Appendix 12

Whale Tail Water Management Plan Version 4

AGNICO EAGLE

Meadowbank Division

WHALE TAIL PIT

Water Management Plan

MARCH 2020
VERSION 4

EXECUTIVE SUMMARY

Agnico Eagle Mines Limited – Meadowbank Division (Agnico Eagle) is developing the Whale Tail Pit and Haul Road Project (Project), a satellite deposit located on the Amaruq property, to extend mine operations and milling at Meadowbank Mine.

The open pit mine, mined by truck-and-shovel operation, includes four development phases: 1 year of construction (complete), 3 years of mine operations, 8 years of closure, and the post closure period. On September 30th, 2019 commercial production began at the Whale Tail Pit. Currently the permitting phase is underway to extend the mine life of the project.

The water management objectives are to minimize potential impacts to the quantity and quality of surface water at the mine site. Water management structures (water retention dikes/berms and diversion channels) have been and will be constructed, dependent on the potential presence and volume of water, to contain and manage the contact water from the areas affected by the mine or mining activities. The major water management infrastructure includes: two contact water ponds, one water diversion channel, four water retention dikes, one seepage collection system, and two Water Treatment Plants (WTP). Non-contact water is managed in specific ponds with their own pumping systems.

This Water Management Plan for the Project describes the main objectives pertaining to water management, which are to limit and/or stop the flow of surface water runoff in the pit and to limit the impact on the local environment. In developing the water management plan, the following principles were followed:

- keep the different water types separated as much as possible;
- control and minimize contact water through diversion and containment;
- minimize freshwater consumption by recycling and reusing the contact and process water wherever feasible; and
- meet discharge criteria before any site contact water is released to the downstream environment.

During mine construction and operations, contact water originating from affected areas on surface is intercepted, diverted and collected within the various collection ponds. The collected water on the mine site is pumped and stored in the Whale Tail Attenuation Pond starting in the summer of 2020, where the contact water is treated by the WTP prior to discharge to the receiving environment or reused in the operations. Prior to the summer of 2020 Whale Tail North Pond is used for non-contact water management and Quarry 1 is used for contact water management.

During operations, site contact water quality is predicted to exceed established effluent criteria (i.e. under the Whale Tail Water Licence for arsenic and total dissolved solids in the Whale Tail Waste

Rock Storage Facility (WRSF) Pond and in the Whale Tail Pit sump. Therefore, this water will be controlled by constructing the Whale Tail WRSF Dike and the Whale Tail Attenuation Pond. The Whale Tail WRSF Pond water will report with all other contact water and will be mixed in the Whale Tail Attenuation Pond and treated during operations. Through best management practices and mitigation, the predicted water quality of Whale Tail Lake (North Basin) meets aquatic life guidelines post-closure.

The updated water quality model shows a positive effect on water quality through operations; constituent loads coming from the WRSF and the open pit, which report to the Attenuation Pond, are lower. At closure and post-closure, flooded pit water quality is predicted to meet receiving water quality criteria when flooding is complete, allowing reconnection with the downstream receiving environment. Arsenic release from the submerged Whale Tail Pit walls is anticipated once pit-flooding commences but is expected to be a relatively short-lived source to the flooded pit lake. The site wide water balance is updated on a regular basis and end pit water quality modelling will be conducted as needed to update predictions.

Dikes will not be breached until the water quality in the flooded area meets the Canadian Council of Ministers of the Environment Water Quality Guidelines, baseline concentrations or appropriate site-specific water quality objectives. During mine closure, no mine discharges will occur to the downstream receiving environment since all contact waters are diverted to the open pit and Whale Tail Lake (North Basin) for re-flooding. The water quality in the open pit and Whale Tail Lake (North Basin) averaged over the closure period is predicted to be similar to that of the last year of operations, with similar maximum and average concentrations.

DOCUMENT CONTROL

Version	Date	Section	Page	Revision	Author
1	January 2017			Water Management Plan for the Whale Tail Pit	Agnico Eagle Meadowbank Division and Golder Associates Ltd.
2	September 2018	All	All	Water Management Plan for the Whale Tail Pit	Agnico Eagle Meadowbank Division and SNC-Lavalin Inc.
3	October 2018	3.1.4.11 3.3.1	23 32	Updated to align with recommendations issued by CIRNAC, ECCC and KIA in October 2018	Agnico Eagle Meadowbank Division
4	March 2020	All	All	Updated to reflect current operations/water management and to comply with commitments and requests	Agnico Eagle Meadowbank Division

TABLE OF CONTENTS

EXECUTIVE SUMMARY ..... **i**

DOCUMENT CONTROL ..... **iii**

TABLE OF CONTENTS ..... **iv**

Acronyms ..... **vii**

Units ..... **viii**

Section 1 • INTRODUCTION **1**

Section 2 • BACKGROUND INFORMATION **3**

2.1 Site Conditions 3

2.1.1 Climate 3

2.1.2 Permafrost 6

2.1.3 Hydrology 8

2.1.4 Surface Water Quality 8

2.1.5 Climate Change 9

2.1.6 Seismic Zone 9

2.2 Mine Operations Description 9

2.2.1 Mine Development Plan 9

2.2.2 Summary of Mine Waste Management 10

Section 3 • WATER MANAGEMENT PLAN AND WATER BALANCE **11**

3.1 General Water Management Strategy 11

3.1.1 Water Management Objectives and Strategies 11

3.1.2 Water Management System 12

3.1.3 Waterbody Inventory 12

3.1.4 Water Management Plan During Construction and Operations 14

3.1.5 Freshwater and Sewage Water Management 27

3.2 Water Management During Closure 29

3.2.1 Open Pit and Refilling of Whale Tail Lake (North Basin) 31

3.2.2 Contact Water Collection System 32

3.3 Water Balance 32
3.4 Water Quality Forecast 33
Section 4 • REFERENCES 34

List of Tables

Table 1.1 Overview of Timeline and General Activities 2
Table 2.1 Estimated Mine Site Monthly Mean Climate Characteristics 5
Table 2.2 Estimated Mine Site Extreme 24-Hour Rainfall Events 5
Table 2.3 Summary of Mine Waste Tonnage and Destination 10
Table 3.1 Inventory of Waterbodies Directly Impacted by Mining Activities 13
Table 3.2 Water Management Facilities and Construction Schedule 14
Table 3.3 Water Management Activities During Construction and Operations 19
Table 3.4 Overall Site Surface Contact Water Management Plan 20
Table 3.5 Effluent Quality and Wastewater Characteristics 29
Table 3.6 Key Water Management Activities During Mine Closure 30

List of Figures

Figure 2.1 Location of the Project 4
Figure 2.2 Permafrost Map of Canada 7
Figure A.1 Yearly Site Layout Plan (Year -1: 2018) 37
Figure A.2 Yearly Site Layout Plan (Year 1: 2019) 37
Figure A.3 Yearly Site Layout Plan (Year 4: 2022) 37
Figure A.4 Yearly Site Layout Plan (Year 11: 2029) 37
Figure A.5 WRSF, Starter Pit and Ore Stockpile Plan View, Roads and Pads Construction 37

List of Appendices

Appendix A Yearly Site Layout Plans

Appendix B Water Management Schematic Flow Sheets

Appendix C 2019 Water Balance Report

Appendix D Whale Tail Water Quality Forecast Update

Appendix E 2019 Freshet Action Plan

ACRONYMS

Agnico Eagle	Agnico Eagle Mines Limited – Meadowbank Division
CCME	Canadian Council of Ministers of the Environment
DFO	Department of Fisheries and Oceans Canada
FEIS	Final Environmental Impact Statement
NWB	Nunavut Water Board
NE	North-East
OMS	Operation, Maintenance, and Surveillance
PGA	Peak Ground Acceleration
Plan	Water Management Plan
Project	Whale Tail Pit
STP	Sewage Treatment Plant
TSS	total suspended solids
WRSF	Waste Rock Storage Facility
WSER	Wastewater System Effluent Regulations
WTP	Water Treatment Plant
WT	Whale Tail
WTSC	Whale Tail South Channel

UNITS

±	plus or minus
<	less than
%	percent
°C	degrees Celsius
°C/m	degrees Celsius per metre
masl	metre(s) above sea level
mg/L	milligrams per litre
km	kilometre(s)
km^2	kilo square metre(s)
L/day/person	litres per person per day
m	metre
mm	millimetre
m^3	cubic metre(s)
m^3/day	cubic metres per day
m^3/hour	cubic metres per hour
m^3/year	cubic metres per year
Mm^3/year	million cubic metre(s) per year
Mm^3	million cubic metre(s)
t	tonne
Mt	million tonne(s)

SECTION 1 • INTRODUCTION

Agnico Eagle Mines Limited – Meadowbank Division (Agnico Eagle) is developing the Whale Tail Pit and Haul Road Project (Project), a satellite deposit located on the Amaruq property, to continue mine operations and milling at Meadowbank Mine.

The Amaruq property is a 408 square kilometre (km^2) site located on Inuit Owned Land approximately 150 kilometres (km) north of the hamlet of Baker Lake and approximately 50 km northwest of Meadowbank Mine in the Kivalliq Region of Nunavut. The deposit will be mined as an open pit (i.e., Whale Tail Pit), and ore will be hauled to the approved infrastructure at Meadowbank Mine for milling.

The open pit mine, mined by truck-and-shovel operation, includes four development phases: 1 year of construction (complete), 3 years of mine operations, 8 years of closure, and the post closure period. Currently the permitting phase is underway to extend the mine life of the project. The construction and preparation of material started in summer 2018 after all permits and authorizations were received and construction of the dikes started in the third quarter of Year -1 (2018). Focus on site preparation and construction of infrastructure, with the development of the open-pit to produce construction material continued in 2018 and 2019. On September 30th, 2019 commercial production began.

During operation, waste rock and overburden is piled in the Whale Tail Waste Rock Storage Facility (Whale Tail WRSF) and ore is stockpiled on the ore pads. The operational phase will span approximately 3 years, from Year 1 (2019) to Year 4 (2022). Mining activities are expected to end in Year 3 (2021) and ore processing is expected to end during the first quarter of Year 4 (2022). Closure will occur from Year 4 (2022) to Year 11 (2029) after the completion of mining and will include removal of the non-essential site infrastructure and flooding of the mined-out open pit as well as reestablishment of the natural Lake A17 (Whale Tail Lake) level. Only essential infrastructure related to water treatment will remain on site during the closure and post-closure phases. Accordingly, in addition to the Water Treatment Plant (WTP), a part of the camp, including all infrastructure allowing camp autonomy and security, as well as site roads, will be maintained following the operational phase (see more information in the Whale Tail Pit Interim Closure and Reclamation Plan). Post-closure is expected from Year 11 (2029) onwards. Site and surrounding environment monitoring started from the beginning of the construction and will be completed during the post-closure phase when it is shown that the site and water quality meets the regulatory closure objectives. Table 1.1 summarizes the overview of the timeline and general activities.

Table 1.1 Overview of Timeline and General Activities

Phase	Year	General Activities
Construction	Year -1	• Construct site infrastructure • Develop open pit mine • Stockpile ore
Operations	Year 1 to 3	• Open pit operations • Transport ore to Meadowbank Mine • Stockpile ore • Discharge Tailings in Meadowbank TSF
	Year 4	• Complete transportation of ore to Meadowbank Mine • Complete discharge of tailings in Meadowbank TSF
Closure	Year 4 to 11	• Remove non-essential site infrastructure • Flood mined-out open pit • Re-establish natural Whale Tail Lake level
Post-Closure	Year 11 onwards	• Site and surrounding environment monitoring

TSF = Tailings Storage Facility

This document presents the Water Management Plan (Plan) for the Project in accordance with Part B, conditions 14 and 15, and Part E, condition 7, of the Nunavut Water Board (NWB) Water License 2AM – WTP1826. It is also addressing Term and Condition n. 6 of the Nunavut Impact Review Board (NIRB) project certificate. Agnico Eagle has applied the same water management and water balance approach in this document as used for the annual Meadowbank Mine Water Management Report (Agnico Eagle, 2015a and 2019). The purpose of this Plan is to provide consolidated information on water management, required water management infrastructure, and water balance for the operations of Whale Tail Pit as a satellite pit for the Meadowbank Mine. This plan also includes lessons learned on water management at site during the first year of the project, as well as adaptive management methods put in place to ensure proper water management practices. Finally, this plan includes the Whale Tail water quality forecast update (Appendix D).

This Plan will be updated as required to reflect any changes that occur in operations or economic feasibility, and to incorporate new information and the latest technology, where appropriate.

SECTION 2 • BACKGROUND INFORMATION

2.1 Site Conditions

The general mine site location for the Project is presented in Figure 2-1.

2.1.1 Climate

Climate characteristics presented herein were extracted from the permitting level engineering report (SNC 2015).

The Project is in an arid arctic environment that experiences extreme winter conditions, with an annual mean temperature of -11.3 degrees Celsius (°C). The monthly mean temperature ranges from -31.3°C in January to 11.6°C in June, with above-freezing mean temperatures from June to September. The annual mean total precipitation at the Project is 249 millimetres (mm), with 59 percent (%) of precipitation falling as rain, and 41% falling as snow. Mean annual losses were estimated to be 248 mm for lake evaporation, 80 mm for evapotranspiration, and 72 mm for sublimation. Mean annual temperature, precipitation, and losses characteristics are presented in Table 2.1.

Short-duration rainfall, representative of the Project are presented in Table 2.2, based on intensity-duration-frequency curves available from the Baker Lake A meteorological station (Station ID 300500) operated by the Government of Canada (2015).

Figure 2.1 Location of the Project

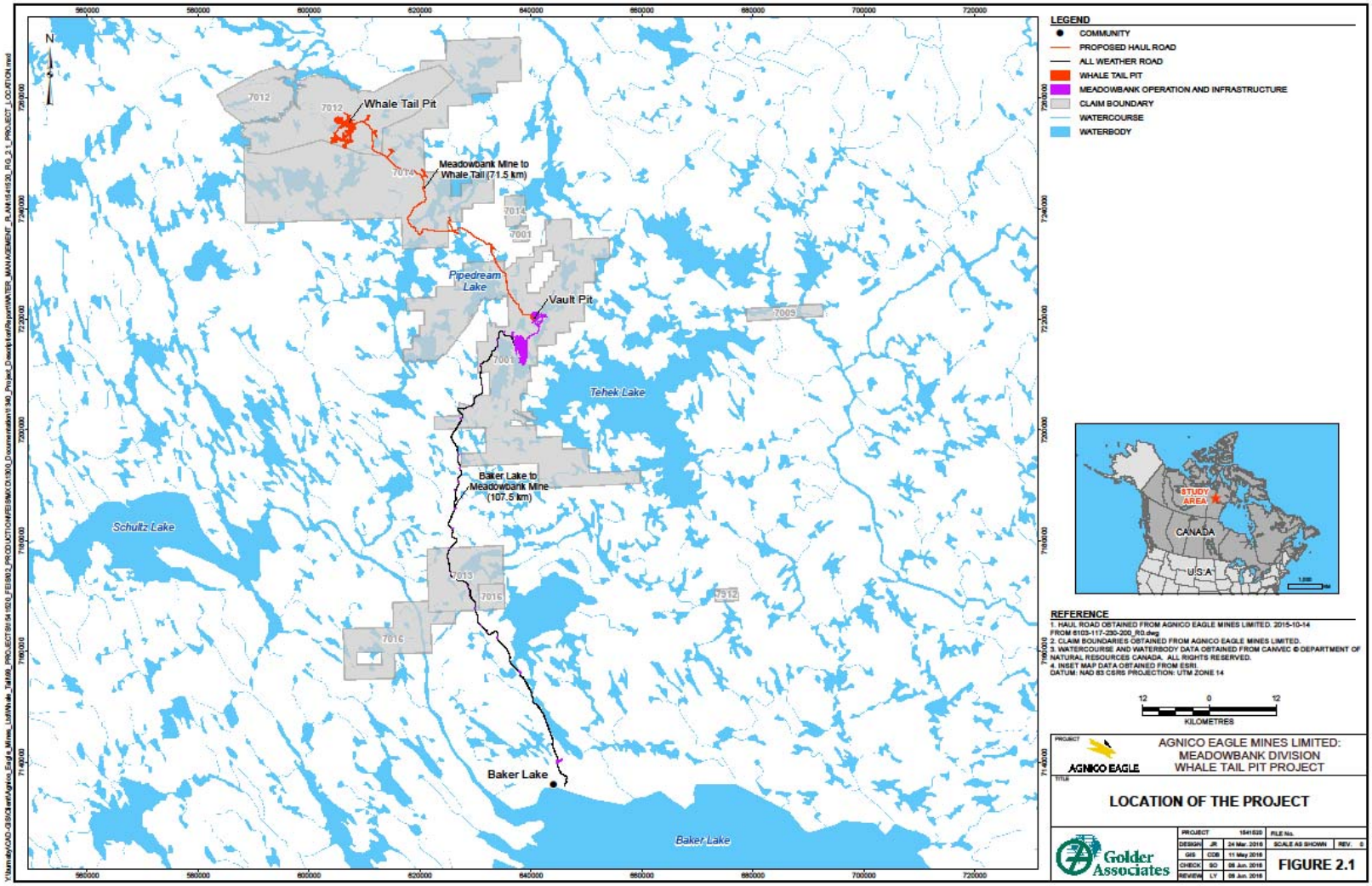


Table 2.1 Estimated Mine Site Monthly Mean Climate Characteristics

Month[a]	Mean Air Temp. (°C) [a]	Monthly Precipitation (mm) [a]			Losses [a]		
		Rainfall (mm)	Snowfall Water Equivalent (mm)	Total Precip. (mm)	Lake Evap. (mm)	Evapo-transpiration (mm)	Snow Sublimation (mm)
January	-31.3	0	7	7	0	0	9
February	-31.1	0	6	6	0	0	9
March	-26.3	0	9	9	0	0	9
April	-17.0	0	13	13	0	0	9
May	-6.4	5	8	13	0	0	9
June	4.9	18	3	21	9	3	0
July	11.6	39	0	39	99	32	0
August	9.8	42	1	43	100	32	0
September	3.1	35	7	42	40	13	0
October	-6.5	6	22	28	0	0	9
November	-19.3	0	17	17	0	0	9
December	-26.8	0	10	10	0	0	9
Annual	-11.3	146	103	249	248	80	72

[a] SNC (2015).

°C = degrees Celsius; mm = millimetre.

Table 2.2 Estimated Mine Site Extreme 24-Hour Rainfall Events

Return Period (Years) [a]	24-hour Precipitation (mm) [a]
2	27
5	40
10	48
25	57
50	67
100	75
1000	101

[a] SNC (2015).

mm = millimetre.

2.1.2 Permafrost

The mine site is located in an area of continuous permafrost, as shown on Figure 2.2. Based on measurements of ground temperatures (Knight Piésold 2015), the depth of permafrost at the mine site is estimated to be in the order of 425 metres (m) outside of the influence of waterbodies. The depth of the permafrost and active layer will vary based on proximity to the lakes, overburden thickness, vegetation, climate conditions, and slope direction. The typical depth of the active layer is 2 m in this region of Canada. The typical permafrost ground temperatures at the depths of zero annual amplitude (typically at the depth of below 15 m) is approximately -8.0 °C in the areas away from lakes and streams. The geothermal gradient measured is 0.02 degrees Celsius per meter (°C/m) (Knight Piésold 2015). Late-winter ice thickness on freshwater lakes is approximately 2.0 m. Ice covers usually appear by the end of October and are completely formed in early November. The spring ice melt typically begins in mid-June and is complete by early July.

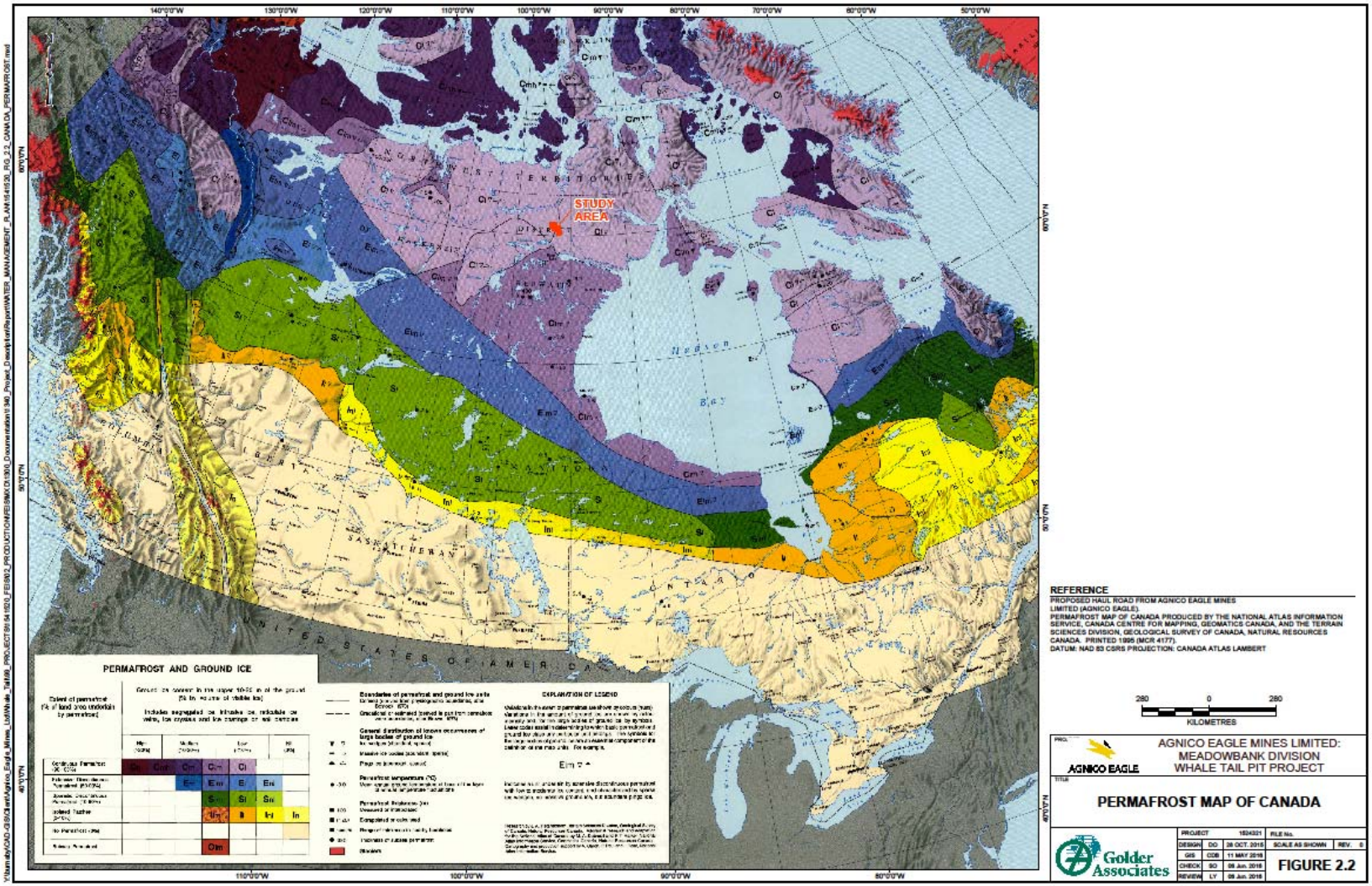
Groundwater characteristics at the mine site are detailed in the Final Environmental Impact Statement (FEIS), Volume 6, Section 6.2 (Agnico Eagle, 2016) and are briefly summarized herein.

Two groundwater flow regimes in areas of continuous permafrost are generally present:

- a deep groundwater flow regime beneath the base of the permafrost; and
- a shallow flow regime located in an active (seasonally thawed) layer near the ground surface.

From late spring to early autumn, when temperatures are above 0˚C, the active layer thaws out. Within the active layer, the water table is expected to be a subdued replica of the topography and is expected to parallel the topographic surface. Project area groundwater in the active layer flows to local depressions and ponds that drain to larger lakes at velocities estimated to range from about 0.004 m/day to 0.08 m/day.

Figure 2.2 Permafrost Map of Canada



2.1.3 Hydrology

Hydrology characteristics were extracted from the surface water quantity impact assessment section (FEIS, Volume 6, Section 6.3; Volume 6, Appendix 6-C, Agnico Eagle, 2016).

The mine site is located in the A watershed (i.e., where Lake A17 [Whale Tail Lake] and Lake A16 [Mammoth Lake] are located), and water management activities are planned in the A watershed and the C watershed (i.e., where Lake C38 [Nemo Lake] is located); these two watersheds drain into Lake DS1, which drains north to the Meadowbank River. These watersheds comprise an extensive network of lakes, ponds, and interconnecting streams, and have lake water surface fractions (i.e., the ratio of lake area to watershed area) of 16% (A watershed) and 23% (C watershed).

Shorelines in the mine site area exhibit a consistent terrain type related to shorelines that have developed in morainal material. These morainal shorelines were observed at all lakes visited during the 2015 field survey. Limited areas of bedrock and shallowly sloped sandy shorelines were also observed. As a general characteristic for the surveyed shorelines, the predominant materials are boulder gardens mixed with cobble with very limited soils or organic materials on top. The outlet channels are relatively short with a low sinuosity (i.e., close to 1.0) and exhibit the same characteristics for streambed materials, which results in interstitial flow through large boulders or below the surface likely close to the bedrock, making flow difficult to observe and measure.

Discharges of watercourses in the mine site area typically peak in late-May to mid-June from snowmelt, rapidly decline in July, and low discharges prevail until frozen conditions in October to November, with a secondary peak in September from rainfall events. Watercourses in the Project area are frozen over the winter.

Derived long-term mean annual water yield for selected lakes in the mine site area vary between 86 mm at Lake C38 (Nemo Lake) to 230 mm at Lake A69. These water yields are similar to regional water yields reported at the Meadowbank Mine.

2.1.4 Surface Water Quality

Water quality characteristics were extracted from the water quality baseline report (FEIS, Volume 6, Appendix 6-G, Agnico Eagle, 2016) and the water quality impact assessment section (FEIS, Volume 6, Section 6.4, Agnico Eagle, 2016). Baseline water quality sampling was conducted at lakes and tributaries in various watersheds in the study area during open-water conditions in 2014 and 2015.

Surface water collected from lakes during the open water season was characteristic of low productivity headwater lakes in the Arctic; soft water, with low alkalinity, low turbidity (and corresponding high Secchi depth) and low total suspended solids (TSS). There was minor thermal stratification evident at some deeper lake stations. The water columns of lakes are well oxygenated, and pH was neutral to slightly acidic. The majority of water chemistry parameter concentrations were below the analytical detection limit and below the Canadian Council of Ministers of the

Environment water quality guidelines for the protection of aquatic life (CCME, 1999) and the Canadian drinking water guidelines (Health Canada, 2014).

Samples collected from the tributaries showed them to be well oxygenated, with low conductivity, and neutral to slightly alkaline pH. As with the lakes, the majority of the water chemistry parameter concentrations were below the aquatic life and drinking water quality guidelines.

2.1.5 Climate Change

Climate change information presented herein was extracted from the air quality impact assessment section (FEIS, Volume 4, Section 4.2, Agnico Eagle, 2016).

The climate in the Arctic is changing faster than at mid-latitudes (IPCC, 2014). The most recent set of climate model projections (CMIP5) predict an Arctic-wide year 2100 multi-model mean temperature increase of +13°C in late fall and +5°C in late spring under the IPCC's "business as usual scenario" (RCP8.5). IPCC climate change mitigation scenario RCP4.5 results in a year 2100 multi-model Arctic wide prediction of +7°C in late fall and +3°C in late spring (Overland et al., 2013). The effects of changes of this magnitude to terrestrial, aquatic and marine ecosystems, social and economic systems of the Arctic are an active area of research. However, the short duration of the proposed Project means that climate change related effects to the Project are likely negligible.

2.1.6 Seismic Zone

The mine site is located in an area of relatively low seismic risk. The peak ground acceleration (PGA) for the area was estimated using seismic hazard calculator from the 2010 National Building Code of Canada website (http://www.earthquakescanada.nrcan.gc.ca/hazard-alea/interpolat/index_2010-eng.php). The estimated PGA is 0.019 g for a 5% in 50-year probability of exceedance (0.001 per annum or 1 in 1,000-year return) and 0.036 g for a 2% in 50-year probability of exceedance (0.000404 per annum or 1 in 2,475 year return) for the area.

2.2 Mine Operations Description

2.2.1 Mine Development Plan

Whale Tail Pit will be mined using traditional open pit method, and the mining is planned from Q2 of Year -1 (2018) to the end of Year 3 (2021).

Two mine waste streams will be produced at Whale Tail Pit; waste rock and overburden. As ore is transported to the Meadowbank Mine for processing, a third mine waste stream, tailings, will be produced at Meadowbank Mine (refer to the Whale Tail Pit – Waste Rock Management Plan, Agnico Eagle, 2020a). The operation, management, and monitoring of the TSF is regulated under the Agnico Eagle Type A water Licence 2AM-MEA1526.

The mine development will include the following major infrastructure:

- industrial area (camp and garage);
- crusher;
- ore stockpiles;
- rock and overburden storage facilities;
- landfill;
- haul and access roads; and
- open pit mine.

In addition, the mine development will include construction of water management facilities, listed in Section 3.1.2.

2.2.2 Summary of Mine Waste Management

This section is a summary of the mine waste management plan. More detailed information on mine waste management is presented in the Whale Tail Pit – Waste Rock Management Plan, Agnico Eagle, 2020a. Water management associated with mine waste management is described in Section 3.1.4 of this document. One area of the site was identified as the Whale Tail WRSF to store waste rock and overburden material, as shown in Figure A.1 to Figure A.4 in Appendix A. Table 2.3 presents a summary of the proposed usage or destination for the waste material.

Table 2.3 Summary of Mine Waste Tonnage and Destination

Mine Waste Stream	Waste Destination
Overburden	• Temporary storage West of Whale Tail Lake • Co-disposed with waste rock in Whale Tail WRSF
Waste Rock	• Construction material • Whale Tail WRSF • Closure and site reclamation
Tailings	• As slurry tailings placed in the approved Meadowbank Mine tailings storage facility

WRSF = Waste Rock Storage Facility; Mt = million tonne

SECTION 3 • WATER MANAGEMENT PLAN AND WATER BALANCE

3.1 General Water Management Strategy

3.1.1 Water Management Objectives and Strategies

The goal of water management is to minimize the impact of the mine activities on the aquatic ecosystem surrounding the mining area. The key objectives for water management are:

- keep the different water types (i.e., contact, non-contact, and freshwater) separated to the extent practical;
- control and minimize contact water through diversion and containment;
- minimize freshwater usage by recycling and reusing the contact water to the extent practical; and
- meet discharge criteria before any site contact water is released to the downstream environment.

To achieve the above water management objectives, the following key strategies were implemented to develop the Plan:

- Two levels of catchment disturbance have been defined for the area, namely undisturbed and disturbed. Areas that have been disturbed as part of the mine development are considered disturbed catchments, while the areas left unaffected are considered undisturbed catchments.
- For the purpose of mine water management, runoff from undisturbed areas is considered non-contact water, while runoff from disturbed catchment areas is considered contact water. Surface water that is diverted around the mine facilities, or groundwater that does not emerge into a mine facility, is considered non-contact water. Any non-contact water that mixes with contact water becomes contact water.
- Conveyance and storage of contact water will be controlled by channels and containment structures (i.e., sumps and ponds). Sumps will be installed in the open pit and in low points surrounding the open pit. Contact water will be diverted and collected in various sumps and water collection ponds and conveyed to the Whale Tail Attenuation Pond.
- The collected water will be treated if the water quality does not meet the discharge criteria established in the Water Licence 2AM-WTP1826.
- The treated water will be reused as much as possible to minimize the freshwater requirements. The excess treated water will be discharged into Lake A16 (Mammoth Lake) through a submerged diffuser.
- Non-contact water will be intercepted and directed away from disturbed areas by means of natural catchment boundaries and/or man-made diversion structures or pumping systems and will be allowed to flow or to be discharged to the neighbouring waterbodies.

3.1.2 Water Management System

The water management system includes the following components (identified on Figure A.1 to Figure A.5 in Appendix A):

- two contact water collection ponds (Whale Tail Attenuation and Whale Tail WRSF);
- a temporary storage area for contact water (Quarry 1);
- three surface water collection ponds (Whale Tail Lake (South Basin), Mammoth Lake and Northeast Pond);
- two water diversion channels (South Whale Tail and North, if deemed necessary);
- four water retention dikes (Whale Tail, Mammoth, Whale Tail WRSF, and Northeast);
- seven proposed culverts (Culverts 181, 182, 183, 184, 185, 186, and Mammoth Channel Culvert, if deemed necessary);
- a freshwater intake causeway and pump system;
- a WTP and associated intake causeway;
- a Sewage Treatment Plant (STP);
- pipelines and associated pump systems;
- a Potable WTP;
- 4 discharge diffusers located in Lake A16 (Mammoth Lake; 3 permanent and 1 temporary);
- a dewatering system for the Whale Tail North Basin (to the South Basin and to Mammoth Lake including their respective diffusers).

Additional water management system components have been or will be put in place at the Whale Tail Project, in order to adapt effectively to the site conditions and to manage non contact water adequately. The following components are part of the to the global water management system:

- a pumping system from the North-East Pond to the C watershed;
- a pumping system from A53 Lake to Whale Tail South;
- a pumping system from Whale Tail South to Mammoth Lake;
- a pumping system from AP5 to the C watershed (part of licence B);
- the Whale Tail Dike seepage collection system; and
- a water movement system from A49 to A47 / North-East Pond.

Additional details on the water management system components are presented in section 3.1.4 of this plan.

3.1.3 Waterbody Inventory

The A and C watersheds will potentially be impacted by mining activities, primarily by dewatering of Whale Tail Lake (North Basin) to Lake A16 (Mammoth Lake), the Northeast Diversion to the C watershed, and the Whale Tail Lake (South Basin) Diversion to Lake A16 (Mammoth Lake).

Waterbodies directly impacted by mining activities are presented in Table 3.1 and shown in Figure A.2 in Appendix A.

Table 3.1 Inventory of Waterbodies Directly Impacted by Mining Activities

Watershed	Primary Disturbance	Waterbody	Note
A	Dewatering	Lake A16 (Mammoth Lake)	Receiving lake during dewatering activities
	Northeast Diversion	Lake A47	Flooded
		Lake A48	Flooded
		Lake A55	Flooded
		Lake A62	Flooded
		Lake A63	Flooded
		Lake A65	Flooded
		Lake A113	Flooded
		Pond A-P38	Flooded
		Pond A-P68	Flooded
	Whale Tail Lake (South Basin) Diversion	Lake A18	Flooded
		Lake A19	Flooded
		Lake A20	Flooded
		Lake A21	Flooded
		Lake A22	Flooded
		Lake A45	Part of diversion channel
		Lake A55	Flooded
		Lake A62	Flooded
		Lake A63	Flooded
		Lake A65	Flooded
		Pond A-P1	Flooded
		Pond A-P53	Flooded
	Various Water Management Activities	Lake A17 (Whale Tail Lake)	Water management activities include diversion of upper watershed and dewatering of Whale Tail Lake (North Basin)
		A53	Management of non-contact water
		AP5*	Management of non-contact water
		Lake A47 (North East Pond)	Management of non-contact water
		Lake A49	Management of non-contact water
C	Water Intake	Lake C38 (Nemo Lake)	

* No contact water from the open pit, WRSF and other surface contact water ponds was transferred to AP5. The discharge from AP5 of non-contact water to tundra was approved by the Water License 2BB-MEA1828 and authorized to proceed by the Inspector in the summer of 2019.

3.1.4 Water Management Plan During Construction and Operations

3.1.4.1 Infrastructure Required for Mine Site Water Management

During the mine construction, operational and closure phases, a network of collection and interceptor channels and sumps will be constructed and maintained to facilitate mine site water management. A list of the water management control structures and facilities is presented in Table 3.2 together with the proposed construction schedule. These structures were designed according to design criteria presented in the FEIS, Volume 2, Appendix 2-J (Agnico Eagle, 2016). Final design details of these structures will be provided to the regulators for approval at least 60 days prior to construction.

Water management strategy updates were also communicated in August and September 2019 to the Nunavut Water Board regarding changes to the management of non-contact water for specific areas of the project. Those changes are reflected in Table 3.2.

Appendix A, Figure A.1 to Figure A.5 shows the location of the main structures at the different development stages of the mine life. Information on operation, maintenance, and surveillance (OMS) of Project dikes is provided in the following sub-sections.

Table 3.2 Water Management Facilities and Construction Schedule

Mine Year	Figure	Water Management Facilities Constructed or Installed
Year -1 (2018) Construction	A.1 and A.5	• Turbidity Curtains installation for dike construction • Start Whale Tail Dike • Construction of the low-permeability access road built of overburden and collection sump for Stage 1 WRSF • Freshwater intake causeway in Nemo Lake • Water Treatment Plant and Construction Water Treatment Plant • Pipelines and associated pump systems for water management and dewatering • Sewage Treatment Plant • Potable Water Treatment Plant • Discharge diffuser in Mammoth Lake • Culverts 184, 186, and Mammoth Channel
Year 1 (2019) Operations	A.2	• Completion of Whale Tail Dike • Construction of Mammoth Dike • Construction of the Whale Tail WRSF Dike • Construction of the Northeast Dike • Start Construction of the South Whale Tail Diversion Channel • Construction of the dewatering system (ramp, pipe, diffuser) for the Whale Tail North Basin to the Whale Tail South Basin, dewatering system from North Basin to Mammoth Lake (and Water Treatment Plant) • Construction of the Whale Tail contact water intake causeway and

Mine Year	Figure	Water Management Facilities Constructed or Installed
		construction of the attenuation pond infrastructure (diffuser, pipeline) • Installation of pumping system from the North-East Pond to C Watershed (tundra) • Installation of pumping system from Whale Tail South to Mammoth Lake • Installation of pumping system from AP5 (Licence B) (non contact water from Whale Tail North and North East Pond were transferred to AP5) to the C-watershed • Construction of the of the Whale Tail Dike seepage collection system
Year 2-3 (2020-2021)		• Completion of South Whale Tail Channel • Installation of pumping system from A53 Lake to Whale Tail South, postponing the construction of the Whale Tail East Channel and Saddle/Coffer Dam • Installation of pumping system from lake A49 to North-East Sector to maintain the water level • Installation of pumping system from North-East Sector to the C-watershed • Installation of pumping system for contact water from the open pit to the Whale Tail Attenuation Pond (to Quarry 1 until freshet 2020) • Installation of pumping system for contact water from the Whale Tail WRSF Pond to the Whale Tail Attenuation Pond (to Quarry 1 until freshet 2020)

WRSF = Waste Rock Storage Facility.

3.1.4.2 Dike Construction

The following sections briefly describe the various dikes constructed for the Project. Information regarding the operation, surveillance, and maintenance of these structures is contained in the OMS Manual – Whale Tail Water Management Infrastructures (Agnico Eagle, 2019b). Additional information regarding construction of the dikes including all design drawings and figures, can be found in the As-built reports created and submitted for each structure.

Whale Tail Dike

The WTD was constructed to raise Whale Tail Lake (South Basin), Lake A18, Lake A19, Lake A20, Lake A21, Lake A22, Lake A55, Lake A62, Lake A63, Lake A65, Pond A-P1, and Pond A-P53, to an elevation of 156.0 metres above sea level (masl), and divert runoff downstream to the Lake A16 (Mammoth Lake) watershed through the Whale Tail Lake (South Basin) diversion channel. Whale Tail Dike is a zoned rockfill dike constructed on the lakebed foundation with a core composed of a fine filter dynamically compacted. A coarse filter was placed between the rockfill and the fine filter. A cement-bentonite cut-off wall consisting mainly of secant piles was constructed through this dense core and acts as a seepage barrier.

Additional information including all design drawings and figures can be found in the Whale Tail Dike Detailed Design Report (SNC, 2018a).

Whale Tail Dike Seepage

The Whale Tail Dike was commissioned on March 5, 2019 with the beginning of the dewatering activity of the North Basin. During the construction of the dewatering ramp extension in April 2019, the pumping was interrupted. During that time, a decrease of the water level was observed in the South Basin (upstream) and an increase of the water level on the North Basin (downstream). Seepage was identified as a probable cause for these observations.

In July 2019, the seepage flow was measured using v-notch weirs at approximately 300 m^3/h which is higher than what was anticipated in the water balance. A detailed investigation including additional instrumentation and geophysics was conducted for a better understanding of the seepage phenomenon at the Whale Tail Dike. A pumping system was installed to manage the seepage water, as presented in section 3.1.4.15 of this report. Agnico Eagle continues to closely monitor the situation and is conducting an intensive grouting campaign to further reduce the seepage flow.

Mammoth Dike

The Mammoth Dike was constructed to protect the mine site area from potential backwatering from Lake A16 (Mammoth Lake) during the operational and closure phases. Mammoth Dike has a length of about 330 m and a height of 2 m. The Mammoth Dike is a rockfill dike lined with bituminous geomembrane on its upstream face encapsulated at the toe in a layer of fine filter amended with bentonite (FFAB) liner in turn constructed in a key trench. The key trench extends down to the bedrock on most the dike length. A thermal berm of rockfill was placed on top of the key trench during the winter season to prevent the FFAB from thawing.

Whale Tail WRSF Dike

The WRSF Dike confines contact water in the Whale Tail WRSF Pond before it is pumped to the Whale Tail Attenuation Pond. The WRSF dike is about 360 m long and 5 m high. The Whale Tail WRSF Dike is a rockfill dike with a bituminous liner on its upstream face encapsulated at the toe in a layer of FFAB liner in turn constructed in a key trench. The FFAB liner takes advantage of frozen soil conditions to integrate the permafrost into its foundation (and key trench).

On August 2019, seepage from WRSF Pond reported through this structure to Mammoth Lake inducing tension cracks on the crest of the structure. Immediate actions taken were to build an access road to the downstream portion of the dike, in order to excavate a small sump and pump the seepage water into WRSF pond. Furthermore, WRSF Pond was emptied and maintained dry. Downstream pumping stopped on September 30th, when the reporting flow and surrounding had frozen. In October 2019, the KIA conducted a sample analysis of the lake bed sediments in Mammoth Lake. The report concluded the seepage did not have a measurable impact on metal quantities of the Mammoth Lake sediments (McDougall et al. 2019).

A series of measures are currently being implemented by Agnico to minimize the risk of future similar events occurring in this location:

- Water level will be kept as low as possible in the WRSF pond throughout 2020, as recommended by the MDRB;
- Promotion of permafrost penetration into the dikes foundation by:
    - Snow removal at the toe of the structure;
    - Addition of thermal cover on the upstream portion of the dike;
    - Assessment of freeze back performance with periodic instrumentation review;
- A downstream water collection system will be designed and constructed;
- Various environmental monitoring programs:
    - Monthly limnology profile of Mammoth Lake during winter and open water conditions;
    - Mammoth Lake to be included in a Core receiving environmental monitoring program; and
    - A sediment sampling campaign to be executed at Mammoth Lake.

Additional details on this event can be found in the letter submitted on December 20, 2019 to Environment and Climate Change Canada. Agnico Eagle continues to closely monitor the situation and is working on mitigation measure to ensure adequate performance of the structure.

Northeast Dike

The North East (NE) Dike is a temporary structure with an estimated service life of about two (2) years (planned to be dismantle in 2020) and is designed to prevent runoff from the Northeast watershed reporting to the Whale Tail Pit and to divert them to Nemo Lake. The upstream slope of the NE Dike is lined with bituminous geomembrane encapsulated at the toe in a layer of FFAB liner in turn constructed in a key trench to an ice-poor till foundation.

In the summer of 2019, it was observed that the topography toward Nemo Lake would not allow water to overflow naturally before overtopping the dike liner. The conveyance system was changed to a pumping system as documented in the letter sent to the Nunavut Water Board (2AM-WTP1826). This change in conveyance was required in order to comply with the original intent of the approved water management plan. During an inspection in July 2019, the topography towards Nemo Lake would not allow water to flow naturally from the North-East Pond, as was originally planned. Prior to sending the change in conveyance, Agnico managed the excess water internally, until significant rainfall added too much pressure on the site's dewatering system. Before this system was operational some water overtopped the liner resulting in minor settlement and tension cracks.

3.1.4.3 Dewatering

As per Type A Water Licence 2AM-WTP1826, Agnico Eagle has initiated the dewatering of Whale Tail Lake (North Basin) in 2019 following the construction of the dike and the fish out. To allow the mining of the Whale Tail Pit, Lake A17 (Whale Tail Lake) will be partly dewatered following the Whale Tail Dike construction.

The dewatering system consists of two systems. The first system consisted in transferring water from the North to the South Basin via a submerged dewatering diffuser. The second dewatering system from North Basin to Mammoth Lake consisted of pumping water from the North Basin to the WTP and then discharging it into Mammoth Lake via a submerged dewatering diffuser.

