.00001	0.62	0.015	0.00001	0.0001	0.000038	0.00051	0.0011
		July		0.000057	0.001	0.73	0.0024	0.0000051	0.000064	0.00071	0.42	0.000054	0.00001	0.6	0.015	0.00001	0.00010	0.000036	0.0005	0.0011
		August		0.000057	0.001	0.73	0.0024	0.0000051	0.000064	0.00071	0.43	0.000055	0.00001	0.6	0.015	0.00001	0.0001	0.000037	0.00051	0.0011
		September		0.000057	0.001	0.74	0.0023	0.0000052	0.000063	0.00071	0.43	0.000055	0.00001	0.6	0.015	0.00001	0.0001	0.000036	0.00051	0.0011
		October		0.000057	0.001	0.73	0.0023	0.0000051	0.000062	0.0007	0.42	0.000054	0.00001	0.6	0.015	0.00001	0.0001	0.000036	0.00051	0.0011
		November		0.000057	0.001	0.73	0.0023	0.0000051	0.000062	0.0007	0.42	0.000054	0.00001	0.6	0.015	0.00001	0.0001	0.000036	0.00051	0.0011
		December		0.000057	0.001	0.73	0.0023	0.0000051	0.000062	0.0007	0.42	0.000054	0.00001	0.6	0.015	0.00001	0.0001	0.000036	0.00051	0.0011
		January	2034	0.000057	0.001	0.73	0.0023	0.0000051	0.000062	0.0007	0.42	0.000054	0.00001	0.6	0.015	0.00001	0.0001	0.000036	0.00051	0.0011
		February		0.000057	0.001	0.73	0.0023	0.0000051	0.000062	0.0007	0.42	0.000054	0.00001	0.6	0.015	0.00001	0.0001	0.000036	0.00051	0.0011
		March		0.000057	0.001	0.73	0.0023	0.0000051	0.000062	0.0007	0.42	0.000054	0.00001	0.6	0.015	0.00001	0.0001	0.000036	0.00051	0.0011
		April		0.000057	0.001	0.73	0.0023	0.0000051	0.000062	0.0007	0.42	0.000054	0.00001	0.6	0.015	0.00001	0.0001	0.000036	0.00051	0.0011
		May		0.000057	0.001	0.73	0.0023	0.0000051	0.000062	0.0007	0.42	0.000054	0.00001	0.6	0.015	0.00001	0.0001	0.000036	0.00051	0.0011
		June		0.000056	0.001	0.73	0.0021	0.0000051	0.00006	0.00069	0.42	0.000053	0.00001	0.59	0.014	0.00001	0.0001	0.000035	0.0005	0.0011
		July		0.000056	0.001	0.72	0.002	0.0000051	0.000058	0.00067	0.41	0.000052	0.00001	0.58	0.014	0.000010	0.00010	0.000034	0.0005	0.0011
		August		0.000056	0.001	0.73	0.002	0.0000051	0.000058	0.00068	0.42	0.000053	0.00001	0.58	0.014	0.00001	0.0001	0.000034	0.00051	0.0011
		September		0.000056	0.001	0.73	0.002	0.0000051	0.000058	0.00068	0.42	0.000053	0.00001	0.58	0.015	0.00001	0.0001	0.000034	0.00051	0.0011
		October		0.000056	0.001	0.73	0.002	0.0000051	0.000057	0.00067	0.41	0.000053	0.00001	0.58	0.014	0.00001	0.0001	0.000034	0.00051	0.0011
		November		0.000056	0.001	0.73	0.002	0.0000051	0.000057	0.00067	0.41	0.000053	0.00001	0.58	0.014	0.00001	0.0001	0.000034	0.00051	0.0011
		December		0.000056	0.001	0.73	0.002	0.0000051	0.000057	0.00067	0.41	0.000053	0.00001	0.58	0.014	0.00001	0.0001	0.000034	0.00051	0.0011
		January	2035	0.000056	0.001	0.73	0.002	0.0000051	0.000057	0.00067	0.41	0.000053	0.00001	0.58	0.014	0.00001	0.0001	0.000034	0.00051	0.0011
		February		0.000056	0.001	0.73	0.002	0.0000051	0.000057	0.00067	0.41	0.000053	0.00001	0.58	0.014	0.00001	0.0001	0.000034	0.00051	0.0011
		March		0.000056	0.001	0.73	0.002	0.0000051	0.000057	0.00067	0.41	0.000053	0.00001	0.58	0.014	0.00001	0.0001	0.000034	0.00051	0.0011
		April		0.000056	0.001	0.73	0.002	0.0000051	0.000057	0.00067	0.41	0.000053	0.00001	0.58	0.014	0.00001	0.0001	0.000034	0.00051	0.0011
		May		0.000056	0.001	0.73	0.002	0.0000051	0.000057	0.00067	0.41	0.000053	0.00001	0.58	0.014	0.00001	0.0001	0.000034	0.00051	0.0011
		June		0.000055	0.001	0.72	0.0019	0.0000051	0.000056	0.00066	0.41	0.000052	0.00001	0.57	0.014	0.00001	0.00010	0.000033	0.0005	0.0011
		July		0.000055	0.0010	0.72	0.0018	0.000005	0.000054	0.00065	0.41	0.000051	0.00001	0.56	0.014	0.000010	0.00010	0.000033	0.0005	0.0011
		August		0.000055	0.001	0.73	0.0018	0.0000051	0.000055	0.00066	0.41	0.000052	0.00001	0.57	0.014	0.00001	0.0001	0.000033	0.0005	0.0011
		September		0.000056	0.001	0.73	0.0018	0.0000051	0.000055	0.00066	0.41	0.000052	0.00001	0.57	0.014	0.00001	0.0001	0.000033	0.00051	0.0011
		October		0.000056	0.001	0.73	0.0018	0.0000051	0.000054	0.00065	0.41	0.000052	0.00001	0.57	0.014	0.00001	0.0001	0.000033	0.00051	0.0011
		November		0.000056	0.001	0.73	0.0018	0.0000051	0.000054	0.00065	0.41	0.000052	0.00001	0.57	0.014	0.00001	0.0001	0.000033	0.00051	0.0011
		December		0.000056	0.001	0.73	0.0018	0.0000051	0.000054	0.00065	0.41	0.000052	0.00001	0.57	0.014	0.00001	0.0001	0.000033	0.00051	0.0011
		January	2036	0.000056	0.001	0.73	0.0018	0.0000051	0.000054	0.00065	0.41	0.000052	0.00001	0.57	0.014	0.00001	0.0001	0.000033	0.00051	0.0011
		February		0.000056	0.001	0.73	0.0018	0.0000051	0.000054	0.00065	0.41	0.000052	0.00001	0.57	0.014	0.00001	0.0001	0.000033	0.00051	0.0011
		March		0.000056	0.001	0.73	0.0018	0.0000051	0.000054	0.00065	0.41	0.000052	0.00001	0.57	0.014	0.00001	0.0001	0.000033	0.00051	0.0011
		April		0.000056	0.001	0.73	0.0018	0.0000051	0.000054	0.00065	0.41	0.000052	0.00001	0.57	0.014	0.00001	0.0001	0.000033	0.00051	0.0011
		May		0.000056	0.001	0.73	0.0018	0.0000051	0.000054	0.00065	0.41	0.000052	0.00001	0.57	0.014	0.00001	0.0001	0.000033	0.00051	0.0011
		June		0.000055	0.001	0.72	0.0017	0.000005	0.000053	0.00065	0.41	0.000051	0.00001	0.56	0.014	0.000010	0.00010	0.000032	0.0005	0.0011
		July		0.000055	0.0010	0.72	0.0017	0.000005	0.000052	0.00064	0.4	0.000051	0.000010	0.55	0.014	0.000010	0.00010	0.000032	0.0005	0.0011
		August		0.000055	0.001	0.72	0.0017	0.0000051	0.000053	0.00065	0.41	0.000051	0.00001	0.56	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		September		0.000055	0.001	0.73	0.0017	0.0000051	0.000053	0.00065	0.41	0.000051	0.00001	0.56	0.014	0.00001	0.0001	0.000032	0.00051	0.0011
		October		0.000055	0.001	0.73	0.0017	0.0000051	0.000053	0.00064	0.41	0.000051	0.00001	0.56	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		November		0.000055	0.001	0.73	0.0017	0.0000051	0.000053	0.00064	0.41	0.000051	0.00001	0.56	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		December		0.000055	0.001	0.73	0.0017	0.0000051	0.000053	0.00064	0.41	0.000051	0.00001	0.56	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		January	2037	0.000055	0.001	0.73	0.0017	0.0000051	0.000053	0.00064	0.41	0.0.								

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0	
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3	
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Ar ⁴	Sb	As ⁵	Ba	Be	Bi	B	Cd ⁶	Ca	Co	Cr ⁷	Co	Cu ⁸	Fe
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Lake (South Basin)	Closure, no mine contact water discharge	January	2038	11	0.0027	4.6	2.7	0.026	1.4	0.0067	0.0092	0.0021	0.0054	0.0001	0.00018	0.0042	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		February		11	0.0027	4.6	2.7	0.026	1.4	0.0067	0.0092	0.0021	0.0054	0.0001	0.00018	0.0042	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		March		11	0.0027	4.6	2.7	0.026	1.4	0.0067	0.0092	0.0021	0.0054	0.0001	0.00018	0.0042	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		April		11	0.0027	4.6	2.7	0.026	1.4	0.0067	0.0092	0.0021	0.0054	0.0001	0.00018	0.0042	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		May		11	0.0027	4.6	2.7	0.026	1.4	0.0067	0.0092	0.0021	0.0054	0.0001	0.00018	0.0042	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		June		11	0.0023	4.5	2.6	0.026	1.4	0.0065	0.0084	0.0021	0.0053	0.0001	0.00017	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.015	
		July		11	0.0018	4.5	2.6	0.026	1.4	0.0064	0.0077	0.0021	0.0053	0.0001	0.00017	0.0041	0.00002	0.00005	0.010	0.000005	2.1	0.00010	0.00010	0.00048	0.015	
		August		11	0.0018	4.6	2.6	0.026	1.4	0.0065	0.0078	0.0021	0.0054	0.0001	0.00017	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		September		11	0.0017	4.6	2.7	0.026	1.4	0.0065	0.0076	0.0021	0.0054	0.0001	0.00017	0.0042	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		October		11	0.0016	4.6	2.6	0.026	1.4	0.0064	0.0075	0.0021	0.0054	0.0001	0.00016	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		November		11	0.0016	4.6	2.6	0.026	1.4	0.0064	0.0075	0.0021	0.0054	0.0001	0.00016	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		December		11	0.0016	4.6	2.6	0.026	1.4	0.0064	0.0075	0.0021	0.0054	0.0001	0.00016	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		January	2039	11	0.0016	4.6	2.6	0.026	1.4	0.0064	0.0075	0.0021	0.0054	0.0001	0.00016	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		February		11	0.0016	4.6	2.6	0.026	1.4	0.0064	0.0075	0.0021	0.0054	0.0001	0.00016	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		March		11	0.0016	4.6	2.6	0.026	1.4	0.0064	0.0075	0.0021	0.0054	0.0001	0.00016	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		April		11	0.0016	4.6	2.6	0.026	1.4	0.0064	0.0075	0.0021	0.0054	0.0001	0.00016	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		May		11	0.0016	4.6	2.6	0.026	1.4	0.0064	0.0075	0.0021	0.0054	0.0001	0.00016	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		June		11	0.0013	4.5	2.6	0.026	1.4	0.0063	0.007	0.0021	0.0053	0.0001	0.00016	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.015	
		July		11	0.001	4.5	2.6	0.026	1.4	0.0063	0.0066	0.0021	0.0053	0.00010	0.00016	0.0041	0.00002	0.00005	0.010	0.000005	2.1	0.00010	0.00010	0.00048	0.015	
		August		11	0.001	4.6	2.6	0.026	1.4	0.0063	0.0066	0.0021	0.0054	0.0001	0.00016	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		September		11	0.00094	4.6	2.6	0.026	1.4	0.0063	0.0066	0.0021	0.0054	0.0001	0.00016	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		October		11	0.00089	4.6	2.6	0.026	1.4	0.0063	0.0065	0.0021	0.0054	0.0001	0.00016	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		November		11	0.00089	4.6	2.6	0.026	1.4	0.0063	0.0065	0.0021	0.0054	0.0001	0.00016	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		December		11	0.00089	4.6	2.6	0.026	1.4	0.0063	0.0065	0.0021	0.0054	0.0001	0.00016	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
	January	2040	11	0.00089	4.6	2.6	0.026	1.4	0.0063	0.0065	0.0021	0.0054	0.0001	0.00016	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
	February		11	0.00089	4.6	2.6	0.026	1.4	0.0063	0.0065	0.0021	0.0054	0.0001	0.00016	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
	March		11	0.00089	4.6	2.6	0.026	1.4	0.0063	0.0065	0.0021	0.0054	0.0001	0.00016	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
	April		11	0.00089	4.6	2.6	0.026	1.4	0.0063	0.0065	0.0021	0.0054	0.0001	0.00016	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
	May		11	0.00089	4.6	2.6	0.026	1.4	0.0063	0.0065	0.0021	0.0054	0.0001	0.00016	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
	June		11	0.00073	4.5	2.6	0.026	1.4	0.0062	0.0062	0.0021	0.0053	0.0001	0.00016	0.0041	0.00002	0.00005	0.010	0.000005	2.1	0.00010	0.00010	0.00048	0.015		
	July		10	0.00058	4.5	2.6	0.026	1.4	0.0062	0.006	0.0021	0.0053	0.00010	0.00015	0.0041	0.00002	0.00005	0.010	0.000005	2.1	0.00010	0.00010	0.00048	0.015		
	August		11	0.00057	4.6	2.6	0.026	1.4	0.0062	0.006	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
	September		11	0.00054	4.6	2.6	0.026	1.4	0.0063	0.006	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
	October		11	0.0005	4.6	2.6	0.026	1.4	0.0062	0.0059	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
	November		11	0.0005	4.6	2.6	0.026	1.4	0.0062	0.0059	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
	December		11	0.0005	4.6	2.6	0.026	1.4	0.0062	0.0059	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
	January	2041	11	0.0005	4.6	2.6	0.026	1.4	0.0062	0.0059	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
	February		11	0.0005	4.6	2.6	0.026	1.4	0.0062	0.																

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Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025		0.0008		0.015		0.007	
Constituent				Pb ³	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Ti	Sn	U	V	Zn
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Lake (South Basin)	Closure, no mine contact water discharge	January	2038	0.000055	0.001	0.73	0.0016	0.0000051	0.000052	0.00064	0.41	0.000051	0.00001	0.56	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		February		0.000055	0.001	0.73	0.0016	0.0000051	0.000052	0.00064	0.41	0.000051	0.00001	0.56	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		March		0.000055	0.001	0.73	0.0016	0.0000051	0.000052	0.00064	0.41	0.000051	0.00001	0.56	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		April		0.000055	0.001	0.73	0.0016	0.0000051	0.000052	0.00064	0.41	0.000051	0.00001	0.56	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		May		0.000055	0.001	0.73	0.0016	0.0000051	0.000052	0.00064	0.41	0.000051	0.00001	0.56	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		June		0.000054	0.0010	0.72	0.0016	0.000005	0.000051	0.00063	0.4	0.00005	0.000010	0.55	0.014	0.000010	0.00010	0.000032	0.0005	0.0011
		July		0.000054	0.0010	0.72	0.0016	0.000005	0.000051	0.00063	0.4	0.00005	0.000010	0.55	0.014	0.0000099	0.000099	0.000032	0.0005	0.0011
		August		0.000055	0.001	0.72	0.0016	0.0000051	0.000051	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		September		0.000055	0.001	0.73	0.0016	0.0000051	0.000051	0.00064	0.41	0.000051	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		October		0.000055	0.001	0.72	0.0016	0.0000051	0.000051	0.00064	0.4	0.000051	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		November		0.000055	0.001	0.72	0.0016	0.0000051	0.000051	0.00064	0.4	0.000051	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		December		0.000055	0.001	0.72	0.0016	0.0000051	0.000051	0.00064	0.4	0.000051	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		January	2039	0.000055	0.001	0.72	0.0016	0.0000051	0.000051	0.00064	0.4	0.000051	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		February		0.000055	0.001	0.72	0.0016	0.0000051	0.000051	0.00064	0.4	0.000051	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		March		0.000055	0.001	0.72	0.0016	0.0000051	0.000051	0.00064	0.4	0.000051	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		April		0.000055	0.001	0.72	0.0016	0.0000051	0.000051	0.00064	0.4	0.000051	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		May		0.000055	0.001	0.72	0.0016	0.0000051	0.000051	0.00064	0.4	0.000051	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		June		0.000054	0.0010	0.72	0.0016	0.000005	0.00005	0.00063	0.4	0.00005	0.000010	0.55	0.014	0.000010	0.00010	0.000032	0.0005	0.0011
		July		0.000054	0.00099	0.72	0.0015	0.000005	0.00005	0.00063	0.4	0.00005	0.0000099	0.55	0.014	0.0000099	0.000099	0.000031	0.0005	0.0011
		August		0.000055	0.001	0.72	0.0016	0.0000051	0.000051	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		September		0.000055	0.001	0.73	0.0016	0.0000051	0.000051	0.00063	0.4	0.000051	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		October		0.000055	0.001	0.72	0.0016	0.0000051	0.000051	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		November		0.000055	0.001	0.72	0.0016	0.0000051	0.000051	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		December		0.000055	0.001	0.72	0.0016	0.0000051	0.000051	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		January	2040	0.000055	0.001	0.72	0.0016	0.0000051	0.000051	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		February		0.000055	0.001	0.72	0.0016	0.0000051	0.000051	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		March		0.000055	0.001	0.72	0.0016	0.0000051	0.000051	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		April		0.000055	0.001	0.72	0.0016	0.0000051	0.000051	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		May		0.000055	0.001	0.72	0.0016	0.0000051	0.000051	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		June		0.000054	0.0010	0.72	0.0015	0.000005	0.00005	0.00063	0.4	0.00005	0.000010	0.55	0.014	0.000010	0.00010	0.000031	0.0005	0.0011
		July		0.000054	0.00099	0.72	0.0015	0.000005	0.00005	0.00063	0.4	0.00005	0.0000099	0.55	0.014	0.0000099	0.000099	0.000031	0.0005	0.0011
		August		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		September		0.000055	0.001	0.73	0.0016	0.0000051	0.000051	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		October		0.000055	0.001	0.72	0.0016	0.0000051	0.000051	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		November		0.000055	0.001	0.72	0.0016	0.0000051	0.000051	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		December		0.000055	0.001	0.72	0.0016	0.0000051	0.000051	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		January	2041	0.000055	0.001	0.72	0.0016	0.0000051	0.000051	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		February		0.000055	0.001	0.72	0.0016	0.0000051	0.000051	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		March		0.000055	0.001	0.72	0.0016	0.0000051	0.000051	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		April		0.000055	0.001	0.72	0.0016	0.0000051	0.000051	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		May		0.000055	0.001	0.72	0.0016	0.0000051	0.000051	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		June		0.000054	0.0010	0.72	0.0015	0.000005	0.00005	0.00063	0.4	0.00005	0.000010	0.55	0.014	0.000010	0.00010	0.000031	0.0005	0.0011
		July		0.000054	0.00099	0.72	0.0015	0.000005	0.00005	0.00062	0.4	0.00005	0.0000099	0.55	0.014	0.0000099	0.000099	0.000031	0.0005	0.0011
		August		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		September		0.000055	0.001	0.73	0.0015	0.0000051	0.000051	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		October		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		November		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		December		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
	Closure, fully flooded pit lake	January	2042	0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.000			