The estimated total volume of Whale Tail Lake (Lake A17) is 8.5 million m^3 (Mm^3). The dewatering started early March 2019. A total of 2,148,542 m3 of water was discharged directly to Whale Tail Lake South Basin without requiring treatment. The second phase of dewatering started mid June 2019 discharging to Lake A16 (Mammoth Lake). For this phase of dewatering, water from the North Basin was treated via the TSS removal unit of the WTP and discharged in Mammoth Lake through the diffuser. No arsenic treatment was required to date.

The complete dewatering systems design is available in the Whale Tail North Basin dewatering, 60-Day Notice to Nunavut Water Board (Agnico Eagle, 2018).

As per the Water Quality Monitoring and Management Plan for Dike Construction and Dewatering, TSS/turbidity is measured in the receiving environment on a weekly basis; monitoring is completed when safely possible, approximately 30 - 100 meters from end-of pipe, dependent on stable ice conditions during ice-up. This monitoring allows Agnico to follow the receiving environment water quality, detect any problem associated with the dewatering and put mitigation measures in place when required. In addition to the monitoring and management of suspended sediments, a hydraulic monitoring plan has been developed to monitor the water levels in Mammoth Lake and the South Basin. Outlet erosion inspections are completed to monitor outlet stability. Mammoth Lake and South Basin water levels are surveyed at a location of sufficient distance from the outlets to limit potential lake level drawdown effects. Results of the monitoring are reported in the Annual Report.

Once the dewatering phase will be completed (expected in Q2 2020), part of the North Basin located outside the Whale Tail Pit footprint will become the Whale Tail Attenuation Pond. The Attenuation Pond will receive contact water from different sumps and ponds around site.

3.1.4.4 Key Water Management Activities during Construction and Operations

An inventory of waterbodies impacted by mining activities is provided in Table 3.1 (Section 3.1.3) and the water management facilities required for the Plan is provided in Table 3.2 (Section 3.1.4.1). These tables should be read in conjunction with Table 3.3, which presents the yearly major water management activities during the construction and operational phases. Water management activities during the closure phase are described in Section 3.2.

Table 3.3 Water Management Activities During Construction and Operations

Mine Year	Water Management Activities and Sequence
Year -1 (2018)	• Temporarily pump contact water from the Stage 1 WRSF sump to Quarry 1 • Temporarily pump contact water from the starter pit, construction and industrial sector to Quarry 1 • Treat turbid water from construction using the construction WTP and discharge in Whale Tail North • Pump STP effluent to Whale Tail Lake (North Basin) • Freshwater intake initially located in Whale Tail Lake (South Basin); moved to Lake C38 (Nemo Lake)
Year 1 (2019)	• Dewatering of Whale Tail Lake (North Basin) to Whale Tail South Basin and Mammoth Lake (through the WTP) • Pump contact water from the open pit to Quarry 1 • Pump contact water from the Whale Tail WRSF Pond to Quarry 1 • Treat through the WTP the Whale Tail North Water above discharge limit and discharge in Lake A16 (Mammoth Lake) • Pump contact water from Quarry 1 to Mammoth Lake (when water quality meets discharge criteria) (following authorization) • Pumping of non-contact water from: o North-East Pond to the C-watershed o North-East Pond to Whale Tail North o North-East Pond to AP5 (Licence B) o A53 Lake to Whale Tail North o Whale Tail South Basin to Mammoth Lake o AP5 to the C-watershed (Licence B) o Whale Tail North to Whale Tail South in the summer months o Whale Tail North to Mammoth o Whale Tail North to AP5 (Licence B) • Operation of the Whale Tail Dike seepage collection system by pumping seepage water to Whale Tail South Basin • Pump STP effluent to Whale Tail North
Year 2-3 (2020-2021)	• Completion of dewatering activity. WTN becomes an attenuation pond • Pump contact water from the open pit to the Whale Tail Attenuation Pond (to Quarry 1 until freshet 2020) • Pump contact water from the Whale Tail WRSF Pond to the Whale Tail Attenuation Pond (to Quarry 1 until freshet 2020) • Treat through the WTP the Whale Tail Attenuation Pond contact water and discharge in Lake A16 (Mammoth Lake) • Pump contact water from Quarry 1 to Mammoth Lake (if water quality meets discharge criteria) • Continue to pump non-contact water as per 2019 locations when required • Pumping of non-contact water from A53 to Whale Tail South • Whale Tail Lake (South Basin) flows to Lake A16 (Mammoth Lake) through the Whale Tail

Mine Year	Water Management Activities and Sequence
	Lake (South Basin) Diversion Channel • Operation of the Whale Tail Dike seepage collection system by pumping seepage water to Whale Tail South • Pump STP effluent to the Whale Tail Attenuation Pond • Maintain North-East Pond sector water level by pumping to Whale Tail North Basin (C-watershed, when water quality allows)

WRSF = Waste Rock Storage Facility; WTP = Water Treatment Plant.

Table 3-4 presented below summarizes the overall contact water management plan for the major mine infrastructure with the initial water collection location and final water destination. Note that no contact water was sent to the Whale Tail North Basin in 2019; contact water is sent to Quarry 1 until the 2020 freshet. Detailed water management information for major mine infrastructure areas is described in the following sub-sections. Water management of the non-contact water on site is also presented in section 3.1.4.15. Water management flowsheets for the construction and operations phase are provided in Appendix B.

Table 3.4 Overall Site Surface Contact Water Management Plan

Contact Water Source	Initial Contact Water Collection Location	Final Contact Water Collection Location
Industrial Sector	Whale Tail Attenuation Pond	Whale Tail Attenuation Pond (2020 to 2023) and Quarry 1 (before the 2020 freshet)
Whale Tail WRSF Sector	Whale Tail WRSF Pond (Quarry 1 for the temporary Stage 1 WRSF sump)	
Ore Stockpiles	Whale Tail Attenuation Pond	
Landfill	Whale Tail WRSF Pond	
Open Pit	Open pit sumps	

WRSF = Waste Rock Storage Facility.

3.1.4.5 Erosion and Sediment Control Plan

As described in the previous sections, Whale Tail Pit site infrastructure, channels, sumps and associated water management activities are designed with consideration of site wide erosion and sediment control. In addition to design controls, best management practices (BMPs) will furthermore ensure that activities, practices, devices or a combination thereof will prevent or reduce the release of sediments and will control erosion. The selection of permanent or temporary BMPs will be specific to the site and timing and may require regulatory approval prior to installation or construction.

Temporary BMPs for Whale Tail Pit may include:

- Silt fences and fabric installation;
- Turbidity curtains;
- Sediment control basins to detain sediment-laden water; and
- Diversion of flows away from the construction area.

Permanent BMPs at the Whale Tail Pit may include:

- Infiltration basins and trenches;
- Sedimentation basins or ponds; and
- Construction of swales in ditches.

Monitoring of erosion and sedimentation associated with construction and operations are discussed in Section 3.2 of this plan and are detailed in the Whale Tail Pit Water Quality and Flow Monitoring Plan. Dike construction sediment control and monitoring is presented in Whale Tail Pit Dike Construction and Dewatering Management Plan (FEIS Appendix 8 – A.2, Agnico Eagle, 2016).

For specific details on sediment control guidelines and license requirements, on erosion monitoring and mitigation during freshet and the rise of water level in the South Basin of Whale Tail Lake, refer to the Whale Tail Project - Erosion Management Plan (Agnico Eagle, 2018b).

3.1.4.6 Whale Tail Attenuation Pond

The main contact water pond of the Project (i.e., Whale Tail Attenuation Pond) will be located in a deep part of Whale Tail Lake (North Basin), following the dewatering of the North Basin. Until freshet 2020, Quarry 1 remains the main contact water pond for the Whale Tail site. Contact water from the major mine infrastructure will be diverted and/or collected in the Whale Tail Attenuation Pond. Contact water from the Whale Tail WRSF Pond will be pumped to the Whale Tail Attenuation Pond. Runoff water in the open pit will be collected by the sumps and then pumped to the Whale Tail Attenuation Pond.

Water collected in the Whale Tail Attenuation Pond will be reused to the extent practical in the open pit and dust control operations, and the excess water will be treated by the WTP for TSS and arsenic if required prior to discharge to the receiving environment via the diffuser into Lake A16 (Mammoth Lake). Water quality objectives for arsenic and phosphorous will be met via the diffusor design: 10 ports at 12.6 m spacing, 75mm diameter diffusor ports, and effluent mixing (mixing zone).

Monitoring of the effluent discharge to Mammoth Lake is done as per the Water License requirement and is detailed in the Whale Tail Pit Water Quality and Flow Monitoring Plan.

3.1.4.7 Water Management in Whale Tail Waste Rock Storage Facility

The Whale Tail WRSF will be used to permanently store all waste rock and overburden from mining activities.

Seepage and runoff from the Whale Tail WRSF during the construction and operational phases will be managed via the Whale Tail WRSF Pond, isolated by the Whale Tail WRSF dike, where the contact water will be pumped to the Whale Tail Attenuation Pond for further treatment. During the construction phase, and until the Whale Tail WRSF Dike was operational, runoff and especially water originating from thawed ice-rich soils was managed with ditches and local sumps. All overburden soils will be stabilized with waste rock berms in order to limit spreading and soil water separation. More details about management of the Whale Tail WRSF are presented in the Mine Waste Rock and Tailings Management Plan.

3.1.4.8 Water Management for Overburden Storage

The overburden storage is located within the catchment of the Whale Tail Attenuation Pond as shown in Figure A.2 (Appendix A). Based on the topographic information, contact water will naturally flow to the Whale Tail Attenuation Pond for further treatment. Channels will be constructed if deemed required.

3.1.4.9 Water Management for Ore Stockpile Areas

The ore stockpiles are located within the catchment of the Whale Tail Attenuation Pond as shown in Figure A.2, Figure A.3 and Figure A.5 (Appendix A). Based on the topographic information, contact water will naturally flow to the Whale Tail Attenuation Pond for further treatment. Channels will be constructed if deemed required and water management systems (i.e. pump, piping, etc) will be installed to direct the seepage and runoff to the pond.

A final grade of about 0.5% sloping towards the Whale Tail Attenuation Pond will be achieved. Any surface runoff from the ore stockpile or the pad will therefore be directed to the Attenuation Pond containment area.

3.1.4.10 Water Management for Quarry 1

Prior to commissioning of the Whale Tail Attenuation Pond contact water collected from the Stage 1 WRSF sump, from the starter pit, construction and industrial sector are pumped to Quarry 1.

The contact water from Quarry 1 is pumped to Mammoth Lake without treatment if water quality meets discharge criteria. The discharge is done via the permanent diffuser in Mammoth Lake. If needed, water could be treated via the Water Treatment Plant to meet discharge criteria.

Water quality monitoring follows the requirements of the Water License 2AM-WTP1826.

3.1.4.11 Water Management for the Pit Sector

The Whale Tail open pit is planned to extend to approximately 115 m below the ground surface. The open pit will be mined mostly within permafrost except for the north-central portion of the pit which will be within the closed talik at the northern end of Lake A17 (Whale Tail Lake). The pit does not extend through the bottom of the closed talik; however, the open pit acts as a sink for groundwater flow during operations, with water induced to flow up through the open talik beneath

the central portion of Lake A17 (Whale Tail Lake) and into the open pit. Accordingly, groundwater inflows into the open pit are expected; this water will be mixed with the open pit contact water and pumped to the Whale Tail Attenuation Pond for further treatment.

Once mining intersects the closed talik, the groundwater inflow to the pit is predicted to be 1,140 m^3/day. The overall inflow to the pit is not expected to decrease significantly as the pit deepens because the flow of water is primarily through the permeable weathered bedrock and because the lower portion of the pit is in permafrost. In 2019, a total of 343,274m^3 was pumped out of the Whale Tail Pit. It is important to note that most of the volume is expected to be due to residual water that remained and lakebed sediment drainage as the pit expanded into dewatered section of the Whale Tail North Basin. In 2020, the pit will continue to expand eastward towards Quarry 1. While most of the expansion is projected to be excavated in winter time, some sediment drainage is expected during the 2020 summer.

Groundwater inflow predictions during operations conservatively assume that no freeze-back will occur in the pit walls during mining. This assumption was adopted for Whale Tail Pit to be conservative and because during the first few years of mining, the pit will be both widened and deepened, resulting in the continual exposure of unfrozen bedrock. During the later years of mining; however, the pit development will be entirely within the permafrost and significant freeze back in the pit walls is considered possible and has been observed at Meadowbank. Although not simulated, if freeze back does occur as is the case at Meadowbank, actual groundwater inflow to the pit could be significantly lower.

Additional details on the most recent site water balance are presented in section 3.3 of this plan.

3.1.4.12 Water Management for Haul Roads

A network of access and haul roads will connect the ore body to the Whale Tail WRSF Sector and the Industrial Sector. The majority of the roadways servicing the mining area will drain directed towards the proposed contact water management infrastructure. Detailed information on roads is described in the Whale Tail Pit Haul Road Management Plan.

The approach to water management for these roads will involve the implementation of local best management practices during the construction, operational, and closure phases. The roads are constructed of non-potential for acid generating and non-leaching waste rock from mining operations. Other best management practices will strive to minimize the amount of runoff originating from the roadways and to prevent the migration of surfacing material from the roadways and crossings. Any areas identified as point sources of runoff originating from the roadways or crossings can be managed locally with silt fences, straw booms, turbidity curtains, interceptor channels, rock check dams, and/or small sedimentation ponds.

3.1.4.13 Water Management for Landfill

The landfill is located southeast of the Whale Tail WRSF, within the catchment of the Whale Tail WRSF Pond, as shown in Figure A.2 to Figure A.4 (Appendix A). Based on the topographical information (PhotoSat 2015), runoff and any seepage from the landfill will naturally flow to the Whale Tail WRSF Pond and then be pumped to the Whale Tail Attenuation Pond for further treatment before discharge.

Further information on the management of this facility is described in the Whale Tail Pit Landfill and Waste Management Plan.

3.1.4.14 Sludge Management from Water Treatment Plant

Any water requiring treatment will be pumped to the water treatment plant(s) prior to discharge through the diffuser in Mammoth Lake or through a diffuser in Whale Tail Lake (South Basin) or other alternative discharges. Sludge water from the Operation Water Treatment Plant (OWTP) will be dewatered with a centrifuge to produce a cake having a density with 20% of solid content. This cake will be stored in the Whale Tail WRSF. The maximum predicted annual volume of cake from the OWTP is approximately 5,760 cubic metres (m^3). The OWTP is designed to treat total suspended solids and arsenic during the Operations Phase.

3.1.4.15 Non-Contact Water Management

For the purpose of mine water management, runoff from undisturbed areas is considered non-contact water. Surface water that is diverted around the mine facilities, or groundwater that does not emerge into a mine facility, is considered non-contact water. Non-contact water is diverted away from the mine site infrastructure by reversing natural flows and/or using diversion channels and pumping systems.

In order to adequately manage non-contact water on site, some passive flows have been substituted with a pumping alternative that complies with the original intent of the approved water balance and Water License 2AM-WTP1826 (same origin and destination of water). Those systems were proposed as adaptive management methods, in response to the encountered site conditions during open water season and the high volume of precipitation received, resulting in additional volume of water to manage.

The actual non-contact water management systems put in place in summer 2019 is described below. These systems were implemented after discussion between Agnico Eagle and the Nunavut Water Board (August and September 2019).

<u>North-East Pond to C-watershed</u>

The non-contact water from the North-East (NE) Pond watershed was initially planned to overflow by gravity toward Nemo Lake once the North-East Dike is operational. During a routine inspection in July 2019, it was observed that the topography toward Nemo Lake would not allow water to

overflow naturally before overtopping the dike liner. Following this observation, water was pumped from NE Pond toward the project site, adding pressure on dewatering activity. The water from the NE Pond is therefore pumped to the tundra within the Nemo watershed (Water shed C). This system for water level management was operational in 2019 and is will be used in 2020 to empty the NE Pond when required. This system is expected to be operational until NE Dike is dismantled (which is planned in 2020).

Diesel pumps are used and their intake into the NE pond is positioned in an area where there is sufficient water depth. Due to the shallowness of North-East Pond, in order to successfully manage the water ponding against the North-East Dike, additional pumping from Lake A47 (lake within the flooded North-East sector) may be required until Lake A47 is disconnected from North-East Pond. In order to do so, an access extension may be required in Lake A47.

The piping used for the line is HDPE piping and flexible mine hose (Mineflex). To minimize impact on the receiving environment, the discharge line was installed in the tundra and is made of flexible hose. The discharge location was selected to avoid erosion. Existing access are used to position the pump, intake and discharge. Some access extensions within the dewatered portion of NE Pond might be required to reposition the pump intake as the water level is drawn down. If needed, these access extensions will be made in accordance with the current requirement of the Water License 2AM-WTP1826.

Water quality is not considered at risk as this is non-contact water from NE Pond. To ensure compliance with the Water License 2AM-WTP1826, the effluent of the NE Pond will be monitored for TSS as per Part F Item 6.

North-East Sector Pond Management

During the summer of 2019, significant water inflows from Lake A49 towards the Whale Tail Pit area were noticed. Maintaining the water elevation in Lake A49 throughout freshet will avoid the transformation of non-contact water (Lake A49 overflow) to contact water (pit water). The objective of this water transfer is to minimize contact water creation. Water will be sent into the North-East Pond.

A53 Lake to Whale Tail South

The non-contact water from the A53 watershed was planned to be redirected to Whale Tail South through the East Channel. Water from the A53 watershed could be pumped if required to Whale Tail South.

It is expected to pump the non-contact water from A53 Lake to Whale Tail South from 2019 to 2021, securing the dewatering schedule in 2019. Postponing the East Channel construction also considers

the potential pathway for contact water in the environment, as Lake A53 is planned to become an Attenuation Pond as part of the Whale Tail Expansion Project in 2022 (upon regulatory approvals).

The pumping strategy used is the same one as approved to manage the water level of A53 Lake using diesel pumps and flexible hose. The main modification will be to extend this strategy until 2021 and to move the discharge points from Whale Tail North to Whale Tail South. For additional operational flexibility extending an access ramp into Lake A53 might be required.

The water level in Lake A53 will be maintained to the natural level and regular water level monitoring will be conducted. The monitoring aligns with the Water License 2AM-WTP1826 requirements, Schedule I Table 2 for ST-WT-7 and as per Part F Item 6 for TSS limits.

In order to successfully manage the A53 water elevation, an access extension may be required. If needed, the details of the extension to be installed will be submitted to the NWB prior to construction, as per requirement of the Water License 2AM-WTP1826.

Whale Tail South Discharge to Mammoth Lake

The non-contact water from Whale Tail South Basin was pumped to Mammoth Lake in 2019. This pumping activity was required to manage and then maintain the water level in Whale Tail South Basin, in order to allow for the construction of the Whale Tail South Channel (SWTC) and preserve Whale Tail dike integrity. This system temporarily substitutes passive flow via the SWTC with a pumping alternative that complies with the original intent of the approved water balance and Water License 2AM-WTP1826 (same origin and destination of water). This pumping activity also provides flexibility and adds robustness to the water management strategy if operational challenges arise with the operation of SWTC. Discharge is completed via a diffuser to avoid erosion into Mammoth Lake.

Water quality monitoring will follow the Water License 2AM-WTP1826 Part F Item 6 and Schedule I Table 1 - Group 3, same as the one required for water flowing though the Whale Tail South Channel.

AP5 Discharge to C-Watershed

In 2019, non-contact water from Whale Tail North and North-East Pond was transferred to AP5. The discharge from AP5 of water to tundra is approved by the Water License 2BB-MEA1828, by managing erosion. In 2019, this water was sent to the C-Watershed.

This extension of the discharge from AP5 was required to manage rain events and lack of natural flow between NE Pond and Nemo Lake as per the initial design (until changes to pumping strategy was approved).

Whale Tail Dike Seepage Discharge to Whale Tail South Basin

The non-contact water seeping from Whale Tail Dike (WTD) is collected into the seepage collection system before reaching Whale Tail North Basin and then discharged to Whale Tail South Basin. This improves the dewatering of Whale Tail North Basin and secures the operations at site. As the dewatering of the Whale Tail North Basin is not completed and construction activities are still ongoing (grouting), the non-contact water from WTD seepage will be managed as part of the dewatering of the Whale Tail North Basin.

Seepage water is discharged into the Whale Tail South Basin via a diffuser without treatment if the water quality meets the discharge criteria of the Water License 2AM-WTP1826. If discharge criteria are not met, water will overflow from the pump stations to the North Basin, and then will be pumped through the WTP and discharged via an approved diffuser.

Routine monitoring of the seepage water quality from each pump station will be as per the Water Licence 2AM-WTP1826 Part F Item 6, the Water Quality Monitoring and Management Plan for Dike Construction and Dewatering (Version 1, Jan 2017) and the Metal and Diamond Mining Effluent Regulation (MDMER). Once the Whale Tail Lake North Basin becomes the attenuation pond, the monitoring requirements will be modified, as per requirements. This monitoring will allow Agnico Eagle to put mitigation measures (for example, treating the water via the WTP) in place if needed. Turbidity and pH will also be monitored.

3.1.5 Freshwater and Sewage Water Management

3.1.5.1 Freshwater Management

Freshwater for the Whale Tail Camp is sourced from Lake C38 (Nemo Lake) and Lake A17 (Whale Tail Lake), as per Part E, conditions 1, 2 and 3 of the Water License 2AM-WTP1826. Freshwater usage includes potable use, fire suppression, dust suppression, drilling water (if contact water is not available), and water for the truck shop. The freshwater source is Lake C38 (Nemo Lake) during construction and operations, and Whale Tail Lake during closure. For explosives mixing and associated use, the water is pumped from the unnamed lake, as per Part E, condition 4 of the Water License 2AM-WTP1826. Freshwater will also be required to refill Whale Tail Lake (North Basin) at closure and will be sourced from the Whale Tail Lake (South Basin) and from inflows to Whale Tail North Basin. Agnico Eagle will endeavour to minimize the amount of freshwater required for the Project, where possible.

Freshwater is sourced through a freshwater intake and pump system. The intake consists of vertical filtration wells fitted with vertical turbine pumps that supply water on demand. The intake is connected to the pump house with piping buried under a rockfill causeway. The intake pipe exits at the bottom of the causeway and is fitted with a stainless-steel screen, as per Part E, condition 6 of the Water License 2AM-WTP1826. The rockfill causeway acts as a secondary screen to prevent fish from becoming entrained. The stainless-steel screens design for the water intake is consistent with

the Fisheries and Oceans Canada (DFO) “Freshwater Intake End-Of-Pipe Fish Screen Guideline” (DFO 1995). As per the DFO policy intake screens will be cleaned every 2 years. The freshwater intake will be moved to Whale Tail Lake (South Basin) at closure.

Freshwater is pumped to an insulated main storage tank located at the Whale Tail Camp. The freshwater pipeline is made of a high density polyethylene pipe and insulated and heat traced. The Whale Tail Camp has a WTP for potable (domestic) water. In the Potable WTP, the freshwater first goes through sand filters and then is pumped through ultraviolet units, and finally treated with chlorine. The treated water is stored within a potable water tank.

Potable water is monitored according to the Nunavut health regulations for total and residual chlorine and microbiological parameters. Treated potable water is piped to other facilities requiring potable water.

In 2019, 158,871m^3 of freshwater from Nemo Lake was used, with dust control being the main usage. Respecting the limit of both 175,000 and 191,750 cubic meters per year during construction and operations, respectively, as per Part E, conditions 1 and 2 of the Water License 2AM-WTP1826. During operations in 2020 and 2021, forecasted freshwater usage will respect license limit of 192,000 cubic meter per year.

During closure, the Whale Tail Pit and Whale Tail Lake (North Basin) will be allowed to flood naturally with non-contact water, treated water, and freshwater from direct precipitation, runoff from adjacent land, and Whale Tail Lake (South Basin). It is anticipated that approximately 24,000,000 m^3 over 8 years is required to fill the mined-out Whale Tail Pit (i.e., approximately 17,000,000 m^3) and Whale Tail Lake (North Basin) (i.e., approximately 7,000,000 m^3) to its original level. As per part E, condition 5 of the Water License 2AM-WTP1826, the use of water from Whale Tail Lake shall not exceed a total of 10,655,000 m^3/year commencing when notification of closure is received by the NWB through to the expiry of the Licence.

3.1.5.2 Sewage Water Management

Sewage is collected from the camp and change-room facilities and pumped to a STP. The objective of the STP is to treat sewage to an acceptable level for discharge to the Whale Tail Attenuation Pond via a sewage water discharge pipeline. The STP is housed in a prefabricated (modular) structure located in the Whale Tail Camp. The sewage treatment system is designed based on the occupation maximum of the camp for 400 persons (240L per day and per person). The design average daily flow is 96 m^3/day.

The STP for the camp facilities is designed to meet appropriate guidelines for wastewater discharge (for example, NWT Water Board 1992). Wastewater System Effluent Regulations (WSER) criteria are not currently applicable to systems located in Nunavut and is unlikely to apply to the Project effluent quality.

Table 3.5 provides the anticipated performance of the system compared to the WSER criteria. Further information on the management of this facility is described in the Whale Tail Sewage Treatment Plant Operation and Maintenance Manual (Agnico Eagle, 2019a).

Table 3.5 Effluent Quality and Wastewater Characteristics

Parameter	Units	Regulatory Limit	Design Value
Wastewater			
• Biochemical Oxygen Demand	mg/L	-	952
• Total Suspended Solids	mg/L	-	300
• Total Kjeldahl Nitrogen	mg/L	-	130
• Ammonia Nitrogen	mg/L	-	130
• Fat, Oil and Grease	mg/L	-	30
• pH	-	-	6 to 9.5
• Water Temperature	°C	-	10 to 25
• Alkalinity	mg/L as $CaCO_3$	-	471.1
• Prohibited Chemicals/Compounds	Not present		
• Grinder Pumps	Not present Upstream of MBR		
Effluent			
• pH	-	6-9.5	6.5 to 8.5
• Carbonaceous Biochemical Oxygen Demand	mg/L	<25	<5
• Total Suspended Solids	mg/L	<25	<1
• Un-ionized Ammonia	mg/L	<1.25	<0.08
• $N0_3$-N	mg/L	<5	4
• TP	mg/L	<0.5	0.5
• Fat, Oil and Grease	mg/L	<5	<1
• Fecal Coliform	CFU/100mL	<200	Non-Detect
• Total Residual Chlorine	mg/L	<0.02	0

1. Noted values are assumed blend between kitchen and dormitory wastewater after the grease trap.
2. A complete list of prohibited chemicals is included in the membrane maintenance manual.

3.2 Water Management During Closure

Mine closure is integral to the mine design and will be modified during operations. Planning for permanent closure is an active and iterative process. The intent of the process is to develop a final closure plan including specific water management components using adaptive management. This begins during the mine design phase and continues through to closure implementation. Adaptive management enables the plan to evolve as new information becomes available through analysis, testing, monitoring, and progressive reclamation. The detailed mine closure and reclamation activities are provided in the Whale Tail Pit Interim Closure and Reclamation Plan (FEIS, Volume 8, Agnico Eagle Mine, 2016).

Water management during closure and reclamation will involve maintaining contact water management systems on site until monitoring results demonstrate that water quality is acceptable for discharge of all contact water to the environment without further treatment. Once water quality meets the discharge criteria, the water management systems will be decommissioned to allow the water to naturally flow to the receiving environment. In 2018, a WRSF seepage analysis and hydrodynamic modelling of Mammoth Lake were conducted to address NIRB project certificate Term and Condition no. 6 a). The objectives were to assess Mammoth Lake near-field water quality at the WRSF seepage outlet post-closure and to evaluate seasonal water circulation patterns in Mammoth Lake resulting from effluent discharge. This analysis also aimed to predict and evaluate the water quality within Mammoth Lake during operations and post-closure (Golder, 2018a). Results show that no modification to the water management strategy is needed concerning closure activities and sequence.

The key water management activities during mine closure are summarized in Table 3.6.

Table 3.6 Key Water Management Activities During Mine Closure

Mine Year	Figure	Key Water Management Activities and Sequence
Year 4 (2022) to Year 7 (2025)	A.3	• Fill the mined-out open pit with active pumping of water from Whale Tail Lake (South Basin) and treated Whale Tail WRSF pond water • Draw-down of the raised Northeast Sector and breaching of the Northeast Dike. The Northeast Pond water flows in the open pit and Lake A47, Lake A48, Lake A113, Pond A-P38, and A-P68 return to their natural water level and drainage patterns • Water from the A watershed stops to flow in the C watershed • Water from Whale Tail Lake (South Basin) stops flow through Whale Tail Lake (South Basin) Diversion Channel and to Lake A16 (Mammoth Lake) • Draw-down of the raised Whale Tail Lake (South Basin) to natural water level by pumping to Whale Tail Lake (North Basin). Lake A55, Lake A65, Lake A62, Lake A63, Lake A18, Pond A-P23, Lake A20, Lake A21, Lake A22, and Lake A45 return to their natural water level and drainage patterns. • The freshwater intake is moved in Whale Tail Lake (South Basin) • The monitoring of the site water quality starts • If necessary, the WTP is moved in the Whale Tail WRSF sector
Year 8 (2026) to Year 11 (2029)	A.4	• Fill Whale Tail Lake (North Basin) with active pumping water from Whale Tail Lake (South Basin). The pumping rate will be equivalent to the natural inflow to Whale Tail Lake (South Basin) to keep a constant and natural water level in Whale Tail Lake (South Basin) • The Whale Tail Attenuation Pond as well as the Industrial Sector and the Whale Tail Camp are no longer considered as contact water and now contribute to the re-establishment of the natural water level of the Whale Tail Lake (North Basin) • Whale Tail Dike and Mammoth Dike are breached when i) the South side and the North side of the Whale Tail Dike are at the same water level (i.e., at natural water level) and ii) the water quality monitoring results meet

Mine Year	Figure	Key Water Management Activities and Sequence
		discharge criteria to allow water to naturally flow to the receiving environment • Remove non-essential site infrastructure
Post-Closure	N/A	• Treated contact water from the Whale Tail WRSF Sector is discharged in Lake A16 (Mammoth Lake) through the existing diffuser system. This water is treated until water quality meets direct discharge criteria, following which the water management system is decommissioned • Breach the Whale Tail WRSF Dike once water quality monitoring results meet discharge criteria to allow water to naturally flow to the receiving environment • Remove non-essential site infrastructure

WRSF = Waste Rock Storage Facility; N/A = not applicable.

3.2.1 Open Pit and Refilling of Whale Tail Lake (North Basin)

Following completion of mining, the open pit will be filled with natural runoff and water pumped from Whale Tail Lake (South Basin) and treated water from the Whale Tail WRSF. During the summer of Year 4 (2022), the water accumulated in Whale Tail Lake (South Basin) over the years of operations will be pumped in the open pit. It will take approximately 4 years to refill the pit with an assumed pumping rate of 45,000 m^3/day. Following this first pumping summer, the water elevation in Whale Tail Lake (South Basin) will be back to the baseline value (152.5 masl) and no outlets will be available for this basin as the Whale Tail Lake (South Basin) Diversion Channel is at the elevation 156 masl and the Whale Tail Dike is maintained in place. During the following years and until Whale Tail Lake (North Basin) reaches the same water elevation as Whale Tail Lake (South Basin) (i.e., baseline water surface elevation of 152.5 masl), the yearly accumulated water in Whale Tail Lake (South Basin) (i.e., over the baseline water surface elevation of 152.5 masl) is pumped to Whale Tail Lake (North Basin). At an assumed pumping rate of 45,000 m^3/day, the north and south parts of the Lake A17 (Whale Tail Lake) will be at the same elevation 8 years after the end of the operational phase and then the Whale Tail Dike and the Mammoth Dike will be breached when the water quality monitoring results meet discharge criteria to allow water to naturally flow to the receiving environment. Results from the 2018 modelling (Golder, 2018a) show that effluent discharge into Mammoth Lake will be well mixed. The steady-state untreated WRSF contact water released is predicted to meet SSWQO for arsenic at the edge of the mixing zone in the long-term, under the anticipated cover performance scenario (from the 4.7 meters cover of low arsenic leaching waste rock). The mixing zone in the Lake is predicted to range from 5 meters (under calm conditions in July when 6% of the seasonal seepage flow occurs), to 60 meters (under medium current conditions in June when 65% of the seasonal flow is predicted to occur at a more dilute arsenic concentration) from the entry point of this seepage into the Lake and along the plume centre line. Mammoth Lake is sensitive to cover material seepage quality, which is in turn sensitive to cover composition and WRSF pile contact water volume. Observational data at the Meadowbank WRSF suggest that pile contact water volumes are substantially lower than originally predicted (Portage is 20 to 40% lower,

Vault WRSF contact water is minimal compared to the 178,000m^3 predicted at maximum footprint year) using similar modelling assumptions. Modelling results reflect a conservative chemical load estimate to Mammoth Lake in WRSF seepage that will be verified with monitoring. As per Type A Water Licence 2AM-WTP1826 Part E, conditions 7 and 8, Agnico Eagle anticipates a site wide water balance and end pit water quality model update will be required each year for the Whale Tail Pit Site as part of the annual water management plan. The site wide water balance is provided in Appendix C and the Whale Tail water quality forecast update is provided in Appendix D.

3.2.2 Contact Water Collection System

The complete contact water collection system will remain in place to collect surface runoff water and seepage from the mine site until the open pit is flooded. During this period of 4 years, the Industrial Sector and the Whale Tail Camp will be reclaimed, and the non-essential site infrastructure will be removed. Thereafter, water in these sectors will no longer be collected and will contribute to the reestablishment of the natural elevation of Whale Tail Lake (North Basin). Although water might not meet the discharge criteria after 4 years, water will be controlled as the Whale Tail Dike and the Mammoth Dike will remain in place until Year 11 of the Project.

In the Whale Tail WRSF Sector, the contact water collection system will remain in place. Dikes will not be breached until the water quality in the flooded area meets Canadian Council of Ministers of the Environment (CCME) Water Quality Guidelines, baseline concentrations or appropriate site-specific water quality objectives. Contingency for water treatment if required in closure is also accounted for in the closure plan.

Dike breaching will involve the removal of a portion of the dike to original ground levels. Consideration will be given to breach staging, with the above water portions of the dike/berm in the breach area removed during winter periods, when there will be little surface water flow, thereby minimizing the potential release of sediments to the neighbouring waterbodies. The remainder of the breach would be completed during the open water season following freshet to allow for the deployment of turbidity curtains to control potential releases of sediment.

For channel and sump closure the infrastructure will be re-contoured and/or surface treated according to site-specific conditions to minimize wind-blown dust and erosion from surface runoff, if required. This closure activity is intended to enhance site area development for re-colonization by native plants and wildlife habitat.

3.3 Water Balance

As per the Type A Water Licence 2AM-WTP1826, Part E, Item 7, a Whale Tail Pit Project water balance will be updated and presented on an annual basis, integrated into the water management plan update. Golder was retained to develop a mean annual water balance for the project. This water balance is updated based on collected 2019 site data. It presents the results from operations into site post-closure, starting in 2019. The developed water balance will assist in evaluating future

water management infrastructure, including under closure conditions (Whale Tail Interim Closure and Reclamation Plan).

The water balance was computed on a monthly time step based on mean annual climate conditions (Section 2.1.1). The water management flow sheets are presented in Appendix B, and the full water balance report is presented in Appendix C.

3.4 Water Quality Forecast

The water quality forecast report was prepared by Golder Associates Ltd. (Golder, 2020) and will be revisited on an annual basis until mine closure, as per the Water License part E item 8. The purposes of the report are to identify, through a mass balance approach, the contaminants of concern during the pit flooding process and WRSF contact water mixing into Mammoth Lake post-Closure, and determine if water treatment will be required on site for closure activities when comparing the final contaminant levels to the CCME guidelines and/or site specific criteria for parameters that are not included in the CCME Guidelines.

In the 2020 report, Golder presents a positive update on water quality through operations; constituent loads coming from the WRSF and the open pit, which report to the attenuation pond, are lower than in previous reports. A decrease in arsenic and phosphorus loads to the receiving environment throughout mine life is also shown.

At closure and post-closure, flooded pit water quality is predicted to meet receiving water quality criteria when flooding is complete, allowing reconnection with the downstream receiving environment. Arsenic release from the submerged Whale Tail Pit walls is anticipated once pit-flooding commences but is expected to be a relatively short-lived source to the flooded pit lake.

SECTION 4 • REFERENCES

Agnico Eagle (Agnico Eagle Mines Limited). 2020a. Whale Tail Pit – Waste Rock Management Plan, version 5, Meadowbank Division, March 2020.

Agnico Eagle (Agnico Eagle Mines Limited). 2020b. Water Management Report and Plan, version 8, Meadowbank Division, March 2020.

Agnico Eagle (Agnico Eagle Mines Limited). 2019a. Whale Tail Sewage Treatment Plant Operation and Maintenance Manual, February 2019.

Agnico Eagle (Agnico Eagle Mines Limited). 2019b. OMS Manual – Whale Tail Water Management Infrastructures, Version 1, March 2019.

Agnico Eagle (Agnico Eagle Mines Limited). 2018a. Dewatering Dikes, Operation, Maintenance and Surveillance Manual, Meadowbank Division, March 2018.

Agnico Eagle (Agnico Eagle Mines Limited). 2018b. Whale Tail Project - Erosion Management Plan, Version 1, Meadowbank Division, June 2018.

Agnico Eagle (Agnico Eagle Mines Limited). 2018c. Amaruq Stage 1 WRSF, Ore Stockpile 1 and Starter Pit Design Report and Drawings. Meadowbank Division, June 2018.

Agnico Eagle (Agnico Eagle Mines Limited). 2018d. Whale Tail North Basin dewatering, 60-Day Notice to Nunavut Water Board. Version 1, September 2019.

Agnico Eagle (Agnico Eagle Mines Limited). 2016. Final Environment Impact Statement (FEIS) Volumes 1 to 8, Whale Tail Pit Project, Meadowbank Division.

Agnico Eagle (Agnico Eagle Mines Limited). 2015. Water Management Report and Plan, version 3, Meadowbank Division, October 2015.

CCME (Canadian Council of Ministers of the Environment). 1999 (with updates to 2016). Canadian Environmental Quality Guidelines, 1999. Canadian Environmental Quality Guidelines Summary Table, with updates to 2016. Winnipeg, MB, Canada. Available at: http://st-ts.ccme.ca/. Accessed March 2016.

CCME. 2004. Canadian Water Quality Guidelines for the Protection of Aquatic Life: Phosphorus: Canadian Guidance Framework for the Management of Freshwater Systems. In: Canadian Environmental Quality Guidelines, 2004. Canadian Council of Ministers of the Environment, Winnipeg, MB, Canada.

CDA (Canadian Dam Association). 2014. Canadian Dam Association, Technical Bulletin: Application of Dam Safety Guidelines to Mining Dams.

DFO (Fisheries and Oceans Canada). 1995. Freshwater Intake End-of-Pipe Fish Screen Guideline, March 1995.

Golder Associates Ltd. 2020. Mine Site and Downstream Receiving Water Quality Predictions – 2019 Annual Report. Ottawa, ON, Canada.

Golder Associates Ltd. 2020. Whale Tail Pit – Approved Project 2019 Annual Report – Water Balance. Edmonton, AB, Canada. Government of Canada. 2015. Historical Climate Data. Available online from: http://climate.weather.gc.ca/index_e.html

Health Canada. 2014. Guidelines for Canadian Drinking Water. Prepared by the Federal-Provincial-Territorial Committee on Drinking Water. Ottawa, ON, Canada.

ICOLD (International Commission of Large Dams) 1998. Dam Failures and Statistical Analysis. Bulletin 99.

IPCC. 2014. Summary for Policymakers. In: Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part A: Global and Sectoral Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change [Field, C.B., V.R. Barros, D.J. Dokken, K.J. Mach, M.D. Mastrandrea, T.E. Bilir, M. Chatterjee, K.L. Ebi, Y.O. Estrada, R.C. Genova, B. Girma, E.S. Kissel, A.N. Levy, S. MacCracken, P.R. Mastrandrea, and L.L. White (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp. 1-32

Knight Piesold. 2015. Agnico Eagle Mines Ltd.: Meadowbank Division – Whale Tail Pit – Permafrost and Hydrogeological Characterization, File No.: NB101-00622/04-A.01

McDougall, M., G. Tomy, J. Stetefeld. 2019. 2019 Mammoth Lake Sediment Sampling Report

NWT Water Board. 1992. Guidelines for the Discharge of Treated Municipal Wastewater in the Northwest Territories.

Overland, J.E., M. Wang, J.E. Walsh, and J.C. Stroeve. 2013. Future Arctic climate changes: Adaptation and mitigation time scales, Earth's Future, 2, doi:10.1002/2013EF000162.

PhotoSat Information Ltd. (PhotoSat). 2015. PhotoSat Stereo Satellite Elevation Mapping Project Report. Reference No. 3631.

SNC (SNC Lavalin Inc.). 2018a. Whale Tail Dike Detailed Design Report.

SNC (SNC Lavalin Inc.). 2018b. Design criteria – Basins and Pumps. Technical note no. 651298-8000-40EC-0001_00, April 2018.

SNC (SNC Lavalin Inc.). 2018c. Amaruq Freeboard Study. Technical note no. 651298-2600-4HER-0002_01, June 2018.

SNC (SNC Lavalin Inc.). 2017. Preliminary design of Mammoth Dike. Technical note no. 645003-3000-4GER-0001_01, August 2017.

SNC (SNC Lavalin Inc.). 2015. Whale Tail Pit Project Permitting Level Engineering, Geotechnical and Water Management Infrastructure, A Technical Report Submitted to Agnico Eagle Mines Ltd. by SNC Lavalin, December 2015.

APPENDIX A • YEARLY SITE LAYOUT PLANS

Figure A.1 **Yearly Site Layout Plan (Year -1: 2018)**

Figure A.2 **Yearly Site Layout Plan (Year 1: 2019)**

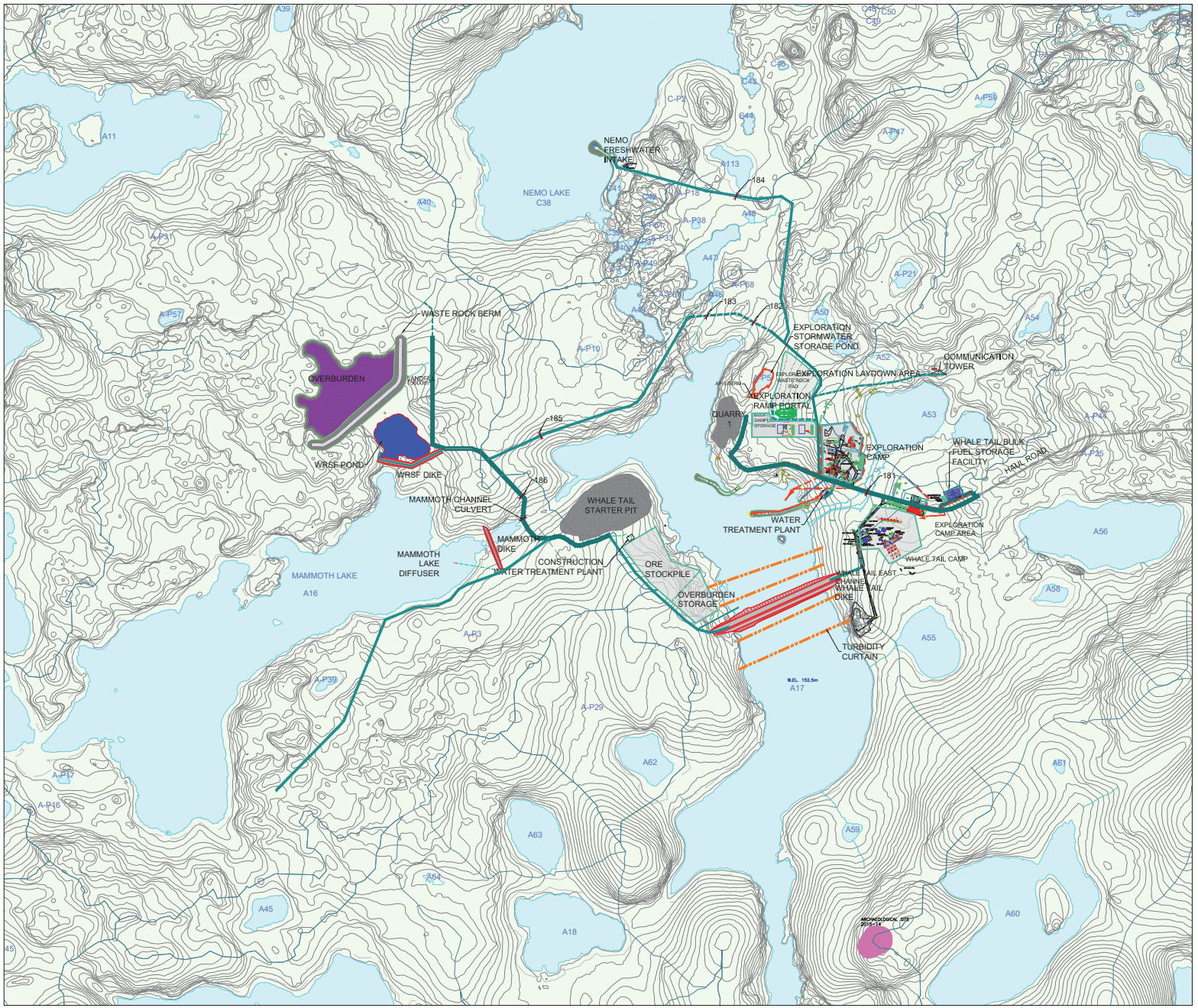
Figure A.3 **Yearly Site Layout Plan (Year 4: 2022)**

Figure A.4 **Yearly Site Layout Plan (Year 11: 2029)**

Figure A.5 **WRSF, Starter Pit and Ore Stockpile Plan View, Roads and Pads Construction**

NO. DESSIN
DRAWING NO.