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Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0	
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3	
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Ar ⁴	Sb	As ⁵	Ba	Be	Bi	B	Cd ⁶	Ca	Co	Cr ⁷	Co	Cu ⁸	Fe
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Lake (South Basin)	Closure, fully flooded pit lake	January	2043	11	0.00016	4.6	2.6	0.026	1.4	0.0062	0.0054	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		February		11	0.00016	4.6	2.6	0.026	1.4	0.0062	0.0054	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		March		11	0.00016	4.6	2.6	0.026	1.4	0.0062	0.0054	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		April		11	0.00016	4.6	2.6	0.026	1.4	0.0062	0.0054	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		May		11	0.00016	4.6	2.6	0.026	1.4	0.0062	0.0054	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		June		11	0.00013	4.5	2.6	0.026	1.4	0.0061	0.0053	0.0021	0.0053	0.00010	0.00015	0.0041	0.00002	0.00005	0.010	0.000005	2.1	0.00010	0.00010	0.00048	0.015	
		July		10	0.00011	4.5	2.6	0.026	1.4	0.0061	0.0053	0.0021	0.0053	0.000099	0.00015	0.0041	0.00002	0.00005	0.0099	0.000005	2.1	0.000099	0.000099	0.00048	0.015	
		August		11	0.0001	4.6	2.6	0.026	1.4	0.0062	0.0053	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		September		11	0.000098	4.6	2.6	0.026	1.4	0.0062	0.0053	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		October		11	0.000092	4.6	2.6	0.026	1.4	0.0062	0.0053	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		November		11	0.000092	4.6	2.6	0.026	1.4	0.0062	0.0053	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		December		11	0.000092	4.6	2.6	0.026	1.4	0.0062	0.0053	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		January	2044	11	0.000092	4.6	2.6	0.026	1.4	0.0062	0.0053	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		February		11	0.000092	4.6	2.6	0.026	1.4	0.0062	0.0053	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		March		11	0.000092	4.6	2.6	0.026	1.4	0.0062	0.0053	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		April		11	0.000092	4.6	2.6	0.026	1.4	0.0062	0.0053	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		May		11	0.000092	4.6	2.6	0.026	1.4	0.0062	0.0053	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		June		11	0.000076	4.5	2.6	0.026	1.4	0.0061	0.0052	0.0021	0.0053	0.00010	0.00015	0.0041	0.00002	0.00005	0.010	0.000005	2.1	0.00010	0.00010	0.00048	0.015	
		July		10	0.00006	4.5	2.6	0.026	1.4	0.0061	0.0052	0.0021	0.0053	0.000099	0.00015	0.0041	0.00002	0.00005	0.0099	0.000005	2.1	0.000099	0.000099	0.00048	0.015	
		August		11	0.00006	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		September		11	0.000056	4.6	2.6	0.026	1.4	0.0062	0.0053	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		October		11	0.000052	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		November		11	0.000052	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		December		11	0.000052	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		January	2045	11	0.000052	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		February		11	0.000052	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		March		11	0.000052	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		April		11	0.000052	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		May		11	0.000052	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		June		11	0.000043	4.5	2.6	0.026	1.4	0.0061	0.0052	0.0021	0.0053	0.00010	0.00015	0.0041	0.00002	0.00005	0.010	0.000005	2.1	0.00010	0.00010	0.00048	0.015	
		July		10	0.000034	4.5	2.6	0.026	1.4	0.0061	0.0052	0.0021	0.0053	0.000099	0.00015	0.0041	0.00002	0.00005	0.0099	0.000005	2.1	0.000099	0.000099	0.00048	0.015	
		August		11	0.000034	4.6	2.6	0.026	1.4	0.0061	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		September		11	0.000032	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		October		11	0.00003	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		November		11	0.00003	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		December		11	0.00003	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		January	2046	11	0.00003	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001			

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[https://olderassociates.sharepoint.com/sites/102627/Technical Work/Reporting/Water Quality Report/Appendix C/14May2019/6_Figure1_MAM_WTS_DS1_DS2_14May2019](https://olderassociates.sharepoint.com/sites/102627/Technical%20Work/Reporting/Water%20Quality%20Report/Appendix%20C/14May2019/6_Figure1_MAM_WTS_DS1_DS2_14May2019)

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1						0.002		0.02		0.1	1.0	
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3		
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Ar ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁵	Ca	Co	Cr ⁷	Co	Cu ⁶	Fe	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Whale Tail Lake (South Basin)	Closure, fully flooded pit lake	January	2048	11	0.0000096	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		February		11	0.0000096	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		March		11	0.0000096	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		April		11	0.0000096	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		May		11	0.0000096	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		June		11	0.0000079	4.5	2.6	0.026	1.4	0.0061	0.0051	0.0021	0.0053	0.00010	0.00015	0.0041	0.00002	0.00005	0.010	0.000005	2.1	0.00010	0.00010	0.00048	0.015		
		July		10	0.0000063	4.5	2.6	0.026	1.4	0.0061	0.0051	0.0021	0.0053	0.000099	0.00015	0.0041	0.00002	0.00005	0.0099	0.000005	2.1	0.000099	0.000099	0.00048	0.015		
		August		11	0.0000062	4.6	2.6	0.026	1.4	0.0061	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		September		11	0.0000058	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		October		11	0.0000055	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		November		11	0.0000055	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		December		11	0.0000055	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		January	2049	11	0.0000055	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		February		11	0.0000055	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		March		11	0.0000055	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		April		11	0.0000055	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		May		11	0.0000055	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		June		11	0.0000045	4.5	2.6	0.026	1.4	0.0061	0.0051	0.0021	0.0053	0.00010	0.00015	0.0041	0.00002	0.00005	0.010	0.000005	2.1	0.00010	0.00010	0.00048	0.015		
		July		10	0.0000036	4.5	2.6	0.026	1.4	0.0061	0.0051	0.0021	0.0053	0.000099	0.00015	0.0041	0.00002	0.00005	0.0099	0.000005	2.1	0.000099	0.000099	0.00048	0.015		
		August		11	0.0000035	4.6	2.6	0.026	1.4	0.0061	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		September		11	0.0000033	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		October		11	0.0000031	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		November		11	0.0000031	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		December		11	0.0000031	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		January	≥2050	11	0.0000031	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		February		11	0.0000031	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		March		11	0.0000031	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		April		11	0.0000031	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		May		11	0.0000031	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		June		11	0.0000025	4.5	2.6	0.026	1.4	0.0061	0.0051	0.0021	0.0053	0.00010	0.00015	0.0041	0.00002	0.00005	0.010	0.000005	2.1	0.00010	0.00010	0.00048	0.015		
		July		10	0.000002	4.5	2.6	0.026	1.4	0.0061	0.0051	0.0021	0.0053	0.000099	0.00015	0.0041	0.00002	0.00005	0.0099	0.000005	2.1	0.000099	0.000099	0.00048	0.015		
		August		11	0.000002	4.6	2.6	0.026	1.4	0.0061	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		September		11	0.0000019	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		October		11	0.0000018	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		November		11	0.0000018	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		December		11	0.0000018	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016		
		MINIMUM			10	0.0000018	4.5	2.6	0.026	1.4	0.0061	0.0051	0.0021	0.0053	0.000099	0.00015	0.0041	0.00002	0.00005	0.0099	0.000005	2.1	0.000099	0.000099	0.00048	0.015	
		MAXIMUM			11	0.00029	4.6	2.6	0.026	1.4	0.0062	0.0056	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	
		AVERAGE			11	0.000057	4.6	2.6	0.026	1.4	0.0062	0.0052	0.0021	0.0054	0.0001	0.00015	0.0041	0.00002	0.00005	0.01	0.000005	2.1	0.0001	0.0001	0.00048	0.016	

Notes:
¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells
²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type
³CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed
⁴CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.
⁵CEQG Freshwater aquatic life criteria for chromium depends on the valence of chromium ion. In the above table, the Cr(VI) criterion of 0.001 mg/L is shown.
⁶CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.
⁷The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1		
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025		0.0008		0.015		0.007		
Constituent				Pb ³	Li	Mg	Mn	Hg	Mo	Ni ⁴	K	Se	Ag	Na	Sr	Ti	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Whale Tail Lake (South Basin)	Closure, fully flooded pit lake	January	2048	0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		February		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		March		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		April		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		May		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		June		0.000054	0.0010	0.72	0.0015	0.000005	0.00005	0.00063	0.4	0.00005	0.000010	0.55	0.014	0.000010	0.00010	0.000031	0.0005	0.0011	
		July		0.000054	0.00099	0.72	0.0015	0.000005	0.00005	0.00062	0.4	0.00005	0.0000099	0.54	0.014	0.0000099	0.000099	0.000031	0.0005	0.0011	
		August		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		September		0.000055	0.001	0.73	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		October		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		November		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		December		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		January	2049	0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		February		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		March		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		April		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		May		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		June		0.000054	0.0010	0.72	0.0015	0.000005	0.00005	0.00063	0.4	0.00005	0.000010	0.55	0.014	0.000010	0.00010	0.000031	0.0005	0.0011	
		July		0.000054	0.00099	0.72	0.0015	0.000005	0.00005	0.00062	0.4	0.00005	0.0000099	0.54	0.014	0.0000099	0.000099	0.000031	0.0005	0.0011	
		August		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		September		0.000055	0.001	0.73	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		October		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		November		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		December		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		January	≥2050	0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		February		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		March		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		April		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		May		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		June		0.000054	0.0010	0.72	0.0015	0.000005	0.00005	0.00063	0.4	0.00005	0.000010	0.55	0.014	0.000010	0.00010	0.000031	0.0005	0.0011	
		July		0.000054	0.00099	0.72	0.0015	0.000005	0.00005	0.00062	0.4	0.00005	0.0000099	0.54	0.014	0.0000099	0.000099	0.000031	0.0005	0.0011	
		August		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		September		0.000055	0.001	0.73	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		October		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		November		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		December		0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011	
		MINIMUM			0.000054	0.00099	0.72	0.0015	0.000005	0.00005	0.00062	0.4	0.00005	0.0000099	0.54	0.014	0.0000099	0.000099	0.000031	0.0005	0.0011
		MAXIMUM			0.000055	0.001	0.73	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011
		AVERAGE			0.000055	0.001	0.72	0.0015	0.0000051	0.00005	0.00063	0.4	0.00005	0.00001	0.55	0.014	0.00001	0.0001	0.000032	0.0005	0.0011

Notes:

¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells

²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater Ceqg's shown in bold-underlined type

³ Ceqg Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed

⁴ Ceqg Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.

⁵ Ceqg Freshwater aquatic life criteria for chromium depends on the valence of chromium ion. In the above table, the Cr(VI) criterion of 0.001 mg/L is shown.

⁶ Ceqg Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.

⁷ The Ceqg aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0	
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3	
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁵	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁷	Co	Cu ⁸	Fe	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 1	Construction and Operations	January	2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		10	0	5.6	1.2	0.027	2.1	0.0053	0.0074	0.0021	0.0037	0.00010	0.00017	0.0055	0.00002	0.00005	0.010	0.0000052	1.9	0.00010	0.00010	0.0006	0.012	
		July		11	0	5.6	1.2	0.027	2.2	0.0054	0.0074	0.0021	0.0037	0.0001	0.00018	0.0055	0.00002	0.00005	0.01	0.0000052	2.0	0.0001	0.0001	0.0006	0.012	
		August		11	0	5.7	1.2	0.027	2.2	0.0055	0.0075	0.0021	0.0038	0.0001	0.00018	0.0056	0.00002	0.000051	0.01	0.0000053	2.0	0.0001	0.0001	0.00061	0.013	
		September		11	0	5.7	1.2	0.027	2.2	0.0055	0.0075	0.0021	0.0038	0.0001	0.00018	0.0056	0.00002	0.000051	0.01	0.0000053	2.0	0.0001	0.0001	0.00061	0.013	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		11	0.000019	5.6	1.3	0.027	2.2	0.0054	0.0075	0.0021	0.0037	0.0001	0.00018	0.0055	0.00002	0.00005	0.01	0.0000052	2.0	0.0001	0.0001	0.0006	0.013	
		July		11	0.00012	5.6	1.3	0.027	2.2	0.0054	0.0078	0.0021	0.0037	0.0001	0.00018	0.0056	0.00002	0.000051	0.01	0.0000052	2.0	0.0001	0.0001	0.0006	0.013	
		August		11	0.00019	5.7	1.3	0.027	2.2	0.0055	0.0081	0.0022	0.0038	0.0001	0.00019	0.0056	0.000021	0.000051	0.01	0.0000053	2.0	0.0001	0.0001	0.00061	0.013	
		September		11	0.00057	5.7	1.3	0.027	2.2	0.0056	0.009	0.0022	0.0038	0.0001	0.00019	0.0056	0.000021	0.000051	0.01	0.0000053	2.0	0.0001	0.0001	0.00061	0.013	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		11	0.0026	5.7	1.3	0.027	2.2	0.0056	0.012	0.0021	0.0037	0.0001	0.00021	0.0056	0.00002	0.000051	0.01	0.0000053	2.0	0.0001	0.0001	0.0006	0.013	
		July		11	0.0061	5.7	1.4	0.027	2.2	0.0058	0.017	0.0022	0.0037	0.0001	0.00024	0.0056	0.00002	0.000051	0.011	0.0000053	2.0	0.00011	0.0001	0.00061	0.013	
		August		11	0.0068	5.8	1.4	0.028	2.2	0.0059	0.018	0.0022	0.0038	0.00011	0.00025	0.0057	0.000021	0.000052	0.011	0.0000054	2.1	0.00011	0.00011	0.00062	0.013	
		September		11	0.011	5.8	1.5	0.028	2.3	0.0061	0.024	0.0023	0.0038	0.00011	0.0003	0.0057	0.000021	0.000052	0.011	0.0000054	2.1	0.00011	0.00011	0.00062	0.013	
		October		12	0.02	5.9	1.8	0.028	2.3	0.0067	0.036	0.0023	0.0037	0.00011	0.00039	0.0058	0.000021	0.000052	0.012	0.0000055	2.2	0.00012	0.00011	0.00062	0.014	
		November		12	0.021	5.9	1.8	0.028	2.3	0.0067	0.036	0.0023	0.0037	0.00011	0.0004	0.0058	0.000021	0.000052	0.012	0.0000055	2.2	0.00012	0.00011	0.00062	0.014	
		December		12	0.021	5.9	1.8	0.028	2.3	0.0067	0.037	0.0023	0.0037	0.00011	0.0004	0.0058	0.000021	0.000052	0.012	0.0000055	2.2	0.00012	0.00011	0.00062	0.014	
		January	2021	12	0.021	5.9	1.8	0.028	2.3	0.0068	0.037	0.0024	0.0037	0.00011	0.0004	0.0058	0.000021	0.000052	0.012	0.0000055	2.2	0.00012	0.00011	0.00062	0.014	
		February		12	0.021	5.9	1.8	0.028	2.3	0.0068	0.037	0.0024	0.0037	0.00011	0.00041	0.0058	0.000021	0.000052	0.012	0.0000055	2.2	0.00012	0.00011	0.00062	0.014	
		March		12	0.022	5.9	1.8	0.028	2.3	0.0068	0.038	0.0024	0.0037	0.00011	0.00041	0.0058	0.000021	0.000052	0.012	0.0000055	2.3	0.00012	0.00011	0.00062	0.014	
		April		12	0.022	5.9	1.8	0.028	2.3	0.0068	0.038	0.0024	0.0037	0.00011	0.00041	0.0058	0.000021	0.000052	0.012	0.0000055	2.3	0.00012	0.00011	0.00062	0.014	
		May		12	0.022	5.9	1.8	0.028	2.3	0.0069	0.039	0.0024	0.0037	0.00011	0.00042	0.0058	0.000021	0.000052	0.012	0.0000055	2.3	0.00012	0.00011	0.00062	0.014	
		June		12	0.024	5.9	2.0	0.028	2.3	0.0072	0.042	0.0024	0.0037	0.00011	0.00045	0.0058	0.000021	0.000051	0.012	0.0000055	2.3	0.00012	0.00011	0.00062	0.014	
		July		13	0.031	6.0	2.3	0.028	2.3	0.0081	0.051	0.0025	0.0037	0.00011	0.00054	0.0059	0.000021	0.000051	0.012	0.0000055	2.5	0.00012	0.00011	0.00063	0.014	
		August		13	0.028	6.0	2.2	0.029	2.3	0.0079	0.048	0.0025	0.0038	0.00011	0.00051	0.0059	0.000021	0.000052	0.012	0.0000056	2.5	0.00012	0.00011	0.00063	0.014	
		September		14	0.039	6.1	2.7	0.029	2.4	0.0091	0.064	0.0026	0.0037	0.00012	0.00065	0.006	0.000021	0.000052	0.013	0.0000057	2.7	0.00013	0.00012	0.00064	0.015	
		October		15	0.056	6.3	3.4	0.03	2.5	0.011	0.089	0.0028	0.0037	0.00013	0.00088	0.0062	0.000021	0.000052	0.014	0.0000059	3.0	0.00014	0.00012	0.00065	0	

[https://golderassociates.sharepoint.com/sites/102627/Technical Work/Reporting/Water Quality Report/Appendix C/14May2019/6_Effluent MAM WTS DS1 DS2_14May2019](https://golderassociates.sharepoint.com/sites/102627/Technical%20Work/Reporting/Water%20Quality%20Report/Appendix%20C/14May2019/6_Effluent_MAM_WTS_DS1_DS2_14May2019)

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0	
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3	
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁵	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁷	Co	Cu ⁸	Fe	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 1	Construction and Operations	January	2023	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		15	0.045	6.1	3.1	0.029	2.4	0.01	0.079	0.0027	0.0037	0.00012	0.00082	0.006	0.000021	0.000051	0.014	0.0000057	2.9	0.00013	0.00012	0.00064	0.015	
		July		14	0.041	6.1	2.9	0.029	2.4	0.0099	0.074	0.0027	0.0037	0.00012	0.00078	0.006	0.000021	0.000051	0.013	0.0000057	2.8	0.00013	0.00012	0.00064	0.015	
		August		14	0.038	6.1	2.8	0.029	2.4	0.0096	0.069	0.0027	0.0038	0.00012	0.00074	0.006	0.000021	0.000052	0.013	0.0000057	2.7	0.00013	0.00012	0.00064	0.015	
		September		14	0.042	6.2	2.9	0.029	2.4	0.01	0.077	0.0027	0.0038	0.00012	0.00081	0.006	0.000021	0.000052	0.013	0.0000057	2.8	0.00013	0.00012	0.00064	0.015	
		October		0.49	0.0017	0.2	0.11	0.00096	0.08	0.00036	0.003	0.000092	0.00012	0.0000042	0.000031	0.0002	0.00000068	0.0000017	0.00046	0.00000019	0.096	0.0000044	0.000004	0.000021	0.00052	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		14	0.038	6.0	2.6	0.029	2.4	0.0096	0.072	0.0026	0.0037	0.00012	0.00076	0.0059	0.000021	0.000051	0.013	0.0000056	2.6	0.00013	0.00012	0.00063	0.015	
		July		13	0.035	6.0	2.4	0.029	2.3	0.0094	0.069	0.0026	0.0038	0.00012	0.00073	0.0059	0.000021	0.000051	0.013	0.0000056	2.5	0.00012	0.00012	0.00063	0.015	
		August		13	0.032	6.0	2.3	0.029	2.4	0.0092	0.064	0.0026	0.0038	0.00012	0.00069	0.0059	0.000021	0.000052	0.013	0.0000056	2.5	0.00012	0.00012	0.00064	0.015	
		September		13	0.037	6.1	2.4	0.029	2.4	0.0099	0.074	0.0027	0.0038	0.00012	0.00078	0.0059	0.000021	0.000052	0.013	0.0000057	2.5	0.00013	0.00012	0.00064	0.015	
		October		0.45	0.0016	0.2	0.087	0.00095	0.078	0.00037	0.003	0.00009	0.00012	0.0000042	0.000031	0.00019	0.00000068	0.0000017	0.00043	0.00000018	0.086	0.0000043	0.0000039	0.000021	0.00052	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		13	0.038	6.0	2.2	0.029	2.3	0.01	0.077	0.0026	0.0038	0.00012	0.00078	0.0058	0.000021	0.000051	0.012	0.0000056	2.4	0.00012	0.00012	0.00063	0.015	
		July		13	0.038	6.0	2.1	0.029	2.3	0.011	0.078	0.0026	0.0038	0.00012	0.00078	0.0058	0.000021	0.000051	0.012	0.0000055	2.4	0.00012	0.00012	0.00063	0.015	
		August		13	0.036	6.0	2.0	0.029	2.4	0.011	0.074	0.0026	0.0038	0.00012	0.00074	0.0059	0.000021	0.000052	0.012	0.0000056	2.4	0.00012	0.00012	0.00064	0.015	
		September		13	0.043	6.0	2.1	0.029	2.4	0.012	0.088	0.0027	0.0038	0.00013	0.00085	0.0059	0.000021	0.000052	0.013	0.0000056	2.4	0.00013	0.00012	0.00064	0.015	
		October		0.44	0.0019	0.2	0.075	0.00095	0.078	0.00046	0.0037	0.000091	0.00012	0.0000043	0.000034	0.00019	0.00000068	0.0000017	0.00043	0.00000018	0.08	0.0000043	0.0000039	0.000021	0.00052	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			MINIMUM	0.44	0.000019	0.2	0.075	0.00095	0.078	0.00036	0.003	0.00009	0.00012	0.0000042	0.000031	0.00019	0.00000068	0.0000017	0.00043	0.00000018	0.08	0.0000043	0.0000039	0.000021	0.00052	
			MAXIMUM	16	0.059	6.3	3.5	0.03	2.5	0.012	0.094	0.0028	0.0038	0.00013	0.00092	0.0062	0.000021	0.000052	0.015	0.0000059	3.1	0.00014	0.00013	0.00065	0.016	
			AVERAGE	12	0.03	5.5	2.1	0.026	2.2	0.0078	0.049	0.0023	0.0035	0.00011	0.00053	0.0054	0.000019	0.000048	0.011	0.0000052	2.3	0.00011	0.00011	0.00058	0.013	
	Closure	2026	January	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			February	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			March	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			April	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			June	12	0.035	5.9	1.8	0.028	2.3	0.011	0.071	0.0025	0.0038	0.00012	0.00069	0.0057	0.000021	0.000051	0.012	0.0000054	2.2	0.00012	0.00011	0.00062	0.015	
			July	12	0.026	5.8	1.6	0.028	2.3	0.0096	0.055	0.0024	0.0038	0.00011	0.00056	0.0057	0.00002	0.000051	0.011	0.0000054	2.2	0.00011	0.00011	0.00062	0.014	
			August	12	0.024	5.9	1.6	0.028	2.3	0.0094	0.052	0.0024	0.0038	0.00012	0.00053	0.0058	0.000021	0.000052	0.011	0.0000055	2.2	0.00011	0.00011	0.00063	0.014	
			September	12	0.028	5.9	1.6	0.028	2.3																	

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1			
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025		0.0008		0.015		0.007			
Constituent				Pb ⁴	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn		
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
Downstream Node 1	Construction and Operations	January	2023	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		June		0.000074	0.0011	0.75	0.0033	0.0000053	0.00014	0.00074	0.55	0.000061	0.000011	0.88	0.011	0.00001	0.00014	0.000053	0.00052	0.0011		
		July		0.000073	0.0011	0.75	0.0031	0.0000053	0.00013	0.00073	0.54	0.00006	0.000011	0.86	0.011	0.00001	0.00014	0.00005	0.00052	0.0011		
		August		0.000073	0.0011	0.75	0.0029	0.0000053	0.00012	0.00072	0.55	0.00006	0.000011	0.86	0.011	0.00001	0.00014	0.000049	0.00053	0.0012		
		September		0.000074	0.0011	0.76	0.0032	0.0000053	0.00013	0.00074	0.55	0.000061	0.000011	0.87	0.011	0.000011	0.00014	0.000051	0.00053	0.0012		
		October		0.0000025	0.000036	0.025	0.00012	0.00000017	0.0000048	0.000025	0.018	0.000002	0.00000035	0.03	0.00038	0.00000034	0.0000044	0.0000018	0.000017	0.000038		
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		June		0.000072	0.0011	0.74	0.0029	0.0000052	0.00012	0.00071	0.54	0.000059	0.000011	0.84	0.011	0.00001	0.00013	0.000047	0.00052	0.0011		
		July		0.000071	0.0011	0.73	0.0027	0.0000052	0.00011	0.0007	0.53	0.000059	0.000011	0.82	0.011	0.00001	0.00013	0.000045	0.00052	0.0011		
		August		0.000071	0.0011	0.73	0.0025	0.0000053	0.00011	0.0007	0.54	0.000059	0.000011	0.81	0.011	0.00001	0.00014	0.000044	0.00053	0.0011		
		September		0.000072	0.0011	0.74	0.0028	0.0000053	0.00011	0.00072	0.54	0.00006	0.000011	0.83	0.011	0.00001	0.00014	0.000046	0.00053	0.0011		
		October		0.0000024	0.000035	0.024	0.00011	0.00000017	0.000004	0.000025	0.018	0.000002	0.00000035	0.028	0.00036	0.00000034	0.0000044	0.0000016	0.000017	0.000038		
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		January	2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.000071	0.0011	0.72	0.0027	0.0000052	0.0001	0.00071	0.54	0.000059	0.000011	0.81	0.011	0.00001	0.00013	0.000043	0.00052	0.0011		
		July		0.000071	0.0011	0.71	0.0026	0.0000052	0.000099	0.0007	0.53	0.000059	0.000011	0.8	0.01	0.00001	0.00013	0.000042	0.00052	0.0011		
		August		0.000071	0.0011	0.72	0.0025	0.0000053	0.000096	0.0007	0.54	0.000059	0.000011	0.8	0.01	0.00001	0.00014	0.000041	0.00053	0.0011		
		September		0.000072	0.0011	0.73	0.0028	0.0000053	0.0001	0.00073	0.55	0.00006	0.000011	0.82	0.011	0.000011	0.00014	0.000043	0.00053	0.0011		
		October		0.0000024	0.000035	0.024	0.00011	0.00000017	0.0000037	0.000025	0.018	0.000002	0.00000035	0.028	0.00036	0.00000034	0.0000044	0.0000016	0.000017	0.000038		
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			MINIMUM	0.0000024	0.000035	0.024	0.00011	0.00000017	0.0000037	0.000025	0.018	0.000002	0.00000035	0.028	0.00036	0.00000034	0.0000044	0.0000016	0.000017	0.000038		
			MAXIMUM	0.000077	0.0011	0.79	0.0038	0.0000054	0.00016	0.0008	0.57	0.000065	0.000011	0.95	0.012	0.000011	0.00014	0.000059	0.00054	0.0012		
			AVERAGE	0.000065	0.00099	0.67	0.0021	0.0000049	0.000094	0.00063	0.49	0.000053	0.0000098	0.74	0.0096	0.0000096	0.00013	0.000038	0.00048	0.001		
	Closure	2026	January	2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			June		0.000069	0.001	0.7	0.0022	0.0000052	0.000087	0.00068	0.53	0.000058	0.00001	0.76	0.010	0.00001	0.00013	0.000038	0.00052	0.0011	
			July		0.000067	0.001	0.68	0.0018	0.0000052	0.000077	0.00064	0.52	0.000056	0.00001	0.73	0.0096	0.00001	0.00014	0.000034	0.00052	0.0011	
			August		0.000068	0.0011	0.69	0.0017	0.0000052	0.000075	0.00064	0.52	0.000056	0.00001	0.74	0.0096	0.00001	0.00014	0.000034	0.00052	0.0011	
			September		0.000068	0.0011	0.69	0.0019	0.0000052	0.000078	0.00065	0.52	0.000057	0.000011	0.74	0.0097	0.00001	0.00014	0.000035	0.00052	0.0011	
			October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2027	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.000067	0.001	0.68	0.0018	0.0000052	0.000075	0.00064	0.52	0.000056	0.00001	0.73	0.0095	0.00001	0.00014	0.000034	0.00052	0.0011		
		July		0.000067	0.001	0.68	0.0016	0.0000052	0.000071	0.00063	0.51	0.000055	0.00001	0.72	0.0094	0.00001	0.00014	0.000033	0.00052	0.0011		
		August		0.000067	0.001	0.68	0.0016	0.0000052	0.00007	0.00063	0.52	0.000056	0.00001	0.72	0.0095	0.00001	0.00014	0.000032	0.00052	0.0011		
		September		0.000068	0.0011	0.69	0.0017	0.0000052	0.000073	0.00064	0.52	0.000056	0.00001	0.73	0.0096	0.00001	0.00014	0.000033	0.00052	0.0011		
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0	
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3	
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁵	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁷	Co	Cu ⁸	Fe	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 1	Closure	January	2028	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		11	0.024	5.8	1.5	0.028	2.3	0.0095	0.05	0.0024	0.0038	0.00011	0.0005	0.0057	0.00002	0.000051	0.011	0.0000054	2.1	0.00011	0.00011	0.00062	0.014	
		July		11	0.021	5.8	1.5	0.028	2.2	0.009	0.044	0.0023	0.0038	0.00011	0.00045	0.0057	0.00002	0.000051	0.011	0.0000054	2.1	0.00011	0.00011	0.00062	0.014	
		August		11	0.019	5.9	1.4	0.028	2.3	0.0088	0.041	0.0023	0.0038	0.00011	0.00044	0.0057	0.000021	0.000052	0.011	0.0000054	2.1	0.00011	0.00011	0.00063	0.014	
		September		12	0.022	5.9	1.5	0.028	2.3	0.0093	0.046	0.0024	0.0038	0.00011	0.00047	0.0057	0.000021	0.000052	0.011	0.0000054	2.1	0.00011	0.00011	0.00063	0.014	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2029	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		11	0.021	5.8	1.4	0.028	2.2	0.009	0.044	0.0023	0.0038	0.00011	0.00045	0.0057	0.00002	0.000051	0.011	0.0000054	2.1	0.00011	0.00011	0.00062	0.014	
		July		11	0.018	5.8	1.4	0.028	2.2	0.0085	0.038	0.0023	0.0038	0.00011	0.00041	0.0057	0.00002	0.000051	0.011	0.0000054	2.1	0.00011	0.00011	0.00062	0.013	
		August		11	0.016	5.8	1.4	0.028	2.3	0.0084	0.036	0.0023	0.0038	0.00011	0.0004	0.0057	0.000021	0.000052	0.011	0.0000054	2.1	0.00011	0.00011	0.00063	0.014	
		September		11	0.019	5.8	1.4	0.028	2.3	0.0088	0.04	0.0023	0.0038	0.00011	0.00042	0.0057	0.000021	0.000052	0.011	0.0000054	2.1	0.00011	0.00011	0.00063	0.014	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2030	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		11	0.018	5.8	1.4	0.028	2.2	0.0085	0.038	0.0023	0.0038	0.00011	0.00041	0.0057	0.00002	0.000051	0.011	0.0000053	2.1	0.00011	0.00011	0.00062	0.013	
		July		11	0.015	5.8	1.4	0.027	2.2	0.0081	0.033	0.0023	0.0038	0.00011	0.00037	0.0057	0.00002	0.000051	0.011	0.0000053	2.1	0.00011	0.00011	0.00062	0.013	
		August		11	0.014	5.8	1.4	0.028	2.3	0.008	0.032	0.0023	0.0038	0.00011	0.00036	0.0057	0.000021	0.000052	0.011	0.0000054	2.1	0.00011	0.00011	0.00062	0.013	
		September		11	0.016	5.8	1.4	0.028	2.3	0.0083	0.035	0.0023	0.0038	0.00011	0.00038	0.0057	0.000021	0.000052	0.011	0.0000054	2.1	0.00011	0.00011	0.00062	0.014	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2031	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		11	0.015	5.8	1.4	0.027	2.2	0.0081	0.033	0.0023	0.0038	0.00011	0.00037	0.0056	0.00002	0.000051	0.011	0.0000053	2.1	0.00011	0.00011	0.00062	0.013	
		July		11	0.013	5.8	1.4	0.027	2.2	0.0077	0.029	0.0022	0.0038	0.00011	0.00034	0.0056	0.00002	0.000051	0.011	0.0000053	2.1	0.00011	0.00011	0.00062	0.013	
		August		11	0.012	5.8	1.4	0.028	2.2	0.0076	0.028	0.0023	0.0038	0.00011	0.00033	0.0057	0.000021	0.000052	0.011	0.0000054	2.1	0.00011	0.00011	0.00062	0.013	
		September		11	0.013	5.8	1.4	0.028	2.3	0.0079	0.031	0.0023	0.0038	0.00011	0.00035	0.0057	0.000021	0.000052	0.011	0.0000054	2.1	0.00011	0.00011	0.00062	0.013	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2032	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0																

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1		
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025		0.0008		0.015		0.007		
Constituent				Pb ⁴	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 1	Closure	January	2028	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.000067	0.001	0.68	0.0016	0.0000052	0.000071	0.00063	0.51	0.000055	0.00001	0.72	0.0094	0.00001	0.00014	0.000032	0.00052	0.0011	
		July		0.000066	0.001	0.67	0.0015	0.0000052	0.000068	0.00062	0.51	0.000055	0.00001	0.71	0.0093	0.00001	0.00014	0.000031	0.00052	0.0011	
		August		0.000067	0.001	0.68	0.0014	0.0000052	0.000067	0.00062	0.52	0.000055	0.00001	0.71	0.0094	0.00001	0.00014	0.000031	0.00052	0.0011	
		September		0.000067	0.001	0.68	0.0015	0.0000052	0.000069	0.00063	0.52	0.000056	0.00001	0.72	0.0095	0.00001	0.00014	0.000032	0.00052	0.0011	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2029	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		0.000066	0.001	0.67	0.0015	0.0000052	0.000067	0.00062	0.51	0.000055	0.00001	0.71	0.0093	0.00001	0.00014	0.000031	0.00051	0.0011	
		July		0.000066	0.001	0.67	0.0013	0.0000052	0.000065	0.00061	0.51	0.000054	0.00001	0.7	0.0093	0.00001	0.00014	0.00003	0.00052	0.0011	
		August		0.000067	0.001	0.68	0.0013	0.0000052	0.000064	0.00061	0.51	0.000055	0.00001	0.71	0.0093	0.00001	0.00014	0.00003	0.00052	0.0011	
		September		0.000067	0.001	0.68	0.0014	0.0000052	0.000066	0.00062	0.52	0.000055	0.00001	0.71	0.0094	0.00001	0.00014	0.000031	0.00052	0.0011	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2030	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		0.000066	0.001	0.67	0.0013	0.0000052	0.000064	0.00061	0.51	0.000054	0.00001	0.7	0.0093	0.00001	0.00014	0.00003	0.00051	0.0011	
		July		0.000066	0.001	0.67	0.0012	0.0000052	0.000062	0.0006	0.51	0.000054	0.00001	0.69	0.0092	0.00001	0.00014	0.000029	0.00051	0.0011	
		August		0.000066	0.001	0.68	0.0012	0.0000052	0.000062	0.00061	0.51	0.000054	0.00001	0.7	0.0093	0.00001	0.00014	0.000029	0.00052	0.0011	
		September		0.000066	0.001	0.68	0.0013	0.0000052	0.000063	0.00061	0.51	0.000054	0.00001	0.7	0.0093	0.00001	0.00014	0.00003	0.00052	0.0011	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2031	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		0.000065	0.001	0.67	0.0012	0.0000051	0.000062	0.0006	0.51	0.000054	0.00001	0.69	0.0092	0.00001	0.00014	0.000029	0.00051	0.0011	
		July		0.000065	0.001	0.67	0.0011	0.0000051	0.00006	0.00059	0.51	0.000053	0.00001	0.69	0.0092	0.00001	0.00014	0.000029	0.00051	0.0011	
		August		0.000066	0.001	0.68	0.0011	0.0000052	0.00006	0.0006	0.51	0.000054	0.00001	0.69	0.0092	0.00001	0.00014	0.000029	0.00052	0.0011	
		September		0.000066	0.001	0.68	0.0012	0.0000052	0.000061	0.0006	0.51	0.000054	0.00001	0.7	0.0093	0.00001	0.00014	0.000029	0.00052	0.0011	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2032	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		0.000065	0.001	0.67	0.0011	0.0000051	0.00006	0.00059	0.51	0.000053	0.00001	0.69	0.0092	0.00001	0.00014	0.000029	0.00051	0.0011	
		July		0.000065	0.001	0.67	0.0011	0.0000051	0.000059	0.00059	0.5	0.000053	0.00001	0.68	0.0091	0.00001	0.00014	0.000028	0.00051	0.0011	
		August		0.000066	0.001	0.68	0.001	0.0000052	0.000059	0.00059	0.51	0.000053	0.00001	0.69	0.0092	0.00001	0.00014	0.000028	0.00052	0.0011	
		September		0.000066	0.001	0.68	0.0011	0.0000052	0.00006	0.0006	0.51	0.000054	0.00001	0.69	0.0093	0.00001	0.00014	0.000029	0.00052	0.0011	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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[https://goldcorp.sharepoint.com/sites/102627/Technical Work/Reporting/Water Quality Report/Appendix C/14May2019/8_Filluent_MAM_WTS_DS1_DS2_14May2019](https://goldcorp.sharepoint.com/sites/102627/Technical%20Work/Reporting/Water%20Quality%20Report/Appendix%20C/14May2019/8_Filluent_MAM_WTS_DS1_DS2_14May2019)