FORMAT ANSI C



PLAN CLÉ
KEY PLAN

NOTES GÉNÉRALES / GENERAL NOTES

LEGEND

- ROAD
- TEMPORARY ROAD
- NATURAL WATERSHED
- COLLECTION CHANNEL
- CULVERT
- INTAKE WATER PIPE
- CONTACT WATER PIPE
- FRESHWATER PIPE
- TURBIDITY BARRIER
- DIKE
- ARCHAEOLOGICAL SITE
- POND / SUMP

L'INFORMATION CI-CONTENUE EST LA PROPRIÉTÉ DE AGNICO-EAGLE LTÉE ET DOIT ÊTRE RETOURNÉE SUR DEMANDE. SANS AUTORISATION ÉCRITE PRÉALABLE, TOUTE TRANSMISSION DE COPIE(S) À AUTRUI ET TOUTE UTILISATION AUTRE QUE CELLE POUR LAQUELLE L'INFORMATION EST PRÊTÉE SONT INTERDITES. © AGNICO-EAGLE LTÉE

THE INFORMATION HERE ON IS THE PROPERTY OF AGNICO-EAGLE LTD. AND MUST BE RETURNED UPON REQUEST. WITHOUT WRITTEN PERMISSION, ANY COPYING TRANSMITTAL TO OTHERS AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED ARE PROHIBITED. © AGNICO-EAGLE LTD.

DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS

TITRE / TITLE	# DWG
–	–
–	–
–	–
–	–

AGNICO EAGLE

REV.	DATE	DESCRIPTION	PAR/BY	APP.	CLIENT

REVISIONS

TITRE / TITLE
AGNICO–EAGLE – MEADOWBANK DIVISION
WHALE TAIL PROJET
WM

YEARLY SITE LAYOUT PLAN
(YEAR –1:2018)

DESSINÉ PAR / DRAWN BY	J.CRETE	DATE 2018–05–04
VERIFIÉ PAR / CHECKED BY		
APPROUVÉ PAR / APPROVED BY		
ÉCHELLE / SCALE	DATE	
NO. DESSIN / DRAWING NO.	2018	
NO. PROJET / PROJECT NO.	REVISION	FEUILLE / SHT 1 / 1

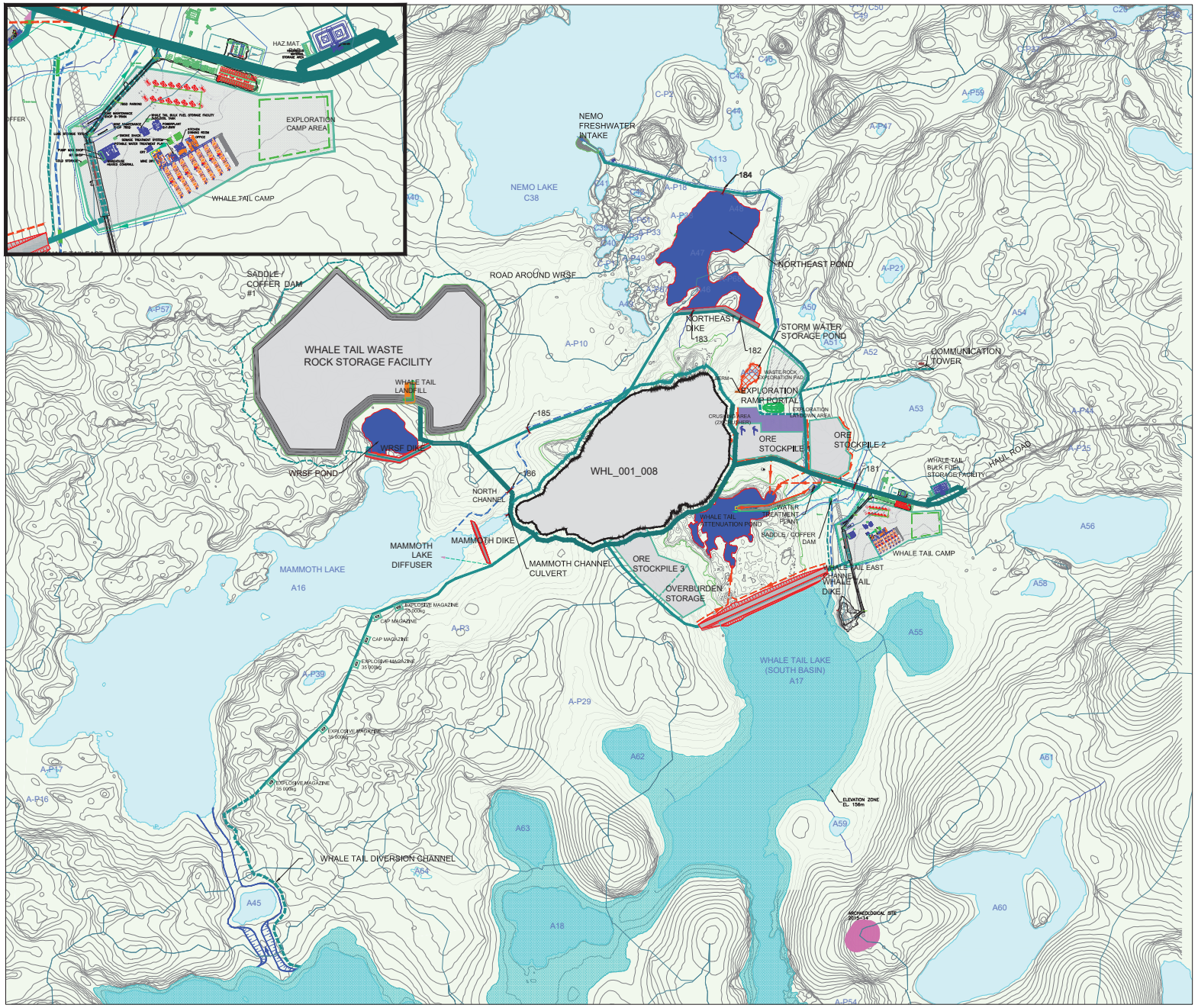
AE–CART–ANSI C

FILE NO. .DWG

N:\Projet\Amaruq\050 Studies\6108 Permitting Concepts\010 Info by area\600 General\00 Drawings\6108-II WHL_001_008\6108-600-210-001_R3(2018) – Standard\6108-600-210-001_R3(2018).dwg, 04 Mai 2018

NO. DESSIN
DRAWING NO.

FORMAT ANSI C



PLAN CLÉ
KEY PLAN

NOTES GÉNÉRALES / GENERAL NOTES

LEGEND

- WHALE TAIL LAKE(SOUTH BASIN) FLOODED LIMIT (WATER LEVEL 156.0m)
- ROAD
- TEMPORARY ROAD
- NATURAL WATERSHED
- DIVERSION CHANNEL
- COLLECTION CHANNEL
- CULVERT
- INTAKE WATER PIPE
- CONTACT WATER PIPE
- FRESHWATER PIPE
- DIKE
- POND / SUMP
- ARCHAEOLOGICAL SITE

L'INFORMATION CI-CONTENUE EST LA PROPRIÉTÉ DE AGNICO-EAGLE LTÉE ET DOIT ÊTRE RETOURNÉE SUR DEMANDE. SANS AUTORISATION ÉCRITE PRÉALABLE, TOUTE TRANSMISSION DE COPIE(S) À AUTRUI ET TOUTE UTILISATION AUTRE QUE CELLE POUR LAQUELLE L'INFORMATION EST PRÊTE SONT INTERDITES. © AGNICO-EAGLE LTÉE

THE INFORMATION HERE ON IS THE PROPERTY OF AGNICO-EAGLE LTD. AND MUST BE RETURNED UPON REQUEST. WITHOUT WRITTEN PERMISSION, ANY COPYING TRANSMITTAL TO OTHERS AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED ARE PROHIBITED.
© AGNICO-EAGLE LTD.

DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS

TITRE / TITLE	# DWG
_	_
_	_
_	_
_	_

AGNICO EAGLE

REV.	DATE	DESCRIPTION	PAR/BY	APP.	CLIENT

REVISIONS

TITRE / TITLE

AGNICO–EAGLE – MEADOWBANK DIVISION
WHALE TAIL PROJET
WM

YEARLY SITE LAYOUT PLAN
(YEAR 1:2019)

DESSINÉ PAR / DRAWN BY: J.CRETE	DATE: 2018–05–04
VÉRIFIÉ PAR / CHECKED BY	
APPROUVÉ PAR / APPROVED BY	
ÉCHELLE / SCALE	DATE

NO. DESSIN / DRAWING NO.: 2019

NO. PROJET / PROJECT NO.	REVISION	FEUILLE / SHT
		1 / 1

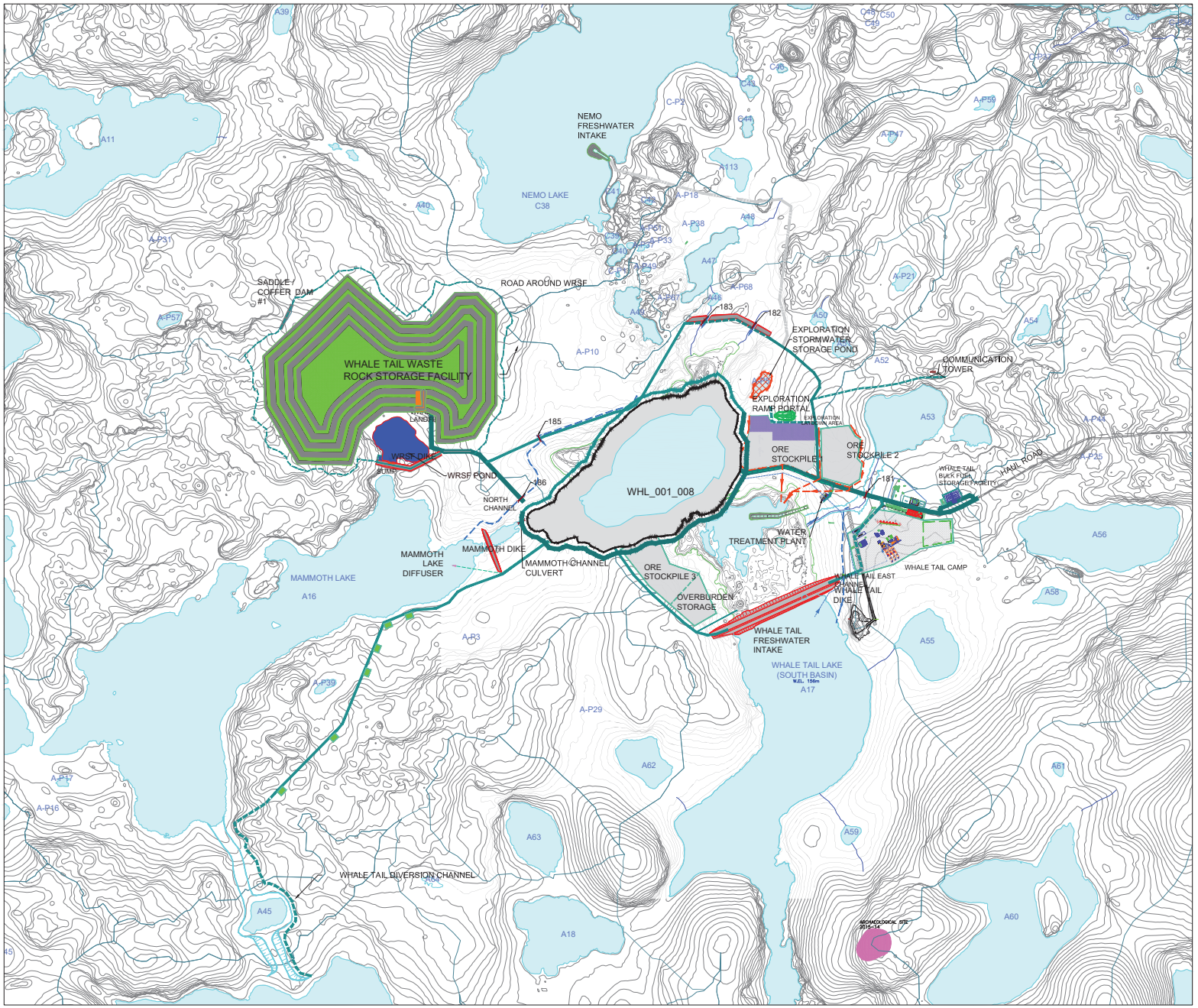
AE–CART–ANSI C

FILE NO. .DWG

N:\Projet\Vmarova\050 Studies\0108 Permitting Concepts\010 Info by area\600 General\00 Drawings\0108-il WHL_001_008\0108-600-210-002_R3(2019) - Standard\0108-600-210-002_R3(2019).dwg, 04 Mai 2018

NO. DESSIN
DRAWING NO.

FORMAT ANSI C



PLAN CLÉ
KEY PLAN

NOTES GÉNÉRALES / GENERAL NOTES

LEGEND

- CLOSED FACILITY
- ROAD
- TEMPORARY ROAD
- SCARIFIED ROAD & ACCESS
- NATURAL WATERSHED
- DIVERSION CHANNEL
- COLLECTION CHANNEL
- CULVERT
- INTAKE WATER PIPE
- CONTACT WATER PIPE
- FRESHWATER PIPE
- DIKE
- POND / SUMP
- ARCHAEOLOGICAL SITE

L'INFORMATION CI-CONTENUE EST LA PROPRIÉTÉ DE AGNICO-EAGLE LTÉE ET DOIT ÊTRE RETOURNÉE SUR DEMANDE. SANS AUTORISATION ÉCRITE PRÉALABLE, TOUTE TRANSMISSION DE COPIES À AUTRUI ET TOUTE UTILISATION AUTRE QUE CELLE POUR LAQUELLE L'INFORMATION EST PRÊTE SONT INTERDITES. © AGNICO-EAGLE LTÉE

THE INFORMATION HERE ON IS THE PROPERTY OF AGNICO-EAGLE LTD. AND MUST BE RETURNED UPON REQUEST. WITHOUT WRITTEN PERMISSION, ANY COPIES TRANSMITTAL TO OTHERS AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED ARE PROHIBITED. © AGNICO-EAGLE LTD.

DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS

TITRE / TITLE	# DWG

AGNICO EAGLE

REV.	DATE	DESCRIPTION	PAR/BY	APP.	CLIENT

REVISIONS

TITRE / TITLE

AGNICO–EAGLE – MEADOWBANK DIVISION
WHALE TAIL PROJET
WM

YEARLY SITE LAYOUT PLAN
(YEAR 4:2022)

DESSINÉ PAR / DRAWN BY: J.CRETE	DATE: 2018–05–04
VÉRIFIÉ PAR / CHECKED BY:	
APPROUVÉ PAR / APPROVED BY:	
ÉCHELLE / SCALE:	DATE:
NO. DESSIN / DRAWING NO.: 2022	
NO. PROJET / PROJECT NO.:	REVISION: / FEUILLE / SHT: 1 / 1

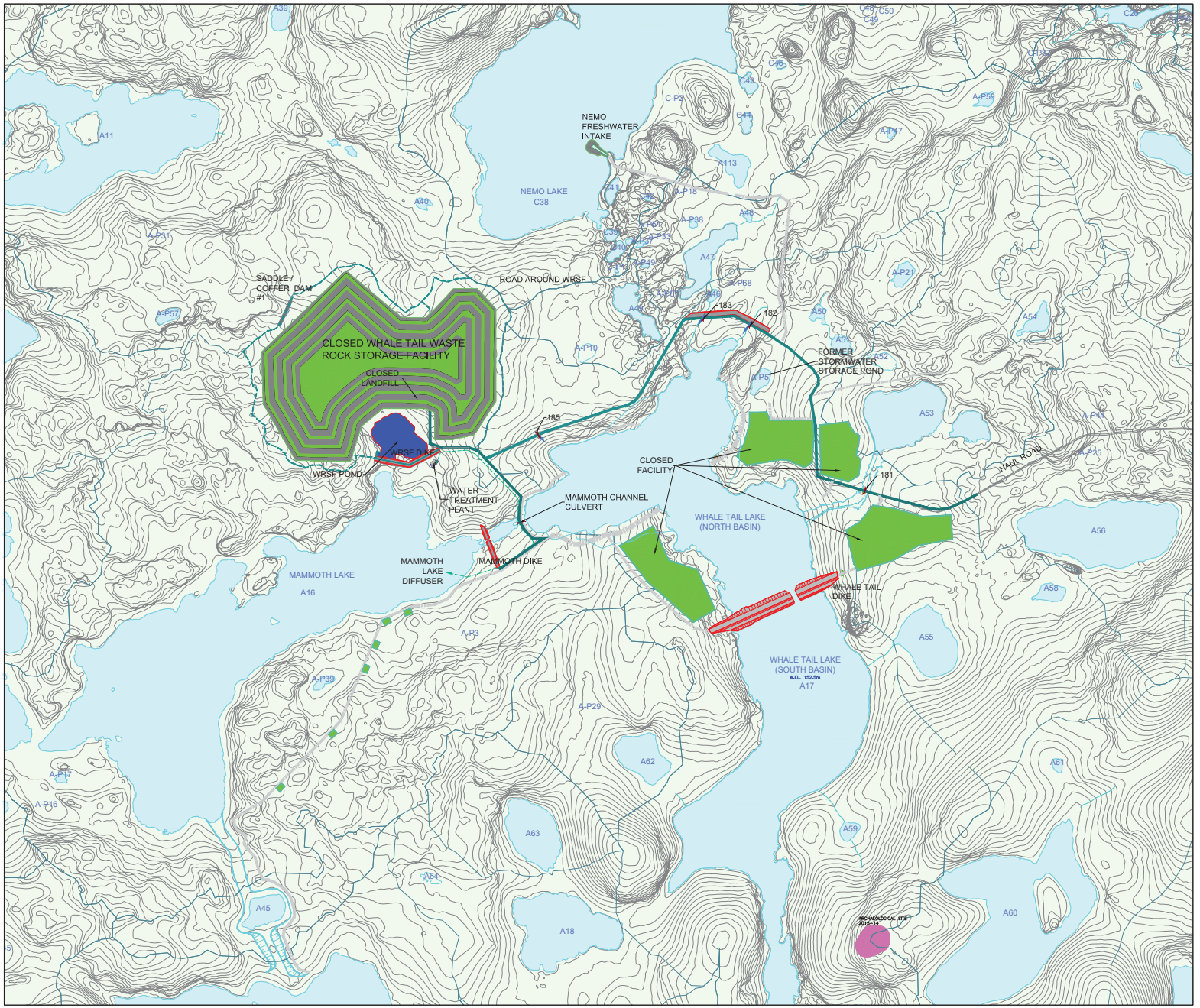
AE–CART–ANSI C

FILE NO. .DWG

N:\Projet\Vmoreau\050 Studies\0108 Permitting Concepts\010 Info by area\000 General\00 Drawings\0108-II WHL_001_008\0108-600-210-003_R3(2022) - Standard\0108-600-210-003_R3(2022).dwg, 04 Mai 2018

NO. DESSIN
DRAWING NO.

FORMAT ANSI C



PLAN CLÉ
KEY PLAN

NOTES GÉNÉRALES / GENERAL NOTES

LEGEND

- CLOSED FACILITY
- ROAD
- TEMPORARY ROAD
- SCARIFIED ROAD & ACCESS
- NATURAL WATERSHED
- CULVERT
- FRESHWATER PIPE
- DIKE
- POND / SUMP
- ARCHAEOLOGICAL SITE

L'INFORMATION CI-CONTENUE EST LA PROPRIÉTÉ DE AGNICO-EAGLE LTÉE ET DOIT ÊTRE RETOURNÉE SUR DEMANDE. SANS AUTORISATION ÉCRITE PRÉALABLE, TOUTE TRANSMISSION DE COPIE(S) À AUTRUI ET TOUTE UTILISATION AUTRE QUE CELLE POUR LAQUELLE L'INFORMATION EST PRÊTE SONT INTERDITES. © AGNICO-EAGLE LTÉE

THE INFORMATION HERE ON IS THE PROPERTY OF AGNICO-EAGLE LTD. AND MUST BE RETURNED UPON REQUEST. WITHOUT WRITTEN PERMISSION, ANY COPYING TRANSMITTAL TO OTHERS AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED ARE PROHIBITED. © AGNICO-EAGLE LTD.

DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS

TITRE / TITLE	# DWG

AGNICO EAGLE

REV.	DATE	DESCRIPTION	PAR/BY	APP.	CLIENT

REVISIONS

TITRE / TITLE

AGNICO–EAGLE – MEADOWBANK DIVISION
WHALE TAIL PROJET
WM

YEARLY SITE LAYOUT PLAN
(YEAR 11:2029)

DESSINÉ PAR / DRAWN BY: J.CRETE	DATE: 2018–05–04
VERIFIÉ PAR / CHECKED BY	
APPROUVÉ PAR / APPROVED BY	
ÉCHELLE / SCALE	DATE
NO. DESSIN / DRAWING NO.	2029
NO. PROJET / PROJECT NO.	REVISION / FEUILLE / SHT: 1 / 1

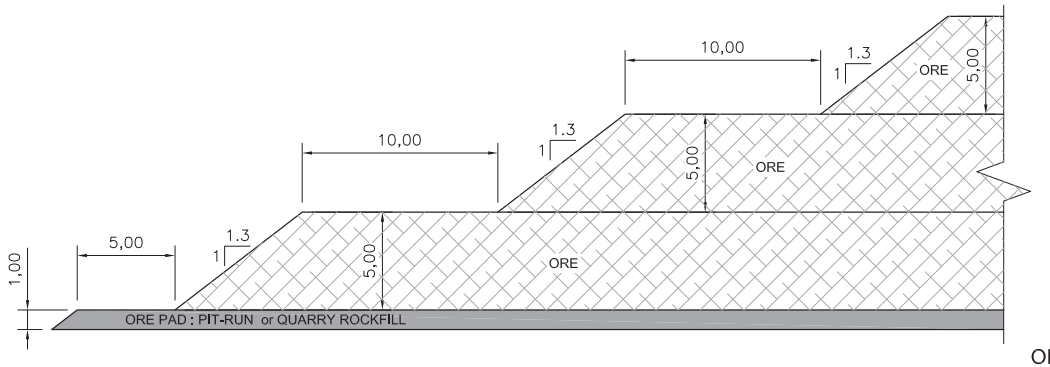
AE–CART–ANSI C

FILE NO. .DWG

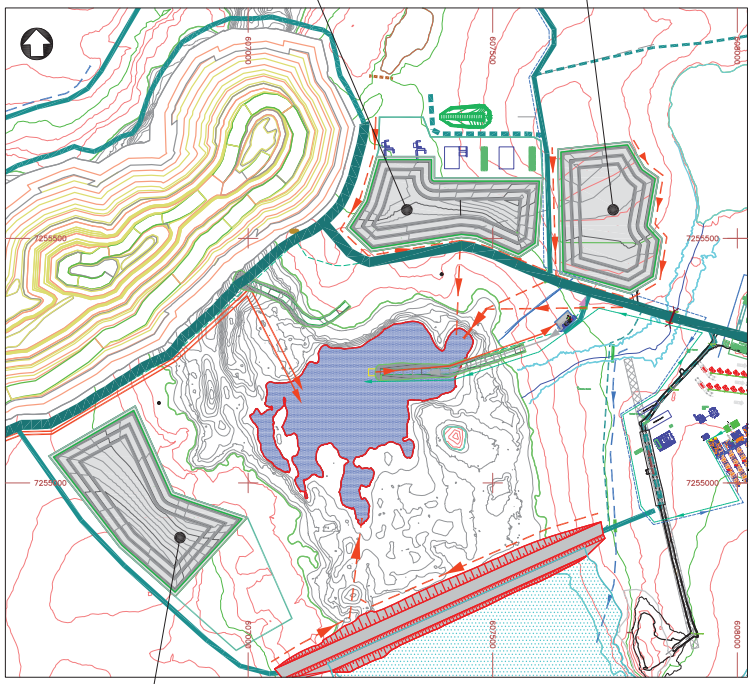
N:\Projet\Vmorva\050 Studies\0108 Permitting Concepts\010 Info by area\600 General\00 Drawings\0108-II WHL_001_OSR\0108-600-210-004_R3(2029) - Standard\0108-600-210-004_R3(2029).dwg, 04 Mai 2018

NO. DESSIN
DRAWING NO.

FORMAT ANSI B–11x17



TYPICAL SECTION
SCL 1:250 (1H:1V)



PLAN VIEW
SCL 1:10000

ISSUED FOR PERMITTING
DATE : 2016-05-03

_	_				
_	_				
_	_				
_	_				
_	_	0	ISSUED FOR PERMITTING	2016-05-03	J.C.
TITRE / TITLE	# DWG	REV	DESCRIPTION	DATE	PAR BY
DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS		REVISIONS			

AGNICO EAGLE

Golder Associates

DESSINÉ PAR DRAWN BY	J.CRETE	DATE 2016-05-02
VÉRIFIÉ PAR CHECKED BY	F.PETRUCCI	2016-05-03
APPROUVÉ PAR APPROVED BY	S. OUELLET	2016-05-03
No. PROJET PROJECT NO.	6108	
DATE	2016-05-02	

L'INFORMATION CI-CONTENUE EST LA PROPRIÉTÉ DE AGNICO-EAGLE LTÉE ET NE DOIT ÊTRE RETOURNÉE SUR DEMANDE, SANS AUTORISATION ÉCRITE PRÉALABLE, NOTE TRANSMISSION DE COPIE(S) À AUTRE ET TOUTE UTILISATION AUTRE QUE CELLE POUR LAQUELLE L'INFORMATION EST PRÊTE SONT INTERDITES.
© AGNICO-EAGLE LTÉE
THE INFORMATION HERE ON IS THE PROPERTY OF AGNICO-EAGLE LTD, AND MUST BE RETURNED UPON REQUEST. WITHOUT WRITTEN PERMISSION, ANY COPYING TRANSMITTAL TO OTHERS AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED ARE PROHIBITED.
© AGNICO-EAGLE LTD.

TITRE / TITLE
AGNICO–EAGLE – MEADOWBANK DIVISION
WHALE TAIL PIT PROJECT
ORE STOCK PILE #1, #2, #3
ORE PAD MAXIMUM CAPACITY
PLAN VIEW & TYPICAL SECTION

ÉCHELLE/ SCALE	A/S	FICHIER FILE	.DWG
No. DESSIN/ DRAWING NO.	6108–687–210–001	REVISION	0
		FEUILLE/SHT	1 / 1

AE–CART–ANSI B

N:\Projet\Amaruq\050 Studies\6108 Permitting Concepts\010 Info by area\687 Ore Stockpile\00 Drawings\6108–687–210–001_R0(OreStockPiles).dwg, 03 Mai 2016

APPENDIX B • WATER MANAGEMENT SCHEMATIC FLOW SHEETS

Note that these flow sheets are from the Water Balance Report, Figures 2 to 5

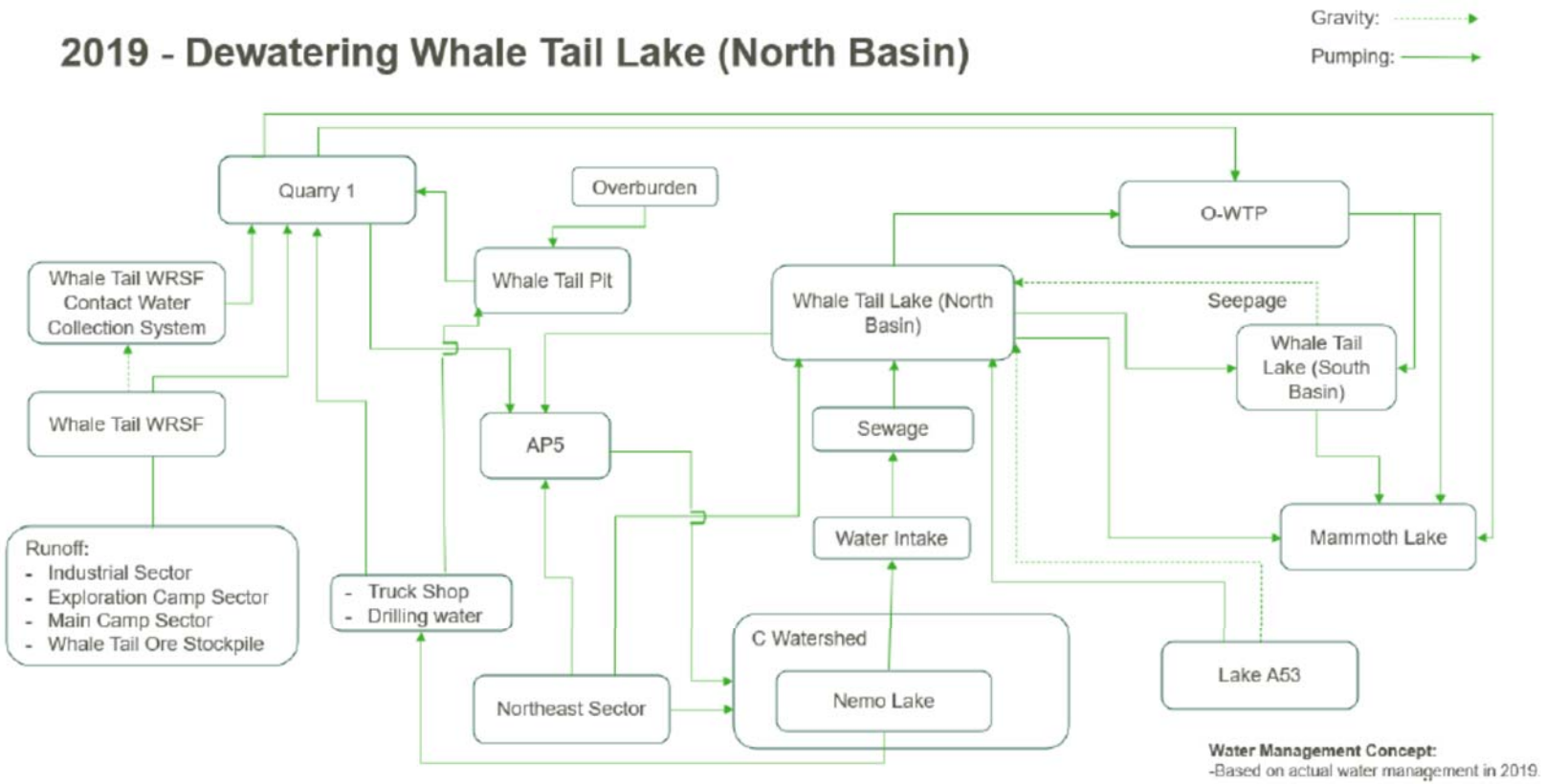


Figure 2: Conceptual Flow Diagram – 2019

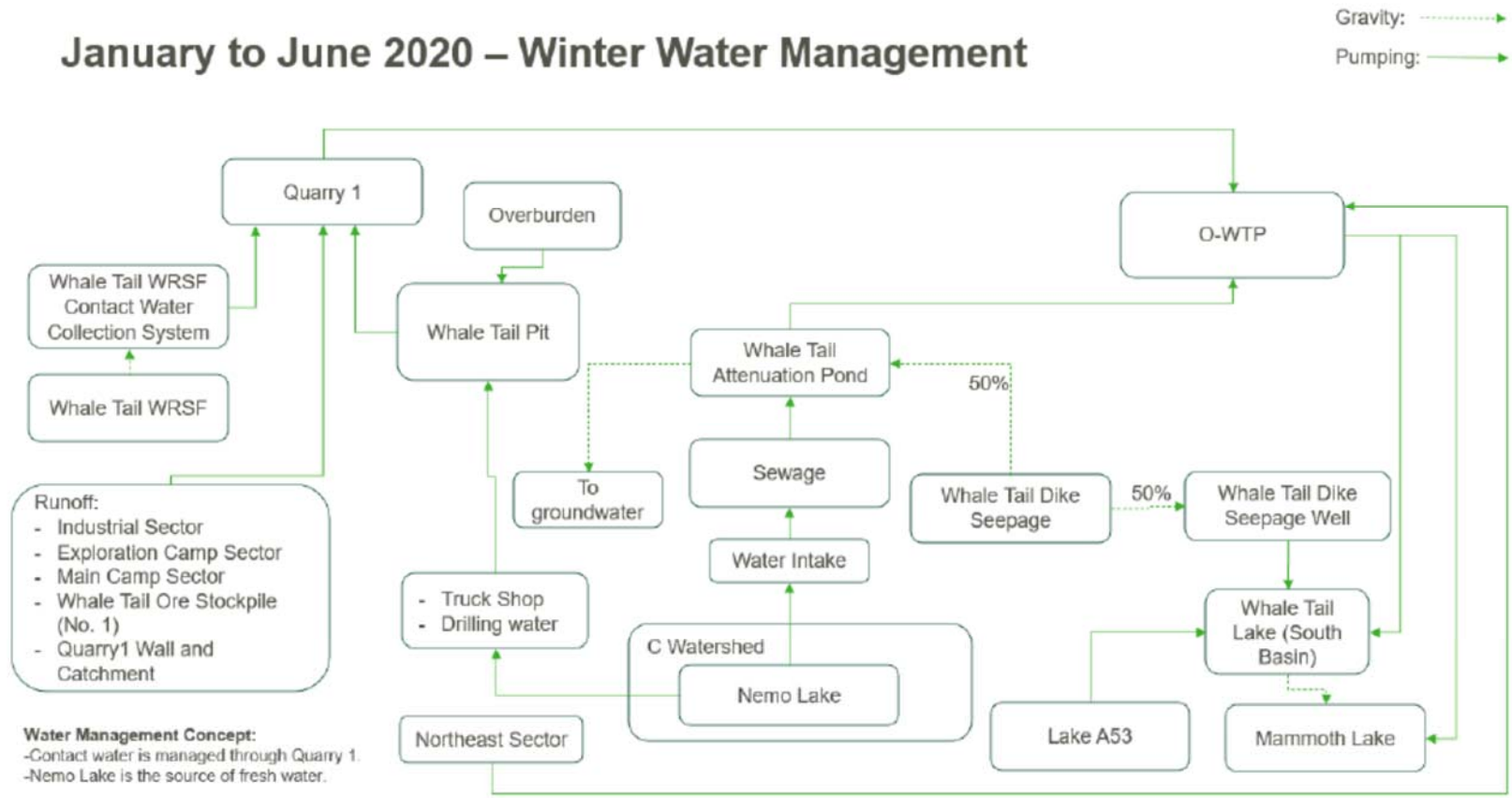


Figure 3: Conceptual Flow Diagram – Winter 2020

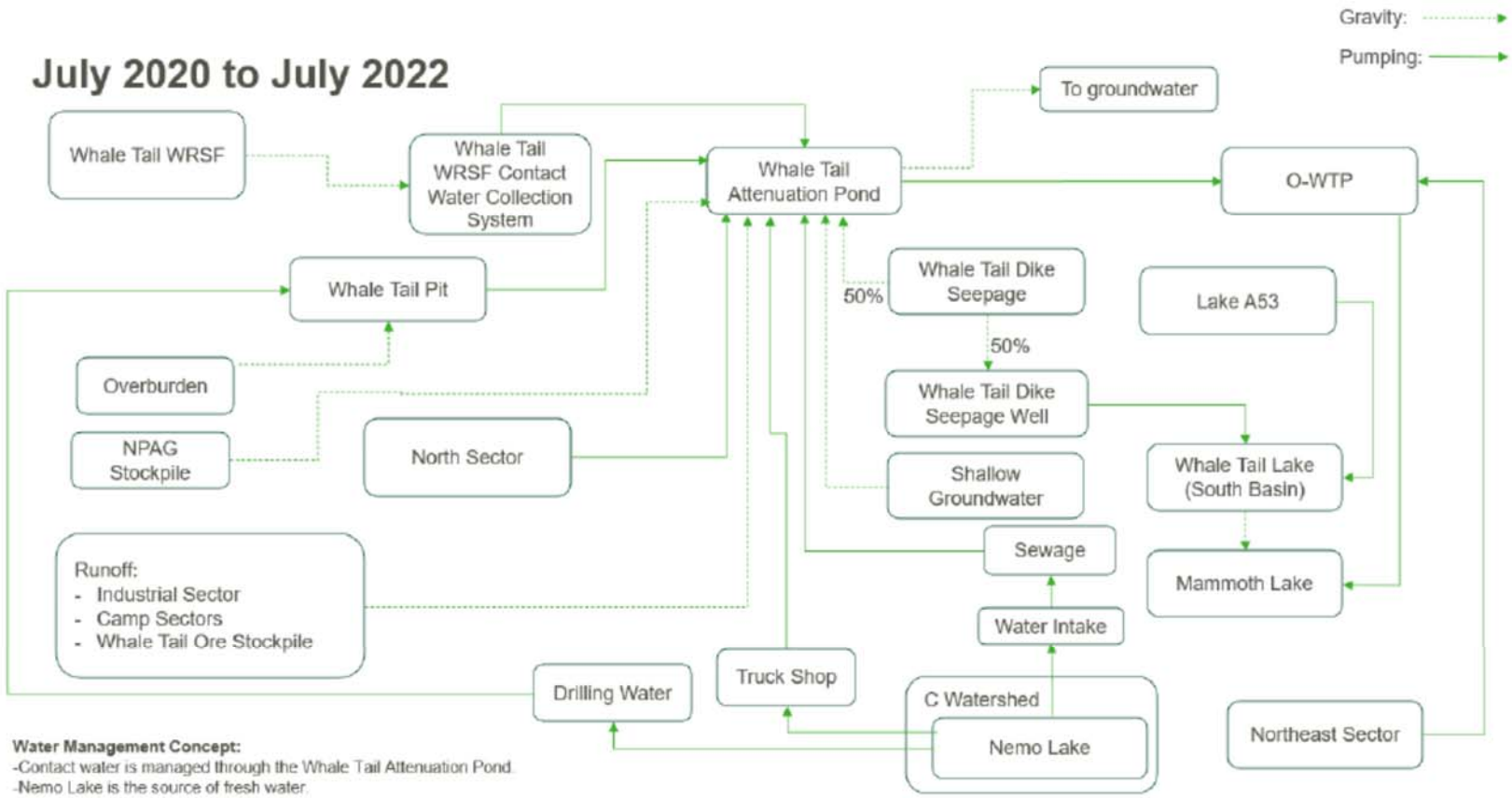


Figure 4: Conceptual Flow Diagram– July 2020 to July 2022 (End of Operations)

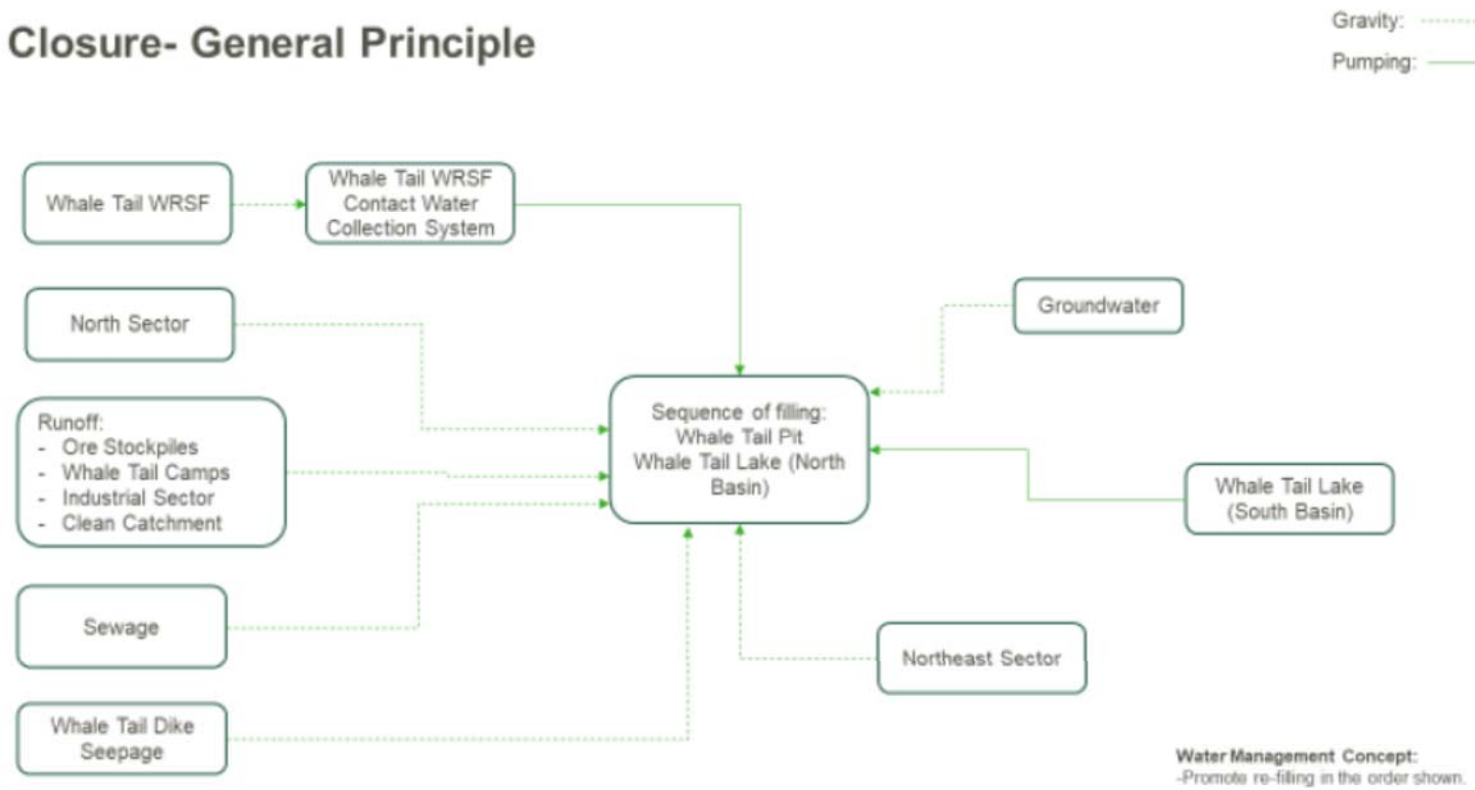


Figure 5: Conceptual Flow Diagram for Closure

APPENDIX C • 2019 WATER BALANCE REPORT

REPORT

Whale Tail Pit - Phase 1 Permit, Approved Project

2019 Annual Report - Water Balance

Submitted to:

Agnico Eagle Mines Limited
10 200, Route de Preissac
Rouyn-Noranda, Quebec, Canada

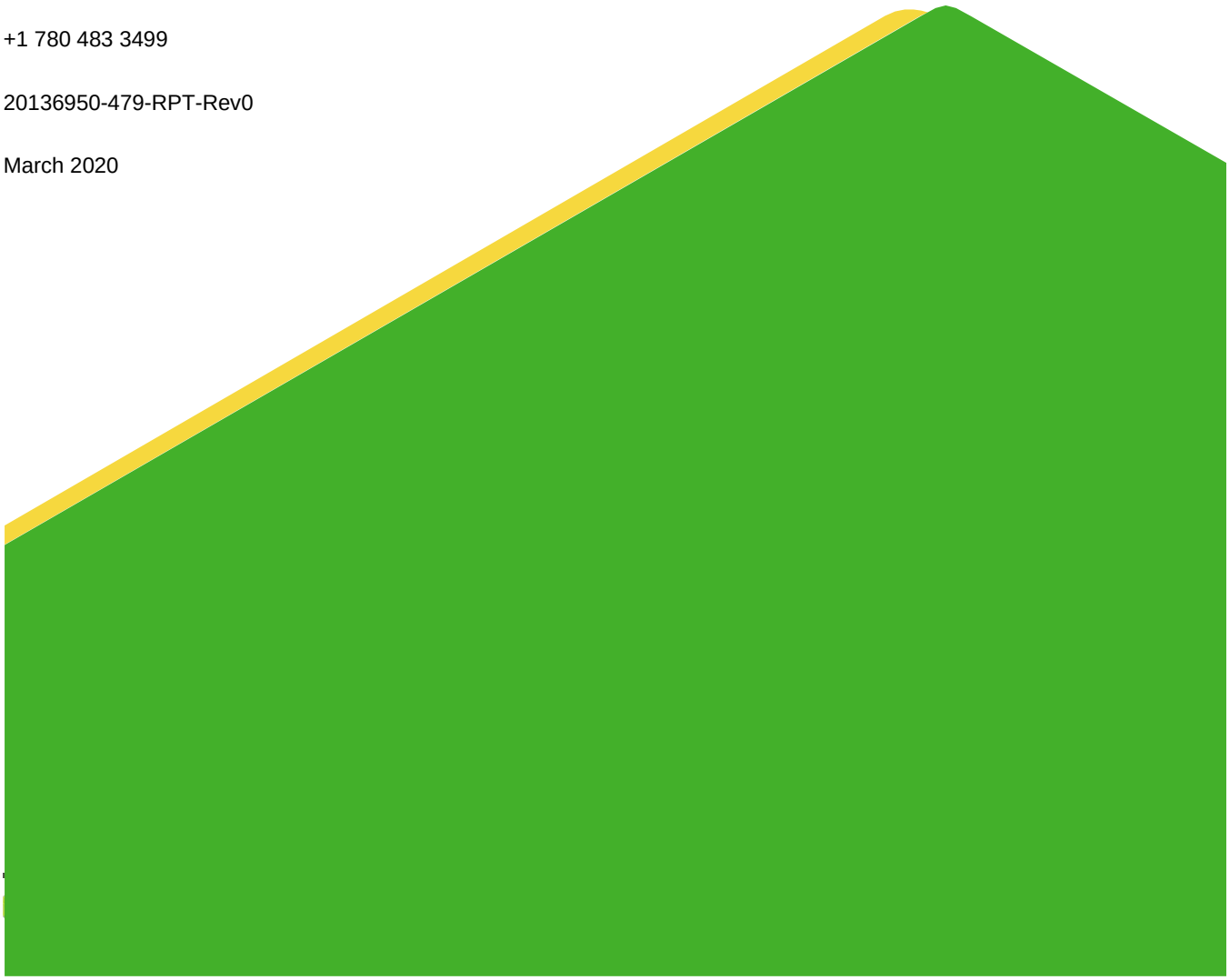
Submitted by:

Golder Associates Ltd.
16820 107 Avenue, Edmonton, Alberta, T5P 4C3, Canada

+1 780 483 3499

20136950-479-RPT-Rev0

March 2020



Distribution List

1 eCopy: Agnico Eagle Mines Limited

1 eCopy: Golder Associates Ltd.

Table of Contents

1.0 INTRODUCTION 1

2.0 WATER MANAGEMENT SUMMARY 1

2.1 2019 Water Management 2

2.2 January – June 2020 Water Management 3

2.3 July 2020 to the End of Operations Water Management 3

2.4 Closure Water Management 5

3.0 WATER BALANCE BASIS 6

4.0 MEAN ANNUAL WATER BALANCE RESULTS 6

4.1 Quarry 1 6

4.2 AP5 9

4.3 Northeast Sector 12

4.4 Whale Tail Waste Rock Storage Facility Contact Water Collection System 15

4.5 North Sector 18

4.6 Whale Tail Pit 21

4.7 Whale Tail Lake (North Basin) / Whale Tail Attenuation Pond 24

4.8 Whale Tail Lake (South Basin) 28

4.9 Water Treatment Plants: Treatment Requirement Summary 31

4.10 Closure: Flooding of Whale Tail Pit and Refilling of Whale Tail Lake (North Basin) 33

5.0 STUDY LIMITATIONS 34

6.0 CLOSURE 35

7.0 REFERENCES 36

TABLES

Table 1: Water Balance Flow Components (Quarry 1) 7

Table 2: Water Balance Flow Components (AP5) 10

Table 3: Water Balance Flow Components (Northeast Sector) 13

Table 4: Water Balance Flow Components (Whale Tail WRSF Contact Water Collection System) 16

Table 5: Water Balance Flow Components (North Sector) 19
Table 6: Water Balance Flow Components (Whale Tail Pit) 22
Table 7: Water Balance Flow Components (Whale Tail Lake [North Basin] / Whale Tail Attenuation Pond) 25
Table 8: Water Balance Flow Components (Whale Tail Lake [South Basin]) 29
Table 9: Water Balance Flow Components (Water Treatment Plants) 31

FIGURES

Figure 1: Water Management Facilities (2022) 2
Figure 2: Conceptual Flow Diagram – 2019 4
Figure 3: Conceptual Flow Diagram – Winter 2020 4
Figure 4: Conceptual Flow Diagram– July 2020 to July 2022 (End of Operations) 5
Figure 5: Conceptual Flow Diagram for Closure 6
Figure 6: Inflows to Quarry 1 (Operations) 8
Figure 7: Outflows from Quarry 1 (Operations) 8
Figure 8: Inflows to AP5 (Operations) 11
Figure 9: Outflows from AP5 (Operations) 11
Figure 10: Inflows to the Northeast Sector (Operations) 14
Figure 11: Inflows to the Northeast Sector (Closure) 14
Figure 12: Outflows from the Northeast Sector (Operations) 14
Figure 13: Outflows from the Northeast Sector (Closure) 14
Figure 14: Inflows to the Whale Tail WRSF Contact Water Collection System (Operations) 17
Figure 15: Inflows to the Whale Tail WRSF Contact Water Collection System (Closure) 17
Figure 16: Outflows from the Whale Tail WRSF Contact Water Collection System (Operations) 17
Figure 17: Outflows from the Whale Tail WRSF Contact Water Collection System (Closure) 17
Figure 18: Inflows to the North Sector (Operations) 20
Figure 19: Inflows to the North Sector (Closure) 20
Figure 20: Outflows from the North Sector (Operations) 20
Figure 21: Outflows from the North Sector (Closure) 20
Figure 22: Inflows to the Whale Tail Pit (Operations) 23
Figure 23: Inflows to the Whale Tail Pit (Closure) 23
Figure 24: Outflows from the Whale Tail Pit (Operations) 23
Figure 25: Outflows from the Whale Tail Pit (Closure) 23

Figure 28: Outflows from the Whale Tail Lake [North Basin] / Whale Tail Attenuation Pond (Operations) 26
Figure 29: Outflows from the Whale Tail Lake [North Basin] / Whale Tail Attenuation Pond (Closure).....27
Figure 30: Inflows to Whale Tail Lake (South Basin) (Operations) 30
Figure 31: Inflows to Whale Tail Lake (South Basin) (Closure).....30
Figure 32: Outflows from Whale Tail Lake (South Basin) (Operations) 30
Figure 33: Outflows from Whale Tail Lake (South Basin) (Closure) 30
Figure 34: Non-Contact Water flows to the O-WTP (Operations) 31
Figure 35: Contact Water Inflows to the O-WTP (Operations) 31
Figure 36: Outflows from the Water Treatment Plants 32

APPENDICES

APPENDIX A
Project Design Document

APPENDIX B
Water Balance Results - Tabular

APPENDIX C
Water Balance Results – Flow Diagrams

1.0 INTRODUCTION

Agnico Eagle Mines Limited: Meadowbank Division (Agnico Eagle) is developing the Whale Tail Pit on the Amaruq property, in continuation of mine operations and milling of the Meadowbank Mine. The Amaruq Exploration property is a 408 square kilometre (km^2) 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.

The Approved Project (The Project) supports mining an initial amount of approximately 9.0 million tonnes of ore from one open pit, the Whale Tail Pit, processed over a three to four-year mine life. As a part of its commitment under the Type A Water Licence 2AM-WTP1826, Part E, Item 7, Agnico Eagle has agreed to submit an updated water management plan on an annual basis to the Board for review following the commencement of operations.

Golder has developed a mean annual water balance for the Project. This water balance has been updated with 2019 site data for the 2019 Annual Report. This report presents a description of water management activities and modelled flows from the mean annual water balance for the Project. It also presents the results of the Project water balance from operations into post-closure, starting in 2019. It is limited to catchments of the Project footprint and does not address the receiving environment within and downstream of the effluent discharge point.

Water quality predictions corresponding to the Project's mean annual water balance are presented under a separate cover (Golder 2020).

2.0 WATER MANAGEMENT SUMMARY

The Project consists of mining from the Whale Tail Pit. The ultimate Project general arrangement plan (2022) is shown in Figure 1, with the key water management features labelled. The main objectives pertaining to water management are to minimize contact water that must be managed and to limit the impact on the receiving environment. In developing the water management plan, the following principles were followed (Agnico Eagle 2016):

- keep the different water types separated to the extent feasible;
- control and minimize contact water through diversion and containment;
- minimize freshwater consumption by recycling and reusing the contact and process water wherever feasible; and
- meet discharge criteria before any site contact water is released to the downstream environment.

Non-contact surface water is diverted and discharged directly into the environment without treatment.

Runoff from the surface facilities are collected in sumps or ponds around the Project and pumped to a central location before being treated and discharged to either Whale Tail Lake (South Basin) or Mammoth Lake.

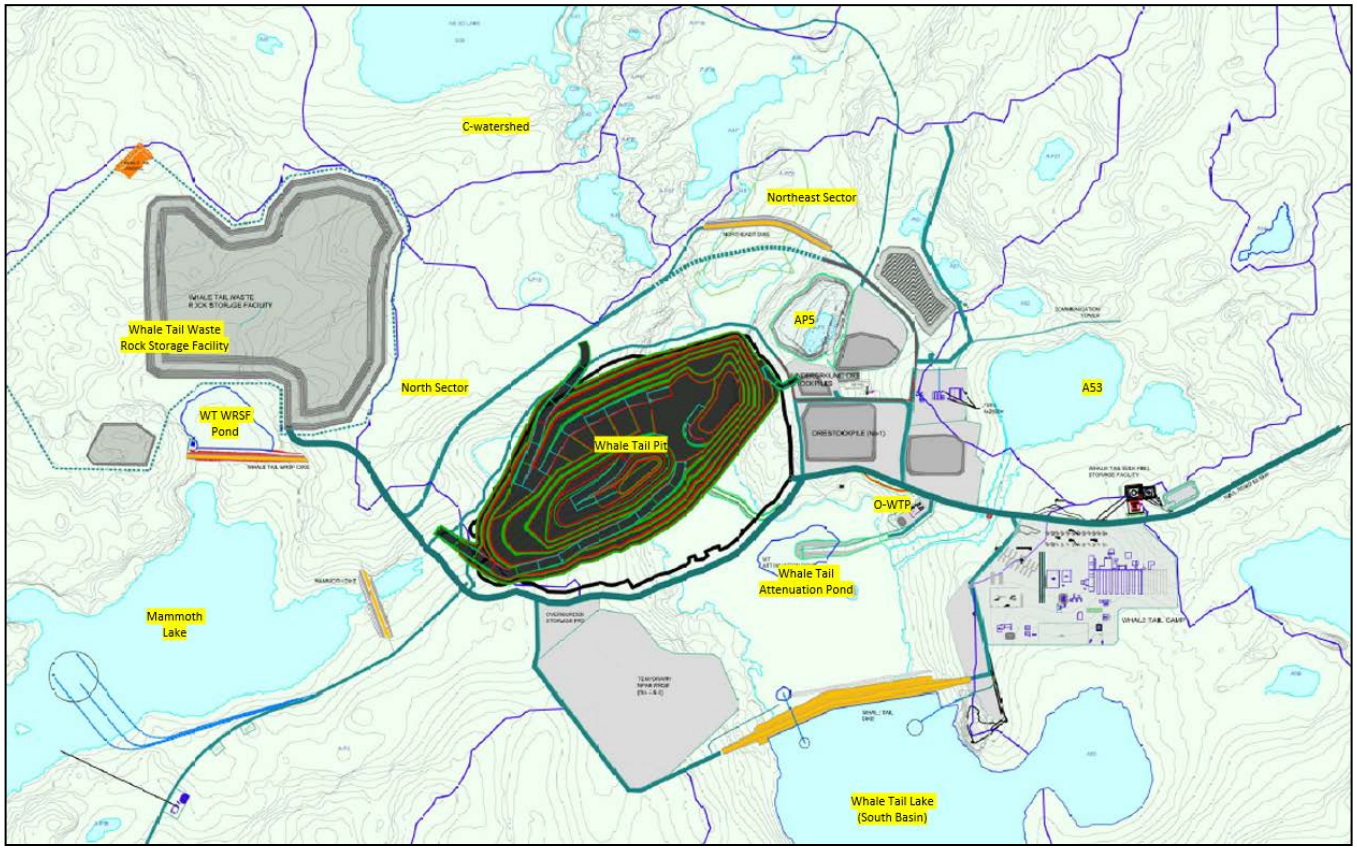


Figure 1: Water Management Facilities (2022)

2.1 2019 Water Management

The mining of Whale Tail Pit requires the dewatering of Whale Tail Lake (North Basin). Prior to dewatering, mining occurred in the portions of the Whale Tail Pit that are above Whale Tail Lake (North Basin). The eastern portion is referred to as Quarry 1, and the western area as Whale Tail Pit. The primary objective of water management in 2019 was to dewater Whale Tail Lake (North Basin) to allow mining of the Whale Tail Pit below Whale Tail Lake (North Basin). During the dewatering period, Quarry 1 was the established attenuation pond on site with collected water pumped to Mammoth either directly or via the operational water treatment plant (O-WTP) if necessary, to treat for total suspended solids (TSS).

It was previously anticipated that the Whale Tail Lake (North Basin) would be dewatered by June 2019, at which time Quarry 1 and the Whale Tail Pit would merge and the Whale Tail Attenuation Pond would be used to manage site contact water flows. Higher than average precipitation in 2019 coupled with larger than predicted seepage through the Whale Tail Dike delayed dewatering to the end of 2019. To manage the larger than anticipated flows, a modified management strategy was employed based on treatment requirements:

- No treatment required:
  - water collected in Quarry 1 not requiring treatment was pumped to the C-watershed via AP5 (January – September 2019).

  - dewatering flows from the Whale Tail Lake (North Basin), were pumped to Whale Tail Lake (South Basin) (March – May 2019).
- TSS treatment required: The flows were pumped via the O-WTP to first Mammoth Lake (July – October 2019) then to Whale Tail Lake (South Basin) (October – December 2019).
- Contact water treatment required: Contact water collected in Quarry 1 requiring treatment was discharged to Mammoth Lake via the O-WTP (October – December 2019).

The water management strategy for 2019 is shown conceptually in Figure 2.

2.2 January – June 2020 Water Management

Prior to the spring melt event in 2020, although Whale Tail Lake (North Basin) is dewatered, site contact water is still collected in Quarry 1 prior to treatment. During this time, only the camp biodisk flows and seepage through the Whale Tail Dike reports to the Whale Tail Attenuation Pond. Dewatering flows from Whale Tail Lake (North Basin) are pumped to different receivers, depending on TSS treatment requirements:

- Contact water: Contact water collected in Quarry 1 requiring treatment is discharged to Mammoth Lake via the O-WTP.
- Seepage Water: Water collected in the Whale Tail Lake (North Basin) is discharged to Whale Tail Lake (South Basin) via the O-WTP.

The planned water management for the winter of 2020 is shown in Figure 3.

Following the 2020 freshet, site contact water will be collected in the Whale Tail Attenuation Pond until the end of operations (July 2022).

2.3 July 2020 to the End of Operations Water Management

Following the 2020 spring melt, all site contact water will report to the Whale Tail Attenuation Pond (former Whale Tail Lake (North Basin)) and will be discharged to Mammoth Lake via the O-WTP.

The planned water management for the remainder of operations is shown in Figure 4.

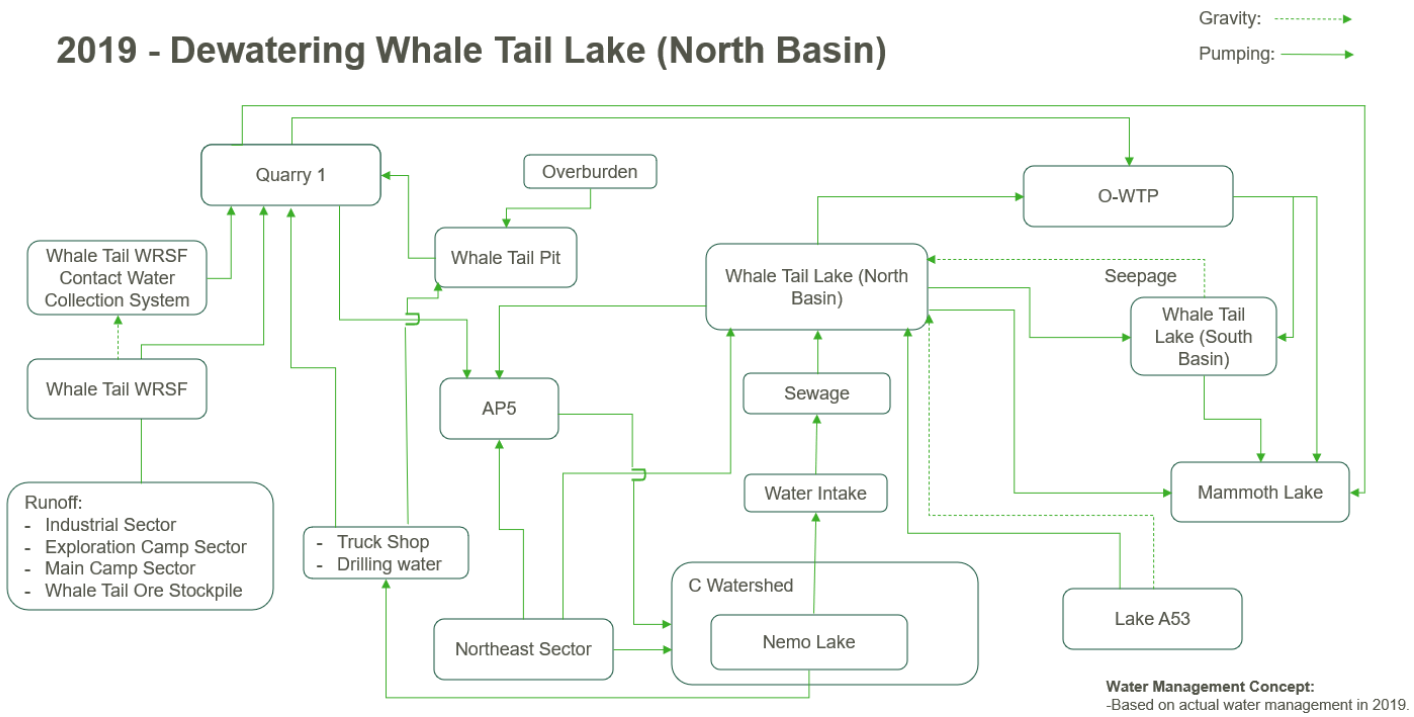


Figure 2: Conceptual Flow Diagram – 2019

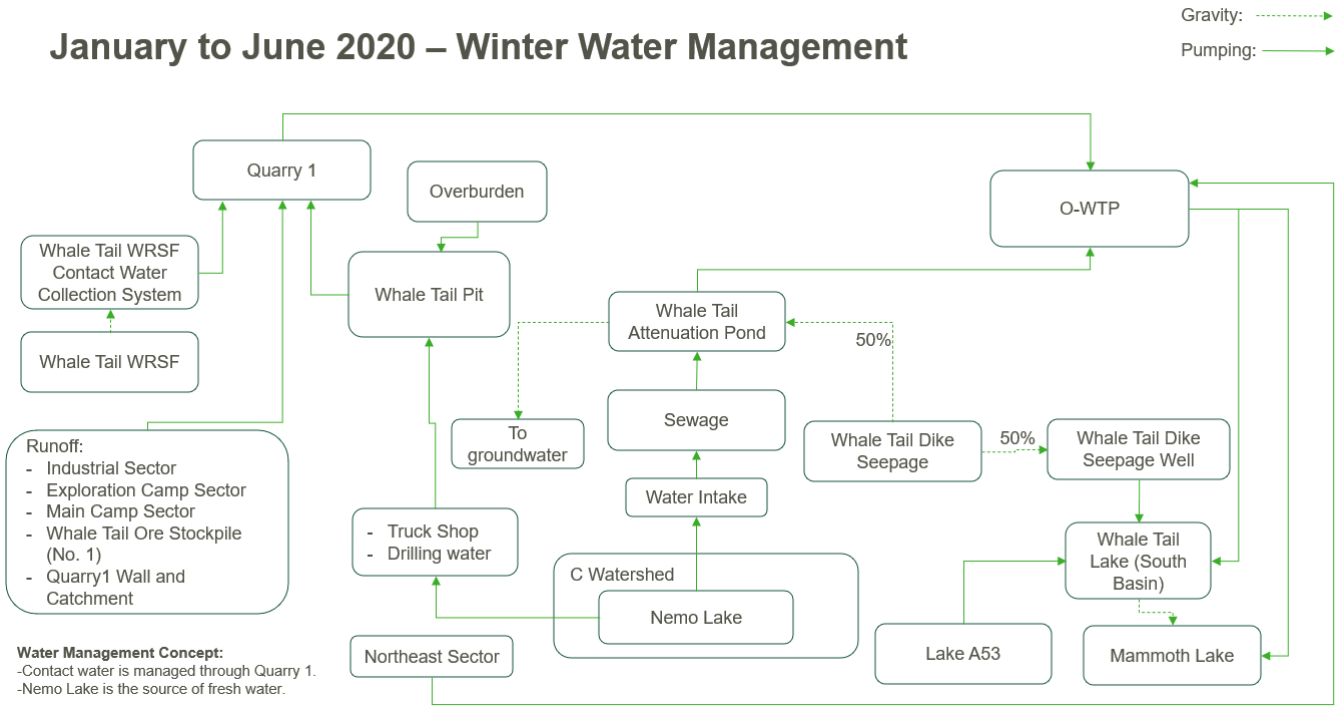


Figure 3: Conceptual Flow Diagram – Winter 2020

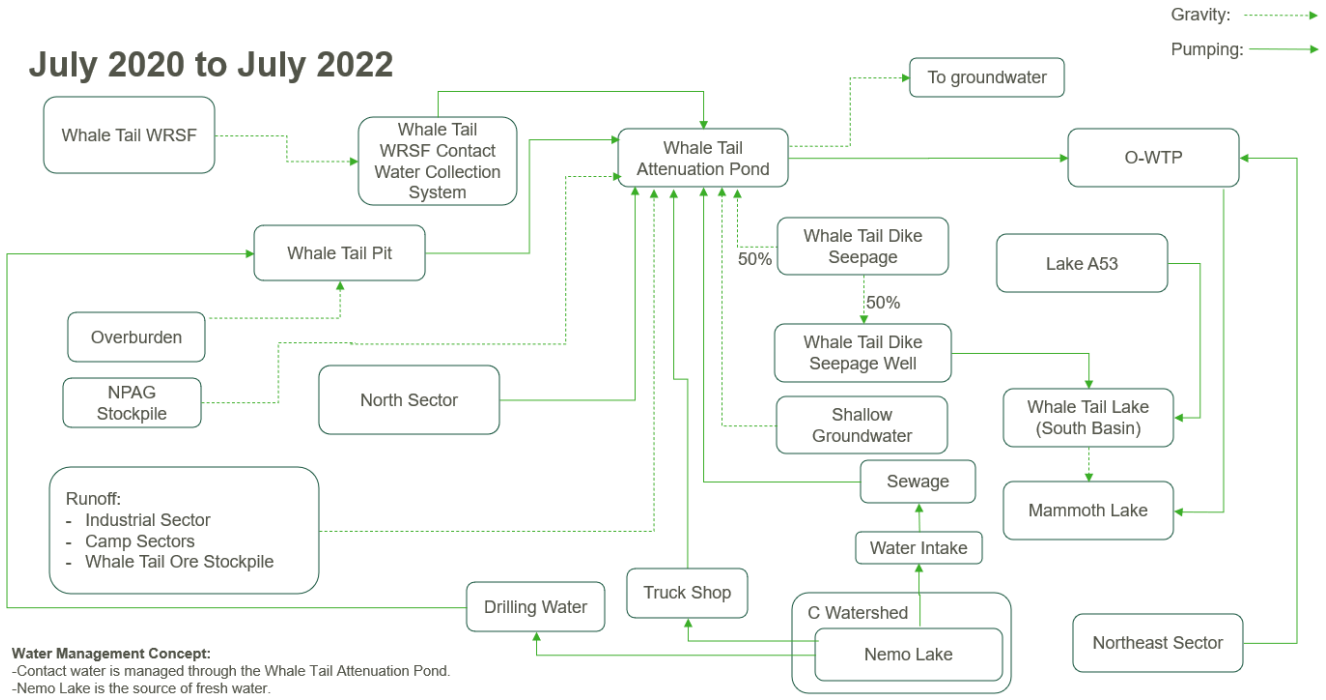


Figure 4: Conceptual Flow Diagram– July 2020 to July 2022 (End of Operations)

2.4 Closure Water Management

At closure, Whale Tail Pit and Whale Tail Attenuation Pond will be allowed to refill. To expedite the filling process, the runoff from the managed catchments will be conveyed to Whale Tail Pit, and to the rest of Whale Tail Lake (North Basin) once the pit is refilled. As part of this process, Whale Tail Lake (South Basin) will be drawn down. As part of the Whale Tail Project Fisheries Offsetting, at closure, aquatic habitat at the Project will be created by maintaining a higher water level than the baseline level in Whale Tail Lake (Agnico Eagle 2016). A sill will be constructed at the Mammoth Dike to raise water levels in Whale Tail Lake to a surface elevation of 153.5 masl (i.e., 1 metre over the baseline elevation). The water management plan for the closure period is presented conceptually in Figure 5.

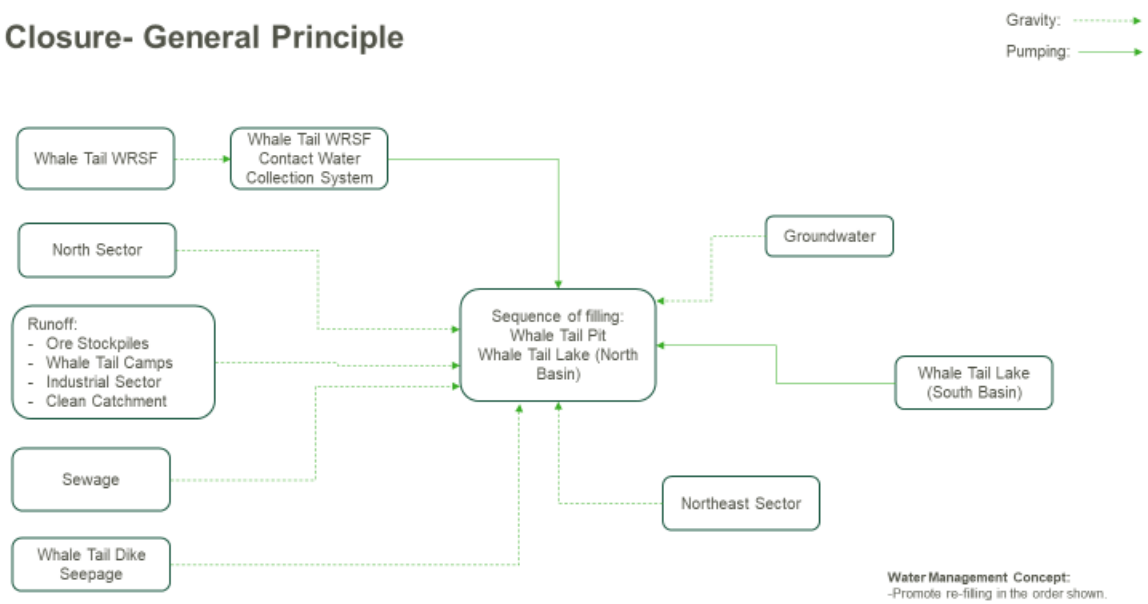


Figure 5: Conceptual Flow Diagram for Closure

3.0 WATER BALANCE BASIS

The inputs and assumptions used in the water balance have been summarized in the Project design document presented in Appendix A. This includes site climate, mine plan, consumptive flows and hydrogeological inputs. Reported data were used instead of design values in 2019.

4.0 MEAN ANNUAL WATER BALANCE RESULTS

A summary of the managed catchments, water balance inputs and graphical results is presented below. The monthly water balance results are presented in tabular and schematic format in Appendices B and C, respectively.

4.1 Quarry 1

Prior to the dewatering of Whale Tail Lake (North Basin), mining will occur in Quarry 1 and the Whale Tail Pit. The Whale Tail Pit and Quarry 1 will merge and are modelled as the Whale Tail Pit after June 2020. Once mining is completed in Quarry 1, Quarry 1 will act as the site attenuation pond until the Whale Tail Attenuation Pond comes online. The quarry receives inflows from the Whale Tail WRSF, the Whale Tail Pit, the Industrial and Camp sectors as well as drilling water and flows from the truck shop.

In 2019, the larger than anticipated flows (as described in Section 2.1) required the following strategy for water collected in Quarry 1. This water was discharged to different destinations depending on water quality. The excess flows to Quarry 1 requiring treatment were pumped to AP5 from January to August (for ultimate discharge to the C-watershed). From August to October, water not requiring treatment was pumped to Mammoth Lake. All water requiring treatment was discharged to the O-WTP for discharge to Mammoth.
Inflows and outflows are summarized in Table 1, and presented in tabular form in Appendix B.

Table 1: Water Balance Flow Components (Quarry 1)

Figure	Flow Component	Flow Type	Start	End	Note / Comment
INFLOWS					
Figure 6 (Operations)	Runoff from the Quarry drainage area	Natural drainage	2018	June 2020	Catchment runoff until decommissioning of Quarry 1 by June 2020 after the spring melt occurs.
	Runoff from the Whale Tail Pit	Pump / Pipeline	July 2018	June 2020	Runoff collected from the Whale Tail Pit until decommissioning of Quarry 1 by June 2020 after the spring melt occurs and Whale Tail Attenuation Pond becomes operational for contact water.
	Runoff from the Whale Tail WRSF Contact Water Collection System	Pump / Pipeline	2018	June 2020	Runoff collected from the Whale Tail WRSF until decommissioning of Quarry 1 by June 2020 after the spring melt occurs and Whale Tail Attenuation Pond becomes operational for contact water.
	Runoff from the Industrial Sector, Ore Stockpiles and Camp Sector	Pump / Pipeline	2018	June 2020	Runoff collected until decommissioning of Quarry 1 by June 2020 after the spring melt occurs and Whale Tail Attenuation Pond becomes operational for contact water.
	Pumped flows from the Truck Shop	Pump / Pipeline	2018	June 2020	Flow from the Truck Shop until decommissioning of Quarry 1 by June 2020 after the spring melt occurs and Whale Tail Attenuation Pond becomes operational for contact water.
	Drilling Water	Pump / Pipeline	2018	August 2019	Drilling water from Whale Tail Lake (South Basin) until September 2018 when the water source switches to Nemo Lake.
OUTFLOWS					
Figure 7 (Operations)	Evaporation	n/a	2018	June 2019	Evaporative losses proportional to the water surface area in Quarry 1.
	Water Loss in Ore	n/a	2018	June 2020	Water locked within the ore.
	Discharge to AP5	Pump / Pipeline	2019	2019	Quarry 1 inflows not requiring treatment pumped to AP5.
	Discharge to Mammoth Lake bypassing O-WTP	Pump / Pipeline	2019	2019	Quarry 1 inflows not requiring treatment pumped to Mammoth Lake.
	Discharge through O-WTP	Pump / Pipeline	June 2019	June 2020	Quarry 1 inflows requiring treatment pumped to Mammoth Lake via the O-WTP.

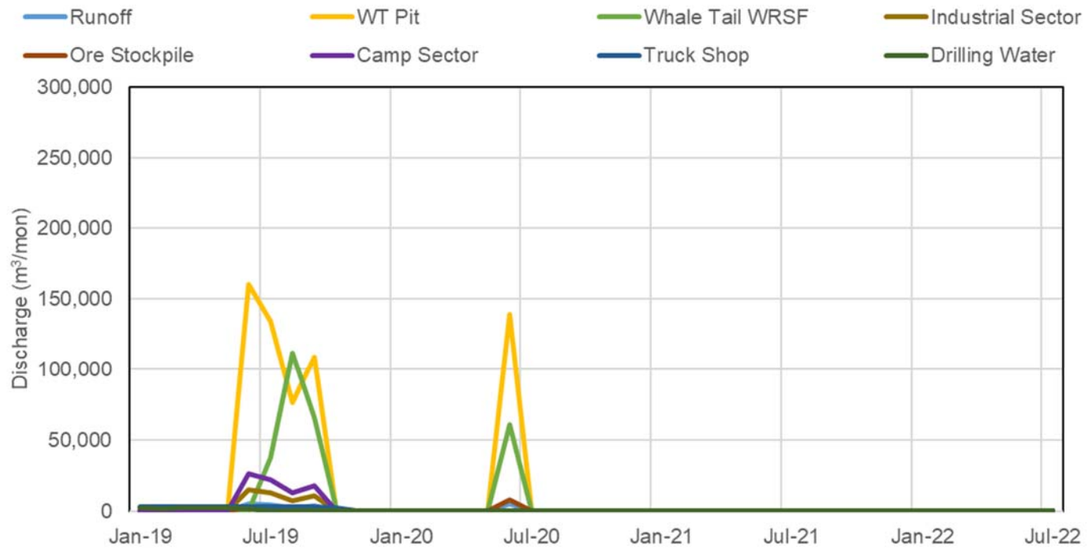


Figure 6: Inflows to Quarry 1 (Operations)

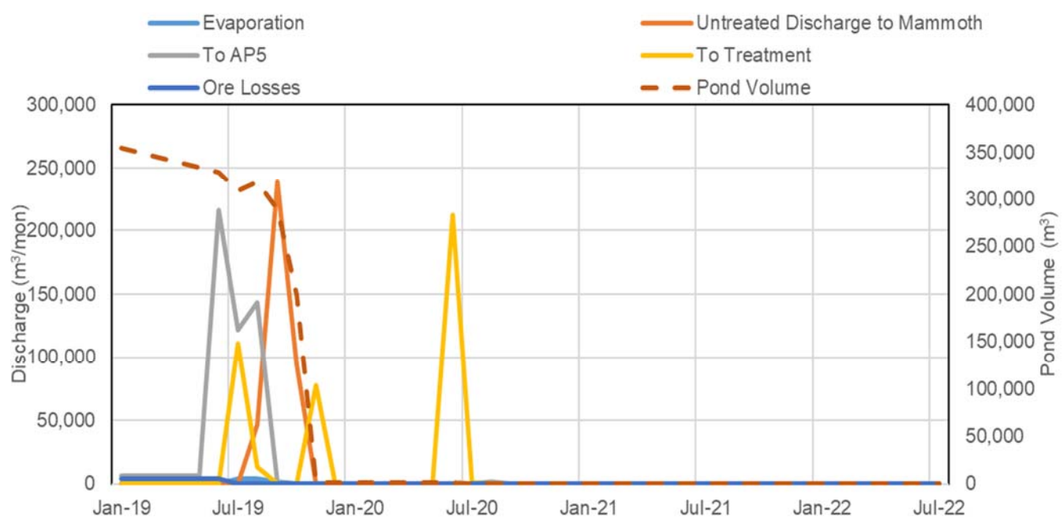


Figure 7: Outflows from Quarry 1 (Operations)

4.2 AP5

AP5 is located just northeast of, and drains naturally to, Whale Tail Lake. The pond is excavated and was pumped dry prior to 2018 to permanently increase capacity to manage runoff. The pond receives runoff from its watershed, which includes the underground waste rock storage facility and ore stockpiles and the underground portal.

In 2019, dewatering flows not requiring treatment (from Quarry 1 and Whale Tail Lake (North Basin) and excess water accumulating in the Northeast Sector), were pumped to AP5 and then discharged to the C-watershed. Following the dewatering of Whale Tail Lake (North Basin), no site surface water was pumped to the pond. Inflows and outflows for AP5 in 2019 are summarized in Table 2, and presented in tabular form in Appendix B.

Table 2: Water Balance Flow Components (AP5)

Figure	Flow Component	Flow Type	Start	End	Note / Comment
INFLOWS					
■ Figure 8 (Operations)	■ Runoff from natural areas	■ Natural drainage	■ 2018	■ Post-Closure	■ Runoff volumes are expected to be inversely proportional to the disturbed and waste rock pad areas.
	■ Runoff from the underground waste rock pad and underground ore stockpile	■ Natural drainage	■ 2018	■ Closure	■ Runoff volumes are expected to be proportional to the area of the waste rock pad.
	■ Runoff from underground portal	■ Pump / Pipeline	■ 2019	■ Closure	■ Runoff volumes are expected to be proportional to the area of the portal
	■ Dewatering flow from Quarry 1	■ Pump / Pipeline	■ 2019	■ 2019	■ Dewatering volume not requiring treatment prior to discharge is pumped to the pond.
	■ Overflow from Northeast Sector	■ Pump / Pipeline	■ 2019	■ 2019	■ Dewatering volume not requiring treatment prior to discharge is pumped to the pond.
	■ Dewatering flow from Whale Tail Lake (North Basin)	■ Pump / Pipeline	■ 2019	■ 2019	■ Dewatering volume not requiring treatment prior to discharge is pumped to the pond.
OUTFLOWS					
■ Figure 9 (operations)	■ Evaporation	■ n/a	■ 2018	■ Closure	■ Evaporative losses expected to be proportional to the water surface area of AP5. ■ At closure, AP5 is backfilled. It has evaporation potential.
	■ Discharge to the C-watershed	■ Pump / Pipeline	■ 2019	■ 2019	■ Site contact flows not requiring treatment are discharged to the C-watershed

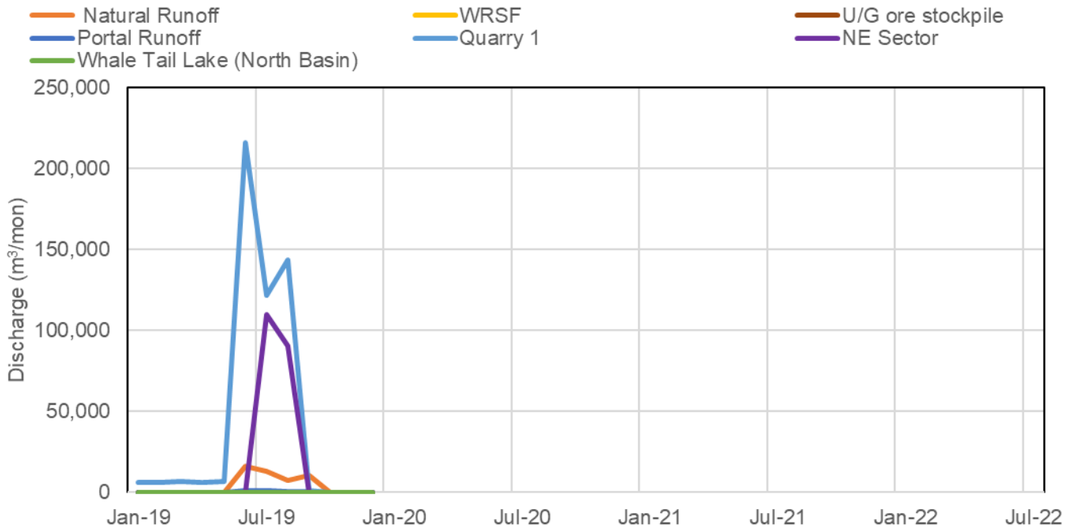


Figure 8: Inflows to AP5 (Operations)

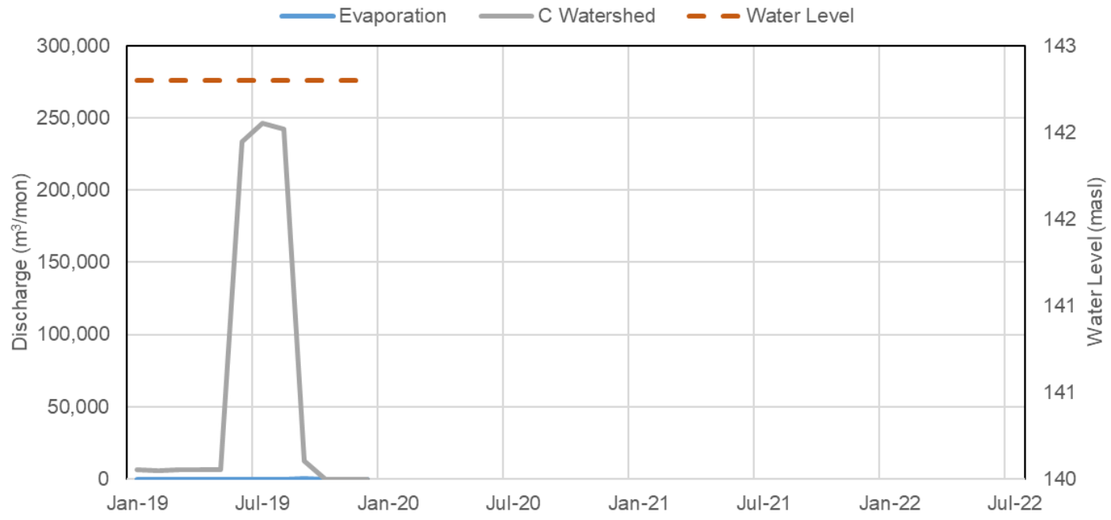


Figure 9: Outflows from AP5 (Operations)

4.3 Northeast Sector

The Northeast Sector consists of the catchment upstream of the Northeast Dike, initiated in January 2019, just north of Whale Tail Lake. Prior to January 2019, runoff from the Northeast Sector drains naturally into Whale Tail Lake (North Basin). Runoff from the Northeast Sector is assumed to require treatment for TSS and will be diverted to Mammoth Lake via the O-WTP from June 2019 to the end of operations. If water quality permits, this water can also be discharged directly to the C-watershed. At closure, the Northeast Dike will be decommissioned thereby re-establishing drainage patterns towards Whale Tail Lake (North Basin). The Northeast Sector has a drainage area of 1.91 km^2.

In 2019, excess water was found to be impounding behind the Northeast Dike, causing seepage through the dike. To mitigate this, excess water from the sector was either pumped to Whale Tail Lake (North Basin), to AP5, or to the C-watershed.

Inflows and outflows are summarized in Table 3, and presented in tabular form in Appendix B.

Table 3: Water Balance Flow Components (Northeast Sector)

Figure	Flow Component	Flow Type	Start	End	Note / Comment
INFLOWS					
■ Figure 10 (Operations) ■ Figure 11 (Closure)	■ Runoff from Lake A49	■ Natural drainage	■ 2018	■ Post-Closure	■ Flows from A49 are constant over operations and closure
	■ Runoff from natural areas	■ Natural drainage	■ 2018	■ Post-Closure	■ Runoff volumes are expected to be proportional to the catchment area of the Northeast Sector.
OUTFLOWS					
■ Figure 12 (Operations) ■ Figure 13 (Closure)	■ Evaporation	■ n/a	■ 2018	■ Closure	■ Evaporative losses are expected to be proportional to the collective waterbody areas of the Northeast Sector.
	■ Runoff to Whale Tail Lake (North Basin)	■ Pump / Pipeline	■ 2018	■ 2019	■ Natural runoff to Whale Tail Lake (North Basin) through Northeast Dike during operations or directly to the North Basin when the Northeast Dike is decommissioned at closure.
	■ Runoff to AP5	■ Pump / Pipeline	■ 2019	■ 2019	■ Runoff pumped to AP5.
	■ Runoff to C-watershed	■ Natural drainage	■ 2019	■ 2019	■ Runoff pumped to C-watershed.
	■ Runoff diversion to Mammoth Lake	■ Pump / Pipeline	■ 2019	■ Closure	■ Runoff diversion to Mammoth Lake via the O-WTP once the Whale Tail Dike is operational until closure.