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1		
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025		0.0008		0.015		0.007		
Constituent				Pb ⁴	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 1	Closure	January	2033	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.000065	0.001	0.67	0.0011	0.0000051	0.000059	0.00059	0.5	0.000053	0.00001	0.68	0.0091	0.00001	0.00014	0.000028	0.00051	0.0011	
		July		0.000065	0.001	0.67	0.001	0.0000051	0.000058	0.00058	0.5	0.000053	0.00001	0.68	0.0091	0.00001	0.00014	0.000028	0.00051	0.0011	
		August		0.000066	0.001	0.67	0.00099	0.0000052	0.000058	0.00059	0.51	0.000053	0.00001	0.69	0.0092	0.00001	0.00014	0.000028	0.00052	0.0011	
		September		0.000066	0.001	0.68	0.001	0.0000052	0.000059	0.00059	0.51	0.000053	0.00001	0.69	0.0092	0.00001	0.00014	0.000028	0.00052	0.0011	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2034	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		0.000065	0.001	0.67	0.001	0.0000051	0.000058	0.00058	0.5	0.000053	0.00001	0.68	0.0091	0.00001	0.00014	0.000028	0.00051	0.0011	
		July		0.000065	0.001	0.67	0.00096	0.0000051	0.000057	0.00058	0.5	0.000052	0.00001	0.68	0.0091	0.00001	0.00014	0.000027	0.00051	0.0011	
		August		0.000066	0.001	0.67	0.00095	0.0000052	0.000057	0.00059	0.51	0.000053	0.00001	0.68	0.0092	0.00001	0.00014	0.000028	0.00052	0.0011	
		September		0.000066	0.001	0.68	0.00098	0.0000052	0.000058	0.00059	0.51	0.000053	0.00001	0.68	0.0092	0.00001	0.00014	0.000028	0.00052	0.0011	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2035	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		0.000065	0.001	0.67	0.00096	0.0000051	0.000057	0.00058	0.5	0.000052	0.00001	0.67	0.0091	0.00001	0.00014	0.000027	0.00051	0.0011	
		July		0.000065	0.001	0.67	0.00092	0.0000051	0.000056	0.00058	0.5	0.000052	0.00001	0.67	0.0091	0.00001	0.00014	0.000027	0.00051	0.0011	
		August		0.000065	0.001	0.67	0.00091	0.0000052	0.000056	0.00058	0.51	0.000053	0.00001	0.68	0.0091	0.00001	0.00014	0.000027	0.00052	0.0011	
		September		0.000065	0.001	0.68	0.00094	0.0000052	0.000057	0.00059	0.51	0.000053	0.00001	0.68	0.0092	0.00001	0.00014	0.000028	0.00052	0.0011	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2036	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		0.000065	0.001	0.67	0.00092	0.0000051	0.000056	0.00058	0.5	0.000052	0.00001	0.67	0.0091	0.00001	0.00014	0.000027	0.00051	0.0011	
		July		0.000065	0.001	0.67	0.00088	0.0000051	0.000055	0.00057	0.5	0.000052	0.00001	0.67	0.0091	0.00001	0.00014	0.000027	0.00051	0.0011	
		August		0.000065	0.001	0.67	0.00088	0.0000052	0.000056	0.00058	0.51	0.000053	0.00001	0.68	0.0091	0.00001	0.00014	0.000027	0.00052	0.0011	
		September		0.000065	0.001	0.67	0.0009	0.0000052	0.000056	0.00058	0.51	0.000053	0.00001	0.68	0.0092	0.00001	0.00014	0.000027	0.00052	0.0011	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		0.000064	0.001	0.67	0.00088	0.0000051	0.000055	0.00057	0.5	0.000052	0.00001	0.67	0.0091	0.00001	0.00014	0.000027	0.00051	0.0011	
		July		0.000064	0.001	0.67	0.00085	0.0000051	0.000055	0.00057	0.5	0.000052	0.00001	0.67	0.009	0.00001	0.00014	0.000027	0.00051	0.0011	
		August		0.000065	0.001	0.67	0.00085	0.0000052	0.000055	0.00058	0.51	0.000053	0.00001	0.68	0.0091	0.00001	0.00014	0.000027	0.00052	0.0011	
		September		0.000065	0.001	0.67	0.00087	0.0000052	0.000056	0.00058	0.51	0.000053	0.00001	0.68	0.0092	0.00001	0.00014	0.000027	0.00052	0.0011	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0	
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3	
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁵	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁷	Co	Cu ⁸	Fe	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 1	Closure	January	2038	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		11	0.0048	5.7	1.3	0.027	2.2	0.0063	0.016	0.0022	0.0038	0.0001	0.00024	0.0056	0.00002	0.000051	0.01	0.0000053	2.0	0.0001	0.0001	0.00061	0.013	
		July		11	0.0041	5.7	1.3	0.027	2.2	0.0062	0.014	0.0022	0.0038	0.0001	0.00023	0.0056	0.00002	0.000051	0.01	0.0000053	2.0	0.0001	0.0001	0.00061	0.013	
		August		11	0.0038	5.8	1.3	0.028	2.2	0.0062	0.014	0.0022	0.0038	0.00011	0.00023	0.0057	0.000021	0.000052	0.01	0.0000054	2.1	0.0001	0.0001	0.00062	0.013	
		September		11	0.0043	5.8	1.3	0.028	2.2	0.0063	0.015	0.0022	0.0038	0.00011	0.00024	0.0057	0.000021	0.000052	0.011	0.0000054	2.1	0.00011	0.0001	0.00062	0.013	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		11	0.0041	5.7	1.3	0.027	2.2	0.0062	0.014	0.0022	0.0038	0.0001	0.00023	0.0056	0.00002	0.000051	0.01	0.0000053	2.0	0.0001	0.0001	0.00061	0.013	
		July		11	0.0035	5.7	1.3	0.027	2.2	0.0061	0.013	0.0022	0.0038	0.0001	0.00023	0.0056	0.00002	0.000051	0.01	0.0000053	2.0	0.0001	0.0001	0.00061	0.013	
		August		11	0.0032	5.8	1.3	0.028	2.2	0.0061	0.013	0.0022	0.0038	0.0001	0.00022	0.0057	0.000021	0.000052	0.01	0.0000054	2.1	0.0001	0.0001	0.00062	0.013	
		September		11	0.0036	5.8	1.3	0.028	2.2	0.0062	0.014	0.0022	0.0038	0.00011	0.00023	0.0057	0.000021	0.000052	0.01	0.0000054	2.1	0.0001	0.0001	0.00062	0.013	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2040	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		11	0.0035	5.7	1.3	0.027	2.2	0.0061	0.013	0.0022	0.0038	0.0001	0.00023	0.0056	0.00002	0.000051	0.01	0.0000053	2.0	0.0001	0.0001	0.00061	0.013	
		July		11	0.0029	5.7	1.3	0.027	2.2	0.006	0.012	0.0022	0.0038	0.0001	0.00022	0.0056	0.00002	0.000051	0.01	0.0000053	2.0	0.0001	0.0001	0.00061	0.013	
		August		11	0.0027	5.8	1.3	0.028	2.2	0.006	0.012	0.0022	0.0038	0.0001	0.00022	0.0057	0.000021	0.000052	0.01	0.0000054	2.0	0.0001	0.0001	0.00062	0.013	
		September		11	0.0031	5.8	1.3	0.028	2.2	0.0061	0.013	0.0022	0.0038	0.0001	0.00022	0.0057	0.000021	0.000052	0.01	0.0000054	2.1	0.0001	0.0001	0.00062	0.013	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2041	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		11	0.0029	5.7	1.3	0.027	2.2	0.006	0.012	0.0022	0.0038	0.0001	0.00022	0.0056	0.00002	0.000051	0.01	0.0000053	2.0	0.0001	0.0001	0.00061	0.013	
		July		11	0.0025	5.7	1.3	0.027	2.2	0.0059	0.012	0.0022	0.0038	0.0001	0.00021	0.0056	0.00002	0.000051	0.01	0.0000053	2.0	0.0001	0.0001	0.00061	0.013	
		August		11	0.0023	5.8	1.3	0.028	2.2	0.006	0.012	0.0022	0.0038	0.0001	0.00021	0.0057	0.000021	0.000052	0.01	0.0000054	2.0	0.0001	0.0001	0.00062	0.013	
		September		11	0.0026	5.8	1.3	0.028	2.2	0.006	0.012	0.0022	0.0038	0.0001	0.00022	0.0057	0.000021	0.000052	0.01	0.0000054	2.1	0.0001	0.0001	0.00062	0.013	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Closure	January	2042	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1		
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025		0.0008		0.015		0.007		
Constituent				Pb ⁴	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 1	Closure	January	2038	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.000064	0.001	0.67	0.00085	0.0000051	0.000055	0.00057	0.5	0.000052	0.00001	0.67	0.0091	0.00001	0.00014	0.000027	0.00051	0.0011	
		July		0.000064	0.001	0.67	0.00083	0.0000051	0.000054	0.00057	0.5	0.000052	0.00001	0.67	0.009	0.00001	0.00014	0.000027	0.00051	0.0011	
		August		0.000065	0.001	0.67	0.00083	0.0000052	0.000055	0.00058	0.51	0.000052	0.00001	0.68	0.0091	0.00001	0.00014	0.000027	0.00052	0.0011	
		September		0.000065	0.001	0.67	0.00085	0.0000052	0.000055	0.00058	0.51	0.000053	0.00001	0.68	0.0092	0.00001	0.00014	0.000027	0.00052	0.0011	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.000064	0.001	0.67	0.00083	0.0000051	0.000054	0.00057	0.5	0.000052	0.00001	0.67	0.0091	0.00001	0.00014	0.000026	0.00051	0.0011	
		July		0.000064	0.001	0.66	0.00081	0.0000051	0.000054	0.00057	0.5	0.000052	0.00001	0.67	0.009	0.00001	0.00014	0.000026	0.00051	0.0011	
		August		0.000065	0.001	0.67	0.00081	0.0000052	0.000054	0.00057	0.51	0.000052	0.00001	0.67	0.0091	0.00001	0.00014	0.000027	0.00052	0.0011	
		September		0.000065	0.001	0.67	0.00082	0.0000052	0.000055	0.00058	0.51	0.000052	0.00001	0.67	0.0092	0.00001	0.00014	0.000027	0.00052	0.0011	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2040	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.000064	0.001	0.67	0.00081	0.0000051	0.000054	0.00057	0.5	0.000052	0.00001	0.66	0.0091	0.00001	0.00014	0.000026	0.00051	0.0011	
		July		0.000064	0.001	0.66	0.00079	0.0000051	0.000054	0.00057	0.5	0.000052	0.00001	0.66	0.009	0.00001	0.00014	0.000026	0.00051	0.0011	
		August		0.000065	0.001	0.67	0.00079	0.0000052	0.000054	0.00057	0.51	0.000052	0.00001	0.67	0.0091	0.00001	0.00014	0.000027	0.00052	0.0011	
		September		0.000065	0.001	0.67	0.00081	0.0000052	0.000054	0.00057	0.51	0.000052	0.00001	0.67	0.0092	0.00001	0.00014	0.000027	0.00052	0.0011	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2041	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.000064	0.001	0.66	0.00079	0.0000051	0.000053	0.00057	0.5	0.000052	0.00001	0.66	0.009	0.00001	0.00014	0.000026	0.00051	0.0011	
		July		0.000064	0.001	0.66	0.00078	0.0000051	0.000053	0.00057	0.5	0.000052	0.00001	0.66	0.009	0.00001	0.00014	0.000026	0.00051	0.0011	
		August		0.000065	0.001	0.67	0.00078	0.0000052	0.000054	0.00057	0.5	0.000052	0.00001	0.67	0.0091	0.00001	0.00014	0.000026	0.00052	0.0011	
		September		0.000065	0.001	0.67	0.00079	0.0000052	0.000054	0.00057	0.51	0.000052	0.00001	0.67	0.0092	0.00001	0.00014	0.000026	0.00052	0.0011	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Closure	January	2042	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		June		0.000064	0.001	0.66	0.00078	0.0000051	0.000053	0.00057	0.5	0.000051	0.00001	0.66	0.009	0.00001	0.00014	0.000026	0.00051	0.0011	
		July		0.000064	0.001	0.66	0.00076	0.0000051	0.000053	0.00056	0.5	0.000052	0.00001	0.66	0.009	0.00001	0.00014	0.000026	0.00051	0.0011	
		August		0.000065	0.001	0.67	0.00077	0.0000052	0.000054	0.00057	0.5	0.000052	0.00001	0.67	0.0091	0.00001	0.00014	0.000026	0.00052	0.0011	
		September		0.000066	0.001	0.68	0.00081	0.0000052	0.000055	0.00058	0.51	0.000053	0.00001	0.68	0.0093	0.00001	0.00014	0.000027	0.00052	0.0011	
		October		0.0000021	0.000034	0.022	0.000028	0.00000017	0.0000018	0.000019	0.017	0.0000017	0.000000034	0.022	0.00031	0.000000034	0.00000045	0.00000087	0.000017	0.000036	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0	
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3	
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁵	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁷	Co	Cu ⁸	Fe	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 1	Closure	January	2043	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		11	0.0042	5.8	1.4	0.028	2.2	0.0063	0.014	0.0022	0.0038	0.00011	0.00025	0.0057	0.000021	0.000052	0.01	0.0000054	2.1	0.0001	0.0001	0.00061	0.013	
		July		11	0.005	5.8	1.4	0.027	2.2	0.0063	0.014	0.0022	0.0038	0.00011	0.00027	0.0057	0.000021	0.000052	0.01	0.0000054	2.1	0.0001	0.0001	0.00061	0.013	
		August		11	0.005	5.8	1.4	0.028	2.3	0.0064	0.014	0.0022	0.0039	0.00011	0.00027	0.0058	0.000021	0.000052	0.011	0.0000054	2.1	0.00011	0.00011	0.00062	0.013	
		September		11	0.008	5.8	1.5	0.028	2.3	0.0067	0.017	0.0022	0.0038	0.00011	0.00034	0.0058	0.000021	0.000052	0.011	0.0000054	2.1	0.00011	0.00011	0.00062	0.013	
		October		0.38	0.00041	0.19	0.052	0.00091	0.074	0.00023	0.00067	0.000074	0.00012	0.0000036	0.000015	0.00019	0.00000068	0.0000017	0.00035	0.00000018	0.071	0.0000035	0.0000035	0.00002	0.00043	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2044	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		11	0.014	5.8	1.5	0.028	2.2	0.007	0.02	0.0022	0.0038	0.00011	0.0005	0.0057	0.000021	0.000051	0.011	0.0000054	2.1	0.00011	0.00011	0.00061	0.013	
		July		11	0.018	5.8	1.5	0.028	2.2	0.0071	0.021	0.0023	0.0037	0.00011	0.00059	0.0057	0.000021	0.000051	0.011	0.0000054	2.1	0.00011	0.00011	0.00061	0.013	
		August		11	0.017	5.8	1.5	0.028	2.3	0.0071	0.02	0.0023	0.0038	0.00011	0.00058	0.0058	0.000021	0.000052	0.011	0.0000054	2.1	0.00011	0.00011	0.00062	0.014	
		September		12	0.025	5.9	1.6	0.028	2.3	0.0077	0.025	0.0023	0.0037	0.00011	0.00076	0.0058	0.000021	0.000052	0.011	0.0000055	2.2	0.00011	0.00011	0.00062	0.014	
		October		0.38	0.0011	0.19	0.054	0.00093	0.075	0.00028	0.001	0.000078	0.00012	0.0000039	0.000033	0.00019	0.00000068	0.0000017	0.00036	0.00000018	0.071	0.0000036	0.0000036	0.00002	0.00046	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2045	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		11	0.032	5.8	1.5	0.028	2.3	0.008	0.028	0.0023	0.0037	0.00012	0.00094	0.0057	0.000021	0.000051	0.011	0.0000054	2.1	0.00011	0.00011	0.00061	0.014	
		July		11	0.033	5.8	1.5	0.028	2.3	0.0079	0.027	0.0023	0.0036	0.00012	0.00096	0.0057	0.000021	0.000051	0.011	0.0000054	2.1	0.00011	0.00011	0.00061	0.014	
		August		12	0.031	5.8	1.5	0.029	2.3	0.0079	0.027	0.0024	0.0037	0.00012	0.00093	0.0058	0.000021	0.000052	0.011	0.0000055	2.1	0.00011	0.00011	0.00062	0.014	
		September		12	0.041	5.9	1.6	0.029	2.3	0.0085	0.032	0.0024	0.0037	0.00012	0.0012	0.0058	0.000021	0.000052	0.011	0.0000055	2.2	0.00011	0.00011	0.00062	0.014	
		October		0.39	0.0018	0.19	0.054	0.00095	0.076	0.00031	0.0013	0.000081	0.00012	0.0000041	0.000049	0.00019	0.00000067	0.0000017	0.00037	0.00000018	0.071	0.0000038	0.0000038	0.00002	0.00049	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2046	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		12	0.045	5.8	1.5	0.029	2.3	0.0087	0.033	0.0024	0.0036	0.00012	0.0013	0.0057	0.000021	0.000051	0.011	0.0000054	2.1	0.00011	0.00011	0.00062	0.014	
		July		11	0.042	5.8	1.5	0.029	2.3	0.0084	0.031	0.0024	0.0036	0.00012	0.0012	0.0057	0.000021	0.000051	0.011	0.0000054	2.1	0.00011	0.00011	0.00062	0.014	
		August		12	0.04	5.9	1.5	0.029	2.3	0.0083	0.03	0.0024	0.0037	0.00012	0.0011	0.0058	0.000021	0.000052	0.011	0.0000055	2.1	0.00011	0.00011	0.00062	0.014	
		September		12	0.05	5.9	1.6	0.029	2.3	0.009	0.035	0.0025	0.0036	0.00012	0.0014	0.0058	0.000021	0.000052	0.011	0.0000055	2.2	0.00011	0.00011	0.00063	0.015	
		October		0.39	0.0021	0.19	0.054	0.00096	0.076	0.00032	0.0014	0.000082	0.00011	0.0000042	0.000057	0.00019	0.00000067	0.0000017	0.00037	0.00000018	0.071	0.0000038	0.0000038	0.00002	0.0005	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2047	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1		
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025		0.0008		0.015		0.007		
Constituent				Pb ⁴	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 1	Closure	January	2043	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.000065	0.001	0.68	0.00086	0.0000052	0.000055	0.00058	0.51	0.000052	0.00001	0.67	0.0096	0.00001	0.00014	0.000027	0.00052	0.0011	
		July		0.000065	0.001	0.68	0.0009	0.0000052	0.000055	0.00058	0.51	0.000052	0.00001	0.67	0.0096	0.00001	0.00014	0.000027	0.00052	0.0011	
		August		0.000066	0.0011	0.69	0.0009	0.0000052	0.000056	0.00059	0.51	0.000053	0.00001	0.68	0.0096	0.00001	0.00014	0.000027	0.00052	0.0011	
		September		0.000066	0.0011	0.7	0.001	0.0000053	0.000058	0.0006	0.52	0.000053	0.000011	0.69	0.0099	0.00001	0.00014	0.000028	0.00053	0.0011	
		October		0.000022	0.000034	0.023	0.00004	0.0000017	0.000002	0.00002	0.017	0.0000018	0.00000034	0.022	0.00033	0.00000034	0.0000044	0.00000096	0.000017	0.000036	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2044	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		0.000066	0.001	0.69	0.0013	0.0000052	0.000062	0.00061	0.52	0.000053	0.00001	0.68	0.0099	0.00001	0.00014	0.00003	0.00052	0.0011	
		July		0.000066	0.001	0.68	0.0014	0.0000052	0.000064	0.00061	0.52	0.000053	0.00001	0.68	0.0097	0.00001	0.00014	0.000031	0.00052	0.0011	
		August		0.000067	0.0011	0.69	0.0014	0.0000053	0.000065	0.00062	0.52	0.000054	0.00001	0.69	0.0098	0.00001	0.00014	0.000031	0.00052	0.0011	
		September		0.000067	0.0011	0.7	0.0017	0.0000053	0.00007	0.00064	0.53	0.000055	0.000011	0.7	0.01	0.00001	0.00014	0.000034	0.00053	0.0011	
		October		0.000022	0.000034	0.023	0.00007	0.0000017	0.0000025	0.000022	0.018	0.0000018	0.00000034	0.023	0.00034	0.00000034	0.0000044	0.0000012	0.000017	0.000037	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2045	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		0.000067	0.001	0.69	0.002	0.0000053	0.000075	0.00064	0.53	0.000055	0.00001	0.7	0.010	0.00001	0.00013	0.000036	0.00052	0.0011	
		July		0.000067	0.001	0.68	0.002	0.0000053	0.000075	0.00064	0.53	0.000055	0.00001	0.7	0.0098	0.00001	0.00014	0.000037	0.00052	0.0011	
		August		0.000067	0.0011	0.69	0.002	0.0000053	0.000075	0.00064	0.53	0.000055	0.00001	0.71	0.0098	0.00001	0.00014	0.000037	0.00053	0.0011	
		September		0.000068	0.0011	0.7	0.0023	0.0000054	0.000082	0.00067	0.54	0.000057	0.000011	0.72	0.01	0.00001	0.00014	0.00004	0.00053	0.0011	
		October		0.000022	0.000035	0.023	0.000095	0.0000018	0.000003	0.000023	0.018	0.0000019	0.00000034	0.024	0.00034	0.00000034	0.0000044	0.0000014	0.000017	0.000037	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2046	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		0.000067	0.001	0.69	0.0025	0.0000053	0.000084	0.00067	0.54	0.000056	0.00001	0.71	0.0099	0.00001	0.00014	0.000041	0.00052	0.0011	
		July		0.000067	0.001	0.68	0.0023	0.0000053	0.000082	0.00066	0.53	0.000056	0.00001	0.71	0.0098	0.00001	0.00014	0.00004	0.00052	0.0011	
		August		0.000068	0.0011	0.69	0.0023	0.0000053	0.000081	0.00066	0.54	0.000056	0.00001	0.71	0.0098	0.00001	0.00014	0.00004	0.00053	0.0011	
		September		0.000069	0.0011	0.7	0.0027	0.0000054	0.000089	0.00068	0.55	0.000057	0.000011	0.73	0.01	0.00001	0.00014	0.000043	0.00053	0.0011	
		October		0.000023	0.000035	0.023	0.00011	0.0000018	0.0000032	0.000023	0.018	0.0000019	0.00000034	0.024	0.00034	0.00000034	0.0000044	0.0000016	0.000017	0.000037	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2047	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		0.000068	0.001	0.69	0.0027	0.0000053	0.000089	0.00068	0.54	0.000057	0.00001	0.72	0.0099	0.00001	0.00014	0.000043	0.00053	0.0011	
		July		0.000067	0.001	0.68	0.0025	0.0000053	0.000085	0.00066	0.54	0.000056	0.00001	0.71	0.0097	0.00001	0.00014	0.000042	0.00052	0.0011	
		August		0.000068	0.0011	0.69	0.0024	0.0000053	0.000084	0.00066	0.54	0.000057	0.00001	0.72	0.0098	0.00001	0.00014	0.000041	0.00053	0.0011	
		September		0.000069	0.0011	0.7	0.0028	0.0000054	0.000091	0.00069	0.55	0.000058	0.000011	0.73	0.01	0.00001	0.00014	0.000045	0.00053	0.0011	
		October		0.000023	0.000035	0.023	0.00011	0.0000018	0.0000033	0.000024	0.018	0.0000019	0.00000034	0.024	0.00034	0.00000034	0.0000044	0.0000016	0.000017	0.000038	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0		
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3		
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁵	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁷	Co	Cu ⁸	Fe		
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
Downstream Node 1	Closure	January	2048	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		June		12	0.054	5.8	1.5	0.029	2.3	0.0089	0.036	0.0024	0.0035	0.00012	0.0015	0.0057	0.000021	0.000051	0.011	0.0000054	2.1	0.00011	0.00011	0.00062	0.015		
		July		11	0.047	5.8	1.5	0.029	2.3	0.0085	0.032	0.0024	0.0036	0.00012	0.0013	0.0057	0.00002	0.000051	0.011	0.0000054	2.1	0.00011	0.00011	0.00062	0.015		
		August		12	0.044	5.9	1.5	0.029	2.3	0.0084	0.031	0.0024	0.0036	0.00012	0.0012	0.0057	0.000021	0.000052	0.011	0.0000055	2.1	0.00011	0.00011	0.00063	0.015		
		September		12	0.054	5.9	1.5	0.029	2.3	0.009	0.035	0.0025	0.0036	0.00013	0.0015	0.0058	0.000021	0.000052	0.011	0.0000055	2.1	0.00012	0.00012	0.00063	0.015		
		October		0.39	0.0023	0.19	0.053	0.00096	0.076	0.00032	0.0014	0.000083	0.00011	0.0000043	0.00006	0.00019	0.00000067	0.0000017	0.00037	0.00000018	0.071	0.0000038	0.0000038	0.00002	0.00051		
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		January	2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		June		12	0.054	5.8	1.5	0.029	2.3	0.0088	0.035	0.0024	0.0035	0.00012	0.0014	0.0057	0.00002	0.000051	0.011	0.0000054	2.1	0.00011	0.00011	0.00062	0.015		
		July		11	0.046	5.8	1.5	0.029	2.3	0.0083	0.031	0.0024	0.0035	0.00012	0.0013	0.0057	0.00002	0.000051	0.011	0.0000054	2.1	0.00011	0.00011	0.00062	0.015		
		August		12	0.044	5.9	1.5	0.029	2.3	0.0083	0.03	0.0024	0.0036	0.00012	0.0012	0.0057	0.000021	0.000052	0.011	0.0000055	2.1	0.00011	0.00011	0.00063	0.015		
		September		12	0.053	5.9	1.5	0.029	2.3	0.0089	0.034	0.0025	0.0036	0.00013	0.0014	0.0058	0.000021	0.000052	0.011	0.0000055	2.1	0.00011	0.00011	0.00063	0.015		
		October		0.39	0.0022	0.19	0.053	0.00096	0.076	0.00032	0.0014	0.000082	0.00011	0.0000043	0.000058	0.00019	0.00000067	0.0000017	0.00037	0.00000018	0.07	0.0000038	0.0000038	0.00002	0.0005		
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		January	≥ 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		June		11	0.052	5.8	1.5	0.029	2.3	0.0087	0.033	0.0024	0.0035	0.00012	0.0014	0.0057	0.00002	0.000051	0.011	0.0000054	2.1	0.00011	0.00011	0.00062	0.015		
		July		11	0.045	5.8	1.5	0.029	2.3	0.0082	0.029	0.0024	0.0035	0.00012	0.0012	0.0057	0.00002	0.000051	0.011	0.0000054	2.1	0.00011	0.00011	0.00062	0.014		
		August		11	0.043	5.9	1.5	0.029	2.3	0.0081	0.028	0.0024	0.0036	0.00012	0.0012	0.0057	0.000021	0.000052	0.011	0.0000055	2.1	0.00011	0.00011	0.00062	0.015		
		September		12	0.052	5.9	1.5	0.029	2.3	0.0087	0.033	0.0024	0.0036	0.00012	0.0014	0.0058	0.000021	0.000052	0.011	0.0000055	2.1	0.00011	0.00011	0.00063	0.015		
		October		0.38	0.0022	0.19	0.052	0.00096	0.076	0.00031	0.0013	0.000081	0.00011	0.0000042	0.000056	0.00019	0.00000067	0.0000017	0.00037	0.00000018	0.07	0.0000038	0.0000038	0.00002	0.0005		
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		MINIMUM			0.37	0.00015	0.19	0.047	0.0009	0.073	0.00021	0.00049	0.000072	0.00011	0.0000035	0.0000081	0.00019	0.00000067	0.0000017	0.00034	0.00000018	0.069	0.0000034	0.0000034	0.00002	0.00042	
		MAXIMUM			12	0.054	5.9	1.6	0.029	2.3	0.0091	0.036	0.0025	0.0039	0.00013	0.0015	0.0058	0.000021	0.000052	0.011	0.0000055	2.2	0.00012	0.00012	0.00063	0.015	
		AVERAGE			9.2	0.027	4.7	1.2	0.023	1.8	0.0063	0.021	0.0019	0.0029	0.000094	0.00078	0.0046	0.000017	0.000041	0.0087	0.0000044	1.7	0.000089	0.000089	0.0005	0.011	