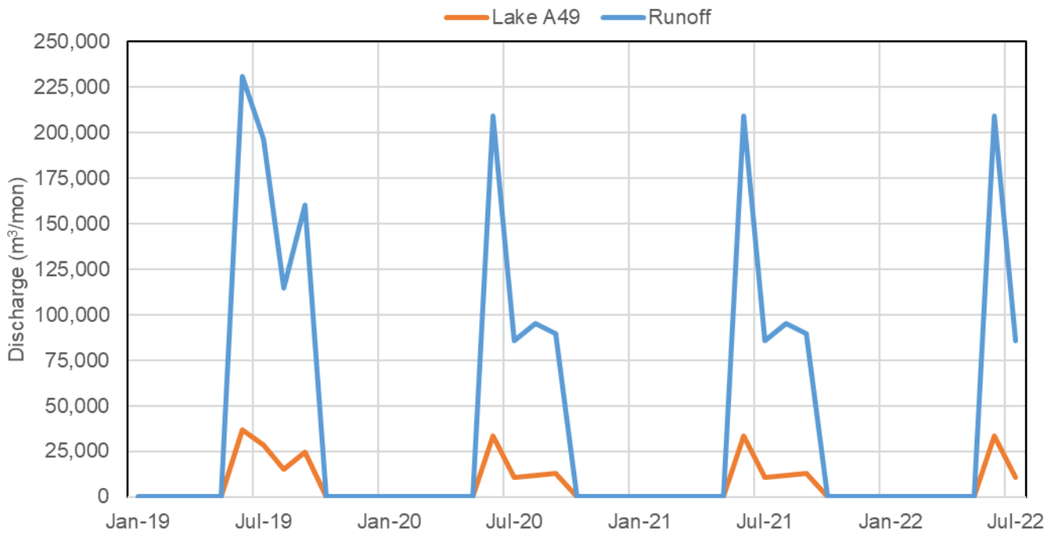


Figure 10: Inflows to the Northeast Sector (Operations)

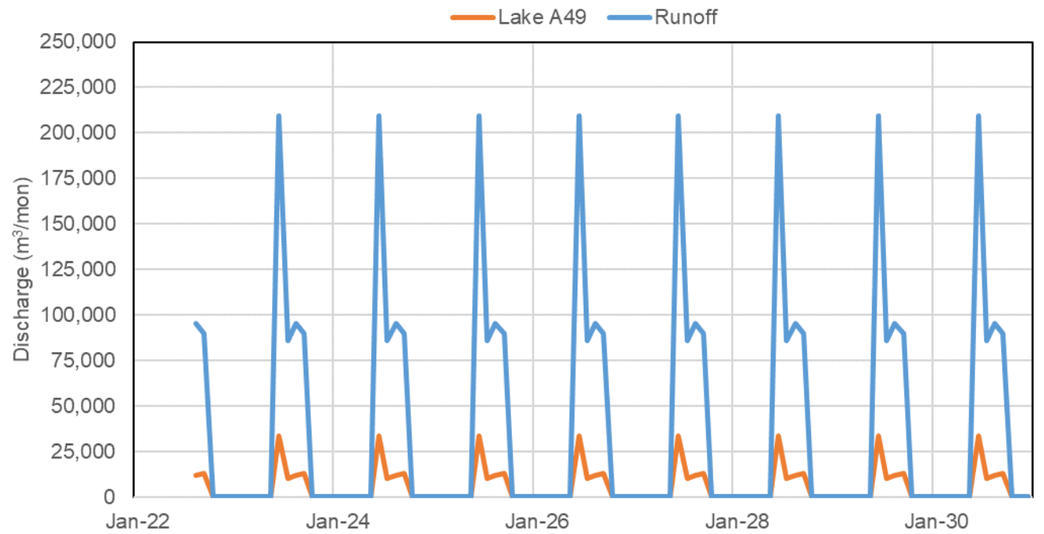


Figure 11: Inflows to the Northeast Sector (Closure)

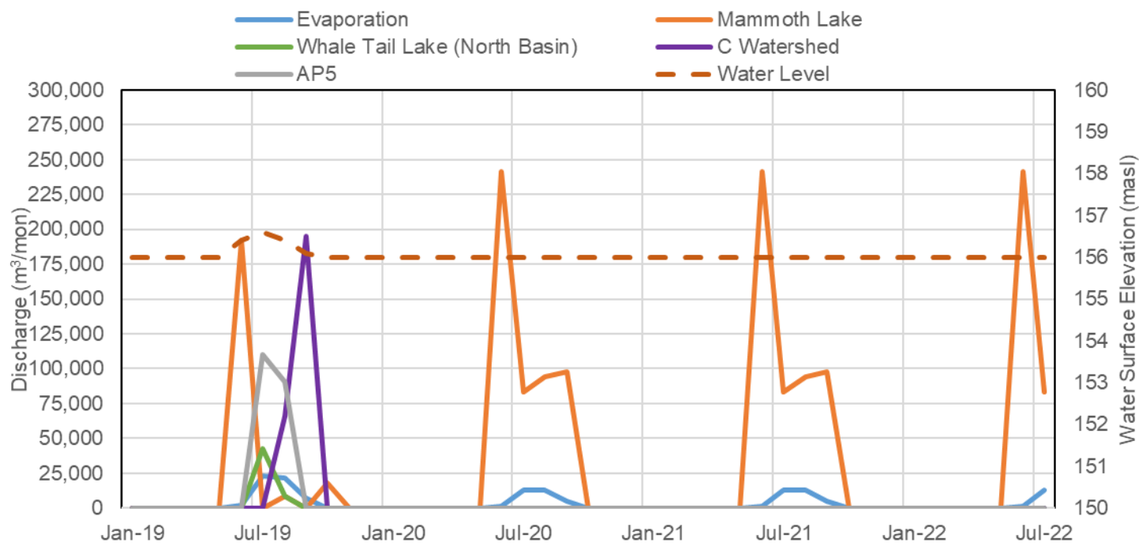


Figure 12: Outflows from the Northeast Sector (Operations)

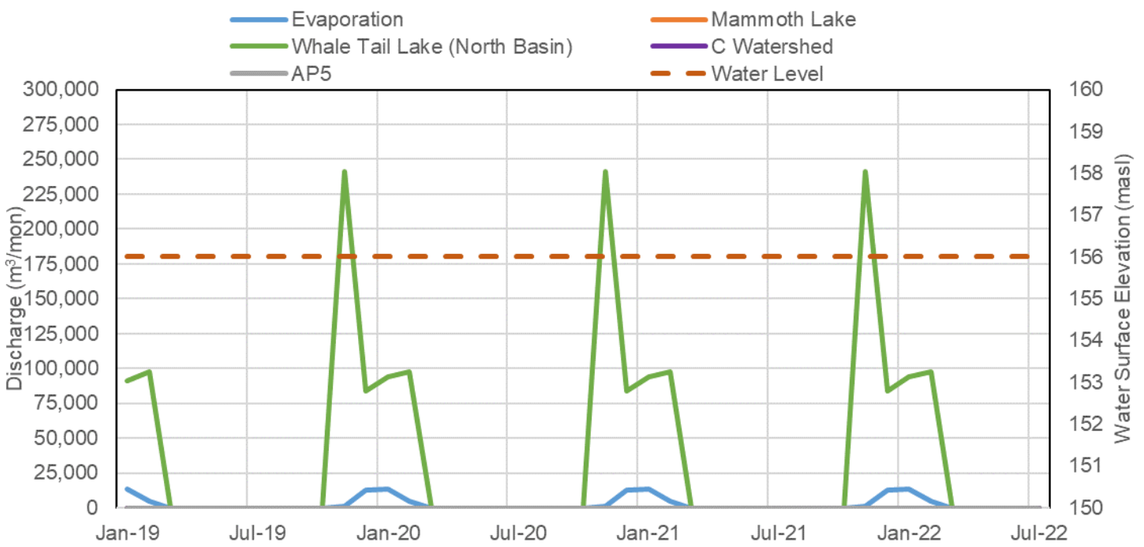


Figure 13: Outflows from the Northeast Sector (Closure)

4.4 Whale Tail Waste Rock Storage Facility Contact Water Collection System

The catchment of the Whale Tail WRSF Contact Water Collection System is located in the northern headwaters of the Mammoth Lake catchment. Its runoff drained naturally to Mammoth Lake until Licence A was received (approved in July 2018). Since then, runoff has been collected in a temporary sump and diverted to Quarry 1. This will continue until the Whale Tail Attenuation Pond becomes operational in 2020. Runoff from the Whale Tail WRSF and catchment area will then be collected in the Whale Tail WRSF Contact Water Collection System and discharged to the Whale Tail Attenuation Pond until closure.

In August 2019, seepage from the WRSF Dike was noted. It is estimated that approximately 61,500 m^3 seeped through the dike and reported to Mammoth Lake. To reduce the head behind the dike and the resulting seepage to Mammoth Lake, starting in September 2019, no water was permitted to accumulate in the WRSF Pond. All runoff reporting to the WRSF pond was pumped directly to Quarry 1. Once the Whale Tail Attenuation Pond is operational in the spring of 2020, the runoff will be pumped to the Attenuation Pond.

At closure, runoff will be pumped to the Whale Tail Pit to expedite refilling of the pit and Whale Tail Lake (North Basin). Natural drainage patterns will be re-established at Post-Closure if water quality criteria are met (i.e., the assumed scenario in this water balance). The Whale Tail WRSF has a drainage area of 1.09 km^2.

Inflows and outflows are summarized in Table 4, and presented in tabular form in Appendix B.

Table 4: Water Balance Flow Components (Whale Tail WRSF Contact Water Collection System)

Figure	Flow Component	Flow Type	Start	End	Note / Comment
INFLOWS					
■ Figure 14 (Operations) ■ Figure 15 (Closure)	■ Runoff from natural areas	■ Natural drainage	■ 2018	■ Post-Closure	■ Runoff volumes are expected to be inversely proportional to the footprint of the Whale Tail WRSF located in the Whale Tail WRSF Contact Water Collection System catchment, which reaches its maximum footprint in 2021.
	■ Runoff from the Whale Tail WRSF	■ Natural drainage	■ Q3 2018	■ Post-Closure	■ Runoff volumes are expected to be proportional to the footprint of the Whale Tail WRSF located in the Whale Tail WRSF Contact Water Collection System catchment, which reaches its maximum footprint in 2021.
	■ Seepage from the Whale Tail WRSF	■ Natural drainage	■ Q3 2018	■ Post-Closure	■ Based on OKC modelling results, seepage from the WRSF is negligible (See Appendix A).
OUTFLOWS					
■ Figure 16 (Operations) ■ Figure 17 (Closure)	■ Evaporation	■ n/a	■ Q3 2018	■ Post-Closure	■ Evaporative losses, proportional to the water surface area of the Whale Tail WRSF Water Collection System, once the pond becomes operational.
	■ Runoff to Mammoth Lake	■ Natural drainage	■ 2018 ■ Post-Closure	■ Q3 2018 ■ Post-Closure	■ Natural drainage to Mammoth Lake until Licence A is received. ■ Natural drainage to Mammoth Lake at Post-Closure.
	■ Runoff discharged to Quarry 1	■ Pump / Pipeline	■ Q3 2018	■ 2019	■ Runoff discharged to Quarry 1 once Licence A is received until the Whale Tail Attenuation Pond becomes operational.
	■ Seepage to Mammoth Lake	■ Natural Seepage	■ August 2019	■ Sept 2019	■ Accumulation of runoff behind the WRSF Dike resulted in seepage until the Pond accumulation was minimized.
	■ Runoff discharged to Whale Tail Attenuation Pond	■ Pump / Pipeline	■ 2020	■ 2022	■ Runoff discharged to the Whale Tail Attenuation Pond once operational until closure. ■ Runoff volumes are expected to be inversely proportional to the footprint of the Whale Tail WRSF which reaches its maximum footprint in 2021.
	■ Runoff discharged to Whale Tail Pit	■ Pump / Pipeline	■ Closure	■ Post-Closure	■ Runoff discharged to Whale Tail Lake (North Basin) via Whale Tail Pit to expedite refilling of the pit.

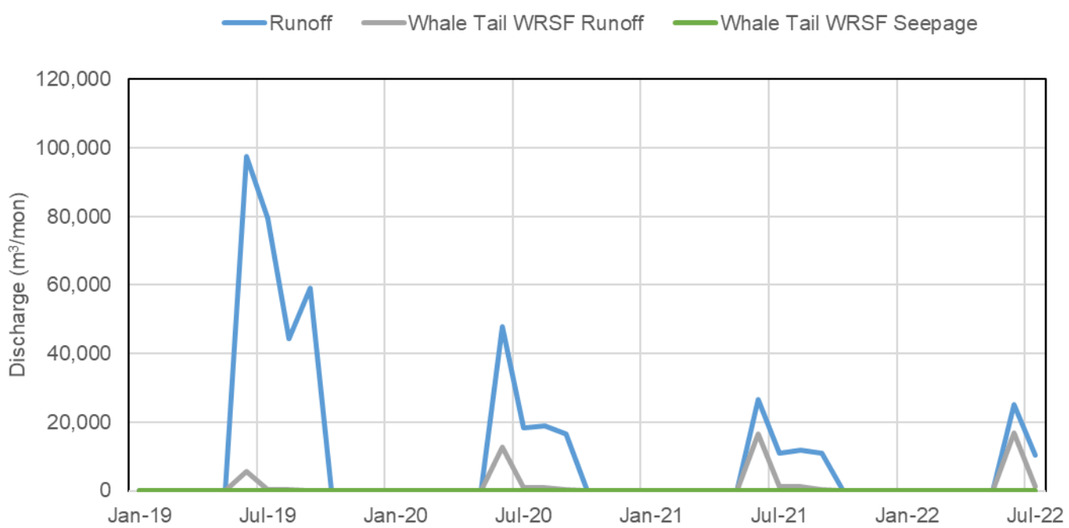


Figure 14: Inflows to the Whale Tail WRSF Contact Water Collection System (Operations)

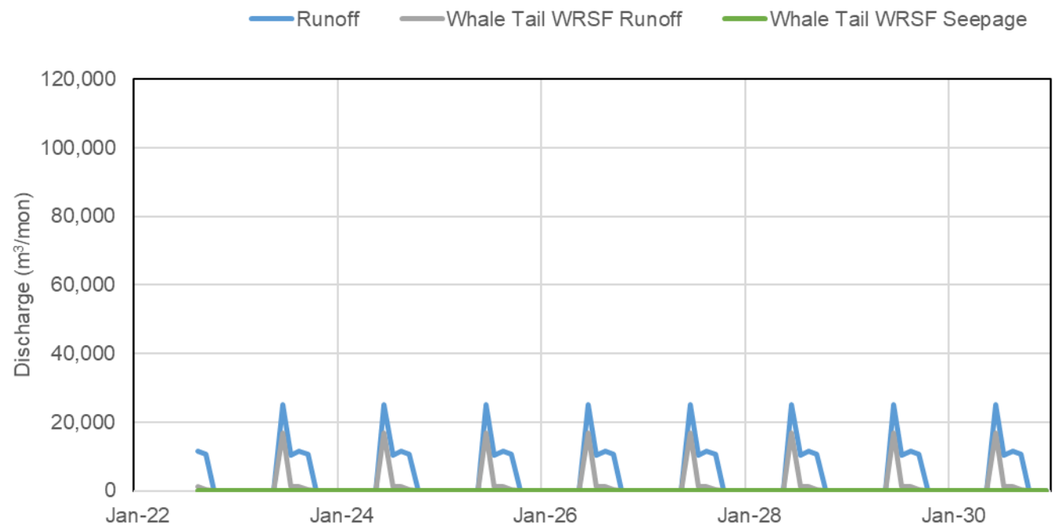


Figure 15: Inflows to the Whale Tail WRSF Contact Water Collection System (Closure)

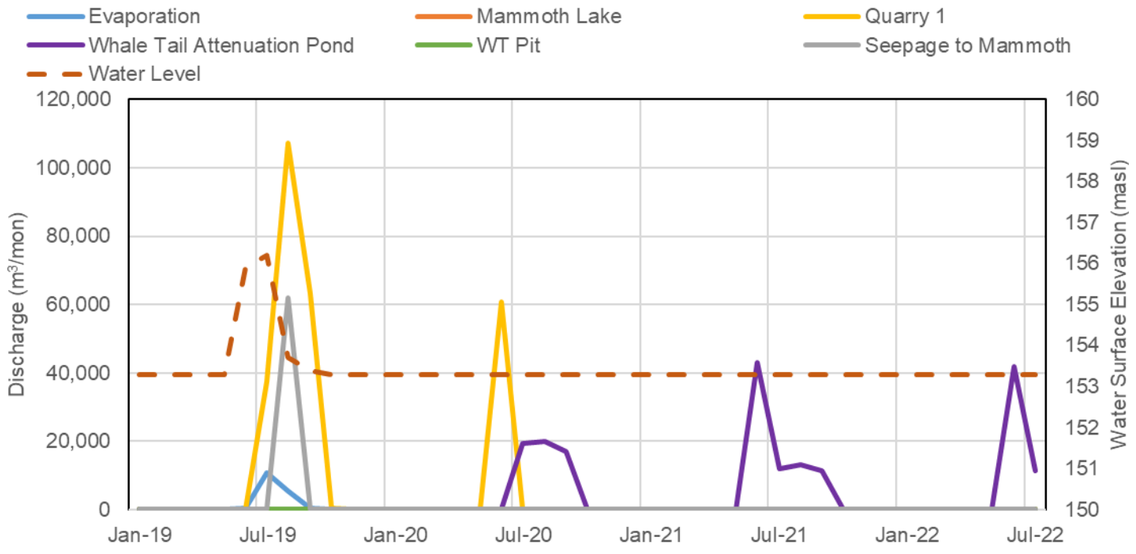


Figure 16: Outflows from the Whale Tail WRSF Contact Water Collection System (Operations)

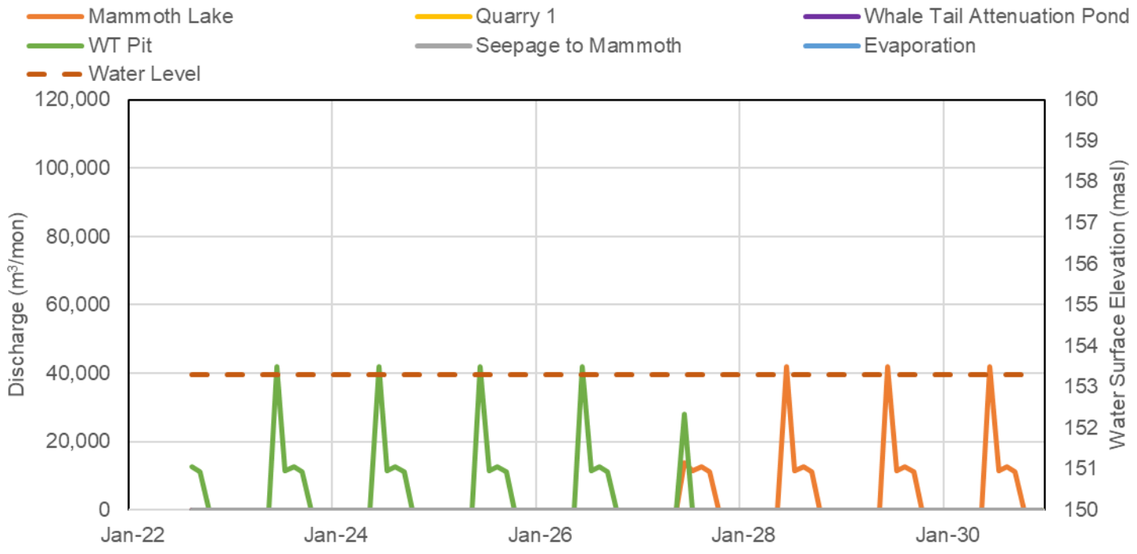


Figure 17: Outflows from the Whale Tail WRSF Contact Water Collection System (Closure)

4.5 North Sector

The North Sector consists of the northwest catchment area of Whale Tail Lake, just north of its natural lake outlet. The North Sector collection area becomes operational once Whale Tail Lake (North Basin) is dewatered and is intended to collect and convey water draining from north of the Whale Tail Pit, to the Whale Tail Attenuation Pond. The North Sector collection area remains operational until closure when it is decommissioned and its natural drainage patterns towards Whale Tail Lake (North Basin) are re-established. The North Sector collection area has a drainage area of 0.243 km^2.

Inflows and outflows are summarized in Table 5, and presented in tabular form in Appendix B.

Table 5: Water Balance Flow Components (North Sector)

Figure	Flow Component	Flow Type	Start	End	Note / Comment
INFLOWS					
■ Figure 18 (Operations) ■ Figure 19 (Closure)	■ Runoff from natural areas	■ Natural drainage	■ 2018	■ Post-Closure	■ Runoff volumes are expected to be proportional to the watershed from 2021 until the end of operations.
OUTFLOWS					
■ Figure 20 (Operations) ■ Figure 21 (Closure)	■ Runoff to Whale Tail Lake (North Basin)	■ Natural drainage	■ 2018	■ 2019	■ Natural drainage to Whale Tail Lake (North Basin) until the Whale Tail Attenuation Pond becomes available.
	■ Runoff to the Whale Tail Attenuation Pond	■ Pump / Pipeline	■ 2019	■ 2022	■ Runoff pumped to the Whale Tail Attenuation Pond until closure.
	■ Runoff to Whale Tail Pit / Lake (North Basin)	■ Natural drainage	■ Closure	■ Post-Closure	■ Runoff volumes remain the same as in operations.

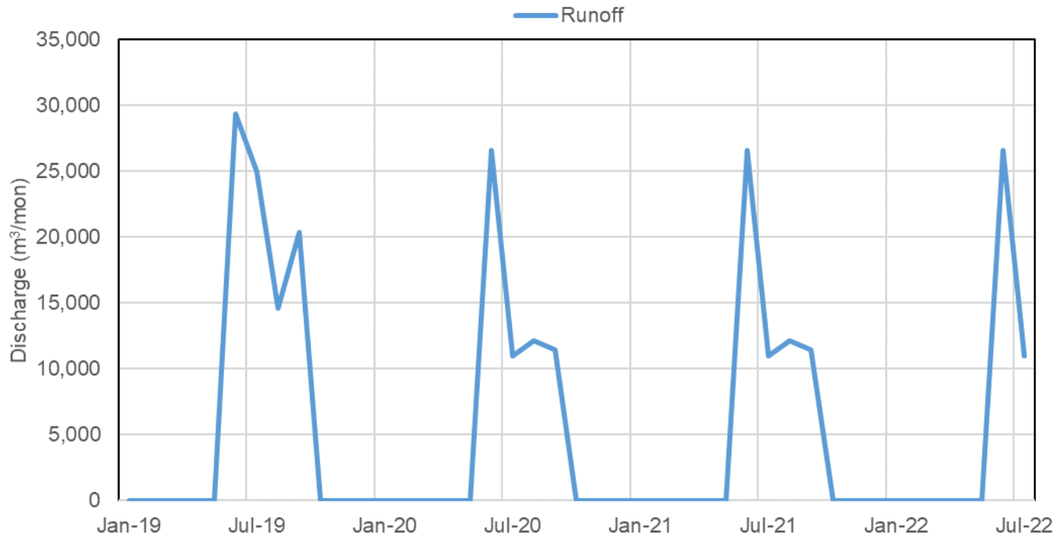


Figure 18: Inflows to the North Sector (Operations)

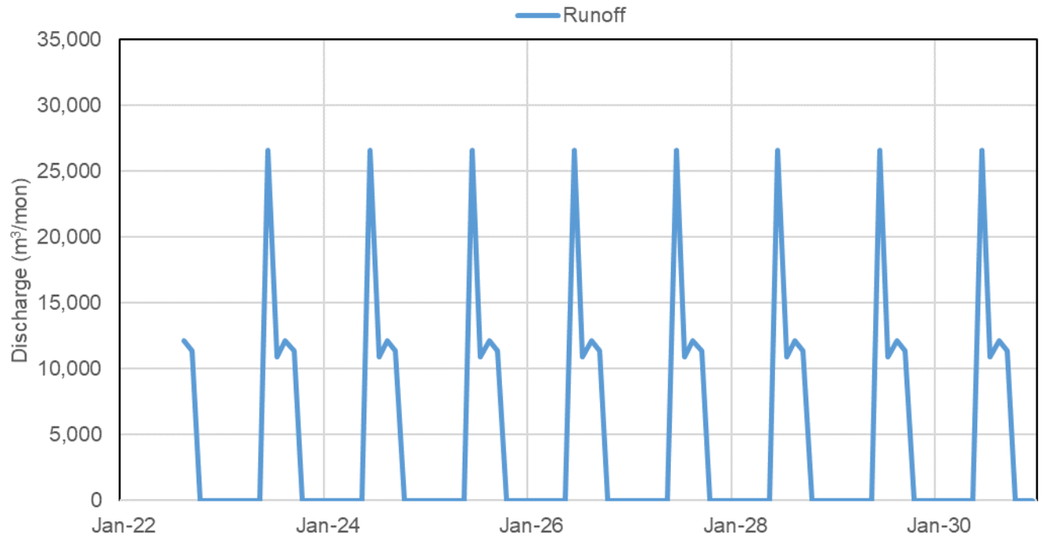


Figure 19: Inflows to the North Sector (Closure)

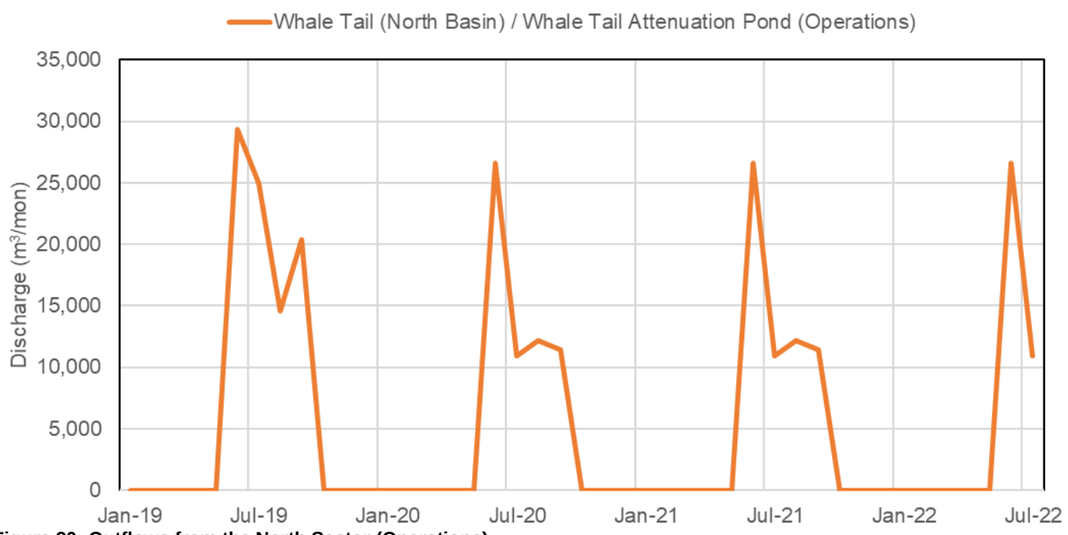


Figure 20: Outflows from the North Sector (Operations)

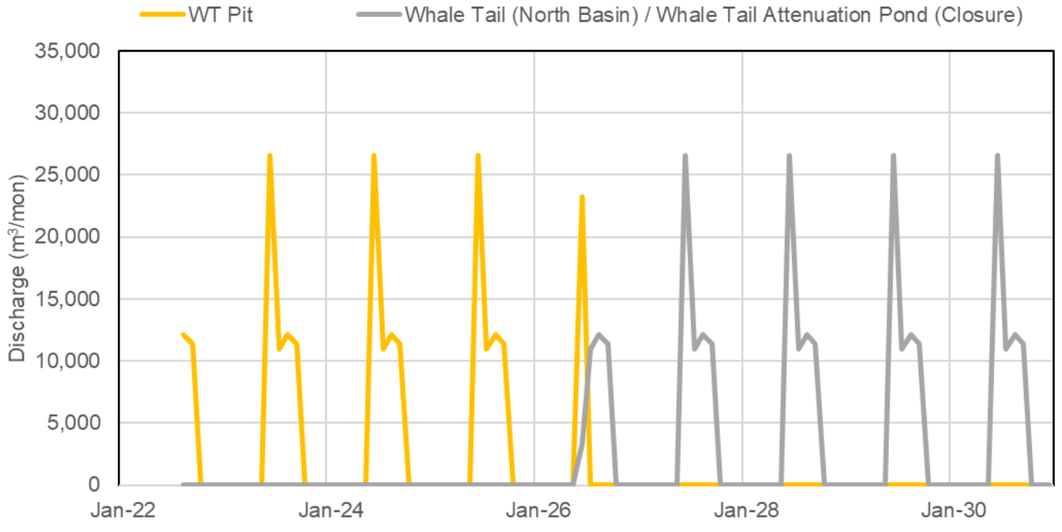


Figure 21: Outflows from the North Sector (Closure)

4.6 Whale Tail Pit

The Whale Tail Pit was initially located on the north-western shore of the Whale Tail Lake (North Basin). At this time, contact water from the pit is pumped to Quarry 1. Quarry 1 will continue to be the contact water management pond until June 2020 when the pit expands to include Quarry 1. At this point, the pit's operational runoff will be conveyed to the Whale Tail Attenuation Pond.

Prior to the dewatering of the Whale Tail Lake (North Basin), the Whale Tail Pit has a baseline drainage area of 0.13 km^2. This increases to 1.17 km^2 once the pit merges with Quarry 1 until closure. At closure, natural drainage patterns surrounding the Whale Tail Pit are re-established to expedite its refilling. The drainage area of the Whale Tail Pit increases to 29.6 km^2 which includes the sum of the natural drainage area of Whale Tail Lake and of the Whale Tail WRSF.

At closure. Whale Tail Pit will be allowed to refill with runoff from the managed catchments as well as pumped flow from Whale Tail Lake (South Basin). The Whale Tail Pit is expected to be refilled to 146.3 masl (i.e., the bed elevation of Whale Tail Lake at Whale Tail Pit) by 2026.

Inflows and outflows are summarized in Table 6, and presented in tabular form in Appendix B.

Table 6: Water Balance Flow Components (Whale Tail Pit)

Figure	Flow Component	Flow Type	Start	End	Note / Comment
INFLOWS					
■ Figure 22 (Operations) ■ Figure 23 (Closure)	■ Catchment Runoff	■ Natural drainage	■ 2018	■ Post-Closure	■ Runoff volumes are expected to be proportional to the watershed area until the end of operations.
	■ Groundwater	■ Natural drainage	■ 2020	■ Post-Closure	■ Groundwater inflows are expected throughout operations of the pit. ■ Freeze back of the pit wall is expected by closure, preventing inflows into the pit until thawing during pit refilling.
	■ Drilling Water	■ Pump / Pipeline	■ 2018	■ Closure	■ Drilling water from Whale Tail Lake (South Basin) until September 2018 when the water source switches to Nemo Lake.
	■ Runoff from Overburden Stockpile	■ Natural drainage	■ 2018	■ Post-Closure	■ Annual runoff volumes are expected to be constant.
	■ Runoff from the North Sector	■ Natural drainage	■ Closure	■ Post-Closure	■ Runoff from the North Sector at closure once its natural drainage patterns are re-established.
	■ Runoff from the Northeast Sector	■ Natural drainage	■ Closure	■ Closure	■ Runoff from the Northeast Sector is directed to the pit until the water level reaches 146.3 m.
	■ Runoff from the WRSF	■ Pump / Pipeline	■ Closure	■ Closure	■ Runoff from the Whale Tail WRSF is pumped to the pit until the water level reaches 146.3 m.
	■ Overflow from the Whale Tail Attenuation Pond	■ Natural drainage	■ WT Att. Pd. full	■ Post-Closure	■ Overflow from the Whale Tail Attenuation Pond (water surface elevation of 146.3 masl) into Whale Tail Pit during closure.
	■ Drawdown from Whale Tail Lake (South Basin)	■ Pump / Pipeline	■ Closure	■ Closure	■ Drawdown flows from Whale Tail Lake (South Basin) is pumped to the pit until the water level reaches 146.3 m
OUTFLOWS					
■ Figure 24 (Operations) ■ Figure 25 (Closure)	■ Evaporation	■ n/a	■ 2018	■ Post-Closure	■ Evaporative losses proportional to the water surface area of Whale Tail Pit.
	■ Water Lost in Ore	■ n/a	■ 2018	■ Closure	■ Water locked within the ore.
	■ Discharge to Quarry 1	■ Pump / Pipeline	■ June 2019	■ June 2020	■ Runoff is managed through Quarry 1 until the Whale Tail Attenuation Pond comes online.
	■ Discharge to Whale Tail Attenuation Pond	■ Pump / Pipeline	■ 2020	■ Closure	■ Runoff is managed through the Whale Tail Attenuation Pond until closure.
	■ Groundwater	■ n/a	■ Closure	■ Closure	■ Groundwater flows from the pit are expected once the pit water levels reach 146.3 m.

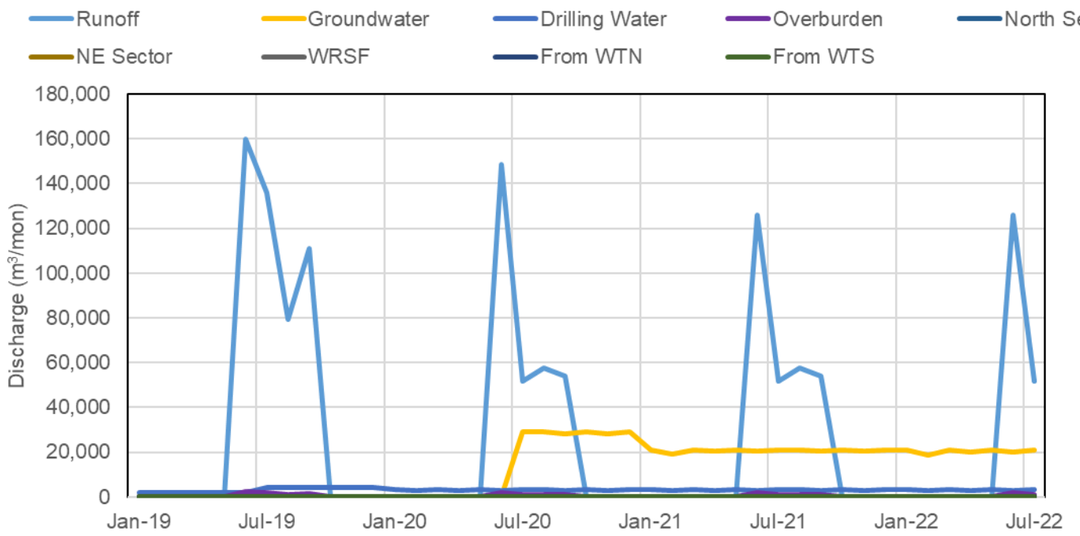


Figure 22: Inflows to the Whale Tail Pit (Operations)

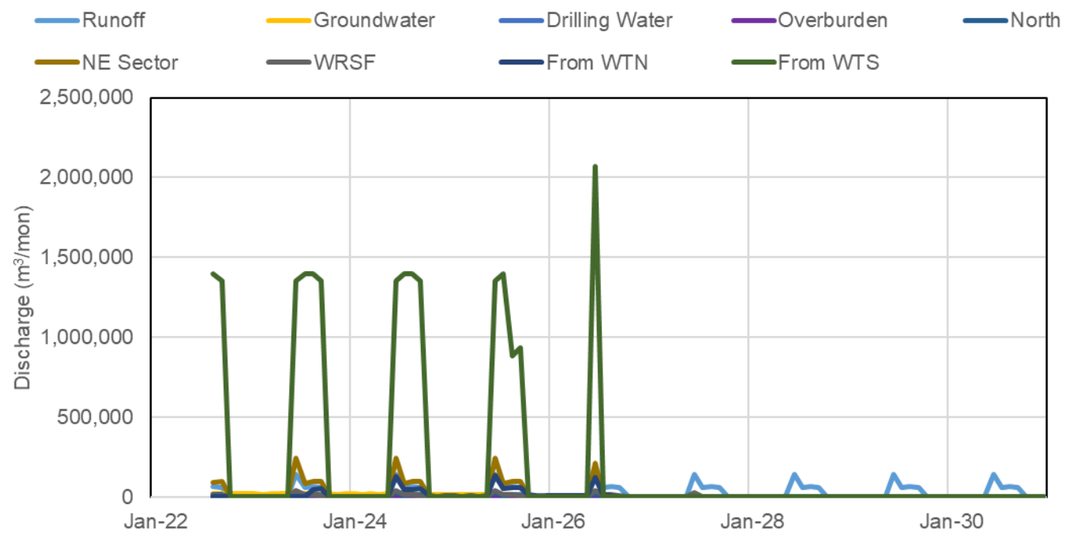


Figure 23: Inflows to the Whale Tail Pit (Closure)

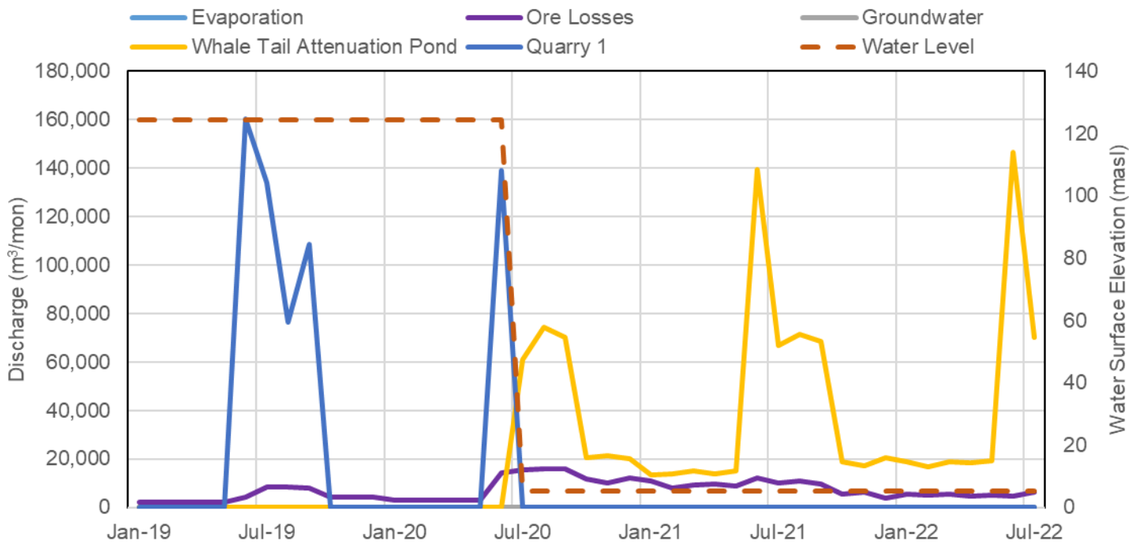


Figure 24: Outflows from the Whale Tail Pit (Operations)

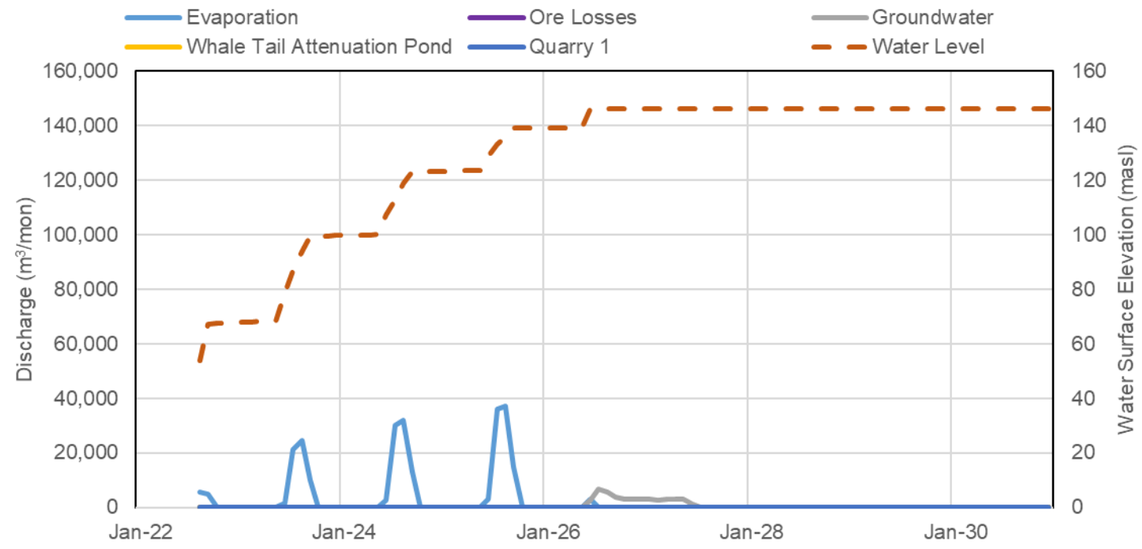


Figure 25: Outflows from the Whale Tail Pit (Closure)

4.7 Whale Tail Lake (North Basin) / Whale Tail Attenuation Pond

The Whale Tail Attenuation Pond is located just south of the Whale Tail Pit. It becomes operational once Whale Tail Lake (North Basin) is dewatered.

In 2019, site contact water (with the exception of flow from the camp biodisk) was managed within Quarry 1; the Whale Tail Lake (North Basin) only received camp biodisk flows and naturally draining run-off (including runoff from the Lake A53 watershed) and seepage through the Whale Tail Dike. This water was then pumped to Whale Tail Lake (South Basin). Approximately 40% of this volume was pumped directly to Whale Tail Lake (South Basin) while the remainder was pumped via the O-WTP due to TSS levels. In 2020 prior to July, water collected in the Whale Tail Lake (North Basin) will be discharged to Whale Tail Lake (South Basin) via the O-WTP.

After July 2020, all site contact water will be managed in the Whale Tail Attenuation Pond until closure. Collected water will be discharged to Mammoth Lake via the O-WTP.

At closure, the Whale Tail Attenuation Pond will become part of Whale Tail Lake (North Basin) once more upon the filling of the Whale Tail Pit. As part of the Project's fisheries offsetting plan, the final elevation of Whale Tail Lake (North Basin) will be 153.5 masl. This level will be maintained by the Mammoth Lake sill constructed at the Mammoth Dike at closure. The Whale Tail Dike will remain in place until pit lake water meets quality objectives.

Post-closure will be initiated in 2027 once the final water level is reached, and water quality is acceptable. At that time, drainage patterns will then be re-established towards Mammoth Lake (i.e., water overflows the Mammoth Lake sill) and the Whale Tail Dike will be decommissioned, reconnecting the North and South basins of Whale Tail Lake.

Whale Tail Lake (North Basin) has a baseline catchment area of 28.6 km^2. This catchment area was reduced to 28.4 km^2 in 2017 from the isolation of the Underground Mine and related water management systems. It was further reduced to 6.12 km^2 with the construction of Whale Tail Dike in 2018. In 2019, the construction of the Northeast Dike and the pumping of the Lake A53 watershed runoff to Whale Tail Lake (South Basin) further reduced the catchment area to 3.05 km^2. Post closure, the natural drainage will be restored, returning to baseline conditions.

Inflows and outflows are summarized in Table 7, and presented in tabular form in Appendix B. Whale Tail Lake (North Basin) is expected to reach the elevation of 153.5 masl by 2027.

Table 7: Water Balance Flow Components (Whale Tail Lake [North Basin] / Whale Tail Attenuation Pond)

Figure	Flow Component	Flow Type	Start	End	Note / Comment
INFLOWS					
■ Figure 26 (Operations) ■ Figure 27 (Closure)	■ Catchment runoff	■ Natural drainage	■ 2018	■ Post-Closure	■ Runoff from the local catchment. Until November 2019, this includes runoff from the Lake A53 watershed. ■ Mean annual runoff volumes are expected to be constant following the installation of the Whale Tail Dike and Mammoth Dike.
	■ Runoff from the North Sector	■ Natural drainage	■ 2018	■ Closure	■ Annual runoff volumes are expected to be constant.
	■ Flows from the Camp Biodisk	■ Pump / pipeline	■ 2018	■ Post-Closure	
	■ Intercepted runoff from the Industrial Sector, Camp Sector and Ore Stockpile	■ Pump / Pipeline	■ June 2018 ■ 2020	■ July 2018 ■ Post-Closure	■ Runoff diversion from the Camp Sector in June and July 2018 prior to the completion of mining in Quarry 1 by end of July 2018. ■ Runoff collected once the Whale Tail Attenuation Pond becomes operational until post-closure.
	■ Runoff collected in the Whale Tail WRSF Contact Water Collection System	■ Pump / pipeline	■ 2019	■ Closure	■ Runoff collected once the Whale Tail Attenuation Pond becomes operational until closure.
	■ Flows from the Northeast Sector	■ Natural drainage	■ 2019	■ 2019	■ Impounded water behind the Northeast Dike seeped through the dike, reporting to the Whale Tail Lake (North Basin).
	■ Groundwater	■ Natural drainage	■ 2019	■ Post-Closure	■ Groundwater inflows during dewatering from March to June 2019. ■ Groundwater inflows following the dewatering of Whale Tail Lake (North Basin) from 2020 to Post-Closure.
	■ Seepage through the Whale Tail Dike	■ Natural drainage	■ 2019	■ Post-Closure	■ Seepage from Whale Tail Lake (South Basin) through the Whale Tail Dike as Whale Tail Lake (North Basin) is dewatered, until Whale Tail Lake (North Basin) is refilled before post-closure. ■ 50% of the seepage is collected by the Whale Tail Dike Seepage Pumping Station when operational and recirculated to Whale Tail Lake (South Basin).
	■ Flows from the Truck Shop	■ Pump / pipeline	■ 2020	■ 2022	■ Flows from the truck shop once the Whale Tail Attenuation Pond becomes operational until closure.
	■ Runoff from NPAG stockpile	■ Natural drainage	■ 2020	■ Post-Closure	■ Runoff is proportional to the stockpile catchment
OUTFLOWS					
■ Figure 28 (Operations) ■ Figure 29 (Closure)	■ Evaporation	■ n/a	■ 2018	■ Post-Closure	■ Evaporative losses are expected to be proportional to the water surface area of Whale Tail Lake (North Basin) / Attenuation Pond.
	■ Drawdown to Whale Tail Lake (South Basin)	■ Pump / pipeline	■ 2019	■ 2019	■ Dewatering of the Whale Tail Lake (North Basin) to Whale Tail Lake (South Basin) with or without treatment through the O-WTP (depending on TSS levels).
	■ Drawdown to Mammoth Lake	■ Pump / pipeline	■ 2019	■ 2019	■ Dewatering of the Whale Tail Lake (North Basin) to Mammoth Lake with or without treatment through the O-WTP (depending on TSS levels).
	■ Discharge via the O-WTP (Seepage)	■ Pump / pipeline	■ Jan 2020	■ June 2020	■ Discharge of collected water (primarily seepage from Whale Tail Dike) to Whale Tail Lake (South Basin) via the O-WTP.
	■ Discharge via the O-WTP	■ Pump / pipeline	■ 2020	■ Closure	■ Discharge of contact water to Mammoth Lake.
	■ Groundwater	■ Natural drainage	■ 2019	■ Post-Closure	■ Infiltration once the Whale Tail Attenuation Pond becomes operational until post-closure.
	■ Overflow to Whale Tail Pit	■ Natural drainage	■ Closure	■ WT Pit full	■ Overflow of the Whale Tail Attenuation Pond into Whale Tail Pit during refilling at 146.3 masl. ■ Overflow of the Whale Tail Attenuation Pond is expected to start in July 2023.
	■ Runoff to Mammoth Lake	■ Natural drainage	■ Post-Closure	■ Post-Closure	■ Natural runoff to Mammoth Lake following the refilling of Whale Tail Lake (North Basin).

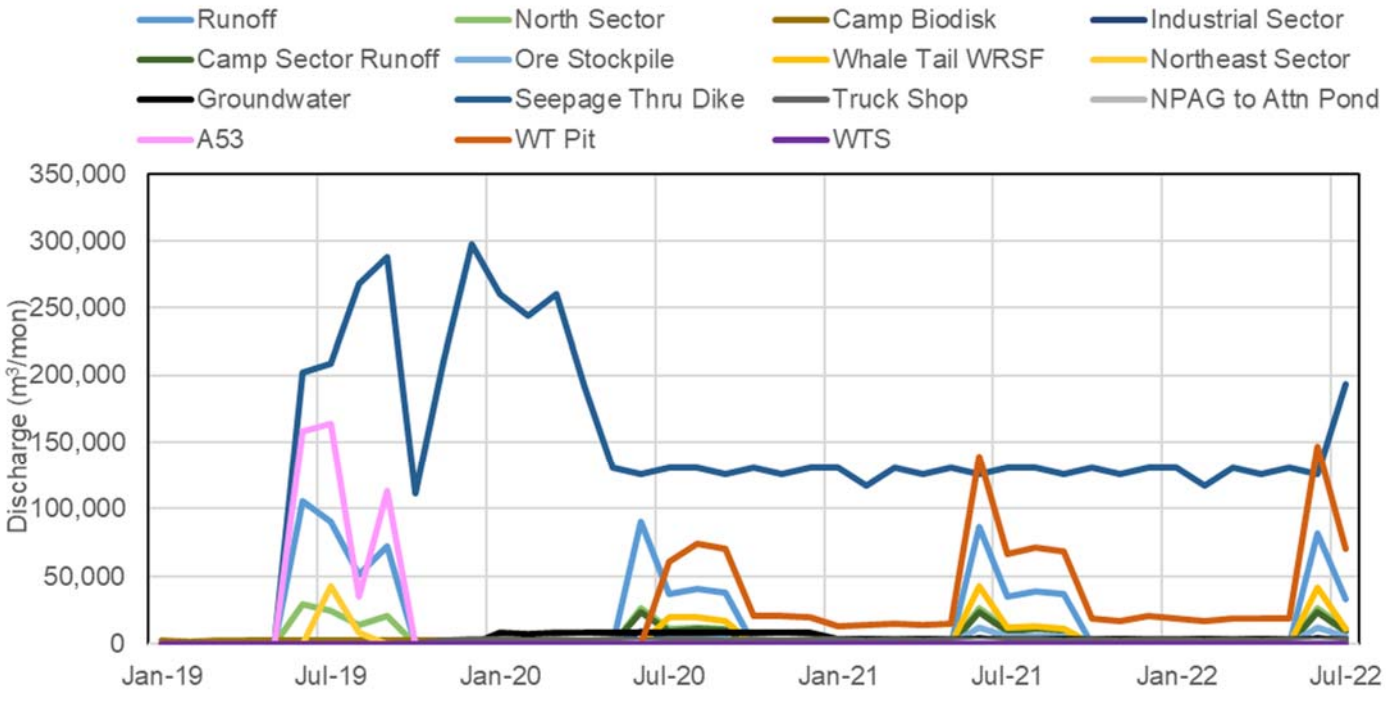


Figure 26: Inflows to the Whale Tail Lake [North Basin] / Whale Tail Attenuation Pond (Operations)

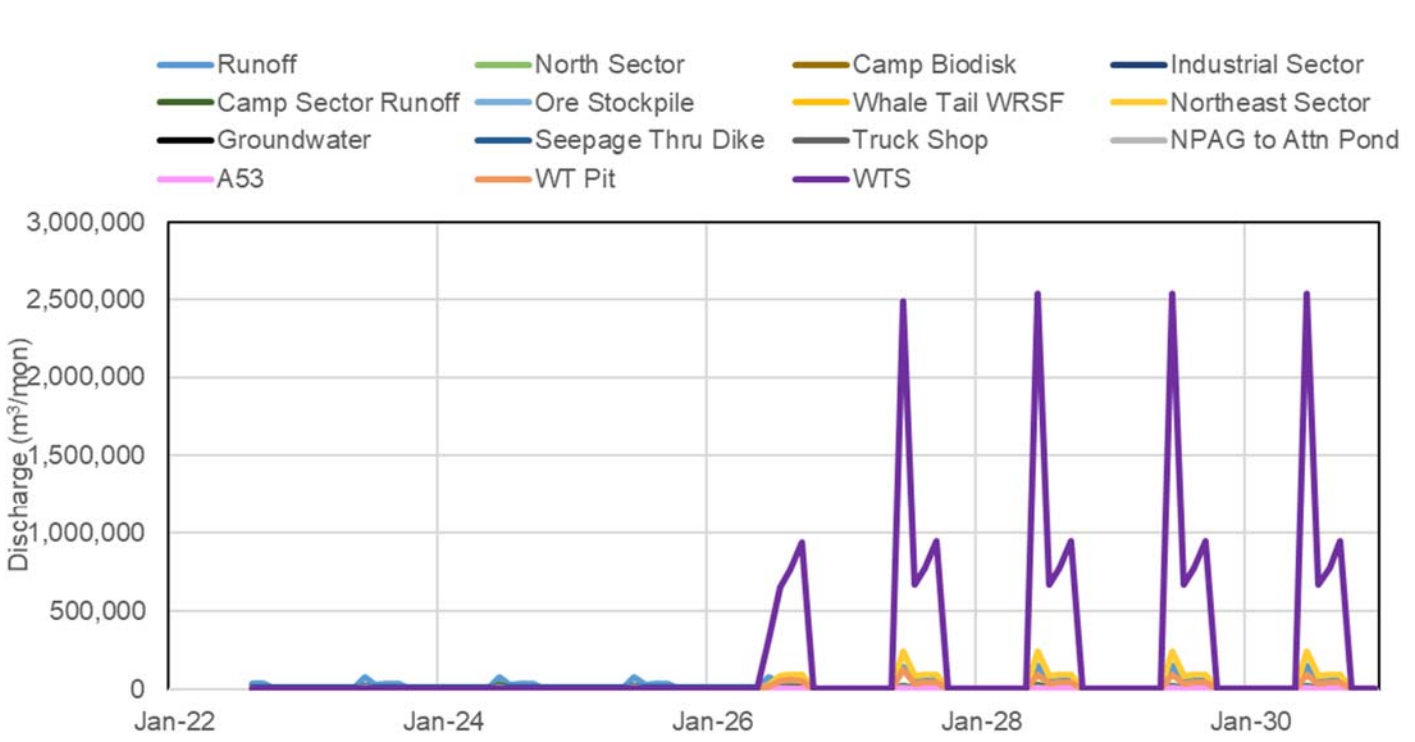


Figure 27: Inflows to the Whale Tail Lake [North Basin] / Whale Tail Attenuation Pond (Closure)

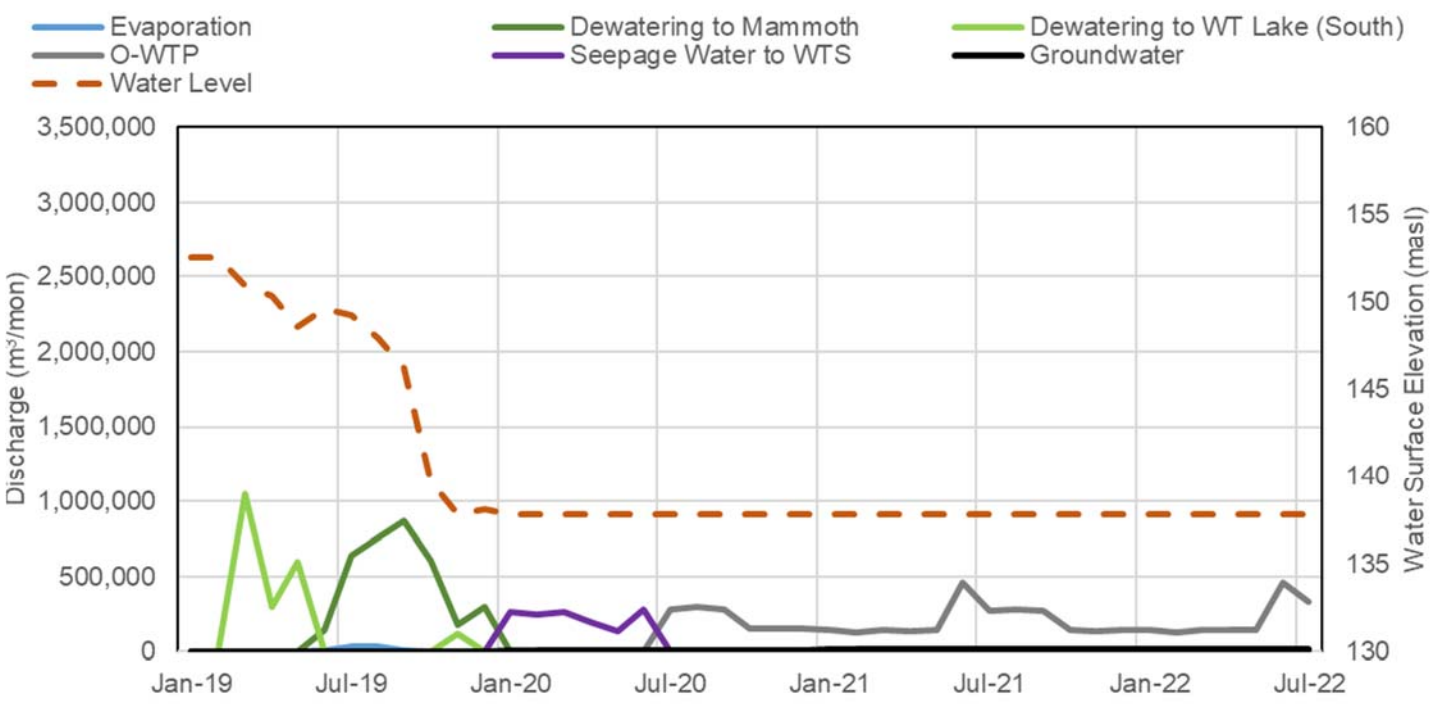


Figure 28: Outflows from the Whale Tail Lake [North Basin] / Whale Tail Attenuation Pond (Operations)

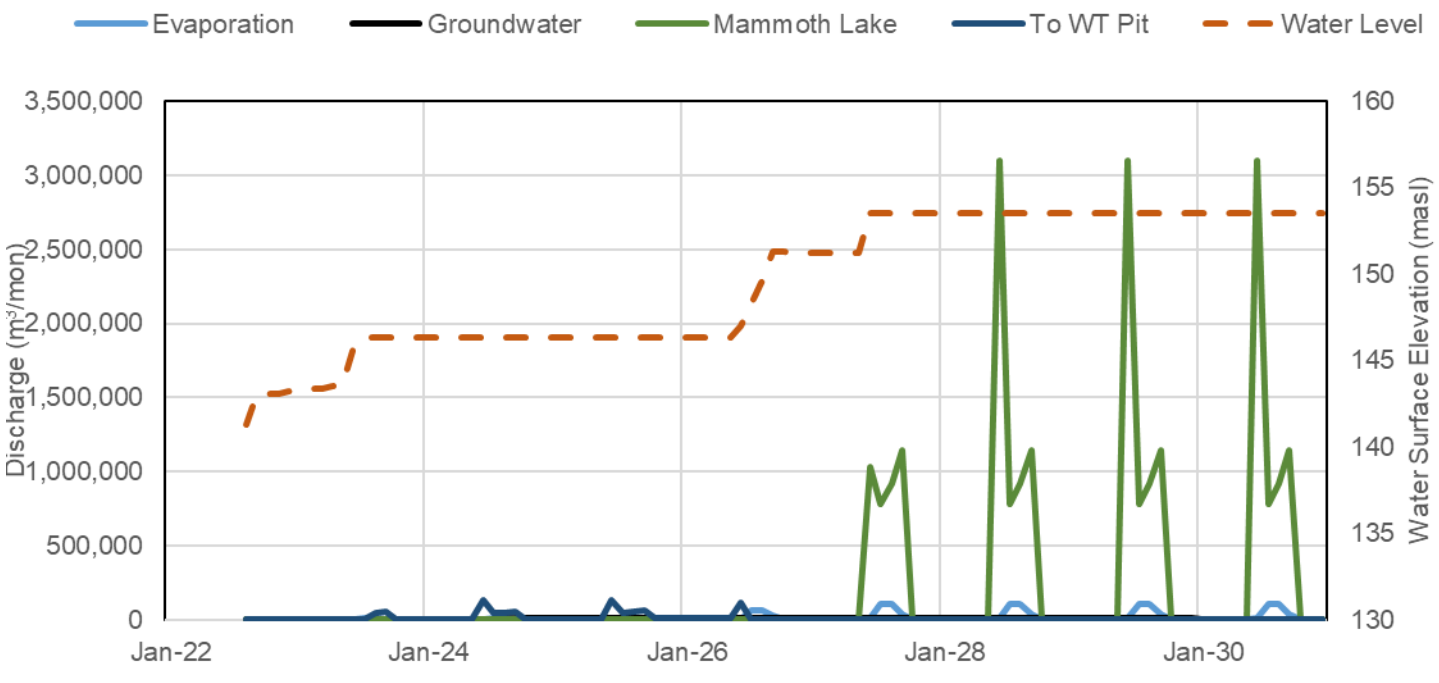


Figure 29: Outflows from the Whale Tail Lake [North Basin] / Whale Tail Attenuation Pond (Closure)

4.8 Whale Tail Lake (South Basin)

Whale Tail Lake (South Basin) is located south of and adjacent to the proposed Whale Tail Dike. Whale Tail Lake (South Basin) was connected to Whale Tail Lake (North Basin) until the construction of the Whale Tail Dike in June 2018. Dewatering of Whale Tail Lake (North Basin) results in the flooding of Whale Tail Lake (South Basin) (to an elevation of 156 masl) and overflow into the Mammoth Lake watershed via an engineered channel during operations.

In 2019 (October to December), approximately 1.7 Mm^3 was pumped from Whale Tale Lake (South Basin) to Mammoth Lake. This pumping activity was to lower and then maintain water levels in Whale Tail Lake (South Basin) to allow for the construction of the Whale Tail South Channel (SWTC) and preserve the Whale Tail Dike integrity, while meeting the original intent of the Project water balance and Water License 2AM-WTP1826.

At the end of operations and into closure, the water level in the South Basin will be lowered permanently to 153.5 masl (i.e., one metre above baseline level) by pumping the flooded volume into the Whale Tail Pit. This water level will be maintained by pumping from Whale Tail Lake (South Basin) into Whale Tail Lake (North Basin) during closure. Post-closure, the Whale Tail Dike will be decommissioned to re-establish natural drainage patterns in Whale Tail Lake. Whale Tail Lake then flows to Mammoth Lake via the Mammoth sill.

The baseline drainage area of Whale Tail Lake (South Basin), 22.3 km^2 is augmented during the dewatering of Whale Tail Lake (North Basin) in 2019 and by the routing of the Lake A53 Sector runoff to Whale Tail Lake (South Basin) (by pumping) from 2019 to closure.

Inflows and outflows are summarized in Table 8, and presented in tabular form in Appendix B.

Table 8: Water Balance Flow Components (Whale Tail Lake [South Basin])

Figure	Flow Component	Flow Type	Start	End	Note / Comment
INFLOWS					
■ Figure 30 (Operations) ■ Figure 31 (Closure)	■ Runoff from natural areas	■ Natural drainage	■ 2018	■ Post-Closure	■ Runoff volumes are proportional to the area of Whale Tail Lake (South Basin).
	■ Runoff diversion from the Lake A53 Sector	■ Channel	■ 2019	■ 2022	■ Runoff diversion from the Lake A53 watershed until closure. ■ Runoff volumes are expected to be constant on an annual basis.
	■ Drawdown of Whale Tail Lake (North Basin)	■ Pump / Pipeline	■ 2019	■ 2019	■ Drawdown of Whale Tail Lake (North Basin) to Whale Tail Lake (South Basin) from March to December 2019.
	■ Discharge from Whale Tail Attenuation Seepage Well	■ Pump / Pipeline	■ 2019	■ Closure	■ Discharge from the Whale Tail Attenuation Pond Seepage Pumping Station operational by October 2019 and decommissioned by closure.
OUTFLOWS					
■ Figure 32 (Operations) ■ Figure 33 (Closure)	■ Evaporation	■ n/a	■ 2018	■ Post-Closure	■ Evaporative losses proportional to the lake surface area of Whale Tail Lake (South Basin).
	■ Camp Use	■ Pump / Pipeline	■ Closure	■ Closure	■ Camp use during closure.
	■ Truck Use	■ Pump / Pipeline	■ 2018	■ Sep 2018	■ Truck use until the water intake at Nemo Lake becomes operational.
	■ Groundwater	■ Natural drainage	■ 2019	■ Post-Closure	■ Groundwater infiltration through Whale Tail Dike is expected from the dewatering of Whale Tail Lake (North Basin) until it is refilled.
	■ Runoff diversion to Mammoth Lake	■ Channel	■ 2020	■ Closure	■ Whale Tail Lake (South Basin) is expected to reach an elevation of 156.0 masl and overflow during open water conditions to Mammoth Lake by June 2020 until closure.
	■ Pumped flows to Mammoth Lake	■ Pump / Pipeline	■ 2019	■ 2019	■ Pumping is performed to maintain the integrity of the Whale Tail Dike.
	■ Drawdown and runoff diversion to the Whale Tail Pit	■ Pump / Pipeline	■ 2022	■ 2026	■ Drawdown of Whale Tail Lake (South Basin) from 156.0 masl at the start of closure to 153.5 masl by October 2022 until water levels in the Whale Tail Pit reach 146.3 m. ■ Runoff diversion from Whale Tail Lake (South Basin) to maintain water surface elevations at 153.5 masl, to the Whale Tail Pit. ■ Annual runoff volumes after October 2022 are expected to be constant.
	■ Drawdown to the Whale Tail Lake (North Basin)	■ Pump / Pipeline	■ 2026	■ 2027	■ Runoff diversion from Whale Tail Lake (South Basin) to maintain water surface elevations at 153.5 masl, to the Whale Tail Lake (North Basin).
	■ Overflow to Whale Tail Lake (North Basin)	■ Natural drainage	■ 2027	■ Post Closure	■ After 2027, the Whale Tail Dike will be breached and the basins will merge

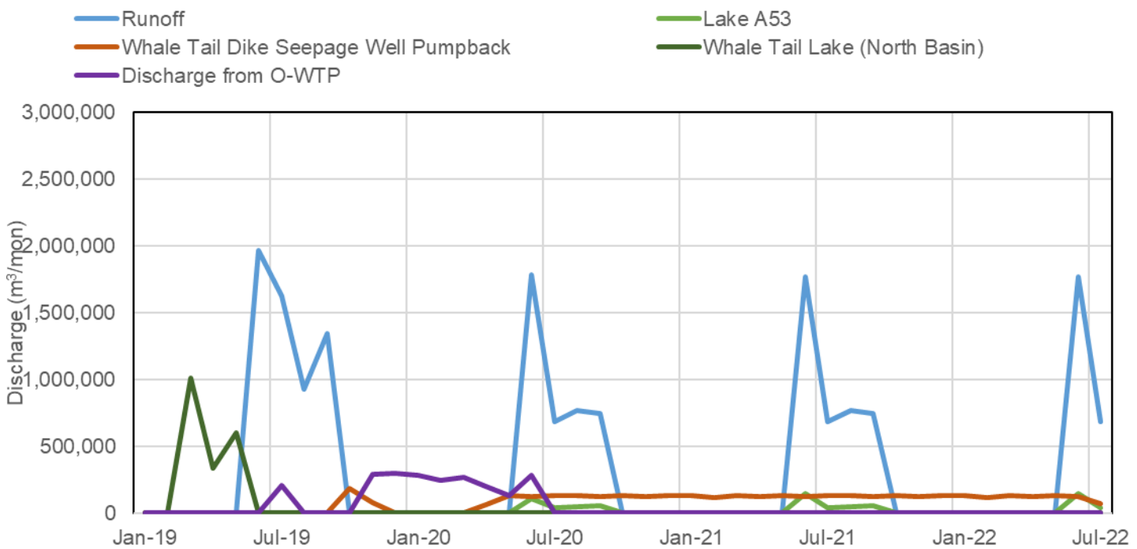


Figure 30: Inflows to Whale Tail Lake (South Basin) (Operations)

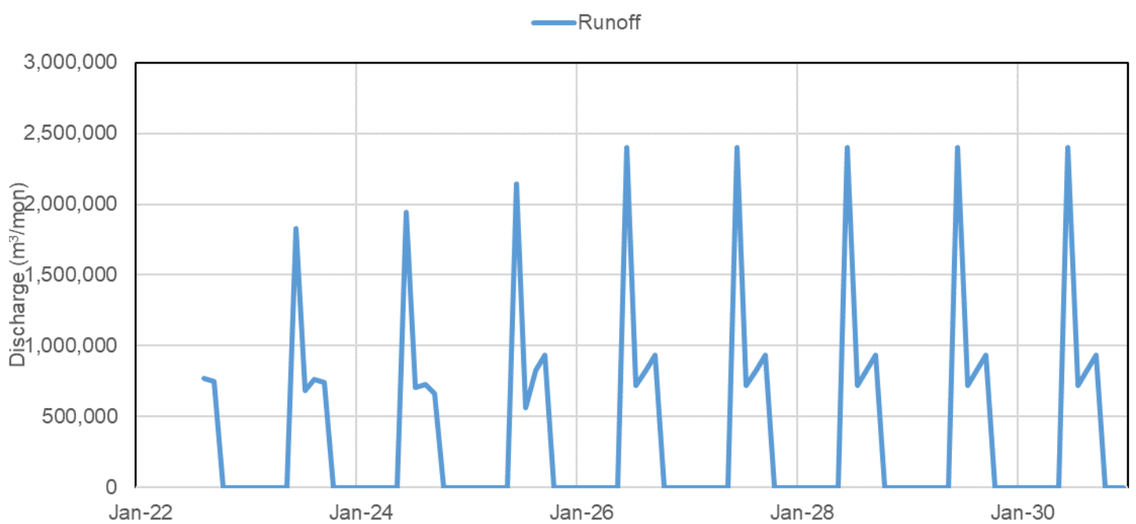


Figure 31: Inflows to Whale Tail Lake (South Basin) (Closure)

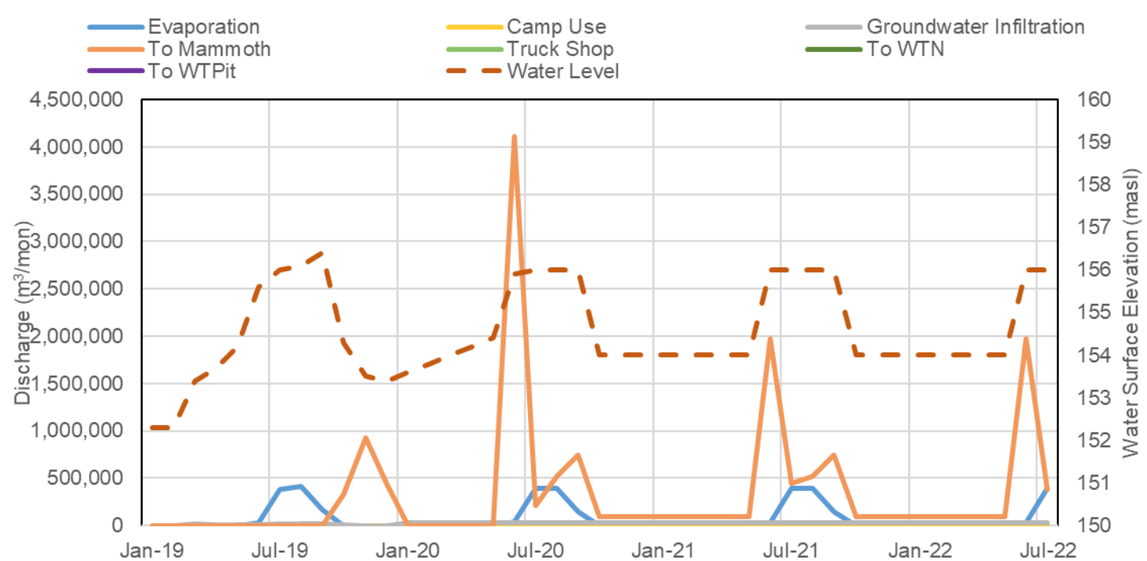


Figure 32: Outflows from Whale Tail Lake (South Basin) (Operations)

Note that water levels in Whale Tail Lake (South Basin) consider 2m ice accumulation every October which melts in May

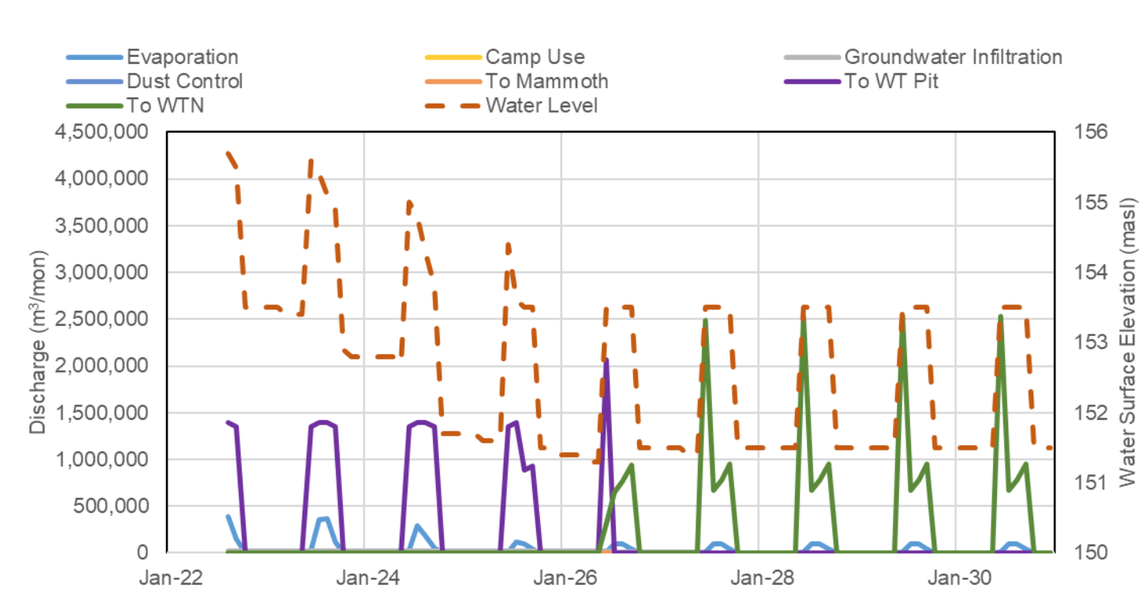


Figure 33: Outflows from Whale Tail Lake (South Basin) (Closure)

4.9 Water Treatment Plants: Treatment Requirement Summary

This section summarizes water treatment requirements identified in previous sections. Inflows and outflows are summarized in Table 9, and presented in tabular form in Appendix B.

Table 9: Water Balance Flow Components (Water Treatment Plants)

Figure	Flow Component	Flow Type	Start	End	Note / Comment
O-WTP for TSS and Seepage quality water (non-contact water)					
■ Figure 34 (Inflows) ■ Figure 36 (Outflows)	■ Runoff diversion from the Northeast Sector	■ Pump / pipeline	■ 2019	■ Closure	■ Runoff diversion to Mammoth Lake once the Whale Tail Dike is operational until Closure.
	■ Drawdown from Whale Tail Lake (North Basin)	■ Pump / pipeline	■ April 2019	■ Dec 2019	■ Drawdown of the volume of Whale Tail Lake (North Basin)
	■ Discharge from Whale Tail Attenuation Pond	■ Pump / pipeline	■ Jan 2020	■ June 2020	■ Seepage through the Whale Tail Dike
O-WTP for TSS and arsenic removal					
■ Figure 35 (Inflows) ■ Figure 36 (Outflows)	■ Discharge from Quarry 1	■ Pump / pipeline	■ June 2019	■ June 2020	■ Drawdown of Quarry 1 to Mammoth Lake via the O- WTP once available in March 2019. ■ Drawdown volume is expected to be approximately 210,000 m^3.
	■ Discharge from the Whale Tail Attenuation Pond	■ Pump / pipeline	■ 2020	■ Closure	■ Discharge of collected water to Mammoth Lake until closure. ■ Total treated volume is expected to be approximately 7,430,000 m^3.

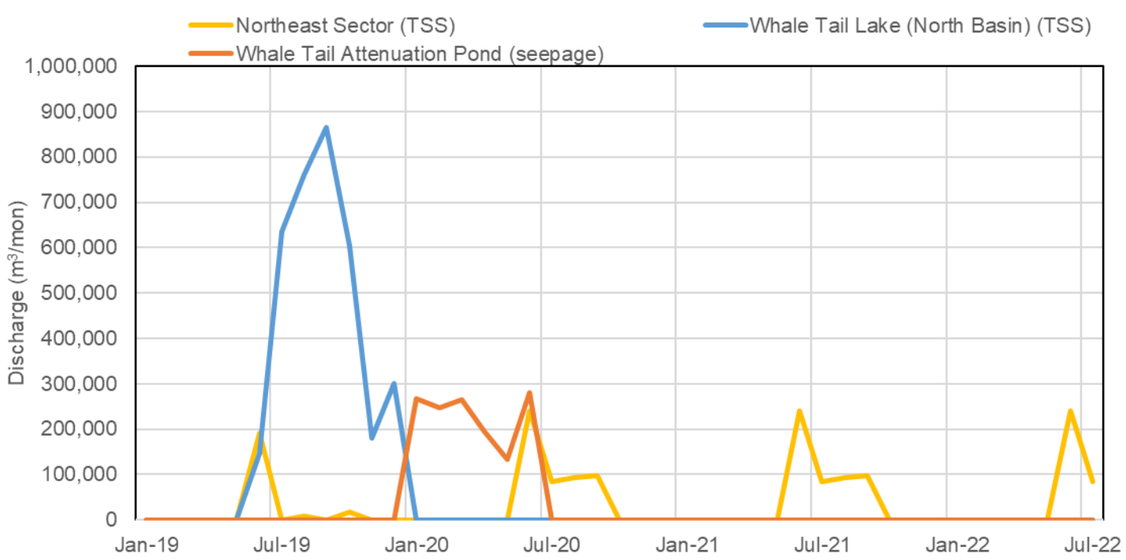


Figure 34: Non-Contact Water flows to the O-WTP (Operations)

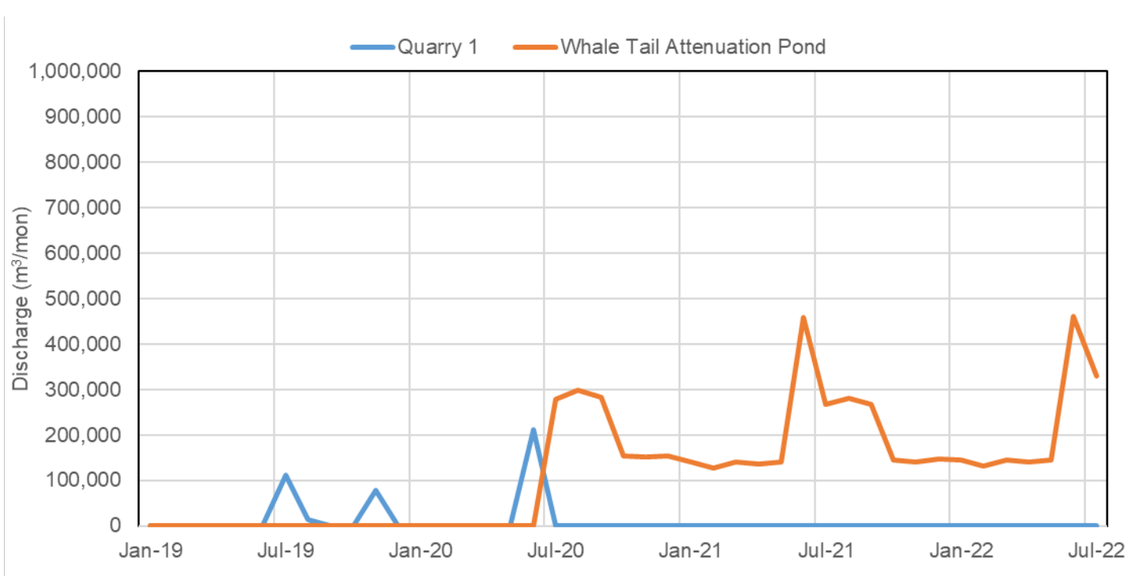


Figure 35: Contact Water Inflows to the O-WTP (Operations)

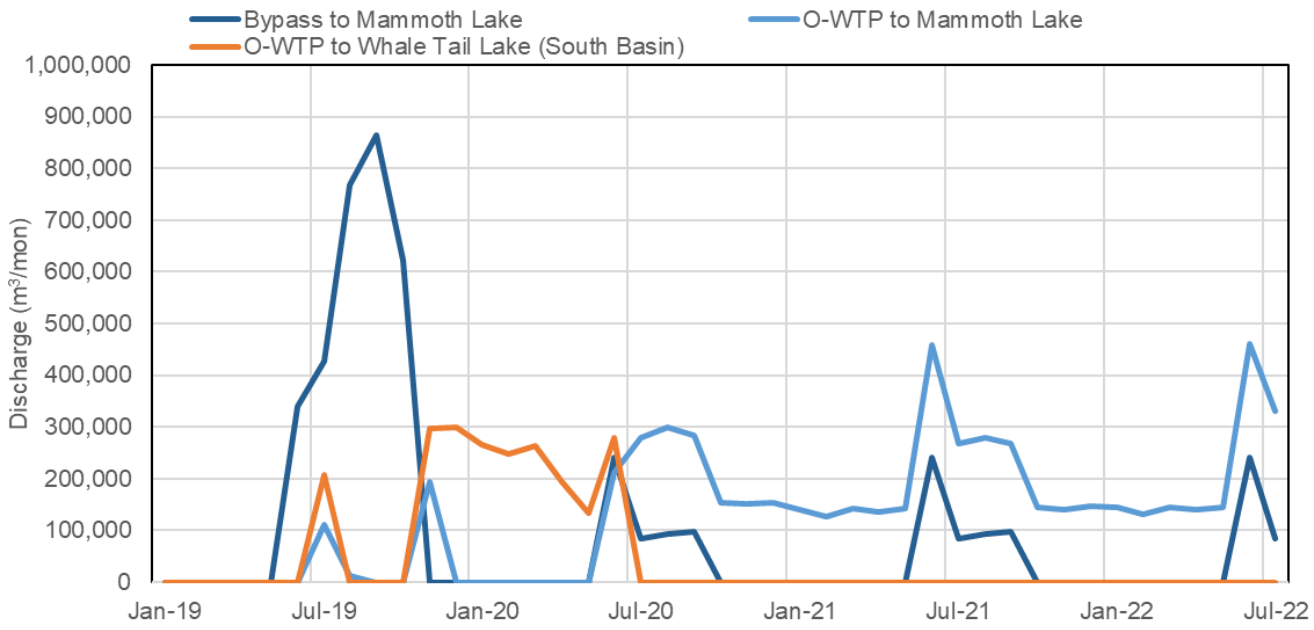


Figure 36: Outflows from the Water Treatment Plants

4.10 Closure: Flooding of Whale Tail Pit and Refilling of Whale Tail Lake (North Basin)

Mine closure will be initiated after cessation of mining activities, in August 2022 until water levels in Whale Tail Lake (North Basin) reach a water surface elevation of 153.5 masl (i.e., 1 metre over the baseline elevation). This water level will be maintained through the construction of a sill at the Mammoth Dike to promote aquatic habitat in the Project site post operations. The water management plan for the closure period is presented conceptually in Figure 5.

The refilling duration of Whale Tail Lake (North Basin) was estimated using the mean annual water balance and assumes that Whale Tail Pit is refilled by local catchment runoff, runoff from the Project's managed catchments which will be conveyed to the pit, pumped flows from Whale Tail Lake (South Basin) and overflow from the Whale Tail Lake (North Basin). Once Whale Tail Pit is refilled, the water surface elevation increases until Whale Tail Lake (North Basin) reaches the water surface elevation of 153.5 masl.

Using this approach, refilling of Whale Tail Lake (North Basin) to 153.5 masl was estimated to occur from 2022 to 2027.

Reconnection of the South Basin and North Basin and Mammoth Lake will occur once water quality objectives are met within Whale Tail Lake (North Basin), the predictions of which are presented in the corresponding water quality modelling report (Golder 2020). However, this timeline will be updated via water quality modelling and operations management with the aim of matching the timing of end of flooding with meeting of water quality objectives.

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

5.0 STUDY LIMITATIONS

Golder Associates Ltd. (Golder) has prepared this document in a manner consistent with that level of care and skill ordinarily exercised by members of the engineering and science professions currently practicing under similar conditions in the jurisdiction in which the services are provided, subject to the time limits and physical constraints applicable to this document. No warranty, express or implied, is made.

This document, including all text, data, tables, plans, figures, drawings and other documents contained herein, has been prepared by Golder for the sole benefit of Agnico Eagle Mines Limited. It represents Golder's professional judgement based on the knowledge and information available at the time of completion. Golder is not responsible for any unauthorized use or modification of this document. All third parties relying on this document do so at their own risk.

The factual data, interpretations, suggestions, recommendations and opinions expressed in this document pertain to the specific project, site conditions, design objective, development and purpose described to Golder by Agnico Eagle Mines Limited and are not applicable to any other project or site location. In order to properly understand the factual data, interpretations, suggestions, recommendations and opinions expressed in this document, reference must be made to the entire document.

This document, including all text, data, tables, plans, figures, drawings and other documents contained herein, as well as all electronic media prepared by Golder are considered its professional work product and shall remain the copyright property of Golder. Agnico Eagle Mines Limited may make copies of the document in such quantities as are reasonably necessary for those parties conducting business specifically related to the subject of this document or in support of or in response to regulatory inquiries and proceedings. Electronic media is susceptible to unauthorized modification, deterioration and incompatibility and therefore no party can rely solely on the electronic media versions of this document.

6.0 CLOSURE

This report presents methods and results of the Project's updated mean annual water balance with a focus on the operation and closure phases of the Project for annual reporting purposes. It is limited to the catchments of the Project footprint and does not address the receiving environment within and downstream of the effluent discharge point.

Please do not hesitate to contact the undersigned should you have any questions or comments.

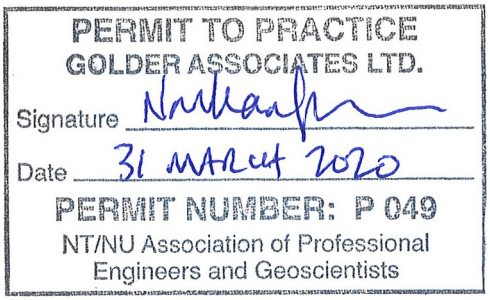
Golder Associates Ltd.

Adwoa Cobbina, MA.Sc.
Water Resources Specialist

Julien Lacrampe, B.Sc. Civil Engineering, P.Eng. (NWT/NU)
Senior Water Resources Engineer

AC/LM/JL/jr
https://golderassociates.sharepoint.com/sites/121081/project files/5 technical work/02_wb_wq/wb_report/rev0/20136950-479-rpt-whaletail-2019annualrpt-waterbalance-rev0.docx

Golder and the G logo are trademarks of Golder Associates Corporation



7.0 REFERENCES

Agnico Eagle (Agnico Eagle Mines Limited). 2016. Whale Tail Pit Project - Meadowbank Mine Final Environmental Impact Statement and Type A Water Licence Amendments. Amendment/Reconsideration of the Project Certificate (No. 004/ File No. 03MN107) and Amendment to the Type A Water Licence (No. 2AM-MEA1525). Submitted to the Nunavut Impact Review Board. June 2016.

Golder (Golder Associates Ltd.). 2020. Mine Site and Downstream Receiving Water Quality Predictions Whale Tail Pit – 2019 Annual Report. Whale Tail Pit – Phase 1 Permit, Approved Project. Ref No. 20136950-480-RPT-Rev0. March 2020.

APPENDIX A

Project Design Document

MEMORANDUM

DATE March 2020 **Reference No.** 20136950

TO Agnico Eagle Mines Limited

CC Jen Range

FROM Adwoa Cobbina, Kristina Skeries, and Jennifer Levenick **EMAIL**

WORKING DOCUMENT

WHALE TAIL PHASE 1 PROJECT DESIGN DOCUMENT – WATER BALANCE AND WATER QUALITY MODEL INPUT PARAMETERS AND ASSUMPTIONS

This document provides the design basis assumptions used by Golder Associates Ltd. (Golder) for the Whale Tail Pit Project (Approved Project) water balance and water quality modelling in support of the 2019 Annual Reporting. These data have largely been provided by Agnico Eagle Mines Limited (Agnico Eagle). This is meant to be a working document for both Agnico Eagle and Golder to record changes in design or management plans occurring during the period of study. This document is organized into the following sections:

1) Mine Design Parameters
2) Water Balance Criteria and Assumptions
3) Water Quality Model Criteria and Assumptions
4) Hydrogeology Model Criteria and Assumptions

Annexes provide additional information and calculations made by Golder based on information received.