Notes:
¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells
²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type
³ CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed
⁴ CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.
⁵ CEQG Freshwater aquatic life criteria for chromium depends on the valence of chromium ion. In the above table, the Cr(VI) criterion of 0.001 mg/L is shown.
⁶ CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.
⁷ The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25										0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015		0.007	
Constituent				Pb ⁴	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 1	Closure	January	2048	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		June		0.000068	0.001	0.69	0.0028	0.0000053	0.000091	0.00068	0.54	0.000057	0.00001	0.72	0.0099	0.00001	0.00014	0.000044	0.00053	0.0011	
		July		0.000067	0.001	0.68	0.0025	0.0000053	0.000086	0.00066	0.54	0.000056	0.00001	0.71	0.0097	0.00001	0.00014	0.000042	0.00052	0.0011	
		August		0.000068	0.0011	0.69	0.0024	0.0000054	0.000085	0.00066	0.54	0.000057	0.00001	0.72	0.0098	0.00001	0.00014	0.000041	0.00053	0.0011	
		September		0.000069	0.0011	0.69	0.0028	0.0000054	0.000092	0.00069	0.55	0.000058	0.000011	0.73	0.01	0.00001	0.00014	0.000045	0.00053	0.0011	
		October		0.000023	0.000035	0.023	0.00011	0.00000018	0.0000034	0.000023	0.018	0.0000019	0.00000034	0.024	0.00034	0.00000034	0.0000044	0.0000016	0.000017	0.000038	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.000068	0.001	0.68	0.0027	0.0000053	0.000091	0.00068	0.54	0.000057	0.00001	0.72	0.0099	0.00001	0.00014	0.000044	0.00053	0.0011	
		July		0.000067	0.001	0.68	0.0024	0.0000053	0.000085	0.00066	0.54	0.000056	0.00001	0.71	0.0097	0.00001	0.00014	0.000042	0.00052	0.0011	
		August		0.000068	0.0011	0.69	0.0024	0.0000053	0.000084	0.00066	0.54	0.000056	0.00001	0.71	0.0098	0.00001	0.00014	0.000041	0.00053	0.0011	
		September		0.000068	0.0011	0.69	0.0027	0.0000054	0.000091	0.00068	0.55	0.000058	0.00001	0.72	0.010	0.00001	0.00014	0.000045	0.00053	0.0011	
		October		0.000022	0.000034	0.023	0.00011	0.00000018	0.0000033	0.000023	0.018	0.0000019	0.00000034	0.024	0.00033	0.00000034	0.0000044	0.0000016	0.000017	0.000038	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	≥ 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.000067	0.001	0.68	0.0026	0.0000053	0.00009	0.00067	0.54	0.000057	0.00001	0.71	0.0098	0.00001	0.00014	0.000044	0.00053	0.0011	
		July		0.000067	0.001	0.68	0.0024	0.0000053	0.000084	0.00065	0.53	0.000056	0.00001	0.7	0.0097	0.00001	0.00014	0.000041	0.00052	0.0011	
		August		0.000067	0.0011	0.69	0.0023	0.0000053	0.000084	0.00066	0.54	0.000056	0.00001	0.71	0.0097	0.00001	0.00014	0.000041	0.00053	0.0011	
		September		0.000068	0.0011	0.69	0.0026	0.0000054	0.00009	0.00068	0.55	0.000057	0.00001	0.72	0.010	0.00001	0.00014	0.000044	0.00053	0.0011	
		October		0.000022	0.000034	0.023	0.0001	0.00000018	0.0000033	0.000023	0.018	0.0000019	0.00000034	0.024	0.00033	0.00000034	0.0000044	0.0000016	0.000017	0.000038	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		MINIMUM			0.0000021	0.000034	0.022	0.000028	0.00000017	0.0000018	0.000019	0.017	0.0000017	0.00000034	0.022	0.00031	0.00000034	0.0000044	0.00000087	0.000017	0.000036
		MAXIMUM			0.000069	0.0011	0.7	0.0028	0.0000054	0.000092	0.00069	0.55	0.000058	0.000011	0.73	0.01	0.00001	0.00014	0.000045	0.00053	0.0011
		AVERAGE			0.000054	0.00085	0.55	0.0016	0.0000043	0.000062	0.00052	0.43	0.000045	0.0000084	0.57	0.0079	0.0000084	0.00011	0.00003	0.00042	0.0009

Notes:
¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells
²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater Ceqg's shown in bold-underlined type
³ Ceqg Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed
⁴ Ceqg Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.
⁵ Ceqg Freshwater aquatic life criteria for chromium depends on the valence of chromium ion. In the above table, the Cr(VI) criterion of 0.001 mg/L is shown.
⁶ Ceqg Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.
⁷ The Ceqg aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Site and Downstream Water Quality Model Predictions
Whale Tail Expansion Project, Meadowbank Division
Agnico-Eagle Mines Limited

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0	
CEQG aquatic life (long-term) ² (mg/L)							120	0.12				2.93	0.01	0.1		0.025			1.5	0.00004		0.001		0.002	0.3	
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁵	Co	Cu ⁶	Fe	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 2	Construction and Operations	January	2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		11	0	5.6	1.3	0.027	2.1	0.0054	0.0073	0.0021	0.0037	0.0001	0.00018	0.0055	0.00002	0.00005	0.01	0.0000052	2.0	0.0001	0.0001	0.0006	0.012	
		July		12	0	6.0	1.5	0.029	2.3	0.0058	0.0079	0.0023	0.004	0.00011	0.0002	0.006	0.000022	0.000054	0.011	0.0000056	2.2	0.00011	0.00011	0.00064	0.013	
		August		11	0	5.9	1.5	0.028	2.3	0.0058	0.0078	0.0022	0.0039	0.00011	0.0002	0.0059	0.000021	0.000053	0.011	0.0000055	2.2	0.00011	0.00011	0.00062	0.013	
		September		12	0	5.8	1.7	0.028	2.3	0.0058	0.0077	0.0022	0.0038	0.00011	0.00021	0.0058	0.000021	0.000053	0.011	0.0000055	2.2	0.00011	0.00011	0.00061	0.013	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		12	0.0001	5.8	1.9	0.028	2.3	0.0059	0.0081	0.0023	0.0037	0.00011	0.00022	0.0058	0.000021	0.000053	0.011	0.0000054	2.3	0.00011	0.00011	0.00059	0.013	
		July		12	0.00073	6.0	2.0	0.029	2.3	0.0061	0.01	0.0024	0.0038	0.00011	0.00023	0.006	0.000022	0.000055	0.011	0.0000056	2.4	0.00011	0.00011	0.00061	0.013	
		August		12	0.0011	6.0	2.0	0.029	2.3	0.0062	0.011	0.0024	0.0038	0.00011	0.00024	0.006	0.000022	0.000055	0.011	0.0000056	2.4	0.00011	0.00011	0.00061	0.013	
		September		13	0.0026	6.0	2.1	0.029	2.3	0.0063	0.015	0.0024	0.0037	0.00011	0.00025	0.006	0.000022	0.000055	0.011	0.0000056	2.4	0.00011	0.00011	0.0006	0.014	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		13	0.024	6.1	2.3	0.029	2.4	0.0073	0.053	0.0025	0.0036	0.00012	0.00045	0.006	0.000022	0.000054	0.013	0.0000057	2.5	0.00013	0.00012	0.00061	0.015	
		July		14	0.048	6.4	2.4	0.031	2.5	0.0082	0.081	0.0027	0.0037	0.00013	0.00068	0.0063	0.000022	0.000055	0.015	0.000006	2.5	0.00015	0.00013	0.00066	0.016	
		August		14	0.059	6.5	2.6	0.031	2.6	0.0087	0.096	0.0028	0.0037	0.00013	0.00079	0.0064	0.000023	0.000055	0.016	0.000006	2.6	0.00015	0.00013	0.00066	0.017	
		September		16	0.088	6.8	3.1	0.032	2.7	0.01	0.13	0.003	0.0036	0.00014	0.0011	0.0066	0.000023	0.000055	0.018	0.0000062	2.9	0.00017	0.00014	0.00067	0.018	
		October		19	0.14	7.3	4.3	0.035	3.0	0.013	0.2	0.0035	0.0035	0.00016	0.0016	0.0071	0.000024	0.000057	0.022	0.0000067	3.4	0.00021	0.00016	0.00071	0.021	
		November		19	0.14	7.3	4.4	0.035	3.0	0.013	0.2	0.0035	0.0035	0.00016	0.0017	0.0071	0.000024	0.000057	0.022	0.0000068	3.4	0.00021	0.00016	0.00071	0.021	
		December		19	0.14	7.3	4.4	0.035	3.0	0.013	0.2	0.0035	0.0035	0.00016	0.0017	0.0071	0.000024	0.000057	0.022	0.0000068	3.4	0.00021	0.00016	0.00071	0.021	
		January	2021	19	0.14	7.3	4.4	0.035	3.0	0.013	0.2	0.0036	0.0035	0.00017	0.0017	0.0072	0.000024	0.000057	0.022	0.0000068	3.4	0.00021	0.00016	0.00071	0.021	
		February		19	0.15	7.4	4.5	0.035	3.0	0.013	0.21	0.0036	0.0035	0.00017	0.0017	0.0072	0.000024	0.000057	0.022	0.0000068	3.5	0.00021	0.00016	0.00071	0.021	
		March		19	0.15	7.4	4.5	0.035	3.0	0.013	0.21	0.0036	0.0035	0.00017	0.0017	0.0072	0.000024	0.000057	0.022	0.0000068	3.5	0.00021	0.00016	0.00071	0.021	
		April		19	0.15	7.4	4.5	0.035	3.0	0.014	0.21	0.0036	0.0035	0.00017	0.0017	0.0072	0.000024	0.000057	0.022	0.0000068	3.5	0.00021	0.00016	0.00071	0.021	
		May		19	0.15	7.4	4.6	0.035	3.0	0.014	0.21	0.0036	0.0035	0.00017	0.0017	0.0072	0.000024	0.000057	0.022	0.0000068	3.5	0.00021	0.00016	0.00071	0.021	
		June		25	0.2	7.8	7.7	0.036	3.2	0.021	0.28	0.0042	0.0034	0.00018	0.0024	0.0076	0.000023	0.000055	0.025	0.0000072	5.0	0.00023	0.00018	0.00073	0.023	
		July		23	0.13	7.5	6.5	0.035	3.0	0.019	0.2	0.0038	0.0038	0.00016	0.0018	0.0073	0.000023	0.000056	0.021	0.0000069	4.6	0.00019	0.00016	0.00074	0.02	
		August		28	0.19	8.0	8.9	0.037	3.3	0.024	0.29	0.0044	0.0036	0.00019	0.0025	0.0078	0.000024	0.000055	0.025	0.0000074	5.7	0.00023	0.00018	0.00076	0.023	
		September		35	0.28	8.8	13	0.041	3.8	0.033	0.41	0.0054	0.0035	0.00022	0.0037	0.0086	0.000024	0.000056	0.031	0.0000082	7.4	0.00028	0.00022	0.00081	0.028	
		October		43	0.36	9.8	16	0.045	4.3	0.043	0.54	0.0065	0.0034	0.00026	0.0048	0.0096	0.000026	0.000057	0.038	0.0000092	9.2	0.00033	0.00025	0.00088	0.032	
		November		43	0.36																					

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[https://olderassociates.sharepoint.com/sites/102627/Technical Work/Reporting/Water Quality Report/Appendix C/14May2019%20F%20Final%20MAM WTS DS1 DS2 14May2019](https://olderassociates.sharepoint.com/sites/102627/Technical%20Work/Reporting/Water%20Quality%20Report/Appendix%20C/14May2019%20F%20Final%20MAM%20WTS%20DS1%20DS2%2014May2019)