Golder
16820 107 Avenue Edmonton, Alberta, T5P 4C3 Canada T: +1 780 483 3499 | F: +1 780 483 1574

Golder and the G logo are trademarks of Golder Associates Corporation

1.0 DESIGN PARAMETERS

Table 1: Design Version Identification

Document Revision No.	Date	Design Features	Agnico Eagle Version No.	Reference
01	March 2020	Whale Tail Pit		

Table 2: Mine Design Criteria

Infrastructure	Whale Tail
Life of Mine	Construction: Q4 2017 to Q3 2019 Operation: Q3 2019 to July 2022 Closure: August 2022 to 2027
Open Pit Depth	161 m depth, from 4 to 165 masl.
Open Pit - Ore, total mined	8,973,533 (t) (Q1 2020 to July 2022
Open Pit - Waste rock total mined	50,596,095 (t) (Q1 2020 to July 2022)
Open Pit - Overburden total mined	1,546,635 (t) (Q1 2020 to July 2022)
Whale Tail Ore stockpile surface area (Ore Stockpile 1)	6.4 ha
Underground Ore Stockpile surface area	0.69 ha (underground facilities only considered until the end of 2019)
Overburden Area	1.8 ha
NPAG WRSF Storage Area	16 ha

Table 3: Construction and Operation Schedule

Dewatering/Construction/Operation Activities	Starts at Beginning of	Ends at the End of
AP5 Pond Construction-Operation	Q4 2017	Q4 2019
Whale Tail Pit Quarry 1 Operation	Oct 17	June 2020
Whale Tail Pit Starter Pit Operation	Jul-18	June 2020
Whale Tail Pit Operation (Quarry 1 and Starter Pit merge into one open pit and to end of Life-Of-Mine)	July 2020	July 2022
Whale Tail Dike Construction and Operation	Jun-18	Post-Closure
Mammoth Dike Construction and Operation	Nov-18	Post-Closure
Whale Tail Waste Rock Storage Facility Dike Construction and Operation	Oct-18	Post-Closure
Northeast Dike Construction	Jan-19	Mar-19
Whale Tail Lake (South Basin) Diversion Channel Construction	Apr-20	Apr-20
East Channel (Lake A53 Diversion Channel) Construction	Sep-19	Nov-19
Dewatering of Whale Tail Lake (North Basin)	Q2 2019	Q4 2019
Whale Tail Dike Seepage Collection System Construction	Jun-19	Jun-19

Dewatering/Construction/Operation Activities	Starts at Beginning of	Ends at the End of
Northeast Dike Operations	Jan-2019	Closure
North Sump Construction/Operation	Jun-19	July 2022
Pipeline and Effluent Discharge Diffuser in Mammoth Lake	Q4 2018	July 2022
Pipeline and Effluent Discharge Diffuser in Whale Tail (South Basin)	Q3 2019	July 2022
Operational Water Treatment Plant (O-WTP)	Mar-19	July 2022
Sewage Treatment Plant	2017	Until end of closure
Mammoth Sill and Spillway	Q3 2022	In perpetuity
Decommissioning of Ore Stockpiles	Q3 2022	Q3 2022
Decommissioning of Landfarm	Closure	Closure

2.0 WATER BALANCE CRITERIA AND ASSUMPTIONS

Table 4: Climate Assumptions

Item	Assumption	Reference
Climate Data	■ Average year	Agnico Eagle, 2016b
Undercatch	■ Rain undercatch = 1.15 ■ Snow undercatch = 1.55	Agnico Eagle, 2016a (Amendment/Reconsideration of the Project Certificate and Amendment to the Type A Water Licence. Volume 6, Appendix 6-C. Submitted to the Nunavut Impact Review Board, June 30, 2016.)
Frozen Conditions	■ October to May. Rainfall during frozen conditions, is applied as rainfall in June of the same year if fallen between January and May inclusively, or during June of the following year if fallen between October and December inclusively. ■ Snowfall outside of frozen conditions, is applied as rainfall during the same month.	assumed
Ice formation	■ Formation of a maximum of 2 m of ice thickness over waterbodies every winter. All ice volume is removed from the water volume on Oct 1 and added gradually over 30 days starting May 1. ■ Note: ice is assumed to form instantly providing conservative results.	Based on Golder Hydrology baseline as well as professional experience in northern climates.
Infiltration Losses	■ Infiltration losses are assumed to be negligible in natural areas based on permafrost conditions.	assumed
Runoff from: ■ Whale Tail WRSF ■ NPAG stockpile	■ Percentage of total annual precipitation over the footprint, by month: ■ October through May: 0% ■ June: 4.3% ■ July: 0.3% ■ August: 0.3% ■ September: 0.1%	O'Kane Consultants, 2019

Item	Assumption	Reference
	■ Total annual precipitation was calculated as 323 mm/yr. This is not accounting for evaporative losses; it is assumed that evaporative losses were taken into account in O'Kane results. ■ Basal seepage assumed to be negligible. ■ Interflow is small and occurs past the modeling time period.	

Table 5: Historical Precipitation Data Used in the Site Water Balance

Month	Rainfall (mm/mon)	Snowfall (mm/mon)
October 2018	0	12.2*
November 2018	0	11.2*
December 2018	0	6.2*
January 2019	0	8.3**
February 2019	0	3.5**
March 2019	0	28**
April 2019	0	1.1**
May 2019	0	16.1***
June 2019	50.7***	0
July 2019	87.9***	0
August 2019	51.3***	0
September 2019	75.2***	0
October 2019	0	35.3***

* Baker Lake (2018)
** Meadowbank Site Station (2019)
*** Amaruq Site Station (2019)

Table 6: Average Year Climate Data Used in the Site Water Balance

Month	Rainfall (mm/mon)	Lake Evaporation (mm/mon)	Evapotranspiration (mm/mon)	Snowfall (mm/mon)	Sublimation (mm/mon)
January	0	0	0	6.88	9
February	0	0	0	6.24	9
March	0	0	0	9.11	9
April	0	0	0	13.29	9
May	0	0	0	8.09	9
June	33.36	9	3	0	0
July	38.51	99	32	0	0
August	42.74	100	32	0	0
September	41.47	40	13	0	0
October	0	0	0	22.45	9
November	0	0	0	16.59	9
December	0	0	0	9.95	9

Note: precipitation data (rainfall and snowfall) are used after October 2019. The remaining data is used over the entire simulation period.

Table 7: Site Water Balance: Modelled Flows

Location	Description of Inflows
Quarry 1	■ Natural runoff and direct precipitation (Q4 2017 – June 2020) ■ Runoff from Starter Pit (July 2018 – June 2020) ■ Pumped water from WT WRSF System (Q2 2018 – June 2020) ■ Pumped water from Industrial Sector, Overburden Sector and Camp Sector (Q2 2018 – June 2020 ■ Drilling water from Nemo Lake (Q4 2017 to August 2018)
AP5 (not included in the model after December 2019)	■ Natural runoff and direct precipitation (2018 – 2019) ■ Runoff from the waste rock pad (2018 – 2019) ■ Runoff from the underground portal (2018 – 2019)
Northeast Sector	■ Natural runoff from catchment area (2018 – Post Closure) ■ Runoff from Lake A49 (2018 – July 2020)
Whale Tail Waste Rock Storage Facility Contact Water Collection System	■ Natural runoff reports to Mammoth Lake prior to construction of the collection system ■ Natural runoff and direct precipitation (Q3 2018 – WTN Flooded) ■ Runoff from the Whale Tail WRSF (including marginal ore) (Q3 2018 – End of Closure)
North Sump	■ Natural runoff (2018 – Post Closure)
Whale Tail Pit	■ Catchment runoff (natural and pit wall) (2019 – Post Closure) ■ Groundwater inflow to pit (2019 – Post Closure). Pit mining in unfrozen rock assumed to occur in Q4 2019. ■ Drilling water from Whale Tail South (Q3 2017 – August 2018) ■ Drilling water from Nemo Lake (September 2018 - July 2022) ■ Runoff from overburden/esker material stockpile (2019 – Post Closure) ■ Runoff from AP5, North Sump catchments (Closure - Post Closure) ■ Overflow from the Whale Tail Lake (North Basin)Closure – Post Closure)
Whale Tail Lake (North Basin) / Whale Tail Attenuation Pond	■ Natural runoff and direct precipitation (2018 – Post Closure) ■ Runoff from the Whale Tail Pit catchment, Northeast Sector, and Lake A53 (2018) ■ Whale Tail Lake (South Basin) (2018 – 2019 and Post Closure) ■ Runoff from the North Sector (2018 – 2021) ■ Flows from the Camp STP (2018 – Closure) ■ Intercepted runoff from the Industrial Sector, Camp Sector and Ore Stockpiles No. 1 and 2 (2019 – 2022) ■ Runoff collected in the Whale Tail WRSF Contact Water Collection System (2019 – 2022) ■ Groundwater discharge to Whale Attenuation Pond (2019 – Post Closure). ■ Groundwater discharge to dewatered Whale Tail Lake (North Basin) (2019 – Post Closure) ■ Minus the flow captured in the Whale Tail Attenuation Seepage Well (starting January 2020). ■ Flows from the Truck Shop (2019 – 2022) ■ Discharge from the Whale Tail Pit (2019 – 2022)

Location	Description of Inflows
	■ Runoff from NPAG stockpile (2020 – Post Closure)
Whale Tail South Basin	■ Catchment runoff (natural runoff and direct precipitation) (2018 – Post Closure) ■ Runoff from tributary Lakes A18, A55, A60, A62, and A65 (2018 – Post Closure) ■ Runoff pumped flow from Lake A53 (2019 – 2022) ■ Dewatering of Whale Tail Lake (North Basin) (March – May 2019) ■ Discharge from Whale Tail Attenuation Seepage Well (2020 – Closure)
Mammoth Lake	■ Overflow from Whale Tail Lake (South Basin) via the Whale Tail Diversion Channel (April 2020 to End of Operations) ■ Effluent discharge from the O-WTP (June – August 2022) ■ Runoff from Whale Tail WRSF catchment area (Post-closure)
O-WTP for TSS Removal (non-contact water)	■ Drawdown from Whale Tail Lake (North Basin) – non-contact water (April – June 2020) ■ Seepage from WT Dike?
O-WTP for TSS and Arsenic Removal	■ Discharge from Quarry 1 (July 2019 – June 2020) ■ Discharge from the Whale Tail Attenuation Pond (July 2020 to July 2022) ■ Runoff diversion from the Northeast Sector (2019 – July 2020)

Table 8: Water Storage Assumptions

Pond	Feature	Value	Reference
Quarry 1	Capacity	203,450 m^3	Golder Water Balance, 2019a
GSP-1 (formerly AP5)	Capacity	148,601 m^3	
	Spill Elevation	160.9 masl	
Whale Tail Attenuation Pond	Capacity	Dewatered to closure: 133,232 m^3	
	Spill Elevation	143.5 masl	
Northeast Sector Pond (Managed at baseline levels)	Capacity	33,785 m^3	
	Spill Elevation	Baseline: 154.40 m	
Whale Tail Waste Rock Storage Facility Pond	Capacity	Operations: 195,500 m^3 (1) Closure: 1 m^3 (intended to act as a flow-through system)	
	Spill Elevation	158.4 masl	
Whale Tail Lake (South Basin	Capacity	Baseline: 4,597,768 m^3 Flooded: 11,832,960 m^3 Post Closure: 5,547,803m^3	
	Spill Elevation	Baseline: 152.5 masl Flooded: 156.0 masl (2) Post Closure: 153.5 masl	
Whale Tail Lake (North Basin)	Capacity	Baseline: 10,516,453 m^3 Post Closure: 12,719,584m^3	
	Spill Elevation	Baseline: 152.5 masl Post Closure: 153.5 masl	
Mammoth Lake	Capacity	5,717,693 m^3	
	Spill Elevation	152.5 masl	

Note:
(1) Although this capacity exists during operations, after September 2019, the pond acts as a flow through system (i.e. no storage)
(2) In 2019, elevations up to 156.7 masl were observed.

Table 9: Consumptive Flows and Seepage Rates

Item	Flow Rate	Source
Camp Use (STP)	■ Consumption rate = 0.24 m^3/d/person Operations: ■ 2019 – recorded values from main camp and exploration camp. ■ 77.8 m^3/day (January 2020 – end of operations) – assumed 324 people Closure: ■ 12 m^3/day – assumed 50 people	■ Whale Tail Lake (South Basin) (January – August 2018 and closure) ■ Nemo Lake (Lake C38) (September 2018 - end of operations)
Truck Shop	■ 103.1 m^3/day (January 2018 - end of operations)	■ Whale Tail Lake (Q1 – Q2 2018 (until Quarry 1 is mined out) ■ Whale Tail Lake (South Basin) (July, August 2018) ■ Nemo Lake (September 2018 – end of operations)
Drilling Water	■ 12.0 m^3/day (Q4 2017) ■ 24.0 m^3/day (Q1 – Q2 2018) ■ 48.0 m^3/day (Q3 – Q4 2018) ■ 140 m^3/day (Q1 – Q4 2019) ■ 100 m^3/day (Q1 2020 - end of operations).	■ Whale Tail Lake (2017 - Q1 – Q2 2018 (until Quarry 1 is mined out) ■ Whale Tail Lake (South Basin) (July, August 2018) ■ Nemo Lake (September 2018 – end of operations)
Ore moisture content from pits Provided as monthly volume time series by Agnico (12 Dec 2017)	■ 3% of ore weight	■ Loss from system
Waste Rock moisture content from open pits	■ 3% of rock weight	■ Loss from system
Dust Control, Emulsion Plant	■ 72,240 m^3/yr (dust control) ■ 2.9 m^3/day (emulsion plant)	■ Loss from system (from Nemo Lake)
Seepage Through WT Dike	■ 2019: 280 m^3/hr – 400 m^3/hr ■ 2020 – closure: 350 m^3/hr Note: ■ Oct – Nov 2019: 168 m^3/hr – 387 m^3/hr captured in seepage collection well and pumped back to WTS. Remainder reports to WT Attenuation Pond ■ Dec 2019 – May 2020: 0 m^3/hr captured in seepage collection well and pumped back to WTS (assumed due to grouting work) ■ June 2020 – closure: 50% captured in seepage collection well and pumped back to WTS. Remainder reports to WT Attenuation Pond	■ 2019 seepage and capture values based on 2019 monitoring reports ■ 2020 – closure seepage values based on Jan 2020 reported values. ■ 2020 – closure capture values assumed values based on Jan 2020 reported values.

Table 10: Water Treatment Rates

Treatment Type	Dates	Water Flow
Sewage Treatment Plant (STP)	Model start to end of closure	See Table 9

O-WTP (TSS and As)	June 2019 (TSS + As) to end of operations
	■ Summer only for contact water (June – Sept)
	■ Contact water inflow from:
	  ■ Quarry 1: June 2019
	  ■ Whale Tail Attenuation Pond: June 2020 to 2021
	■ Dewatering flows:
	  ■ Whale Tail Lake (North Basin): March – Oct 2019 (only June to the O-WTP)
	  ■ Northeast Sector: June 2019 – closure
		■ Maximum rate of 1750 m^3/hr when dewatering (based on reported values)
		■ Maximum rate of 1350 m^3/hr (1600 m^3/hr at 85% efficiency) after dewatering (Jan 2020 to end of operations)
		■ Assumed 24hr/ day

3.0 WATER QUALITY MODEL CRITERIA AND ASSUMPTIONS

Table 11: Water Quality and Chemical Loading Input Parameters

Modelled Flow	Type	Source	Reference	Operations	Closure	Post-Closure
Natural Runoff to Site	Concentration	Average water quality of Watershed A tributaries upstream of Mammoth Lake. n=3; data only available in 2015. • A16-A14 • A34-A16	Azimuth Consulting, 2014-2016 Annex A	X	X	X
Initial lake concentrations and natural runoff downstream of Mammoth Lake	Concentration	Average water quality of Watershed A tributaries downstream of Mammoth Lake. n=7; data available from 2015. • A81-A80 • A14-A13 • A15-A14 • A69-DS1 • A76-A75 • A5-A4	Azimuth Consulting, 2014-2016 Annex A	X	X	X
Initial Mammoth Lake concentrations and natural runoff	Concentration	Average water quality of Mammoth Lake. n=14; data from 2015 and 2016. • MAM-1-S through MAM-14-S	Azimuth Consulting, 2014-2016 Annex A	X	X	X
Initial Whale Tail Lake (North and South Basins) concentrations and natural runoff to Whale Tail Lake (South Basin)	Concentration	Average water quality of Mammoth Lake. n=20; data from 2015 and 2016. • WTN-1-S through WTN-06-S • WTS-1-S through WTN-14-S	Azimuth Consulting, 2014-2016 Annex A	X	X	X
Nemo Lake concentrations	Concentration	Average water quality of Nemo Lake. n=14; data from 2015 and 2016. • NEM-1-S through NEM-06-S • NEM-7 through NEM-14	Azimuth Consulting, 2014-2016 Annex A	X	X	X
Direct Precipitation	Concentration	Assumed pristine water (0 mg/L for all constituents)	n.a.	X	X	X
Shallow Groundwater	Concentration	Based on 75th percentile of Meadowbank groundwater quality	Knight Piésold, 2015	X	X	

Modelled Flow	Type	Source	Reference	Operations	Closure	Post-Closure
Exploration Ramp Dewatering	Loading	Average of humidity cell test data for intermediate intrusive (8b) which is the predominant rock type in ramp	Annex A	X		
Lake Sediment Runoff	Loading	Average load from SFE results. 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).	Annex A	X	X	
Construction Material Stockpile Runoff (pile west of Whale Tail Attenuation Pond)	Loading	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.	Annex A	X		
Developed Areas Runoff	Loading	Weighted average load of waste rock lithologies used in construction south greywacke (S3S), and intermediate intrusive (8b) mixed based on NPAG proportion). Switch to natural runoff concentration at start of post-closure period.	Annex A	X	X	
Waste Rock Storage Facility Runoff	Loading	Weighted average load from overburden and waste rock types extracted from the Whale Tail Pit based on the tonnage reporting to each WRSF (does not account for material used in construction), and cover material Proportions of cover vs non-cover for Whale Tail WRSF provided by O'Kane Consultants, 2019.	Annex A	X	X	X
Pit Wall Runoff	Loading	Weighted average load from exposed rock types on the final pit shell over entire surface area of the Whale Tail Pit in operations, and over high wall in post-closure (same proportion throughout mine life and closure/post-closure)	Annex A	X	X	X
Ore Stockpile Runoff	Loading	Average load from composite humidity cell test sample of ore.	Annex A	X		
Landfarm Runoff	Loading	Represented by developed areas loading rate	Annex A	X	X	

Modelled Flow	Type	Source	Reference	Operations	Closure	Post-Closure
Pit Wall Diffusion of arsenic only	Loading	Diffusion Model, with refined assumptions of mass depletion over time	FEIS Addendum Volume 5, Appendix 6-G	X	X	X
Residual explosives (nitrate and ammonia) in all WRSF ponds and open pit sumps	Concentration	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. WRSF Ponds: • Operations: o Nitrate as N: 12 mg/L o Ammonia as N: 0.3 mg/L • Closure: o Nitrate as N: 0.02 mg/L o Ammonia as N: 0.01 mg/L Pit Sumps: • Operations: o Nitrate as N: 12 mg/L o Ammonia as N: 0.3 mg/L • Closure: o No concentrations applied as pits will have concentrations reflective of filling sources	Meadowbank Mine 2016 water quality monitoring data (NWB)	X	X	X
Whale Tail Dike Well Sump	Concentration	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. 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). • Nitrate as N: 0.31 mg/L • Ammonia as N: 0.13 mg/L	Meadowbank Gold Project – 2016 Annual Report on NWB website	X		

Modelled Flow	Type	Source	Reference	Operations	Closure	Post-Closure
STP nitrate and phosphorous	Concentration	Replaces NO_3 and P values in STP Load. • Nitrate as N = 5 mg/L • Phosphorous = 0.5 mg/L.	Agnico Eagle (June 2018)	X	X	
Drilling Water	Concentration	Whale Tail South modelled water quality and Nemo baseline water quality	Nemo Lake: Azimuth Consulting Baseline, 2014-2016. Annex A	X		
Truck shop	Concentration	Whale Tail (South Basin) modelled water quality		X		
Solubility Limits	Concentration	Solubility limits for iron: • WRSF pond: 0.06 mg/L • Water management ponds: 0.3 mg/L • Open Pit: 0.7 mg/L Solubility limits for aluminum: • WRSF pond: 0.0003 mg/L • Water management ponds: 0.0001 mg/L • Open Pit: 0.0002 mg/L	Golder 2019 (NWB WQ model report)	X	X	X
Site Effluent	Particulate Concentration	TSS of site effluent discharge: 7.5 mg/L	Based on observed Meadowbank data and pilot tests of the water treatment plant	X		
Flooded Pit Lake Overflow in Post-closure	Particulate Concentration	TSS of flooded pit lake overflow to Mammoth Lake: 1 mg/L	Based on baseline TSS concentrations of lakes in regional study area			X
Whale Tail WRSF Runoff in Post-closure	Particulate Concentration	TSS of Whale Tail WRSF Runoff: 10 mg/L	Based on monitoring data in similar channels at Meadowbank and Meliadine			X

Table 12: Factors, Proportions, and Assumptions

Controlled Item	Value / Assumption	Comments	Operations	Closure	Post-Closure
Grain size/ channelization factor	Channelling factor of 0.3 applied to loading rate of construction material, ore, developed pads, the landfarm, and waste rock stockpiles, including the cover.	Represents the percentage of rock with grain size small enough that its surface contributes to the mass load and movement or flow of mass through the material.	X	X	X
Seasonal Load Multiplier	June through Sept. = 1 Oct. through May = 0	To prevent release of load during winter.	X	X	X
Site Temperature Loading Factor	Loading rates are multiplied by: 0.5 for July and August 0.25 for June and September 0 for October to May	Arrhenius Equation: Loading rates are halved for every 10˚C decrease in temperature from 25˚C[a], based on monthly average temperatures[b]. Factor is 0 in winter months as average monthly temperatures are below 0°C Davé and Clulow, 1996	X	X	X
Diffusion and Sub-flush Temperature Factor	0.25	Arrhenius Equation: Assumes temperature of water at depth in contact with pit walls is 5˚C all year (does not freeze but is not affected by warming surface temperatures).	X	X	X
Effective Interaction Depth of WRSFs and NPAG pile	0.3 m	O'Kane Consultants 2019	x	x	x
Developed Areas Interaction Depth	2 m, natural ground thaw depth and pad thickness	Measured; pad thickness provided by Agnico Eagle (SNC)	X	X	
Landfarm Interaction Depth	2 m, to remain consistent with developed areas	Measured; pad thickness provided by Agnico Eagle (SNC)	X	X	
Pit Wall Interaction Depth	1 m	Represents the depth of penetration of blasting-induced fractures. This was assumed to have the porosity of waste rock in consideration of the rubble that will remain on pit wall benches (blast damage zone depth from Siskind, and Fumanti. 1974). Only pit benches are accounted for in surface area. Mass loading from vertical faces is assumed to be negligible.	X	X	X

Controlled Item	Value / Assumption	Comments	Operations	Closure	Post-Closure
Lakebed Sediment Interaction Depth	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	X	
Lakebed Sediment Density	1.5 g/cm^3	Lakebed sediments consist primarily of silty clay. USDA estimate of moist bulk density by texture (USDA, 2019)	X	X	
Waste Rock Density	2 tonnes/m^3 applied to all stockpiled rock material and pit walls	"Loose Density" of Whale Tail WRSF, SNC Design Criteria for Geotechnical and Water Management Infrastructure, Table 3.2.42015)	X	X	X

Table 13: Water Treatment

Treatment Type	Dates	Water Flow	Water Quality	Discharge Location
Sewage Treatment Plant (STP)	Model start to end of closure	See Table 8	• Phosphorus: 0.5 mg/L • Nitrate as N: 5 mg/L	• Prior to WTN dewatered: Whale Tail Lake (North Basin) • June 2019 – July 2022: Whale Tail Attenuation Pond • Closure: Whale Tail Attenuation Pond/Whale Tail Lake (North Basin)
O-WTP (TSS and As)	June 2019 (TSS + As) to end of operations • Summer only for contact water (June – Sept) • Contact water inflow from: o Quarry 1: June 2019 o Whale Tail Attenuation Pond: June 2020 to 2021 • Dewatering flows: o Whale Tail Lake (North Basin): March – Oct 2019 (only June to the O-WTP) o Northeast Sector: June 2019 – closure	See table 10	• Phosphorus: 0.05 mg/L (dissolved) • Arsenic: 0.1 mg/L (dissolved) • TSS: 7.5 mg/L	• March – May 2019 (dewatering of Whale Tail Lake [North Basin]): Whale Tail Lake (South Basin) • June 2019 – July 2022: Mammoth Lake • June 2019 – July 2022: Whale Tail Lake (South Basin) for various seepage/non-contact flows.

Table 14: Proportions of Waste Rock in Whale Tail Pit by Lithology (%)

Date	Gabbro (I3)	Chert (S10)[2]	Greywacke North (S3N)	Central Greywacke (S3C)	Iron Formation (SE9)	Ultramafic (0b)	Ultramafic (0a)[3]	Basalt (1b)	Overburden
Jan 2020	0	12	13	6.6	16	20	11	8.6	13
Feb 2020	0	11	13	6.6	16	20	11	8.6	15
Mar 2020	0	13	15	7.6	18	23	12	9.9	0.65
Apr 2020	0	10	13	6.5	15	20	10	8.4	17
May 2020	0	12	13	6.8	16	21	11	8.8	12
Jun 2020	0	8.7	14	7.2	16	22	11	9.3	11
Jul 2020	0	11	15	7.8	18	24	12	10	1.8
Aug 2020	0	12	15	7.8	18	24	12	10	0.46
Sep 2020	0	10.0	16	8.0	18	25	13	10	0
Oct 2020	0	12	15	7.8	18	24	12	10	0
Nov 2020	0	6.6	16	8.4	19	26	13	11	0
Dec 2020	0	13	15	7.7	18	24	12	10	0
Jan 2021	0	7.1	16	8.4	19	26	13	11	0
Feb 2021	0	10	16	8.0	18	25	13	10	0
Mar 2021	0	7.0	16	8.4	19	26	13	11	0
Apr 2021	0	9.0	16	8.2	19	25	13	11	0
May 2021	0	7.7	16	8.3	19	25	13	11	0
Jun 2021	0	10.0	16	8.0	19	25	13	10	0
Jul 2021	0	9.8	16	8.1	19	25	13	10	0
Aug 2021	0	8.9	16	8.2	19	25	13	11	0
Sep 2021	0	7.2	16	8.4	19	26	13	11	0
Oct 2021	0	5.2	17	8.6	19	26	13	11	0
Nov 2021	0	2.0	17	8.9	19	27	13	12	0
Dec 2021	0	0	18	9.2	20	28	13	12	0
Jan 2022	0	5.4	17	8.6	19	26	13	11	0
Apr 2022	0	3.4	17	8.8	19	27	13	11	0
Jul 2022	0	2.1	17	8.9	19	27	13	12	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

Table 15: Proportional Area of PAG/ML Waste Rock in the Whale Tail WRSF that Interacts with Runoff (O'Kane Consultants, 2019). Covered areas are calculated as the inverse.

Time Period	Percent PAG/ML Exposed
2018 – 2019	1
2020 – 2021	0.82
January – July 2022	0.71
August 2022 – Post-closure	0

Table 16: Footprint Areas (m^2) for the Whale Tail WRSF, Marginal Ore Pile, and NPAG/NML Stockpile

Year	Whale Tail WRSF	Marginal Ore Pile	NPAG/NML Stockpile
2018	108,388	0	0
2019	478,000	23,580	0
2020	797,350	39,650	69,900
2021	807,500	56,500	69,900
2022	807,500	68,200	160,440

Table 17: 3D Surface Areas (m^2) for the Whale Tail WRSF, Marginal Ore Pile, NPAG/NML Stockpile

Year	Whale Tail WRSF	Marginal Ore Pile	NPAG/NML Stockpile
2018	112,637	0	0
2019	507,278	24,625	0
2020	784,849	99,480	76,830
2021	804,763	99,485	76,830
2022	821,767	101,977	175,041

Table 18: Exposed pit wall proportions (%) by lithology for Whale Tail and IVR Pits

Lithology / Material Type	Whale Tail Pit
Gabbro (I3)	0
Chert (S10)[1]	13
Greywacke North (S3N)	17
Central Greywacke (S3C)	5.9
Iron Formation (SE9)	14
Ultramafic (0b)	18
Ultramafic (0a)[2]	9.7
Basalt (1b)	7.7
Overburden[3]	0
Diorite (8b)	2.5
South Greywacke (S3S)	12

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.

4.0 HYDROEGOLOGY MODEL CRITERIA AND ASSUMPTIONS

Table 19: Permafrost Settings

Parameters	Value / Assumption	Comments	Reference
Lakes with Talik	Talik assumed below lakes greater than 2 m deep and with a radius of 300 m (circular lakes) or greater or a half width of 150 m (elongated lakes) or greater.	Based on 1-D analytical solution (Burn 2002) as estimated in the Phase 1 FEIS.	Burn (2002).
Active Layer	Active layer is excluded from numerical model.	The active layer is inferred to be between approximately 2.9 and 5.2 m deep, based on thermistor data recorded at MD-2015-02 and AMQ17-1159 in 2017 and 2018 (Agnico Eagle 2019). The depth estimates are based on recorded temperatures at the thermistor beads in 2017 and 2018, and the interpolation of the maximum depth each year at which temperatures are above zero degrees.	
Depth to Base of Permafrost – Regional and Below Whale Tail Lake	Open talik below southern basin of Whale Tail Lake. Closed talik below northern basin of Whale Tail Lake. Permafrost below northern basin between 113 m to 323 m below lake surface. Regional permafrost away from Whale Tail open pit assumed to be 495 m.	Hydrogeological model incorporates the 3D Thermal Model developed from thermal calibration scenario 1 in Golder (2019c). Regional permafrost depth between 452 m and 522 m below surface based on thermal gradients and ground temperatures at the lowest portions of the thermistor strings.	Thermal Modelling Study (Golder 2019c)
Permafrost degradation during closure/post closure – Whale Tail Pit	Full permafrost degradation below pit assumed to not occur during pit refilling (refilling time is less than degradation rate based on thermal modelling [Golder 2018]). Full degradation of permafrost below Whale Tail Pit assumed for post closure.		Thermal Modelling Study (Golder 2018)
Freeze Back	No freeze back assumed in modelling.	Conservative assumption for mining (i.e., may result in an overprediction of groundwater inflow). May overestimate rate of filling during closure.	
Total Dissolved Solids (TDS) Profile – Groundwater Modelling Studies to Date and flows reported in Annex B	TDS profile based on 2016 and 2019 TDS Westbay sample results considered to be reliable (i.e. Port 6 August 2016 data, Port 4 July 2016 day, Port 3 September 2016 and March 2019 data; Golder 2019d). Extrapolated to greater depths based on data from other sites in Canadian Shield. TDS Profile presented on Figure 1 below.		TDS data reported in Golder (2019d)

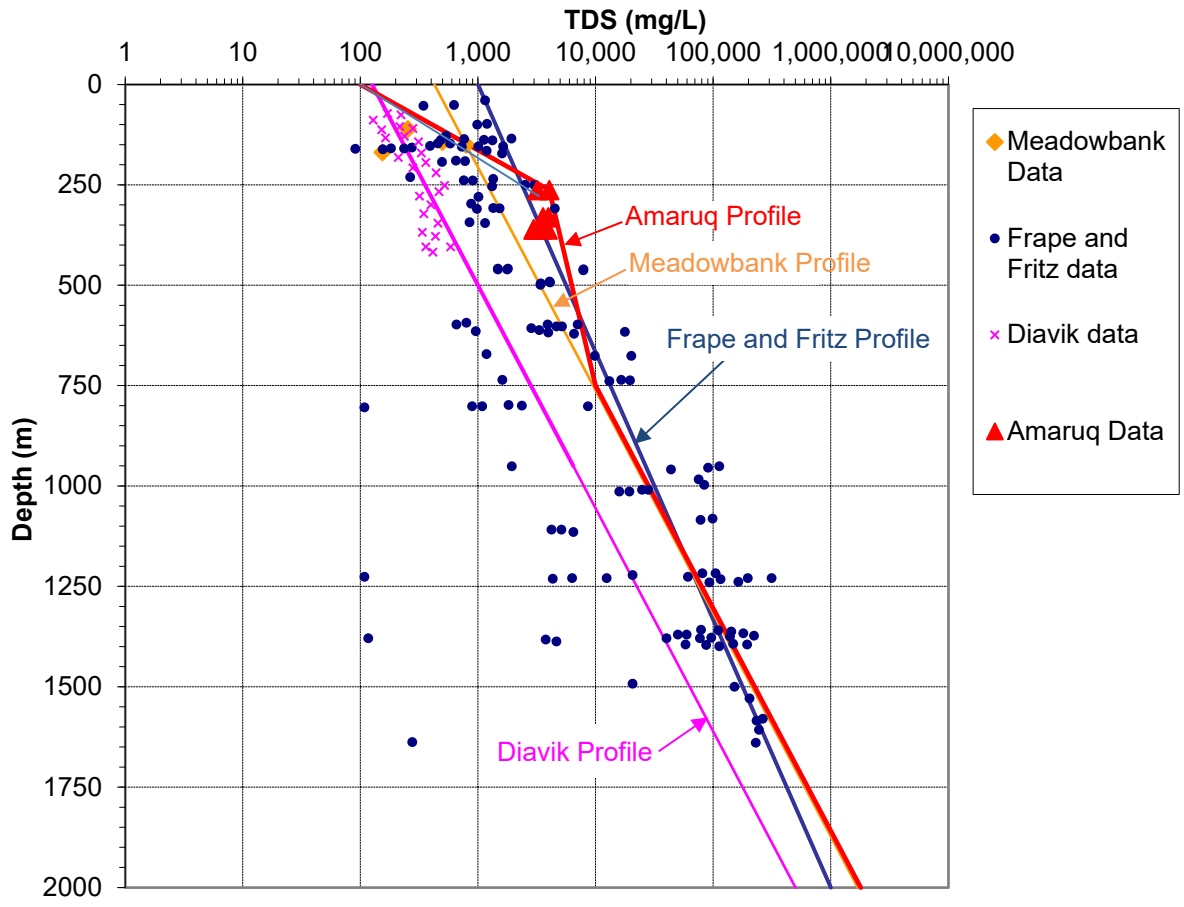


Figure 1. TDS Profile

Table 20: Hydrogeological Parameters used in the Hydrogeology Model

Hydrostratigraphic Unit	Depth Interval (m)	EA Scenario Hydraulic Conductivity (m/s)[a]	Specific Storage (1/m)[b]	Specific Yield (-)[b]	Effective Porosity (-)[b]	Longitudinal Dispersivity (m)[c]	Transverse Dispersivity (m)[c]	Effective Diffusion Coefficient (m^2/s)
Overburden	0 to 6	2×10^{-6}	1×10^{-4}	0.2	0.2	10	1	2×10^{-10}
Weathered bedrock	6 to 40	1×10^{-5}	2×10^{-4}	0.03	0.03	10	1	2×10^{-10}
Competent bedrock	40 to 100	1×10^{-7}	1×10^{-5}	0.0006	0.001	10	1	2×10^{-10}
Competent bedrock	100 to 200	3×10^{-8}	1×10^{-5}	0.0006	0.001	10	1	2×10^{-10}
Competent bedrock	>200	3×10^{-9}	1×10^{-5}	0.0006	0.001	10	1	2×10^{-10}

[a] Derived from hydraulic testing results as presented in Golder (2016, 2017, 2019d), Knight Piesold (2016) and SNC (2017). Ratio of vertical to horizontal hydraulic conductivity assumed to 1:1.

[b] Parameter values within ranges documented in literature (Maidment 1992; Stober and Bucher 2007).

[c] Values are consistent with literature values (Schulze-Makuch 2005).

m = metre; m/s = metres per second; m^2/s = squared metres per second.

Table 21: Water Management Areas and Lakes – Hydrogeological FEFLOW Model

Location	Parameter	Comments	Reference
Attenuation Pond	Water level elevation: 143.5 masl	The pond was assumed to be unlined	Agnico Eagle
Whale Tail Lake Elevation	Water level elevation: - Mining: 156 masl - Following Pit Refilling: 152.5 masl		
Lakes with Open Talik – Lake Elevation	Where available, approximate elevations of lakes near the Project were obtained from the local topographic survey data as documented in the Phase 1 Approved Project Baseline Hydrology Report (Golder 2016b). Where local survey data were not available, approximate lake elevations were obtained from the National Topographic System (NTS) map sheets published by the Government of Canada.	Surface waterbodies were simulated using specified head boundaries. It was assumed that the permeability of sediments beneath these waterbodies is similar to the underlying geologic strata. Thus, no restriction of flow between the surface water and underlying hydrostratigraphic units. This is conservative with respect to the prediction of groundwater flow rates (predicts higher flow rates between lakes and dewatered mine development)	
Lakes and Attenuation Pond – TDS Concentrations	TDS Concentration: 0 mg/L	Hydrogeological model does not account for loading from lakes and Whale Tail Attenuation Pond. TDS from these sources accounted for in Site Wide Water Quality analysis. Boundary condition is set so that contribution of TDS loading from groundwater can be quantified.	
TDS Pit Lake – Fully Flooded Open Pits (i.e. Post Closure Analysis)	Not required. Post closure analysis indicated no groundwater inflow to pit lake therefore transport predictions not required for Post Closure.		

Table 22: General Assumptions and Limitations of the Hydrogeology Model

Groundwater flow in the bedrock was simulated as “equivalent porous media.” Flow in bedrock is assumed to be laminar, steady, and governed by Darcy’s Law
Horizontal mesh discretization of approximately 25 m, and vertical mesh discretization between 6 and 20 m, were used to provide sufficient spatial resolution for simulation of groundwater flow and transport near the open pit.
Groundwater flow deeper than approximately 1.5 km below ground surface was assumed to be negligible and to have negligible influence on model predictions.
The model predictions were provided for the EA Scenario. Density-dependent transport of solutes was not considered for the assessment of groundwater conditions as the buoyancy effects were calculated to be negligible compared to the regional hydraulic head gradient for all stages (mining, closure and post closure). Calculations based on Davies (1989).

5.0 REFERENCES

Agnico Eagle (Agnico Eagle Mines Limited). 2016a. Meadowbank Mine – Amendment/Reconsideration of the Project Certificate (No. 004/ File No. 03MN107) and Amendment to the Type A Water Licence (No. 2AM-MEA1525). Volume 6, Appendix 6-C. Submitted to the Nunavut Impact Review Board, June 30, 2016.

Agnico Eagle. 2016b. Meadowbank Mine – Amendment/Reconsideration of the Project Certificate (No. 004/ File No. 03MN107) and Amendment to the Type A Water Licence (No. 2AM-MEA1525). Volume 8, Appendix 8-B.2. Submitted to the Nunavut Impact Review Board, June 30, 2016.

Agnico Eagle. 2019. Whale Tail Project Thermal Monitoring Plan. Dated March 2019.

Davis, P.B. 1989. Variable-Density Ground-Water Flow and Paleohydrology in the Waste Isolation Pilot Plant (WIPP) Region, Southeastern New Mexico. U.S Geological Survey Open-File Report 88-490.

Golder (Golder Associates Ltd.). 2016. Westbay System Installation Summary – Whale Tail Pit Project, Nunavut. Dated July 7, 2016 (Reference 1649355-003-TM-Rev0-4000).

Golder. 2017. Hydrogeological and Permafrost Field Investigations, Amaruq Project 2017 Factual Report. Dated 31 July 2017. (Reference 1649355-008-R-Rev0-5000).

Golder. 2018. Whale Tail Pit Expansion Project – Pit lake Thermal Assessment in Support of hydrogeological post-closure analysis.

Golder. 2019a. 2019 Mean Annual Water Balance Update Whale Tail Pit – Expansion Project. Prepared for Agnico Eagle Mines Limited. (Reference 18108905-294-RPT-Rev0). May 2019.

Golder. 2019b. Mine Site and Downstream Receiving Water Quality Prediction – Whale Tail Pit - Expansion Project. Prepared for Agnico Eagle Mines Limited. (Reference 18108905-308-RPT-Rev0). May 2019.

Golder. 2019c. Whale Tail Lake Thermal Assessment. Dated April 2019 (Reference 18108905-276-RPT-Rev0).

Golder. 2019d. Winter 2018 Hydrogeological Field Program – Amaruq Project, Nunavut. Dated 25 March 2019. (Reference 18113037-002-TM-Rev0-3000).

Maidment, D.R. 1992. Handbook of Hydrology. McGraw-Hill, New York, USA.

O'kane Consultants. 2019. Memorandum: Agnico Eagle Mines Ltd. – Landform Water Balance Modelling of Whale Tail and IVR WRSF. (Reference 948-011-M-006 Rev3) May 10, 2019)

Schulze-Makuch, D. 2005. Longitudinal dispersivity data and implications for scaling behaviour. GROUND WATER May/Jun 2005; 43, 3; ProQuest Science Journals p. 443.

Stober, I., and K. Bucher. 2007. Hydraulic properties of the crystalline basement. Hydrogeol J. 15:213-224.

Knight Piésold Consulting. 2015. Agnico Eagle Mines Ltd.: Meadowbank Division – Whale Tail Pit – Permafrost and Hydrogeological Characterization. Submitted November 24, 2015.Knight Piésold Consulting. 2016. Whale Tail Pit 2016 Geomechanical Site Investigation Summary. Prepared for Agnico Eagle Mines: Meadowbank Division.

ANNEX A

Table A.1 Effluent Quality Criteria to Mammoth Lake (Agnico Eagle, EIS proposed limits to EC [IR ECCC-06])

Constituent	Unit	Proposed Whale Tail Effluent Quality Criteria	
		Mean	Maximum
Conventional Constituents			
pH	-	6 - 9.5	6 - 9.5
Total suspended solids	mg/L	15	30
Total Dissolved Solids	mg/L	1,400	1,400
Nutrients			
Total Ammonia	mg-N/L	16.0	32.0
Total phosphorus	mg-P/L	0.3	0.6
Total Metals			
Aluminum	mg/L	0.5	1
Arsenic	mg/L	0.1	0.2
Cadmium	mg/L	0.002	0.004
Chromium	mg/L	0.02	0.04
Copper	mg/L	0.1	0.2
Iron	mg/L	1.0	2.0
Lead	mg/L	0.05	0.1
Mercury	mg/L	0.004	0.008
Nickel	mg/L	0.25	0.5
Zinc	mg/L	*0.1*	*0.2*
Other			
Total Petroleum Hydrocarbons	mg/L	3.0	6.0

Table A.2: Water quality inputs to the GoldSim site and downstream water quality model.

Constituents	Whale Tail Lake		Natural Runoff		Mammoth Lake		Nemo Lake		Watershed A		Shallow Groundwater
	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Acidity	0	0	0	0	0	0	0	0	0	0	0
Alkalinity	4.5	4.5	4.9	4.9	5.2	5.2	7.5	7.5	5.6	5.6	102
Sulphate	1.4	1.4	1.4	1.4	2.3	2.3	3.3	3.3	2.1	2.1	46
Calcium	2.1	2.1	1.8	1.7	3.1	3.1	2.3	2.3	1.9	1.9	73
Chloride	2.6	2.6	2.3	2.3	4.2	4.2	0.56	0.56	1.2	1.2	255
Fluoride	0.026	0.026	0.032	0.032	0.026	0.026	0.024	0.024	0.027	0.027	0.37
Mercury	0.000005	0.000005	0.000005	0.000005	0.0000051	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005
Silver	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.000025
Aluminum	0.0053	0.011	0.019	0.17	0.0034	0.0078	0.0017	0.011	0.0037	0.012	0.04
Arsenic	0.00015	0.00017	0.00019	0.00027	0.00035	0.00039	0.00028	0.0003	0.00017	0.0002	0.003
Barium	0.0041	0.0041	0.0048	0.0045	0.0059	0.006	0.0042	0.0042	0.0055	0.0039	0.13
Beryllium	0.00002	0.00002	0.00002	0.000026	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.0001
Boron	0.01	0.01	0.01	0.01	0.010	0.010	0.010	0.010	0.01	0.01	0.46
Bismuth	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.0001
Cadmium	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005	0.0000055	0.0000052	0.0000058	0.00012
Cobalt	0.0001	0.0001	0.0001	0.00016	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0018
Chromium	0.0001	0.00011	0.0002	0.00076	0.0001	0.00012	0.0001	0.00011	0.0001	0.00011	0.0012
Copper	0.00048	0.00051	0.00069	0.00095	0.0004	0.00052	0.00026	0.0005	0.0006	0.00052	0.0039
Iron	0.015	0.023	0.058	0.32	0.010	0.016	0.010	0.012	0.012	0.035	0.05
Potassium	0.4	0.4	0.42	0.42	0.59	0.6	0.61	0.61	0.48	0.48	6.4
Lithium	0.001	0.001	0.001	0.001	0.0011	0.0011	0.001	0.001	0.001	0.001	0.018
Magnesium	0.72	0.72	0.85	0.86	0.94	0.93	1.1	1.1	0.64	0.63	30
Manganese	0.0015	0.0029	0.0021	0.005	0.0011	0.0024	0.0019	0.0037	0.00066	0.0015	0.32

Constituents	Whale Tail Lake		Natural Runoff		Mammoth Lake		Nemo Lake		Watershed A		Shallow Groundwater
	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Molybdenum	0.00005	0.000059	0.00005	0.000066	0.000051	0.000056	0.000052	0.000061	0.000051	0.000051	0.027
Nickel	0.00063	0.00068	0.00096	0.0013	0.00074	0.00083	0.00058	0.00063	0.00054	0.00056	0.0058
Phosphorus	0.0021	0.0024	0.0022	0.0038	0.0022	0.0025	0.002	0.003	0.0021	0.0022	0.2
Lead	0.000054	0.00007	0.000081	0.00021	0.000066	0.000074	0.00009	0.00005	0.000062	0.00008	0.001
Antimony	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.00028
Selenium	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00075
Strontium	0.014	0.014	0.011	0.011	0.02	0.02	0.0097	0.0099	0.0084	0.0087	0.62
Tin	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.00011	0.0001	0.00013	0.0001	0.0001
Thallium	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001
Uranium	0.000031	0.000037	0.000074	0.00014	0.00002	0.000024	0.00001	0.00001	0.000025	0.00003	0.0078
Vanadium	0.0005	0.0005	0.0005	0.0006	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.00053
Zinc	0.0011	0.003	0.0012	0.0031	0.001	0.003	0.0011	0.003	0.0011	0.003	0.012
Nitrate	0.0051	0.0051	0.0079	0.0079	0.0051	0.0051	0.005	0.005	0.0074	0.0074	0.13
Sodium	0.55	0.55	0.67	0.67	0.6	0.6	0.51	0.51	0.65	0.65	56
Ammonia	0.0061	0.0061	0.0055	0.0055	0.0065	0.0065	0.0051	0.0051	0.0053	0.0053	0.33

* Constituents were correlated with TDS and are calculated within the GoldSim model.