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Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1			
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.007			
Constituent				Pb ⁴	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn		
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
Downstream Node 2	Construction and Operations	January	2023	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		June		0.00012	0.0014	1.2	0.014	0.0000062	0.00048	0.0015	0.79	0.0001	0.000013	1.8	0.022	0.000012	0.00013	0.00016	0.00061	0.0015		
		July		0.000093	0.0013	0.95	0.0072	0.0000059	0.00025	0.0011	0.66	0.000079	0.000012	1.2	0.016	0.000011	0.00014	0.000091	0.00059	0.0013		
		August		0.0001	0.0013	1.0	0.0099	0.0000061	0.00033	0.0013	0.71	0.000089	0.000012	1.5	0.018	0.000012	0.00014	0.00012	0.0006	0.0014		
		September		0.00011	0.0014	1.1	0.012	0.0000062	0.00039	0.0014	0.75	0.000096	0.000013	1.6	0.02	0.000012	0.00014	0.00014	0.00061	0.0014		
		October		0.0000039	0.000046	0.039	0.00046	0.00000021	0.000015	0.000051	0.026	0.0000035	0.00000043	0.059	0.00074	0.00000039	0.0000044	0.0000052	0.000021	0.000049		
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.00011	0.0013	1.1	0.011	0.0000061	0.00035	0.0014	0.73	0.000094	0.000012	1.5	0.019	0.000011	0.00013	0.00013	0.0006	0.0014		
		July		0.000088	0.0012	0.89	0.006	0.0000059	0.0002	0.0010	0.64	0.000076	0.000012	1.1	0.014	0.000011	0.00014	0.000075	0.00059	0.0013		
		August		0.000097	0.0013	0.97	0.0085	0.000006	0.00026	0.0012	0.69	0.000085	0.000012	1.3	0.017	0.000012	0.00014	0.000097	0.0006	0.0014		
		September		0.0001	0.0013	1.0	0.01	0.0000062	0.00031	0.0013	0.73	0.000093	0.000013	1.4	0.018	0.000012	0.00014	0.00011	0.00061	0.0014		
		October		0.0000037	0.000044	0.036	0.00042	0.00000021	0.000012	0.00005	0.026	0.0000034	0.00000043	0.052	0.00068	0.00000039	0.0000044	0.0000044	0.000021	0.000048		
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.0001	0.0013	1.0	0.011	0.0000061	0.0003	0.0014	0.74	0.000096	0.000013	1.4	0.018	0.000012	0.00013	0.00011	0.00061	0.0014		
		July		0.000088	0.0012	0.87	0.0063	0.000006	0.00018	0.001	0.66	0.000079	0.000012	1.1	0.014	0.000012	0.00014	0.000072	0.00059	0.0013		
		August		0.000097	0.0013	0.94	0.0089	0.0000061	0.00024	0.0013	0.71	0.00009	0.000012	1.3	0.017	0.000012	0.00014	0.000092	0.00061	0.0014		
		September		0.0001	0.0013	1.0	0.011	0.0000063	0.00028	0.0014	0.76	0.00010	0.000013	1.4	0.018	0.000012	0.00014	0.00011	0.00062	0.0014		
		October		0.0000037	0.000045	0.035	0.00045	0.00000022	0.000011	0.000055	0.027	0.0000037	0.00000044	0.052	0.00068	0.0000004	0.0000044	0.0000042	0.000021	0.00005		
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			MINIMUM	0.0000037	0.000044	0.035	0.00042	0.00000021	0.000011	0.00005	0.026	0.0000034	0.00000043	0.052	0.00068	0.00000039	0.0000044	0.0000042	0.000021	0.000048		
			MAXIMUM	0.00015	0.0016	1.5	0.021	0.000007	0.00074	0.00015	0.029	0.00014	0.000015	2.5	0.029	0.000013	0.00015	0.00024	0.00067	0.0017		
			AVERAGE	0.000096	0.0012	0.98	0.0087	0.0000057	0.00031	0.0012	0.67	0.000084	0.000012	1.3	0.017	0.000011	0.00013	0.00011	0.00056	0.0013		
	Closure	2026	January	2026	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			June		0.000099	0.0013	0.94	0.01	0.0000061	0.00025	0.0014	0.73	0.000095	0.000012	1.3	0.017	0.000012	0.00013	0.000097	0.00061	0.0014	
			July		0.000085	0.0012	0.83	0.0053	0.000006	0.00015	0.00099	0.64	0.000077	0.000012	1.0	0.013	0.000012	0.00015	0.000062	0.00059	0.0013	
			August		0.000091	0.0012	0.88	0.0072	0.0000061	0.00019	0.0011	0.68	0.000085	0.000012	1.1	0.015	0.000012	0.00014	0.000075	0.0006	0.0014	
			September		0.000097	0.0013	0.92	0.009	0.0000062	0.00022	0.0013	0.73	0.000093	0.000013	1.3	0.016	0.000012	0.00014	0.000088	0.00061	0.0014	
			October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2027	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.000094	0.0013	0.9	0.0087	0.0000061	0.00021	0.0013	0.71	0.000091	0.000012	1.2	0.016	0.000012	0.00014	0.000084	0.0006	0.0014		
		July		0.000083	0.0012	0.81	0.0045	0.0000059	0.00013	0.00093	0.63	0.000074	0.000012	0.97	0.013	0.000012	0.00015	0.000055	0.00059	0.0013		
		August		0.000087	0.0012	0.85	0.0061	0.000006	0.00016	0.0011	0.67	0.000081	0.000012	1.1	0.014	0.000012	0.00014	0.000066	0.0006	0.0013		
		September		0.000092	0.0013	0.89	0.0075	0.0000062	0.00019	0.0012	0.7	0.000088	0.000012	1.2	0.015	0.000012	0.00014	0.000075	0.00061	0.0014		
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

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[https://goldcorp.sharepoint.com/sites/102627/Technical Work/Reporting/Water Quality Report/Appendix C/14Mar2019/8_Filluent_MAM_WTS_DS1_DS2_14Mar2019](https://goldcorp.sharepoint.com/sites/102627/Technical%20Work/Reporting/Water%20Quality%20Report/Appendix%20C/14Mar2019/8_Filluent_MAM_WTS_DS1_DS2_14Mar2019)

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25										0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015		0.007	
Constituent				Pb ⁴	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Ti	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 2	Closure	January	2028	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.00009	0.0012	0.87	0.007	0.0000061	0.00018	0.0012	0.68	0.000085	0.000012	1.1	0.015	0.000012	0.00014	0.000071	0.0006	0.0013	
		July		0.00008	0.0012	0.8	0.0037	0.0000059	0.00011	0.00087	0.62	0.000071	0.000012	0.91	0.012	0.000012	0.00015	0.000048	0.00059	0.0013	
		August		0.000084	0.0012	0.83	0.0049	0.000006	0.00014	0.00098	0.64	0.000076	0.000012	0.99	0.013	0.000012	0.00015	0.000057	0.00059	0.0013	
		September		0.000088	0.0012	0.86	0.006	0.0000061	0.00016	0.0011	0.67	0.000082	0.000012	1.1	0.014	0.000012	0.00015	0.000064	0.0006	0.0013	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2029	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.000086	0.0012	0.85	0.0057	0.000006	0.00015	0.001	0.66	0.000079	0.000012	1.0	0.014	0.000012	0.00014	0.000061	0.00059	0.0013	
		July		0.000078	0.0012	0.79	0.0031	0.0000059	0.0001	0.00083	0.61	0.000068	0.000012	0.88	0.012	0.000012	0.00015	0.000044	0.00058	0.0013	
		August		0.000081	0.0012	0.82	0.0041	0.0000059	0.00012	0.00091	0.63	0.000072	0.000012	0.93	0.013	0.000012	0.00015	0.00005	0.00059	0.0013	
		September		0.000084	0.0012	0.85	0.005	0.000006	0.00014	0.0010	0.65	0.000077	0.000012	0.99	0.014	0.000012	0.00015	0.000056	0.0006	0.0013	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2030	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.000083	0.0012	0.83	0.0048	0.0000059	0.00013	0.00097	0.64	0.000075	0.000012	0.96	0.014	0.000011	0.00014	0.000054	0.00059	0.0013	
		July		0.000077	0.0012	0.79	0.0027	0.0000058	0.000093	0.00079	0.6	0.000066	0.000012	0.85	0.012	0.000012	0.00015	0.000041	0.00058	0.0013	
		August		0.000079	0.0012	0.81	0.0035	0.0000059	0.00011	0.00087	0.62	0.00007	0.000012	0.89	0.013	0.000012	0.00015	0.000046	0.00058	0.0013	
		September		0.000082	0.0012	0.84	0.0042	0.000006	0.00012	0.00094	0.64	0.000073	0.000012	0.94	0.014	0.000012	0.00015	0.000051	0.00059	0.0013	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2031	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.000081	0.0012	0.83	0.0041	0.0000059	0.00012	0.00092	0.63	0.000072	0.000012	0.92	0.013	0.000011	0.00014	0.000049	0.00058	0.0013	
		July		0.000076	0.0012	0.78	0.0024	0.0000058	0.000087	0.00077	0.59	0.000064	0.000012	0.83	0.012	0.000011	0.00015	0.000039	0.00058	0.0012	
		August		0.000078	0.0012	0.8	0.003	0.0000059	0.000099	0.00083	0.61	0.000068	0.000012	0.87	0.012	0.000012	0.00015	0.000043	0.00058	0.0013	
		September		0.000081	0.0012	0.83	0.0037	0.000006	0.00011	0.0009	0.63	0.000071	0.000012	0.91	0.013	0.000012	0.00015	0.000047	0.00059	0.0013	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2032	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.000079	0.0012	0.82	0.0036	0.0000059	0.00011	0.00088	0.62	0.000069	0.000012	0.89	0.013	0.000011	0.00014	0.000046	0.00058	0.0013	
		July		0.000075	0.0012	0.78	0.0021	0.0000058	0.000082	0.00075	0.59	0.000063	0.000012	0.81	0.012	0.000011	0.00015	0.000037	0.00058	0.0012	
		August		0.000077	0.0012	0.8	0.0027	0.0000058	0.000092	0.0008	0.6	0.000066	0.000012	0.84	0.012	0.000011	0.00015	0.00004	0.00058	0.0012	
		September		0.000079	0.0012	0.83	0.0032	0.0000059	0.0001	0.00086	0.62	0.000069	0.000012	0.88	0.013	0.000012	0.00015	0.000044	0.00059	0.0013	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0			
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.0004		0.001		0.002	0.3			
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	As ⁷	Sb	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁵	Co	Cu ⁶	Fe				
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			
Downstream Node 2	Closure	January	2033	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		14	0.067	6.5	2.4	0.031	2.6	0.018	0.12	0.0029	0.0041	0.00014	0.0011	0.0064	0.000023	0.000056	0.013	0.000006	2.6	0.00014	0.00013	0.00066	0.016			
		July		13	0.033	6.4	1.9	0.031	2.5	0.012	0.063	0.0027	0.0042	0.00013	0.00061	0.0064	0.000023	0.000057	0.012	0.000006	2.4	0.00013	0.00012	0.00068	0.015			
		August		14	0.046	6.5	2.1	0.031	2.6	0.014	0.086	0.0028	0.0042	0.00013	0.00079	0.0064	0.000023	0.000057	0.013	0.000006	2.5	0.00013	0.00012	0.00067	0.016			
		September		14	0.059	6.5	2.3	0.031	2.6	0.017	0.11	0.0029	0.0042	0.00014	0.00095	0.0065	0.000023	0.000057	0.013	0.0000061	2.6	0.00013	0.00013	0.00067	0.016			
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2034	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		14	0.057	6.4	2.3	0.031	2.6	0.016	0.1	0.0028	0.0041	0.00014	0.00093	0.0064	0.000023	0.000056	0.013	0.000006	2.6	0.00013	0.00013	0.00066	0.016			
		July		13	0.028	6.4	1.9	0.031	2.5	0.011	0.055	0.0026	0.0042	0.00013	0.00055	0.0064	0.000023	0.000057	0.012	0.000006	2.4	0.00012	0.00012	0.00067	0.015			
		August		14	0.039	6.4	2.1	0.031	2.6	0.013	0.075	0.0027	0.0042	0.00013	0.0007	0.0064	0.000023	0.000057	0.013	0.000006	2.5	0.00013	0.00012	0.00067	0.015			
		September		14	0.05	6.5	2.3	0.031	2.6	0.015	0.093	0.0028	0.0042	0.00014	0.00085	0.0065	0.000023	0.000057	0.013	0.000006	2.6	0.00013	0.00013	0.00067	0.016			
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2035	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		14	0.049	6.4	2.3	0.031	2.6	0.015	0.09	0.0028	0.0041	0.00013	0.00083	0.0064	0.000023	0.000056	0.013	0.0000059	2.6	0.00013	0.00012	0.00065	0.015			
		July		13	0.024	6.4	1.8	0.031	2.5	0.01	0.048	0.0026	0.0042	0.00012	0.0005	0.0063	0.000023	0.000057	0.012	0.000006	2.4	0.00012	0.00012	0.00067	0.015			
		August		13	0.033	6.4	2.0	0.031	2.5	0.012	0.065	0.0027	0.0042	0.00013	0.00063	0.0064	0.000023	0.000057	0.012	0.000006	2.5	0.00013	0.00012	0.00066	0.015			
		September		14	0.043	6.5	2.3	0.031	2.6	0.014	0.08	0.0028	0.0042	0.00013	0.00076	0.0065	0.000023	0.000057	0.013	0.000006	2.6	0.00013	0.00012	0.00066	0.015			
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2036	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		14	0.041	6.3	2.3	0.031	2.5	0.014	0.078	0.0027	0.0041	0.00013	0.00074	0.0064	0.000023	0.000056	0.013	0.0000059	2.6	0.00013	0.00012	0.00065	0.015			
		July		13	0.02	6.4	1.8	0.031	2.5	0.0098	0.042	0.0025	0.0042	0.00012	0.00046	0.0063	0.000023	0.000057	0.012	0.0000059	2.4	0.00012	0.00012	0.00067	0.015			
		August		13	0.028	6.4	2.0	0.031	2.5	0.011	0.056	0.0026	0.0042	0.00013	0.00057	0.0064	0.000023	0.000057	0.012	0.0000059	2.5	0.00012	0.00012	0.00066	0.015			
		September		14	0.036	6.4	2.2	0.031	2.6	0.013	0.069	0.0027	0.0042	0.00013	0.00068	0.0065	0.000023	0.000057	0.013	0.000006	2.6	0.00013	0.00012	0.00066	0.015			
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25										0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015		0.007	
Constituent				Pb ⁴	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Ti	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 2	Closure	January	2033	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		June		0.000078	0.0012	0.82	0.0031	0.0000058	0.00010	0.00085	0.61	0.000067	0.000012	0.86	0.013	0.000011	0.00014	0.000043	0.00058	0.0012	
		July		0.000075	0.0012	0.78	0.0019	0.0000058	0.000078	0.00073	0.58	0.000062	0.000012	0.8	0.011	0.000011	0.00015	0.000036	0.00058	0.0012	
		August		0.000076	0.0012	0.8	0.0024	0.0000058	0.000087	0.00078	0.6	0.000064	0.000012	0.83	0.012	0.000011	0.00015	0.000038	0.00058	0.0012	
		September		0.000078	0.0012	0.82	0.0029	0.0000059	0.000095	0.00083	0.62	0.000067	0.000012	0.86	0.013	0.000012	0.00015	0.000041	0.00058	0.0013	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2034	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.000077	0.0012	0.81	0.0028	0.0000058	0.000093	0.00082	0.61	0.000066	0.000012	0.84	0.013	0.000011	0.00014	0.00004	0.00057	0.0012	
		July		0.000074	0.0012	0.78	0.0017	0.0000058	0.000075	0.00072	0.58	0.000062	0.000012	0.79	0.011	0.000011	0.00015	0.000034	0.00058	0.0012	
		August		0.000076	0.0012	0.79	0.0022	0.0000058	0.000082	0.00076	0.59	0.000063	0.000012	0.81	0.012	0.000011	0.00015	0.000037	0.00058	0.0012	
		September		0.000077	0.0012	0.82	0.0026	0.0000059	0.000089	0.00081	0.61	0.000066	0.000012	0.84	0.013	0.000012	0.00015	0.000039	0.00058	0.0013	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2035	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.000076	0.0012	0.81	0.0025	0.0000058	0.000088	0.00079	0.6	0.000064	0.000012	0.82	0.013	0.000011	0.00014	0.000038	0.00057	0.0012	
		July		0.000074	0.0012	0.77	0.0016	0.0000058	0.000072	0.00071	0.58	0.000061	0.000012	0.78	0.011	0.000011	0.00015	0.000033	0.00057	0.0012	
		August		0.000075	0.0012	0.79	0.002	0.0000058	0.000078	0.00074	0.59	0.000062	0.000012	0.8	0.012	0.000011	0.00015	0.000035	0.00058	0.0012	
		September		0.000077	0.0012	0.82	0.0023	0.0000059	0.000085	0.00078	0.61	0.000064	0.000012	0.82	0.013	0.000012	0.00015	0.000037	0.00058	0.0012	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2036	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.000075	0.0012	0.81	0.0023	0.0000058	0.000083	0.00077	0.6	0.000063	0.000011	0.8	0.013	0.000011	0.00014	0.000037	0.00057	0.0012	
		July		0.000074	0.0012	0.77	0.0015	0.0000058	0.00007	0.0007	0.58	0.00006	0.000012	0.77	0.011	0.000011	0.00015	0.000033	0.00057	0.0012	
		August		0.000074	0.0012	0.79	0.0018	0.0000058	0.000075	0.00073	0.59	0.000062	0.000012	0.79	0.012	0.000011	0.00015	0.000034	0.00057	0.0012	
		September		0.000076	0.0012	0.82	0.0021	0.0000058	0.000081	0.00077	0.6	0.000063	0.000012	0.81	0.013	0.000012	0.00015	0.000036	0.00058	0.0012	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.000075	0.0012	0.81	0.002	0.0000057	0.000079	0.00076	0.59	0.000062	0.000011	0.79	0.013	0.000011	0.00014	0.000035	0.00057	0.0012	
		July		0.000073	0.0012	0.77	0.0014	0.0000058	0.000068	0.00069	0.57	0.00006	0.000011	0.77	0.011	0.000011	0.00015	0.000032	0.00057	0.0012	
		August		0.000074	0.0012	0.79	0.0017	0.0000058	0.000073	0.00072	0.58	0.000061	0.000012	0.78	0.012	0.000011	0.00015	0.000033	0.00057	0.0012	
		September		0.000075	0.0012	0.81	0.0019	0.0000058	0.000077	0.00075	0.6	0.000062	0.000012	0.79	0.013	0.000012	0.00015	0.000035	0.00058	0.0012	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0			
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3			
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	Al ⁴	Sb	As ⁵	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁷	Co	Cu ⁸	Fe			
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			
Downstream Node 2	Closure	January	2038	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		14	0.03	6.3	2.2	0.03	2.5	0.012	0.058	0.0026	0.0041	0.00013	0.0006	0.0063	0.000023	0.000056	0.012	0.0000059	2.5	0.00012	0.00012	0.00064	0.015			
		July		13	0.014	6.4	1.8	0.03	2.5	0.0088	0.033	0.0025	0.0042	0.00012	0.0004	0.0063	0.000023	0.000057	0.012	0.0000059	2.4	0.00012	0.00012	0.00067	0.014			
		August		13	0.021	6.4	2.0	0.031	2.5	0.0099	0.043	0.0026	0.0042	0.00012	0.00048	0.0064	0.000023	0.000057	0.012	0.0000059	2.5	0.00012	0.00012	0.00066	0.015			
		September		14	0.026	6.4	2.2	0.031	2.5	0.011	0.052	0.0026	0.0042	0.00013	0.00056	0.0064	0.000023	0.000057	0.012	0.000006	2.6	0.00012	0.00012	0.00065	0.015			
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		13	0.025	6.3	2.2	0.03	2.5	0.011	0.051	0.0026	0.0041	0.00012	0.00055	0.0063	0.000023	0.000056	0.012	0.0000059	2.5	0.00012	0.00012	0.00064	0.014			
		July		13	0.012	6.4	1.8	0.03	2.5	0.0084	0.029	0.0025	0.0042	0.00012	0.00037	0.0063	0.000023	0.000057	0.012	0.0000059	2.4	0.00012	0.00012	0.00067	0.014			
		August		13	0.017	6.3	2.0	0.03	2.5	0.0094	0.038	0.0025	0.0042	0.00012	0.00044	0.0064	0.000023	0.000057	0.012	0.0000059	2.5	0.00012	0.00012	0.00066	0.014			
		September		14	0.022	6.4	2.2	0.031	2.5	0.01	0.046	0.0026	0.0042	0.00012	0.00051	0.0064	0.000023	0.000057	0.012	0.000006	2.6	0.00012	0.00012	0.00065	0.015			
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2040	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		13	0.022	6.3	2.2	0.03	2.5	0.01	0.044	0.0025	0.0041	0.00012	0.0005	0.0063	0.000023	0.000056	0.012	0.0000059	2.5	0.00012	0.00012	0.00064	0.014			
		July		13	0.01	6.4	1.8	0.03	2.5	0.0081	0.026	0.0025	0.0042	0.00012	0.00035	0.0063	0.000023	0.000057	0.012	0.0000059	2.4	0.00012	0.00012	0.00066	0.014			
		August		13	0.015	6.3	2.0	0.03	2.5	0.0089	0.033	0.0025	0.0042	0.00012	0.00041	0.0063	0.000023	0.000057	0.012	0.0000059	2.5	0.00012	0.00012	0.00065	0.014			
		September		13	0.019	6.4	2.2	0.031	2.5	0.0098	0.04	0.0026	0.0042	0.00012	0.00047	0.0064	0.000023	0.000057	0.012	0.0000059	2.5	0.00012	0.00012	0.00065	0.014			
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2041	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		13	0.018	6.3	2.2	0.03	2.5	0.0096	0.039	0.0025	0.0041	0.00012	0.00046	0.0063	0.000023	0.000056	0.012	0.0000058	2.5	0.00012	0.00012	0.00064	0.014			
		July		13	0.0089	6.3	1.8	0.03	2.5	0.0078	0.023	0.0025	0.0042	0.00012	0.00033	0.0063	0.000023	0.000057	0.012	0.0000059	2.4	0.00012	0.00012	0.00066	0.014			
		August		13	0.013	6.3	1.9	0.03	2.5	0.0085	0.029	0.0025	0.0042	0.00012	0.00038	0.0063	0.000023	0.000057	0.012	0.0000059	2.5	0.00012	0.00012	0.00065	0.014			
		September		13	0.016	6.4	2.1	0.031	2.5	0.0093	0.035	0.0025	0.0042	0.00012	0.00044	0.0064	0.000023	0.000057	0.012	0.0000059	2.5	0.00012	0.00012	0.00065	0.014			
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Closure	January	2042	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		June		13	0.016	6.2	2.2	0.03	2.5	0.0091	0.034	0.0025	0.0041	0.00012	0.00043	0.0063	0.000023	0.000056	0.012	0.0000058	2.5	0.00012	0.00012	0.00063	0.014			
		July		13	0.0076	6.3	1.8	0.03	2.5	0.0076	0.021	0.0024	0.0042	0.0.														

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25										0.1	
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015		0.007	
Constituent				Pb ⁴	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 2	Closure	January	2038	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.000074	0.0012	0.8	0.0019	0.0000057	0.000076	0.00074	0.59	0.000061	0.000011	0.78	0.013	0.000011	0.00014	0.000034	0.00057	0.0012	
		July		0.000073	0.0012	0.77	0.0013	0.0000057	0.000067	0.00068	0.57	0.000059	0.000011	0.76	0.011	0.000011	0.00015	0.000031	0.00057	0.0012	
		August		0.000074	0.0012	0.79	0.0015	0.0000058	0.00007	0.00071	0.58	0.00006	0.000011	0.77	0.012	0.000011	0.00015	0.000032	0.00057	0.0012	
		September		0.000075	0.0012	0.81	0.0018	0.0000058	0.000074	0.00074	0.59	0.000062	0.000012	0.78	0.013	0.000012	0.00015	0.000034	0.00058	0.0012	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.000074	0.0012	0.8	0.0017	0.0000057	0.000073	0.00073	0.59	0.00006	0.000011	0.77	0.013	0.000011	0.00014	0.000033	0.00057	0.0012	
		July		0.000073	0.0012	0.77	0.0012	0.0000057	0.000065	0.00068	0.57	0.000059	0.000011	0.76	0.011	0.000011	0.00015	0.000031	0.00057	0.0012	
		August		0.000073	0.0012	0.79	0.0014	0.0000058	0.000068	0.0007	0.58	0.00006	0.000011	0.76	0.012	0.000011	0.00015	0.000032	0.00057	0.0012	
		September		0.000074	0.0012	0.81	0.0016	0.0000058	0.000072	0.00073	0.59	0.000061	0.000012	0.77	0.013	0.000011	0.00015	0.000033	0.00058	0.0012	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2040	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.000073	0.0012	0.8	0.0016	0.0000057	0.000071	0.00072	0.58	0.00006	0.000011	0.76	0.013	0.000011	0.00014	0.000032	0.00057	0.0012	
		July		0.000073	0.0012	0.77	0.0012	0.0000057	0.000064	0.00067	0.57	0.000059	0.000011	0.75	0.011	0.000011	0.00015	0.00003	0.00057	0.0012	
		August		0.000073	0.0012	0.79	0.0013	0.0000057	0.000067	0.00069	0.58	0.000059	0.000011	0.76	0.012	0.000011	0.00015	0.000031	0.00057	0.0012	
		September		0.000074	0.0012	0.81	0.0015	0.0000058	0.00007	0.00072	0.59	0.00006	0.000012	0.77	0.013	0.000011	0.00015	0.000032	0.00058	0.0012	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		January	2041	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.000073	0.0011	0.8	0.0015	0.0000057	0.000068	0.00071	0.58	0.000059	0.000011	0.75	0.013	0.000011	0.00014	0.000031	0.00057	0.0012	
		July		0.000072	0.0012	0.77	0.0011	0.0000057	0.000063	0.00067	0.57	0.000058	0.000011	0.75	0.011	0.000011	0.00015	0.00003	0.00057	0.0012	
		August		0.000073	0.0012	0.79	0.0013	0.0000057	0.000065	0.00069	0.58	0.000059	0.000011	0.75	0.012	0.000011	0.00015	0.000031	0.00057	0.0012	
		September		0.000074	0.0012	0.81	0.0014	0.0000058	0.000068	0.00071	0.59	0.00006	0.000012	0.76	0.013	0.000011	0.00015	0.000031	0.00058	0.0012	
		October		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Closure	January	2042	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		June		0.000073	0.0011	0.8	0.0014	0.0000057	0.000067	0.0007	0.58	0.000059	0.000011	0.75	0.013	0.000011	0.00014	0.000031	0.00057	0.0012	
		July		0.000072	0.0012	0.77	0.0011	0.0000057	0.000062	0.00066	0.57	0.000058	0.000011	0.74	0.011	0.000011	0.00015	0.00003	0.00057	0.0012	
		August		0.000073	0.0012	0.79	0.0012	0.0000057	0.000064	0.00068	0.58	0.000059	0.000011	0.75	0.012	0.000011	0.00015	0.00003	0.00057	0.0012	
		September		0.000075	0.0012	0.83	0.0014	0.0000059	0.000069	0.00073	0.6	0.000061	0.000012	0.77	0.013	0.000012	0.00015	0.000031	0.00058	0.0012	
		October		0.000025	0.00004	0.028	0.000053	0.0000002	0.0000024	0.000025	0.02	0.000002	0.00000039	0.026	0.00047	0.00000039	0.0000048	0.0000011	0.000019	0.000041	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1	1.0		
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004		0.001		0.002	0.3		
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P _{total} ³	As ⁷	Sb	Cd ⁶	Ba	Be	Bi	B	Cd ⁶	Ca	Cr ⁵	Co	Cu ⁸	Fe		
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
Downstream Node 2	Closure	January	2043	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		14	0.022	6.2	2.6	0.03	2.5	0.010	0.041	0.0026	0.0041	0.00012	0.00057	0.0064	0.000023	0.000056	0.012	0.0000059	2.7	0.00012	0.00012	0.00012	0.00061	0.014	
		July		13	0.017	6.3	2.0	0.03	2.5	0.0084	0.028	0.0025	0.0041	0.00012	0.00053	0.0063	0.000023	0.000056	0.012	0.0000059	2.5	0.00012	0.00012	0.00012	0.00064	0.014	
		August		14	0.031	6.3	2.5	0.031	2.5	0.01	0.043	0.0026	0.004	0.00013	0.00082	0.0064	0.000023	0.000056	0.012	0.0000059	2.7	0.00012	0.00012	0.00012	0.00062	0.015	
		September		15	0.046	6.3	2.8	0.031	2.6	0.012	0.055	0.0027	0.004	0.00013	0.0012	0.0065	0.000023	0.000057	0.012	0.000006	2.8	0.00013	0.00012	0.00012	0.00062	0.015	
		October		0.51	0.0022	0.21	0.11	0.0011	0.088	0.00046	0.0024	0.000095	0.00013	0.0000047	0.000055	0.00022	0.0000076	0.0000019	0.00043	0.0000002	0.098	0.0000044	0.0000043	0.00002	0.00052		
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2044	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		15	0.1	6.3	3.0	0.032	2.7	0.015	0.084	0.003	0.0036	0.00015	0.0026	0.0064	0.000022	0.000055	0.013	0.0000059	2.8	0.00014	0.00013	0.00013	0.00061	0.017	
		July		13	0.066	6.4	2.1	0.032	2.6	0.011	0.052	0.0028	0.0038	0.00014	0.0018	0.0063	0.000023	0.000056	0.012	0.000006	2.5	0.00013	0.00013	0.00013	0.00066	0.016	
		August		15	0.12	6.4	2.7	0.033	2.7	0.016	0.086	0.0031	0.0036	0.00016	0.003	0.0065	0.000023	0.000055	0.013	0.0000061	2.7	0.00014	0.00014	0.00014	0.00064	0.018	
		September		16	0.15	6.5	3.0	0.035	2.8	0.018	0.11	0.0033	0.0034	0.00018	0.0039	0.0066	0.000023	0.000056	0.014	0.0000062	2.9	0.00015	0.00015	0.00015	0.00065	0.02	
		October		0.54	0.0065	0.22	0.11	0.0012	0.095	0.00071	0.0044	0.00012	0.00011	0.0000064	0.00016	0.00022	0.0000075	0.0000018	0.00048	0.00000021	0.10	0.0000052	0.0000051	0.000021	0.0007		
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2045	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		16	0.2	6.5	3.0	0.035	2.8	0.021	0.13	0.0035	0.0031	0.00019	0.005	0.0065	0.000022	0.000054	0.014	0.0000061	2.9	0.00016	0.00015	0.00015	0.00065	0.021	
		July		14	0.1	6.4	2.1	0.033	2.6	0.013	0.066	0.0029	0.0036	0.00015	0.0026	0.0063	0.000022	0.000055	0.013	0.000006	2.5	0.00013	0.00013	0.00013	0.00067	0.018	
		August		15	0.18	6.5	2.7	0.035	2.8	0.019	0.11	0.0034	0.0032	0.00019	0.0045	0.0065	0.000022	0.000055	0.014	0.0000062	2.7	0.00015	0.00015	0.00015	0.00067	0.021	
		September		16	0.22	6.6	2.9	0.037	2.9	0.022	0.13	0.0037	0.0031	0.0002	0.0056	0.0066	0.000023	0.000055	0.015	0.0000063	2.9	0.00016	0.00016	0.00016	0.00067	0.023	
		October		0.55	0.0091	0.22	0.11	0.0013	0.098	0.00083	0.0054	0.00013	0.000092	0.0000074	0.00022	0.00022	0.0000075	0.0000018	0.00051	0.00000021	0.099	0.0000057	0.0000056	0.000022	0.00081	0.00081	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2046	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		16	0.25	6.5	3.0	0.037	2.9	0.023	0.15	0.0037	0.0028	0.00021	0.0062	0.0065	0.000022	0.000053	0.015	0.0000062	2.8	0.00016	0.00016	0.00016	0.00067	0.023	
		July		14	0.12	6.4	2.1	0.033	2.6	0.014	0.071	0.003	0.0036	0.00016	0.003	0.0063	0.000022	0.000055	0.013	0.000006	2.5	0.00014	0.00014	0.00014	0.00068	0.018	
		August		15	0.21	6.6	2.6	0.036	2.8	0.02	0.12	0.0035	0.0031	0.0002	0.0051	0.0065	0.000022	0.000054	0.014	0.0000062	2.7	0.00016	0.00016	0.00016	0.00068	0.022	
		September		16	0.25	6.7	2.9	0.038	2.9	0.023	0.14	0.0038	0.0029	0.00021	0.0062	0.0066	0.000023	0.000054	0.015	0.0000063	2.8	0.00017	0.00016	0.00016	0.00068	0.024	
		October		0.55	0.01	0.22	0.11	0.0013	0.099	0.00087	0.0057	0.00013	0.000086	0.0000078	0.00025	0.00022	0.0000074	0.0000018	0.00052	0.00000021	0.098	0.0000058	0.0000058	0.000023	0.00086	0.00086	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2047	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1		
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.007		
Constituent				Pb ⁴	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Tl	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 2	Closure	January	2043	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		June		0.000074	0.0012	0.84	0.0017	0.0000058	0.000071	0.00075	0.6	0.00006	0.000011	0.75	0.014	0.000011	0.00014	0.000032	0.00057	0.0012	
		July		0.000073	0.0011	0.79	0.0015	0.0000057	0.000068	0.00069	0.58	0.000059	0.000011	0.75	0.012	0.000011	0.00014	0.000032	0.00057	0.0012	
		August		0.000075	0.0012	0.84	0.0021	0.0000058	0.000078	0.00076	0.61	0.000061	0.000011	0.77	0.014	0.000011	0.00014	0.000035	0.00057	0.0012	
		September		0.000077	0.0012	0.88	0.0027	0.0000059	0.000089	0.00082	0.63	0.000063	0.000012	0.79	0.015	0.000011	0.00014	0.00004	0.00058	0.0012	
		October		0.000026	0.00004	0.03	0.00012	0.0000002	0.0000034	0.000029	0.022	0.0000022	0.00000039	0.027	0.00055	0.00000038	0.0000044	0.0000015	0.000019	0.000041	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2044	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		0.000079	0.0012	0.87	0.005	0.000006	0.00013	0.00093	0.66	0.000068	0.000011	0.84	0.016	0.000011	0.00013	0.000059	0.00058	0.0013	
		July		0.000076	0.0012	0.79	0.0035	0.0000059	0.0001	0.0008	0.61	0.000064	0.000011	0.8	0.012	0.000011	0.00014	0.000049	0.00058	0.0012	
		August		0.00008	0.0012	0.85	0.0056	0.0000061	0.00014	0.00095	0.67	0.00007	0.000012	0.86	0.015	0.000011	0.00014	0.000066	0.00059	0.0013	
		September		0.000083	0.0012	0.88	0.007	0.0000062	0.00017	0.001	0.71	0.000074	0.000012	0.91	0.016	0.000012	0.00014	0.000078	0.0006	0.0013	
		October		0.000029	0.000041	0.03	0.00029	0.00000021	0.0000065	0.000038	0.025	0.0000026	0.00000039	0.032	0.00056	0.00000038	0.0000044	0.0000031	0.00002	0.000045	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2045	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		0.000084	0.0012	0.87	0.0089	0.0000063	0.0002	0.0011	0.73	0.000078	0.000012	0.94	0.016	0.000011	0.00013	0.000095	0.0006	0.0013	
		July		0.000078	0.0012	0.79	0.0048	0.000006	0.00013	0.00086	0.64	0.000067	0.000011	0.84	0.012	0.000011	0.00014	0.000063	0.00059	0.0013	
		August		0.000083	0.0012	0.84	0.008	0.0000063	0.00019	0.0011	0.71	0.000076	0.000012	0.93	0.015	0.000011	0.00014	0.000089	0.00061	0.0013	
		September		0.000087	0.0012	0.87	0.0097	0.0000065	0.00022	0.0012	0.75	0.000081	0.000012	0.98	0.016	0.000012	0.00014	0.0001	0.00062	0.0014	
		October		0.000003	0.000041	0.03	0.00039	0.00000022	0.0000084	0.000043	0.026	0.0000028	0.00000039	0.034	0.00056	0.00000039	0.0000045	0.000004	0.000021	0.000048	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2046	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		0.000087	0.0012	0.86	0.011	0.0000064	0.00024	0.0012	0.76	0.000082	0.000012	0.99	0.016	0.000011	0.00013	0.00011	0.00061	0.0014	
		July		0.000078	0.0012	0.78	0.0054	0.000006	0.00014	0.00089	0.65	0.000069	0.000011	0.85	0.012	0.000011	0.00014	0.000068	0.00059	0.0013	
		August		0.000084	0.0012	0.83	0.0089	0.0000063	0.00021	0.0011	0.73	0.000078	0.000012	0.95	0.014	0.000011	0.00014	0.000099	0.00061	0.0014	
		September		0.000088	0.0012	0.86	0.011	0.0000065	0.00024	0.0012	0.77	0.000083	0.000012	1.0	0.015	0.000012	0.00014	0.00011	0.00063	0.0014	
		October		0.000003	0.000041	0.029	0.00042	0.00000022	0.0000092	0.000044	0.027	0.0000029	0.00000039	0.035	0.00055	0.00000039	0.0000045	0.0000044	0.000021	0.000048	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2047	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		0.000087	0.0012	0.85	0.011	0.0000065	0.00025	0.0012	0.77	0.000083	0.000012	1.0	0.015	0.000011	0.00014	0.00012	0.00062	0.0014	
		July		0.000078	0.0012	0.78	0.0055	0.000006	0.00014	0.00089	0.65	0.000069	0.000011	0.85	0.012	0.000011	0.00014	0.00007	0.00059	0.0013	
		August		0.000084	0.0012	0.83	0.0091	0.0000064	0.00021	0.0011	0.73	0.000078	0.000012	0.95	0.014	0.000011	0.00014	0.0001	0.00061	0.0014	
		September		0.000088	0.0012	0.86	0.011	0.0000066	0.00024	0.0012	0.77	0.000083	0.000012	1.0	0.015	0.000012	0.00014	0.00012	0.00063	0.0014	
		October		0.000003	0.000041	0.029	0.00042	0.00000022	0.0000093	0.000044	0.027	0.0000029	0.00000039	0.035	0.00055	0.00000039	0.0000045	0.0000045	0.000021	0.000049	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				1400					16		0.3	0.5		0.1						0.002		0.02		0.1	1.0		
CEQG aquatic life (long-term) ² (mg/L)							120	0.12			2.93	0.01		0.025				1.5	0.00004		0.001		0.002	0.3			
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P_total ³	Al ⁴	Sb	As ⁷	Ba	Be	Bi	B	Cd ⁵	Ca	Cr ⁵	Co	Cu ⁶	Fe		
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg N/L	mg N/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
Downstream Node 2	Closure	January	2048	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		16	0.27	6.5	2.9	0.037	2.9	0.023	0.15	0.0038	0.0026	0.00022	0.0065	0.0064	0.000022	0.000053	0.015	0.0000062	2.8	0.00017	0.00016	0.00067	0.024		
		July		14	0.12	6.4	2.0	0.033	2.6	0.014	0.069	0.003	0.0035	0.00016	0.003	0.0063	0.000022	0.000055	0.013	0.000006	2.5	0.00014	0.00014	0.00068	0.019		
		August		15	0.21	6.5	2.6	0.036	2.8	0.019	0.12	0.0035	0.003	0.0002	0.0052	0.0064	0.000022	0.000054	0.014	0.0000062	2.7	0.00015	0.00015	0.00068	0.022		
		September		16	0.26	6.6	2.8	0.038	2.9	0.022	0.14	0.0037	0.0028	0.00021	0.0062	0.0065	0.000022	0.000054	0.015	0.0000063	2.8	0.00016	0.00016	0.00068	0.024		
		October		0.54	0.01	0.22	0.1	0.0013	0.098	0.00084	0.0054	0.00013	0.000081	0.0000078	0.00025	0.00022	0.00000074	0.0000018	0.00051	0.00000021	0.096	0.0000058	0.0000058	0.000023	0.00086		
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		16	0.26	6.5	2.8	0.037	2.8	0.022	0.14	0.0037	0.0026	0.00022	0.0064	0.0063	0.000022	0.000053	0.015	0.0000062	2.8	0.00016	0.00016	0.00067	0.024		
		July		13	0.12	6.4	2.0	0.033	2.6	0.013	0.066	0.003	0.0035	0.00016	0.0029	0.0063	0.000022	0.000055	0.013	0.000006	2.4	0.00014	0.00014	0.00068	0.018		
		August		15	0.21	6.5	2.5	0.036	2.8	0.019	0.11	0.0034	0.003	0.00019	0.005	0.0064	0.000022	0.000054	0.014	0.0000062	2.7	0.00015	0.00015	0.00068	0.022		
		September		16	0.25	6.6	2.8	0.037	2.8	0.021	0.13	0.0037	0.0027	0.00021	0.006	0.0064	0.000022	0.000054	0.015	0.0000063	2.8	0.00016	0.00016	0.00068	0.024		
		October		0.54	0.0099	0.22	0.1	0.0013	0.097	0.0008	0.0051	0.00013	0.000081	0.0000077	0.00024	0.00021	0.00000074	0.0000018	0.00051	0.00000021	0.095	0.0000057	0.0000057	0.000022	0.00084		
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	≥ 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		15	0.26	6.5	2.8	0.037	2.8	0.021	0.13	0.0036	0.0026	0.00021	0.0061	0.0063	0.000022	0.000053	0.014	0.0000062	2.7	0.00016	0.00016	0.00066	0.023		
		July		13	0.11	6.4	2.0	0.033	2.6	0.013	0.063	0.0029	0.0035	0.00016	0.0028	0.0062	0.000022	0.000055	0.013	0.000006	2.4	0.00013	0.00013	0.00067	0.018		
		August		15	0.2	6.5	2.5	0.036	2.7	0.018	0.1	0.0034	0.003	0.00019	0.0048	0.0063	0.000022	0.000054	0.014	0.0000062	2.6	0.00015	0.00015	0.00067	0.022		
		September		15	0.24	6.6	2.7	0.037	2.8	0.02	0.12	0.0036	0.0027	0.00021	0.0057	0.0064	0.000022	0.000054	0.014	0.0000063	2.7	0.00016	0.00016	0.00068	0.023		
		October		0.53	0.0096	0.22	0.1	0.0013	0.095	0.00077	0.0048	0.00013	0.00008	0.0000075	0.00023	0.00021	0.00000074	0.0000018	0.0005	0.00000021	0.094	0.0000056	0.0000056	0.000022	0.00083		
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				MINIMUM	0.47	0.00065	0.21	0.084	0.001	0.086	0.00033	0.0014	0.000087	0.00008	0.0000041	0.000017	0.00021	0.00000074	0.0000018	0.00041	0.0000002	0.09	0.0000041	0.000004	0.00002	0.00048	
				MAXIMUM	16	0.27	6.7	3.0	0.038	2.9	0.023	0.15	0.0038	0.0042	0.00022	0.0066	0.0066	0.000023	0.000058	0.015	0.0000063	2.9	0.00017	0.00017	0.00069	0.024	
				AVERAGE	12	0.12	5.2	2.0	0.028	2.2	0.013	0.075	0.0026	0.0027	0.00014	0.0031	0.0052	0.000018	0.000044	0.011	0.0000049	2.2	0.00012	0.00012	0.00053	0.016	

Notes:
¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells
²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type
³CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed
⁴CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.
⁵CEQG Freshwater aquatic life criteria for chromium depends on the valence of chromium ion. In the above table, the Cr(VI) criterion of 0.001 mg/L is shown.
⁶CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.
⁷ The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

Whale Tail Effluent Quality Criteria maximum average ¹ (mg/L)				0.05				0.004		0.25									0.1		
CEQG aquatic life (long-term) ² (mg/L)				0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.007		
Constituent				Pb ⁴	Li	Mg	Mn	Hg	Mo	Ni ⁶	K	Se	Ag	Na	Sr	Ti	Sn	U	V	Zn	
LOCATION	Time Period	Month	Year	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Downstream Node 2	Closure	January	2048	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		0.000087	0.0012	0.85	0.011	0.0000065	0.00025	0.0012	0.77	0.000083	0.000012	0.99	0.015	0.000011	0.00014	0.00012	0.00062	0.0014	
		July		0.000078	0.0012	0.78	0.0053	0.000006	0.00014	0.00088	0.65	0.000068	0.000011	0.85	0.012	0.000011	0.00014	0.00007	0.00059	0.0013	
		August		0.000084	0.0012	0.83	0.0089	0.0000064	0.00021	0.0011	0.73	0.000078	0.000012	0.94	0.014	0.000011	0.00014	0.0001	0.00061	0.0014	
		September		0.000087	0.0012	0.85	0.01	0.0000065	0.00024	0.0012	0.77	0.000083	0.000012	0.99	0.015	0.000012	0.00014	0.00012	0.00062	0.0014	
		October		0.000003	0.000041	0.029	0.00041	0.00000022	0.0000093	0.000043	0.027	0.0000029	0.00000039	0.034	0.00054	0.00000039	0.0000045	0.0000045	0.000021	0.000048	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	2049	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		0.000086	0.0012	0.84	0.011	0.0000065	0.00025	0.0012	0.76	0.000082	0.000011	0.98	0.015	0.000011	0.00014	0.00012	0.00061	0.0014	
		July		0.000077	0.0012	0.78	0.0052	0.000006	0.00014	0.00087	0.64	0.000068	0.000011	0.84	0.012	0.000011	0.00014	0.000069	0.00059	0.0013	
		August		0.000083	0.0012	0.82	0.0085	0.0000063	0.00021	0.0011	0.72	0.000077	0.000012	0.93	0.014	0.000011	0.00014	0.0001	0.00061	0.0014	
		September		0.000086	0.0012	0.85	0.01	0.0000065	0.00024	0.0012	0.76	0.000082	0.000012	0.97	0.015	0.000012	0.00014	0.00012	0.00062	0.0014	
		October		0.0000029	0.000041	0.029	0.00039	0.00000022	0.0000091	0.000042	0.027	0.0000029	0.00000039	0.034	0.00054	0.00000038	0.0000045	0.0000044	0.000021	0.000048	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		January	≥ 2050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		February		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		March		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		April		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		June		0.000085	0.0012	0.84	0.01	0.0000064	0.00024	0.0012	0.75	0.000081	0.000011	0.96	0.015	0.000011	0.00013	0.00012	0.00061	0.0014	
		July		0.000077	0.0012	0.78	0.0049	0.000006	0.00014	0.00086	0.64	0.000067	0.000011	0.83	0.012	0.000011	0.00014	0.000068	0.00059	0.0013	
		August		0.000082	0.0012	0.82	0.0081	0.0000063	0.0002	0.001	0.71	0.000076	0.000012	0.91	0.014	0.000011	0.00014	0.000098	0.00061	0.0014	
		September		0.000085	0.0012	0.84	0.0096	0.0000065	0.00023	0.0011	0.75	0.00008	0.000012	0.96	0.015	0.000012	0.00014	0.00011	0.00062	0.0014	
		October		0.0000029	0.000041	0.029	0.00038	0.00000022	0.0000089	0.000041	0.026	0.0000028	0.00000039	0.033	0.00053	0.00000038	0.0000045	0.0000043	0.000021	0.000048	
		November		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		December		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			MINIMUM	0.0000025	0.00004	0.028	0.000053	0.0000002	0.0000024	0.000025	0.02	0.000002	0.00000039	0.026	0.00047	0.00000038	0.0000044	0.0000011	0.000019	0.000041	
			MAXIMUM	0.000088	0.0012	0.88	0.011	0.0000066	0.00025	0.0012	0.77	0.000083	0.000012	1.0	0.016	0.000012	0.00015	0.00012	0.00063	0.0014	
			AVERAGE	0.000065	0.00096	0.67	0.0054	0.000005	0.00013	0.0008	0.55	0.000058	0.0000093	0.71	0.011	0.0000092	0.00011	0.000065	0.00048	0.0011	

Notes:
¹ Water Licence No: 2AM-WTP1826. Maximum average. Exceedances shown as bold-underlined-highlighted cells
²CEQG (2002) freshwater guidelines. Post-closure exceedances to freshwater CEQG's shown in bold-underlined type
³CEQG Freshwater Aquatic Life Trigger Ranges are dependent on trophic status; oligotrophic status assumed
⁴CEQG Freshwater Aquatic Life Criterion for aluminum is pH dependant; assumes pH>6.5.
⁵CEQG Freshwater aquatic life criteria for chromium depends on the valence of chromium ion. In the above table, the Cr(VI) criterion of 0.001 mg/L is shown.
⁶CEQG Freshwater Aquatic Life Criteria are hardness dependant; assumes a hardness of 11 mg/L.
⁷ The CEQG aquatic life criterion for Arsenic is replaced by the Site Specific Water Quality Objective of 0.025 mg/L developed for the Whale Tail Pit Project (Volume 6, Appendix 6-N)

APPENDIX D

**Phosphorus Loading from WRSF
Cover Material**

TECHNICAL MEMORANDUM

DATE 15 May 2019

Project No. 18108905-289-TM-Rev0

TO Michel Groleau, Chris Kennedy
Agnico Eagle Mines Limited

CC Jamie Quesnel

FROM Jennifer Cole, David Brown

EMAIL jcole@golder.com

PHOSPHORUS LOADING FROM WRSF COVER MATERIAL, WHALE TAIL PIT PROJECT

1.0 INTRODUCTION

Phosphorus is being evaluated in the water quality model as a parameter of potential concern in post-closure. Waste rock material used as cover for the waste rock storage facilities (WRSFs) was identified to require further evaluation with respect to phosphorus geochemical source term. Water quality model inputs for WRSF cover material were derived from laboratory test results (Golder 2018a) and the loading rates are discussed below including recommended changes in the water quality model updates in support of the Water Licence (WL) submission to the Nunavut Water Board (NWB).

2.0 PHOSPHORUS IN WASTE ROCK FOR WRSF COVER

2.1 Mineralogical Source

The mineralogical source of phosphorus is inferred to be apatite [$\text{Ca}_5(\text{PO}_4)_3(\text{Cl/F/OH})$], the only phosphorus-bearing mineral detected by QEMSCAN tests on 19 samples to date. These samples are from the north greywacke, basalt, and komatiite units; the diorite and south greywacke samples have not been subjected to mineralogical testing. Figure 2 presents a comparison of the percentage apatite determined by QEMSCAN versus the total phosphorus content (ug/g) for these samples. A strong correlation ($R^2=0.88$) indicates that apatite is the predominant mineral source of phosphorus.

Apatite is generally stable under neutral to alkaline conditions (Magalhães and Williams, 2007; van Kemenade and de Bruyn, 1987) with low solubility resulting in equilibrium concentrations of approximately 0.2 mg/L (derived from dissolution of apatite in pure water using PHREEQC). Therefore, apatite dissolution in the WRSF cover material is not anticipated to be a major source of phosphorus in the water quality model.

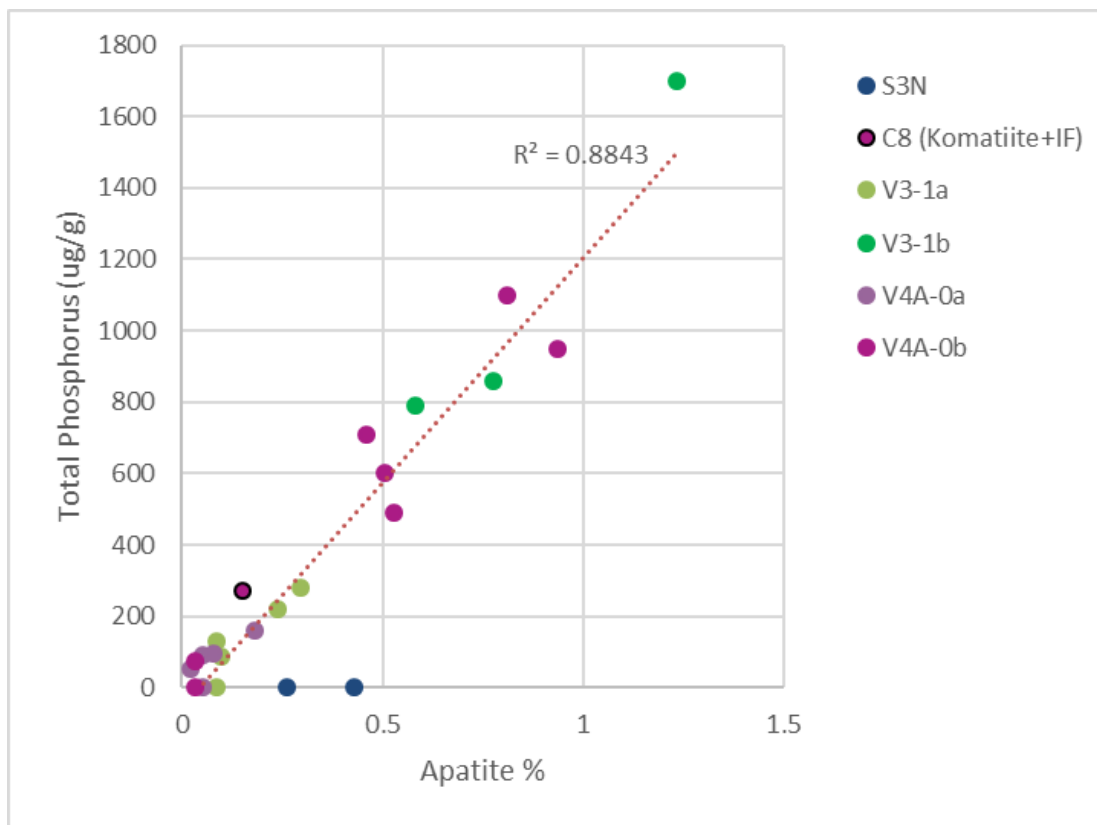


Figure 1: Apatite (from QEMSCAN) versus Total Phosphorus

2.2 Loading Rates for FEIS Water Quality Model

In the FEIS water quality model (Golder 2018b), loading rates for the WRSF cover material were assigned based on two non-potentially acid generating (NPAG) and non-metal leaching (NML) waste rock lithologies (Golder 2018a): the diorite (I2S) and south greywacke (S3S). The loading rate for the south greywacke was derived based on large column laboratory leach tests and was consistent with the approach used for other waste rock lithologies (Golder 2018b). However, the loading rate initially used for diorite was based on the humidity cell test (HCT) results as large column testing was not completed on this lithology.

2.2.1 Evaluation of Phosphorus Loading Rate for WL Model

For all rock types, the HCT-derived loading rates were compared to loading rates from the large column tests. This comparison is presented in Figure 3, with the phosphorus load shown on the primary y-axis and the total phosphorus on the secondary y-axis. The south greywacke HCT and large column sample are shown in blue and the diorite HCT sample is shown in yellow.

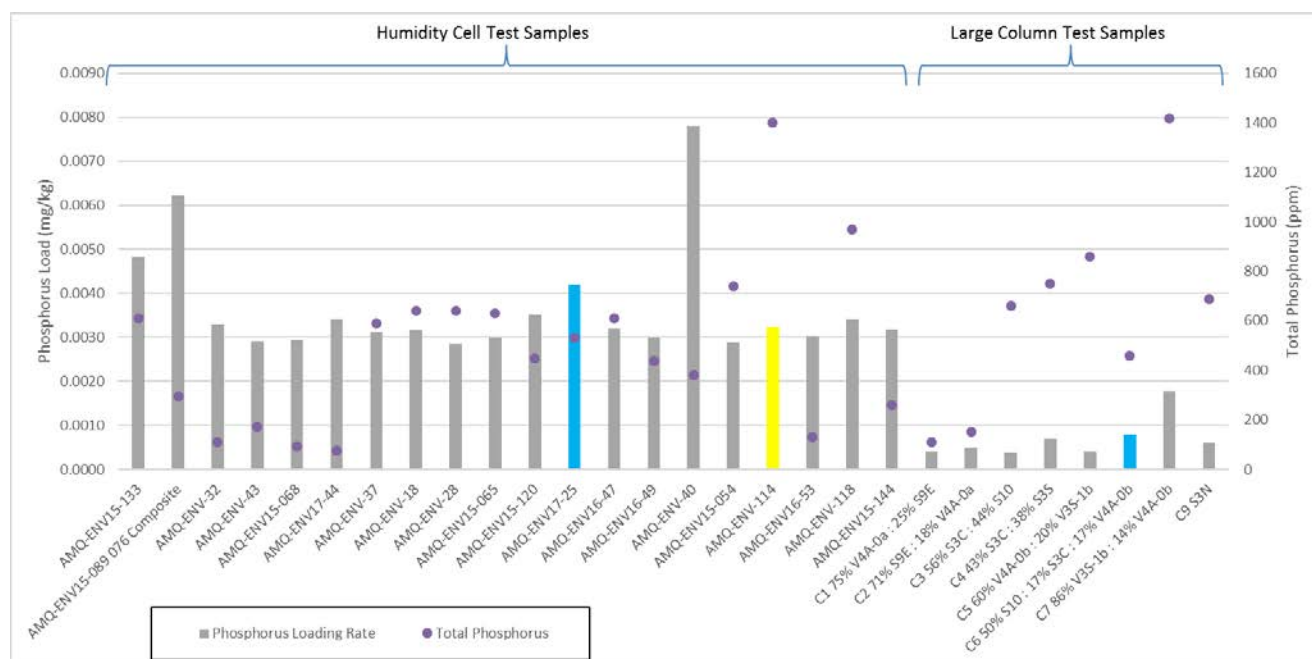


Figure 2: Comparison of Large Column and HCT Loading Rates

Through this comparison it was determined that the HCT loading rates were nearly an order of magnitude higher for all rock types. This is likely due to a higher dissolution rate associated with the higher liquid to solid ratio in the HCT (1:1) compared to the large column tests (1:10) (Golder 2018a). It was therefore determined that the HCT-derived loading rate for the diorite was overestimating potential phosphorus release from this rock type and should be adjusted to be more consistent with anticipated field conditions and with the loading rates used for the other rock types in the water quality model, particularly the south greywacke also used to represent the WRSF cover material.

2.2.2 Adjustment of Diorite Loading Rate

The loading rate for each test is provided in in Table 1. For each rock type, the ratio of HCT to large column loading rates was calculated for each HCT sample; Table 1 presents the average of these ratios where the sample count is greater than one. For the diorite and basalt north, no large column testing has been completed and the average load ratio was not calculated.

The phosphorus loading rates from the diorite HCT were adjusted downward based on the median of the average load ratios presented in Table 1 (i.e. the loading rate of 0.0032 mg/kg was divided by a factor of 7.5).

Table 1: Summary of Calculated Phosphorus Loading Rates for Kinetic Test Samples

Rock Type	Kinetic Test	Sample Count	Average Phosphorus Load (mg/kg/week)	Average Load Ratio ¹ (HCT : Column)
Komatiite North (V4A-0a)	HCT	3	0.0030	7.7
	Large Column	1	0.00040	
Komatiite South (V4A-0b)	HCT	1	0.003	8.5
	Large Column	1	0.0004	
Greywacke Central (S3C)	HCT	5	0.003	8.2
	Large Column	1	0.0004	
Greywacke South (S3S)	HCT	1	0.004	6.1
	Large Column	1	0.0007	
Greywacke North (S3N)	HCT	2	0.003	5.2
	Large Column	1	0.0006	
Chert Central (S10)	HCT	2	0.005	6.8
	Large Column	1	0.0008	
Diorite South (I2)	HCT	1	0.003	-
Basalt North (V3N)	HCT	1	0.003	-
Basalt South (V3S)	HCT	1	0.003	1.9
	Large Column	1	0.002	
Iron Formation (S9E)	HCT	1	0.003	6.7
	Large Column	1	0.0005	

1-average ratio calculated based on the ratio for each sample where the sample count is greater than 1, rather than the average phosphorus loading rate.

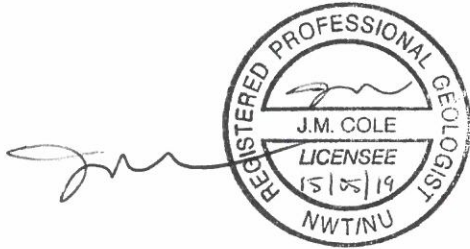
The phosphorus loading rates used in the FEIS model are compared with the adjusted loading rate for the WL model in Table 2. After downwards adjustment of the diorite rate, it was then more consistent with the loading rates observed from the other column tests, including the south greywacke.

Table 2: Summary of WRSF Cover Inputs to FEIS Model

Lithology	Sample ID	Test	Total Phosphorus (ug/kg)	Phosphorus Load (mg/kg)	
				FEIS Model	WL Model
Diorite (I2S)	AMQ-ENV-114	HCT	1400	0.0032	0.00043
South Greywacke (S3S)	C4 43% S3C : 38% S3S	Large Column	750	0.00069	0.00069

3.0 CLOSURE

We trust this memorandum meets your current needs. Please do not hesitate to contact the undersigned should you have any questions or comments.



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[https://golderassociates.sharepoint.com/sites/102627/technical work/03_arsenic-mgmt/2190_p loading/rev0/18108905-289-tm_phosphorusloading-rev0.docx](https://golderassociates.sharepoint.com/sites/102627/technical%20work/03_arsenic-mgmt/2190_p%20loading/rev0/18108905-289-tm_phosphorusloading-rev0.docx)

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