Table A.3: Material loading inputs to the GoldSim site and downstream water quality model

Constituents	Ore	South Greywacke (S3S)	Central Greywacke (S3C)	North Greywacke (S3N)	Chert (S10e)	Iron Formation (SE9)	Komatiite (0a)	Komatiite (0b)	Basalt (1b)	Diorite (8b)	Gabbro (I3)	Overburden	Lake Sediment	Developed Area/Cover Material	Esker Material
	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/yr	mg/kg/mon	mg/kg/mon
Alkalinity	5.8	1.2	4.4	2.8	6.2	3.4	3.3	3.8	3.9	3.2	3.9	65	254	0.4	112
Sulphate	19	1.6	22	34	34	4.1	2.1	3.2	2.3	1.8	2.3	4.1	170	1.6	8.0
Calcium	8.6	0.73	8.7	12	13	1.6	1.1	1.3	1.2	1.1	1.2	2.1	35	1.6	2.8
Chloride	6.1	0.072	0.26	0.33	0.33	0.54	0.29	0.27	0.19	0.98	0.19	7.1	15	0.79	0
Fluoride	0.064	0.0053	0.024	0.027	0.032	0.0074	0.008	0.0098	0.018	0.059	0.018	0.89	1.6	0.23	0
Mercury	0.0000098	0.00000037	0.00000094	0.00000096	0.00000098	0.00000099	0.000001	0.00000092	0.00000091	0.0000098	0.00000091	0.000058	0.00004	0.015	0.00004
Silver	0.000052	0.00000073	0.0000012	0.0000045	0.0000029	0.0000035	0.0000016	0.0000025	0.0000022	0.0000028	0.0000022	0.000042	0.00024	0.000002	0.00015
Aluminum	0.025	0.0022	0.0024	0.00094	0.00075	0.0017	0.0016	0.0038	0.0028	0.039	0.0028	2.6	2.5	0.0000011	3.4
Arsenic	0.065	0.0021	0.0014	0.00025	0.0024	0.55	0.52	0.13	0.068	0.0048	0.068	0.014	0.7	0.0087	0.009
Barium	0.0067	0.0011	0.0014	0.00098	0.0025	0.0015	0.0029	0.0038	0.0094	0.0023	0.0094	0.033	0.48	0.0026	0.029
Beryllium	0.000011	0.00000025	0.00000067	0.00000063	0.00000067	0.00000067	0.00000072	0.00000064	0.00000064	0.0000069	0.00000064	0.00017	0.00015	0.0013	0.000074
Boron	0.0097	0.001	0.0033	0.0038	0.0055	0.003	0.0025	0.0013	0.0014	0.0017	0.0014	0.16	2.2	0.0000014	1.5
Bismuth	0.000011	0.00000031	0.00000071	0.00000064	0.00000073	0.0000012	0.00000086	0.00000071	0.00000065	0.0000069	0.00000065	0.000063	0.00014	0.0011	0.00003
Cadmium	0.0000051	0.00000039	0.0000019	0.000016	0.0000047	0.00000033	0.00000056	0.00000048	0.00000066	0.0000031	0.00000066	0.000022	0.00054	0.0000014	0.000043
Cobalt	0.00082	0.0000089	0.000057	0.00034	0.00021	0.000082	0.000088	0.000062	0.000049	0.00015	0.000049	0.0028	0.041	0.00000086	0.004
Chromium	0.000069	0.0000045	0.0000037	0.00001	0.0000063	0.000013	0.000021	0.000017	0.000036	0.000029	0.000036	0.01	0.019	0.000034	0.015
Copper	0.00091	0.000025	0.000055	0.0001	0.000033	0.000042	0.000081	0.000045	0.00012	0.00021	0.00012	0.015	0.05	0.0000088	0.011
Iron	0.24	0.00029	0.0010	0.00081	0.0011	0.00083	0.0014	0.00082	0.001	0.0074	0.001	2.9	6.5	0.000058	2.5
Potassium	3.7	0.54	3.6	2.5	4.7	2.2	1.7	2.0	2.0	1.0	2.0	2.0	8.5	0.0015	5.4
Lithium	0.0014	0.00015	0.00045	0.00059	0.00052	0.00032	0.00031	0.00051	0.00075	0.00063	0.00075	0.0048	0.019	0.63	0.003
Magnesium	1.0	0.14	0.65	1.8	1.2	0.49	0.48	0.59	0.54	0.13	0.54	1.2	7.1	0.00023	1.6
Manganese	0.089	0.00042	0.0097	0.13	0.049	0.0017	0.001	0.0015	0.0013	0.0048	0.0013	0.069	12	0.14	0.15
Molybdenum	0.0013	0.0002	0.00068	0.00011	0.0003	0.00014	0.00017	0.00043	0.00051	0.0013	0.00051	0.0014	0.0014	0.0012	0.0026
Nickel	0.031	0.00004	0.00025	0.0013	0.0017	0.0024	0.0012	0.00057	0.00041	0.0003	0.00041	0.0096	0.48	0.00039	0.0092
Phosphorus	0.0048	0.00017	0.00038	0.00039	0.00038	0.00048	0.0004	0.0004	0.0018	0.00058	0.0018	0.13	0.77	0.000085	0
Lead	0.000032	0.0000047	0.0000033	0.0000065	0.0000036	0.000002	0.000004	0.0000042	0.000016	0.000021	0.000016	0.0024	0.014	0.00024	0.0039
Antimony	0.0017	0.000082	0.00026	0.00012	0.00028	0.0083	0.0046	0.0006	0.00043	0.00038	0.00043	0.0017	0.0077	0.0000075	0.0031
Selenium	0.00017	0.000031	0.00017	0.00026	0.00014	0.000054	0.000085	0.00012	0.00061	0.000075	0.00061	0.00063	0.0048	0.00013	0.004
Strontium	0.022	0.0046	0.017	0.023	0.038	0.0095	0.011	0.011	0.019	0.0031	0.019	0.011	0.18	0.000039	0.0067
Tin	0.00013	0.000012	0.00018	0.000046	0.000016	0.0000046	0.0000075	0.000014	0.000024	0.00011	0.000024	0.00021	0.00099	0.0043	0.00017
Thallium	0.000028	0.0000013	0.0000011	0.000002	0.0000014	0.0000013	0.0000045	0.000005	0.000004	0.0000052	0.000004	0.000021	0.000073	0.000028	0.000046
Uranium	0.00004	0.00023	0.00078	0.00039	0.0003	0.000034	0.000081	0.00029	0.00032	0.00043	0.00032	0.0024	0.0027	0.000002	0.0005
Vanadium	0.00026	0.000074	0.000016	0.0000068	0.0000083	0.00067	0.0011	0.00076	0.0018	0.00052	0.0018	0.0047	0.0039	0.00027	0.0054
Zinc	0.002	0.000079	0.00019	0.00047	0.00025	0.00019	0.00019	0.00018	0.00018	0.002	0.00018	0.0086	0.027	0.00015	0.011
Nitrate	0	0	0	0	0	0	0	0	0	0	0	0	2.4	0.00041	0
Sodium	1.1	0.064	1.0	0.53	2.1	0.39	0.18	0.17	0.18	0.1	0.18	35	148	0	39
Ammonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0.071	0

Table A.4: Rock Lithology Codes and Descriptions

Lithology	Code (From AEM Dec. 2017)	Code (Golder)
Gabbro	I3 (a1)	GAB (I3)
Chert Central	S10C	S10E
Chert zone R	S10R	
Greywacke North	S3N (3b)	GW (S3N)
Central Greywacke	S3C (3b)	GW (S3C)
South Greywacke	S3S (3b)	GW (S3S)
Iron Formation	S9E (0a)	IF_SE9
Ultramafic South	V3-V4 (0b)	UM (0b)
Ultramafic North	V4 (0a)	UM (0a)
Lamprophyres	LAM	
Ultramafic	N_UL (0a)	
Non-Defined Waste	-	
Diorite	I1-I2 (8b)	INT-INTR (8b)
Basalt	V3 (1b)	MV (1b)

ANNEX B: GROUNDWATER INPUTS

Groundwater Inflows and Outflows in Table B.1 to B.8 and below subsections predicted using the Hydrogeological Model (assumptions as outlined in Section 4). Groundwater inflows and outflows are for open pit mine plan incorporated in the FEIS for the Phase 1 Approved Project.

Note:

1. TDS in the Whale Tail Attenuation **Pond and Whale Tail Lake (South Basin) are assumed to be zero for predictive simulations. Predicted TDS concentrations therefore are uncorrected and only include TDS mass from groundwater. The 75th percentile groundwater monitoring data from Meadowbank is used for the shallow groundwater quality in the GoldSim model; TDS predictions from the hydrogeological model for shallow groundwater are not used.**
2. Predictions of groundwater inflow to North Whale Tail lake represents the discharge of groundwater to the dewatered lake basin. This excludes discharges to the pit and attenuation pond which are within the North Whale Tail lake basin. These values are reported separately.
3. Where Net Groundwater Inflow is reported, positive values indicate flow to the pit/pond/lake and negative values indicate flow to bedrock.

GROUNDWATER INFLOWS AND OUTFLOWS DURING OPERATIONS

Table B.1: Predicted Groundwater Inflow During Dewatering

Time Period	Whale Tail Lake (North Basin)			Whale Tail Lake (South Basin)
	Total Groundwater Inflow (m^3/day)	Uncorrected TDS Concentration (mg/L)	Portion of Groundwater Inflow from South Basin of Whale Tail Lake (%)	Lake Outflow to Groundwater (m^3/day)
Lake Dewatering (2019)	895	120	21%	515

Table B.2: Predicted Groundwater Inflows and TDS During Mining to Whale Tail Pit.

Time Period	Total Groundwater Inflow (m^3/day)	Uncorrected TDS Concentration (mg/L)	Portion of Groundwater Inflow from Whale Tail Attenuation Pond (%)	Portion of Groundwater Inflow from South Basin of Whale Tail Lake (%)
2020	940	175	14	<1%
2021	680	170	60	<1%
January-July 2022	675	160	66	<1%

Table B.3: Predicted Pond Outflow and Groundwater Inflows and TDS to the Whale Tail Attenuation Pond during Mining

Time Period	Total Groundwater Inflow (m^3/day)	Uncorrected TDS Concentration (mg/L)	Portion of Groundwater Inflow from South Basin of Whale Tail Lake (%)	Pond Outflow to Groundwater (m^3/day)
2020	265	280	<1%	320
2021	125	365	<1%	430
January-July 2022	120	320	3%	430

Table B.4 Predicted Groundwater Inflows and TDS During Mining to the North Basin of Whale Tail Lake.

Time Period	Total Groundwater Inflow (m^3/day)	Uncorrected TDS Concentration (mg/L)	Portion of Groundwater Inflow from South Basin of Whale Tail Lake (%)
2020	830	130	83
2021	760	120	98
January-July 2022	750	110	99

Table B.5: Whale Tail Lake South Basin Outflow during Mining.

Time Period	Lake Outflow to Groundwater (m^3/day)
2020	1020
2021	1020
January-July 2022	1020

GROUNDWATER INFLOWS AND OUTFLOWS DURING FLOODING

Table B.6: Net Groundwater Inflows to the Whale Tail Pit during Flooding.

Water Elevation in the Whale Tail Pit (masl)		Net Groundwater Inflow/Outflow (m^3/day)	Uncorrected Groundwater Inflow TDS Concentration (mg/L)	Portion of Inflow from Whale Tail Attenuation Pond (%)	Portion of Groundwater Inflow from South Basin of Whale Tail Lake (%)
From	To				
-5	112	640	155	69	<1%
112	122	580	150	71	<1%
122	131	450	150	72	<1%
131	138	260	150	73	<1%
138	148	65	145	72	<1%
148	152.5	-225	-	-	-
152.5	152.5	-5	-	-	-

Table B.7: Groundwater inflows to the Whale Tail Attenuation Pond during Flooding.

Water Elevation in the Whale Tail Pit (masl)		Groundwater Inflow (m^3/day)	Uncorrected Groundwater Inflow TDS Concentration (mg/L)	Portion of Inflow from Whale Tail Lake (South Basin) (%)	Pond Outflow to Groundwater (m^3/day)
From	To				
-5	112	120	300	47	430
112	122	115	270	36	395
122	131	120	220	55	310
131	138	135	180	69	185
138	148	145	150	75	85
148	152.5	25	150	77	660
152.5	152.5	0 to 5	-	-	5

Table B.8: Net Groundwater Inflows to North Basin of Whale Tail Lake during Flooding.

Water Elevation in the Whale Tail Pit (masl)		Net Groundwater Inflow/Outflow (m^3/day)	TDS Concentration (mg/L)	Portion of Inflow from South Basin of Whale Tail Lake (%)
From	To			
-5	112	530	110	>99%
112	122	320	105	>99%
122	131	320	100	>99%
131	138	330	90	>99%
138	148	330	80	>99%
148	152.5	230	85	>99%
152.5	152.5	-20	-	-

Table B.9: Whale Tail Lake (South Basin) Outflow during Flooding.

Water Elevation in the Whale Tail Pit (masl)		South Basin Outflow (m^3/day)
From	To	
-5	112	590
112	122	560
122	131	560
131	138	560
138	148	560
148	152.5	460
152.5	152.5	-5 to 0

GROUNDWATER OUTFLOWS FROM FLOODED WHALE TAIL PIT LAKE

The long-term predicted pit lake discharge to the sub-permafrost groundwater flow system is predicted to be less than 1 m^3/day. This prediction assumes the permafrost below the pit fully degrades, connecting the bedrock below the lake to the sub-permafrost flow system through the open talik.

APPENDIX B

Water Balance Results - Tabular

		Year 2019														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Totals	Max. Monthly Totals	Min. Monthly Totals
No. of days		**31**	**28**	**31**	**30**	**31**	**30**	**31**	**31**	**30**	**31**	**30**	**31**			
QUARRY 1																
Direct Precipitation	(m^3)	0	0	0	0	0	4,835	4,011	2,335	3,117	0	0	0	**14,298**	**4,835**	**0**
Natural Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Pit Wall	(m^3)	0	0	0	0	0	566	578	344	626	0	0	0	**2,114**	**626**	**0**
WT Pit	(m^3)	0	0	0	0	0	160,304	133,988	76,590	108,685	0	0	0	**479,567**	**160,304**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail WRSF	(m^3)	0	0	0	0	0	0	37,399	111,893	65,620	1,580	0	0	**216,492**	**111,893**	**0**
Truck Shop	(m^3)	3,196	2,887	3,196	3,093	3,196	3,093	3,196	3,196	3,093	3,196	3,093	3,196	**37,631**	**3,196**	**2,887**
Ore Stockpile	(m^3)	0	0	0	0	0	2,855	2,426	1,416	1,979	0	0	0	**8,676**	**2,855**	**0**
Overburden	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Industrial Sector	(m^3)	0	0	0	0	0	15,198	12,914	7,537	10,532	0	0	0	**46,181**	**15,198**	**0**
Camp Sector	(m^3)	0	0	0	0	0	26,317	22,361	13,051	18,237	0	0	0	**79,966**	**26,317**	**0**
Drilling Water	(m^3)	2,124	1,960	2,170	2,100	2,170	2,030	0	0	0	0	0	0	**12,554**	**2,170**	**0**
NPAG_outflow_to_Quarry1	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**5,320**	**4,847**	**5,366**	**5,193**	**5,366**	**215,198**	**216,873**	**216,362**	**211,889**	**4,776**	**3,093**	**3,196**	**897,479**	**327,394**	**2,887**
Evaporation	(m^3)	0	0	0	0	0	354	3,929	3,957	1,462	0	0	0	**9,702**	**3,957**	**0**
Untreated Discharge to Mammoth	(m^3)	0	0	0	0	0	0	0	46,443	238,312	93,824	0	0	**378,579**	**238,312**	**0**
To AP5	(m^3)	6,523	5,934	6,569	6,357	6,569	216,141	121,911	143,369	972	0	0	0	**514,345**	**216,141**	**0**
To Treatment	(m^3)	0	0	0	0	0	0	110,805	13,430	0	0	80,651	3,196	**208,082**	**110,805**	**0**
Ore Losses	(m^3)	4,101	3,704	4,101	3,969	4,101	3,837	0	0	0	0	0	0	**23,813**	**4,101**	**0**
Total Outflow (m^3)		**10,624**	**9,638**	**10,670**	**10,326**	**10,670**	**220,332**	**236,645**	**207,199**	**240,746**	**93,824**	**80,651**	**3,196**	**1,134,521**	**573,316**	**0**
Net Inflow	(m^3)	-5,304	-4,791	-5,304	-5,133	-5,304	-5,134	-19,772	9,163	-28,857	-89,048	-77,558	0	**-237,042**	**9,163**	**-89,048**
End-of-Month Volume	(m^3)	354,420	349,628	344,324	339,190	333,886	328,753	308,982	318,144	289,285	200,237	1,000	1,000	**3,168,849**	**354,420**	**1,000**
AP5																
Quarry 1	(m^3)	6,523	5,934	6,569	6,357	6,569	216,141	121,911	143,369	972	0	0	0	**514,345**	**216,141**	**0**
Natural Runoff	(m^3)	0	0	0	0	0	15,951	13,398	7,727	10,671	0	0	0	**47,747**	**15,951**	**0**
WRSF	(m^3)	0	0	0	0	0	161	13	15	6	0	0	0	**195**	**161**	**0**
Waste Rock Pad	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Portal Runoff	(m^3)	0	0	0	0	0	1,293	1,099	641	896	0	0	0	**3,929**	**1,293**	**0**
Whale Tail Lake (North Basin)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
NE Sector	(m^3)	0	0	0	0	0	0	110,155	90,510	0	0	0	0	**200,665**	**110,155**	**0**
U/G ore stockpile	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**6,523**	**5,934**	**6,569**	**6,357**	**6,569**	**233,546**	**246,576**	**242,262**	**12,545**	**0**	**0**	**0**	**766,881**	**343,701**	**0**
Evaporation	(m^3)	0	0	0	0	0	0	0	0	65	0	0	0	65	65	0
Underground	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C Watershed	(m^3)	6,523	5,934	6,569	6,357	6,569	233,545	246,576	242,262	12,545	0	0	0	**766,880**	**246,576**	**0**
O-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Underground (Closure)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**6,523**	**5,934**	**6,569**	**6,357**	**6,569**	**233,545**	**246,576**	**242,262**	**12,610**	**0**	**0**	**0**	**766,945**	**246,641**	**0**
Net Inflow	(m^3)	0	0	0	0	0	1	0	0	-66	0	0	0	**-64**	**1**	**-66**
End-of-Month Volume	(m^3)	0	0	0	0	0	0	0	0	18,042	0	0	0	**18,042**	**18,042**	**0**
NORTHEAST SECTOR																
Lake A49	(m^3)	0	0	0	0	0	37,027	28,271	15,028	24,520	0	0	0	**104,846**	**37,027**	**0**
Rain Runoff	(m^3)	0	0	0	0	0	109,590	196,332	114,583	160,117	0	0	0	**580,622**	**196,332**	**0**
SWE Runoff	(m^3)	0	0	0	0	0	121,471	0	0	0	0	0	0	**121,471**	**121,471**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**268,088**	**224,603**	**129,611**	**184,637**	**0**	**0**	**0**	**806,939**	**354,830**	**0**
Whale Tail Lake (North Basin) BaseLine	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Lake (North Basin) Ops	(m^3)	0	0	0	0	0	0	42,516	8,702	0	0	0	0	**51,218**	**42,516**	**0**
Mammoth Lake	(m^3)	0	0	0	0	0	192,424	0	8,196	0	17,721	0	0	**218,341**	**192,424**	**0**
C Watershed	(m^3)	0	0	0	0	0	0	0	65,534	195,237	0	0	0	**260,771**	**195,237**	**0**
AP5	(m^3)	0	0	0	0	0	0	110,155	90,510	0	0	0	0	**200,665**	**110,155**	**0**
Evaporation	(m^3)	0	0	0	0	0	1,674	22,741	21,737	6,847	0	0	0	**52,999**	**22,741**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**194,098**	**175,412**	**194,679**	**202,084**	**17,721**	**0**	**0**	**783,994**	**563,073**	**0**
Net Inflow (m^3)		0	0	0	0	0	73,990	49,191	-65,068	-17,447	-17,721	0	0	**22,945**	**73,990**	**-65,068**
End-of-Month Volume (m^3)		118,725	118,725	118,725	118,725	118,725	192,715	241,905	176,836	136,446	118,725	118,725	118,725	**1,697,702**	**241,905**	**118,725**
WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM																
Natural Runoff	(m^3)	0	0	0	0	0	91,531	68,543	41,158	58,355	0	0	0	**259,587**	**91,531**	**0**
Direct Precipitation	(m^3)	0	0	0	0	0	5,914	10,873	3,177	867	0	0	0	**20,831**	**10,873**	**0**
Whale Tail WRSF Runoff	(m^3)	0	0	0	0	0	5,596	435	480	175	0	0	0	**6,686**	**5,596**	**0**
Whale Tail WRSF Seepage	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overflow from WT ATT Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**103,041**	**79,851**	**44,815**	**59,397**	**0**	**0**	**0**	**287,104**	**108,000**	**0**
Evaporation	(m^3)	0	0	0	0	0	433	10,648	5,385	403	0	0	0	**16,869**	**10,648**	**0**
Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Seepage to Mammoth	(m^3)	0	0	0	0	0	0	61,920	0	0	0	0	0	**61,920**	**61,920**	**0**
Quarry 1	(m^3)	0	0	0	0	0	0	37,496	107,095	63,297	426	0	0	**208,314**	**107,095**	**0**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**433**	**110,064**	**112,480**	**63,700**	**426**	**0**	**0**	**287,104**	**179,663**	**0**
Net Inflow (m^3)		0	0	0	0	0	102,608	-30,213	-67,665	-4,304	-426	0	0	**0**	**102,608**	**-67,665**
End-of-Month Volume (m^3)		1	1	1	1	1	102,608	134,316	4,731	427	1	1	1	**242,090**	**134,316**	**1**
NORTH SECTOR																
Natural Rainfall Runoff	(m^3)	0	0	0	0	0	13,936	24,966	14,571	20,361	0	0	0	**73,834**	**24,966**	**0**
Natural SWE Runoff	(m^3)	0	0	0	0	0	15,447	0	0	0	0	0	0	**15,447**	**15,447**	**0**
Whale Tail WRSF Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail WRSF Seepage	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**29,383**	**24,966**	**14,571**	**20,361**	**0**	**0**	**0**	**89,281**	**40,413**	**0**
Evaporation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail (North Basin) / Whale Tail Attenuation Pond (Operations)	(m^3)	0	0	0	0	0	29,382	24,966	14,571	20,361	0	0	0	**89,280**	**29,382**	**0**
Whale Tail (North Basin) / Whale Tail Attenuation Pond (Closure)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**29,382**	**24,966**	**14,571**	**20,361**	**0**	**0**	**0**	**89,280**	**29,382**	**0**
Net Inflow (m^3)		0	0	0	0	0	1	0	0	0	0	0	0	**1**	**1**	**0**
End-of-Month Volume (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**

		Year 2019														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Totals	Max. Monthly Totals	Min. Monthly Totals
No. of days		**31**	**28**	**31**	**30**	**31**	**30**	**31**	**31**	**30**	**31**	**30**	**31**			
WHALE TAIL PIT																
Land Runoff	(m^3)	0	0	0	0	0	16,114	13,692	7,991	11,166	0	0	0	**48,963**	**16,114**	**0**
Lake Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Pit Wall Runoff	(m^3)	0	0	0	0	0	143,892	122,265	71,356	99,712	0	0	0	**437,225**	**143,892**	**0**
Groundwater	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Drilling Water	(m^3)	2,124	1,960	2,170	2,100	2,170	2,170	4,340	4,340	4,200	4,340	4,200	4,340	**38,454**	**4,340**	**1,960**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
North Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overburden Runoff	(m^3)	0	0	0	0	0	2,228	1,893	1,105	1,544	0	0	0	**6,770**	**2,228**	**0**
WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
NE Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond Overflow	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
From WTS	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Drawdown from WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**2,124**	**1,960**	**2,170**	**2,100**	**2,170**	**164,404**	**142,190**	**84,792**	**116,622**	**4,340**	**4,200**	**4,340**	**531,412**	**166,574**	**1,960**
Evaporation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Ore Losses	(m^3)	2,124	1,960	2,170	2,100	2,170	4,101	8,203	8,203	7,938	4,340	4,200	4,340	**51,849**	**8,203**	**1,960**
Groundwater	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Quarry 1	(m^3)	0	0	0	0	0	160,304	133,988	76,590	108,685	0	0	0	**479,567**	**160,304**	**0**
Total Outflow (m^3)		**2,124**	**1,960**	**2,170**	**2,100**	**2,170**	**164,405**	**142,191**	**84,793**	**116,623**	**4,340**	**4,200**	**4,340**	**531,416**	**168,507**	**1,960**
Net Inflow (m^3)		0	0	0	0	0	-1	-1	-1	-1	0	0	0	**-4**	**0**	**-1**
End-of-Month Volume (m^3)		1	1	1	1	1	1	1	1	1	1	1	1	**12**	**1**	**1**
WHALE TAIL LAKE (NORTH BASIN) & WHALE TAIL ATTENUATION POND																
Clean Area Runoff	(m^3)	0	0	0	0	0	63,035	53,561	31,259	43,681	0	0	0	**191,536**	**63,035**	**0**
Lakebed Sediment Runoff	(m^3)	0	0	0	0	0	307	0	1,457	9,291	0	0	0	**11,055**	**9,291**	**0**
Direct Precipitation	(m^3)	0	0	0	0	0	42,661	37,089	18,848	18,849	0	0	0	**117,447**	**42,661**	**0**
Whale Tail WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater to Attn Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
GW to WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Seepage Thru Dike	(m^3)	0	0	0	0	0	201,600	208,320	267,840	288,000	111,370	210,390	297,600	**1,585,120**	**297,600**	**0**
Dust Control	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Camp Biodisk	(m^3)	2,418	2,184	2,418	2,340	2,418	2,340	2,418	2,418	2,340	2,418	2,340	2,418	**28,470**	**2,418**	**2,184**
Industrial Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Camp Sector Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Ore Stockpile	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Natural WT Pit Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
NPAG to Attn Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Northeast Sector	(m^3)	0	0	0	0	0	0	42,516	8,702	0	0	0	0	**51,218**	**42,516**	**0**
A53	(m^3)	0	0	0	0	0	158,033	163,790	34,664	112,906	0	0	0	**469,393**	**163,790**	**0**
North Sector	(m^3)	0	0	0	0	0	29,382	24,966	14,571	20,361	0	0	0	**89,280**	**29,382**	**0**
Whale Tail Lake (South Basin)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Pit Sector Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Pumped from WTS to WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**2,418**	**2,184**	**2,418**	**2,340**	**2,418**	**497,358**	**532,660**	**379,759**	**495,428**	**113,788**	**212,730**	**300,018**	**2,543,519**	**650,693**	**2,184**
Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Dewatering to WT Lake (South) bypass C-WTP	(m^3)	0	0	1,046,000	296,645	598,603	0	0	0	0	0	117,087	0	**2,058,335**	**1,046,000**	**0**
Dewatering to Mammoth through C-WTP	(m^3)	0	0	0	0	0	147,552	634,520	760,504	865,282	604,138	177,777	298,397	**3,488,170**	**865,282**	**0**
O-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Seepage Water to WTS	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	3,123	36,324	31,949	8,820	0	0	0	**80,216**	**36,324**	**0**
Drawdown to WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WTN to Pits	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overflow to WT WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**1,046,000**	**296,645**	**598,603**	**150,675**	**670,844**	**792,453**	**874,102**	**604,138**	**294,864**	**298,397**	**5,626,721**	**1,947,606**	**0**
Net Inflow (m^3)		2,418	2,184	-1,043,582	-294,305	-596,185	346,683	-138,184	-412,694	-378,674	-490,350	-82,134	1,621	**-3,083,202**	**346,683**	**-1,043,582**
End-of-Month Volume (m^3)		3,039,000	3,041,000	1,998,000	1,704,000	1,107,000	1,454,000	1,316,000	903,251	524,577	34,226	10,000	11,621	**15,142,675**	**3,041,000**	**10,000**
WHALE TAIL LAKE (SOUTH BASIN)																
Rainfall Land Runoff	(m^3)	0	0	0	0	0	465,110	1,058,000	601,578	820,539	0	0	0	**2,945,227**	**1,058,000**	**0**
SWE Land Runoff	(m^3)	0	0	0	0	0	515,536	0	0	0	0	0	0	**515,536**	**515,536**	**0**
Rainfall Lake Runoff	(m^3)	0	0	0	0	0	204,497	394,415	246,014	363,877	0	0	0	**1,208,803**	**394,415**	**0**
SWE Lake Runoff	(m^3)	0	0	0	0	0	226,668	0	0	0	0	0	0	**226,668**	**226,668**	**0**
Lake A18	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Lake A53	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Lake A55	(m^3)	0	0	0	0	0	189,618	0	0	0	0	0	0	**189,618**	**189,618**	**0**
Lake A60	(m^3)	0	0	0	0	0	252,322	174,230	83,169	160,522	0	0	0	**670,243**	**252,322**	**0**
Lake A62	(m^3)	0	0	0	0	0	73,967	0	0	0	0	0	0	**73,967**	**73,967**	**0**
Lake A65	(m^3)	0	0	0	0	0	39,186	0	0	0	0	0	0	**39,186**	**39,186**	**0**
Whale Tail Dike Seepage Well Pumpback	(m^3)	0	0	0	0	0	0	0	0	0	186,230	77,610	0	**263,840**	**186,230**	**0**
Whale Tail Lake (North Basin)	(m^3)	0	0	1,008,000	334,353	598,603	0	0	0	0	0	0	0	**1,940,956**	**1,008,000**	**0**
Discharge from O-WTP	(m^3)	0	0	0	0	0	0	207,328	0	0	0	281,397	298,271	**786,996**	**298,271**	**0**
Total Inflow (m^3)		**0**	**0**	**1,008,000**	**334,353**	**598,603**	**1,966,904**	**1,833,973**	**930,761**	**1,344,938**	**186,230**	**359,007**	**298,271**	**8,861,040**	**4,242,213**	**0**
Pumping to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	332,239	930,731	438,244	**1,701,214**	**930,731**	**0**
Groundwater Infiltration	(m^3)	0	0	13,905	4,635	10,815	5,150	14,935	15,450	14,420	11,330	0	0	**90,640**	**15,450**	**0**
Camp Use	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Dust Control	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Drilling Water	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	31,566	386,279	417,009	170,894	0	0	0	**1,005,748**	**417,009**	**0**
Drawdown to Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overflow to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To WTPit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**13,905**	**4,635**	**10,815**	**36,716**	**401,214**	**432,459**	**185,314**	**343,569**	**930,731**	**438,244**	**2,797,602**	**1,363,190**	**0**
Net Inflow (m^3)		0	0	994,095	329,718	587,788	1,930,188	1,432,759	498,302	1,159,624	-157,339	-571,724	-139,973	**6,063,438**	**1,930,188**	**-571,724**
End-of-Month Volume (m^3)		4,428,000	4,428,000	5,423,000	5,752,000	6,340,000	10,330,000	11,760,000	12,260,000	6,617,000	6,460,000	5,526,000	5,386,000	**84,710,000**	**12,260,000**	**4,428,000**
WATER TREATMENT																
Quarry 1	(m^3)	0	0	0	0	0	0	110,805	13,430	0	0	80,651	3,196	**208,082**	**110,805**	**0**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Northeast Sector (TSS)	(m^3)	0	0	0	0	0	192,424	0	8,196	0	17,721	0	0	**218,341**	**192,424**	**0**
Whale Tail Lake (North Basin) (TSS)	(m^3)	0	0	0	0	0	147,552	634,520	760,504	865,282	604,138	177,777	298,397	**3,488,170**	**865,282**	**0**
Whale Tail Attenuation Pond (seepage)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**339,976**	**745,325**	**782,130**	**865,282**	**621,859**	**258,428**	**301,593**	**3,914,593**	**1,168,511**	**0**
Bypass to Mammoth Lake	(m^3)	0	0	0	0	0	339,976	427,192	768,699	865,282	621,860	0	0	**3,023,009**	**865,282**	**0**
O-WTP to Mammoth Lake	(m^3)	0	0	0	0	0	0	110,805	13,430	0	0	197,738	3,196	**325,169**	**197,738**	**0**
O-WTP to Whale Tail Lake (South Basin)	(m^3)	0	0	0	0	0	0	207,328	0	0	0	60,690	298,397	**566,415**	**298,397**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**339,976**	**745,325**	**782,129**	**865,282**	**621,860**	**258,428**	**301,593**	**3,914,593**	**1,361,417**	**0**
Net Inflow (m^3)		0	0	0	0	0	0	0	1	0	-1	0	0	**0**	**1**	**-1**
End-of-Month Volume (m^3)																

		Year 2020														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Totals	Max. Monthly Totals	Min. Monthly Totals
No. of days		**31**	**28**	**31**	**30**	**31**	**30**	**31**	**31**	**30**	**31**	**30**	**31**			
QUARRY 1																
Direct Precipitation	(m^3)	0	0	0	0	0	288	0	0	0	0	0	0	**288**	**288**	**0**
Pit Wall	(m^3)	0	0	0	0	0	4,602	0	0	0	0	0	0	**4,602**	**4,602**	**0**
WT Pit	(m^3)	0	0	0	0	0	139,045	0	0	0	0	0	0	**139,045**	**139,045**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail WRSF	(m^3)	0	0	0	0	0	58,616	6	0	0	0	0	0	**58,616**	**58,616**	**0**
Truck Shop	(m^3)	3,196	2,990	3,196	3,093	3,196	3,093	0	0	0	0	0	0	**18,764**	**3,196**	**0**
Ore Stockpile	(m^3)	0	0	0	0	0	7,819	0	0	0	0	0	0	**7,819**	**7,819**	**0**
Industrial Sector	(m^3)	0	0	0	0	0	9,278	0	0	0	0	0	0	**9,278**	**9,278**	**0**
Camp Sector	(m^3)	0	0	0	0	0	23,825	0	0	0	0	0	0	**23,825**	**23,825**	**0**
Drilling Water	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**3,196**	**2,990**	**3,196**	**3,093**	**3,196**	**246,566**	**6**	**0**	**0**	**0**	**0**	**0**	**262,238**	**246,669**	**0**
Evaporation	(m^3)	0	0	0	0	0	23	1	0	0	0	0	0	**24**	**23**	**0**
Untreated Discharge to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To AP5	(m^3)	0	0	0	0	0	0	0	1,311	0	0	0	0	**1,311**	**1,311**	**0**
To Treatment	(m^3)	3,196	2,990	3,196	3,093	3,196	246,542	1,005	0	0	0	0	0	**263,218**	**246,542**	**0**
Ore Losses	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**3,196**	**2,990**	**3,196**	**3,093**	**3,196**	**246,565**	**1,006**	**1,311**	**0**	**0**	**0**	**0**	**264,553**	**247,876**	**0**
Net Inflow	(m^3)	0	0	0	0	0	1	-1,000	-1,311	0	0	0	0	**-2,310**	**1**	**-1,311**
End-of-Month Volume	(m^3)	1,000	1,000	1,000	1,000	1,000	1,000	0	0	0	0	0	0	**6,000**	**1,000**	**0**
NORTHEAST SECTOR																
Lake A49	(m^3)	0	0	0	0	0	33,492	10,448	11,939	13,134	0	0	0	**69,013**	**33,492**	**0**
Rain Runoff	(m^3)	0	0	0	0	0	72,109	86,015	95,463	89,639	0	0	0	**343,226**	**95,463**	**0**
SWE Runoff	(m^3)	0	0	0	0	0	137,070	0	0	0	0	0	0	**137,070**	**137,070**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**242,671**	**96,463**	**107,402**	**102,773**	**0**	**0**	**0**	**549,309**	**266,025**	**0**
Whale Tail Lake (North Basin) BaseLine	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Lake (North Basin) Ops	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Mammoth Lake	(m^3)	0	0	0	0	0	241,530	83,490	94,298	97,700	0	0	0	**517,018**	**241,530**	**0**
C Watershed	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	1,141	12,973	13,104	5,073	0	0	0	**32,291**	**13,104**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**242,671**	**96,463**	**107,402**	**102,773**	**0**	**0**	**0**	**549,309**	**254,634**	**0**
Net Inflow (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume (m^3)		118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	**1,424,700**	**118,725**	**118,725**
WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM																
Natural Runoff	(m^3)	0	0	0	0	0	47,906	18,445	19,049	16,572	0	0	0	**101,972**	**47,906**	**0**
Direct Precipitation	(m^3)	0	0	0	0	0	1	0	1	0	0	0	0	**3**	**1**	**0**
Whale Tail WRSF Runoff	(m^3)	0	0	0	0	0	12,742	927	965	334	0	0	0	**14,968**	**12,742**	**0**
Whale Tail WRSF Seepage	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overflow from WT ATT Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**60,649**	**19,372**	**20,015**	**16,907**	**0**	**0**	**0**	**116,943**	**60,649**	**0**
Evaporation	(m^3)	0	0	0	0	0	0	1	1	0	0	0	0	**3**	**1**	**0**
Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Seepage to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Quarry 1	(m^3)	0	0	0	0	0	60,649	0	0	0	0	0	0	**60,649**	**60,649**	**0**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	0	19,371	20,014	16,907	0	0	0	**56,292**	**20,014**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**60,649**	**19,372**	**20,015**	**16,907**	**0**	**0**	**0**	**116,944**	**80,664**	**0**
Net Inflow (m^3)		0	0	0	0	0	0	0	0	-1	0	0	0	**-1**	**0**	**-1**
End-of-Month Volume (m^3)		1	1	1	1	1	1	1	1	1	1	1	1	**12**	**1**	**1**
NORTH SECTOR																
Natural Rainfall Runoff	(m^3)	0	0	0	0	0	9,170	10,938	12,139	11,399	0	0	0	**43,646**	**12,139**	**0**
Natural SWE Runoff	(m^3)	0	0	0	0	0	17,430	0	0	0	0	0	0	**17,430**	**17,430**	**0**
Whale Tail WRSF Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail WRSF Seepage	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**26,600**	**10,938**	**12,139**	**11,399**	**0**	**0**	**0**	**61,076**	**29,569**	**0**
Evaporation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail (North Basin) / Whale Tail Attenuation Pond (Operations)	(m^3)	0	0	0	0	0	26,600	10,938	12,139	11,399	0	0	0	**61,076**	**26,600**	**0**
Whale Tail (North Basin) / Whale Tail Attenuation Pond (Closure)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**26,600**	**10,938**	**12,139**	**11,399**	**0**	**0**	**0**	**61,076**	**26,600**	**0**
Net Inflow (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**

		Year 2020														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Totals	Max. Monthly Totals	Min. Monthly Totals
No. of days		31	28	31	30	31	30	31	31	30	31	30	31			
WHALE TAIL PIT																
Land Runoff	(m^3)	0	0	0	0	0	14,588	30,834	34,221	32,133	0	0	0	**111,776**	**34,221**	**0**
Lake Runoff	(m^3)	0	0	0	0	0	0	36	43	40	0	0	0	**119**	**43**	**0**
Pit Wall Runoff	(m^3)	0	0	0	0	0	133,778	20,938	23,235	21,817	0	0	0	**199,768**	**133,778**	**0**
Groundwater	(m^3)	0	0	0	0	0	0	29,140	29,140	28,200	29,140	28,200	29,140	**172,960**	**29,140**	**0**
Drilling Water	(m^3)	3,105	2,900	3,100	3,000	3,100	3,000	3,100	3,100	3,000	3,100	3,000	3,100	**36,605**	**3,105**	**2,900**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
North Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overburden Runoff	(m^3)	0	0	0	0	0	2,017	830	921	864	0	0	0	**4,632**	**2,017**	**0**
WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
NE Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond Overflow	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
From WTS	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Drawdown from WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**3,105**	**2,900**	**3,100**	**3,000**	**3,100**	**153,383**	**84,877**	**90,660**	**86,055**	**32,240**	**31,200**	**32,240**	**525,860**	**202,304**	**2,900**
Evaporation	(m^3)	0	0	0	0	0	0	80	87	34	0	0	0	**201**	**87**	**0**
Ore Losses	(m^3)	3,105	2,900	3,100	3,000	3,100	14,339	15,659	16,068	15,798	11,880	10,073	12,166	**111,188**	**16,068**	**2,900**
Groundwater	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	0	61,138	74,504	70,224	20,360	21,128	20,074	**267,428**	**74,504**	**0**
Quarry 1	(m^3)	0	0	0	0	0	139,045	0	0	0	0	0	0	**139,045**	**139,045**	**0**
Total Outflow (m^3)		**3,105**	**2,900**	**3,100**	**3,000**	**3,100**	**153,384**	**76,877**	**90,659**	**86,056**	**32,240**	**31,201**	**32,240**	**517,862**	**229,704**	**2,900**
Net Inflow (m^3)		0	0	0	0	0	-1	8,000	0	-1	0	-1	0	**7,997**	**8,000**	**-1**
End-of-Month Volume (m^3)		1	1	1	1	1	1	8,000	8,000	8,000	8,000	8,000	8,000	**48,006**	**8,000**	**1**
WHALE TAIL LAKE (NORTH BASIN) & WHALE TAIL ATTENUATION POND																
Clean Area Runoff	(m^3)	0	0	0	0	0	53,553	21,760	23,854	22,124	0	0	0	**121,291**	**53,553**	**0**
Lakebed Sediment Runoff	(m^3)	0	0	0	0	0	35,657	14,662	16,273	15,280	0	0	0	**81,872**	**35,657**	**0**
Direct Precipitation	(m^3)	0	0	0	0	0	1,105	454	504	473	0	0	0	**2,537**	**1,105**	**0**
Whale Tail WRSF	(m^3)	0	0	0	0	0	0	19,371	20,014	16,907	0	0	0	**56,292**	**20,014**	**0**
Groundwater to Attn Pond	(m^3)	8,215	7,685	8,215	7,950	8,215	7,950	8,215	8,215	7,950	8,215	7,950	8,215	**96,990**	**8,215**	**7,685**
GW to WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Seepage Thru Dike	(m^3)	260,400	243,600	260,400	191,100	130,200	126,000	130,200	130,200	126,000	130,200	126,000	130,200	**1,984,500**	**260,400**	**126,000**
Dust Control	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	0	0	0	0	0	0	3,196	3,196	3,093	3,196	3,093	3,196	**18,970**	**3,196**	**0**
Camp Biodisk	(m^3)	2,418	2,262	2,418	2,340	2,418	2,340	2,418	2,418	2,340	2,418	2,340	2,418	**28,548**	**2,418**	**2,262**
Industrial Sector	(m^3)	0	0	0	0	0	0	3,815	4,234	3,976	0	0	0	**12,025**	**4,234**	**0**
Camp Sector Runoff	(m^3)	0	0	0	0	0	0	9,797	10,873	10,209	0	0	0	**30,879**	**10,873**	**0**
Ore Stockpile	(m^3)	0	0	0	0	0	0	3,215	3,568	3,351	0	0	0	**10,134**	**3,568**	**0**
Natural WT Pit Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
NPAG to Attn Pond	(m^3)	0	0	0	0	0	623	51	59	22	0	0	0	**756**	**623**	**0**
Northeast Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
A53	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
North Sector	(m^3)	0	0	0	0	0	26,600	10,938	12,139	11,399	0	0	0	**61,076**	**26,600**	**0**
Whale Tail Lake (South Basin)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Pit	(m^3)	0	0	0	0	0	0	61,138	74,504	70,224	20,360	21,128	20,074	**267,428**	**74,504**	**0**
Whale Tail Pit Sector Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Pumped from WTS to WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**271,033**	**253,547**	**271,033**	**201,390**	**140,833**	**253,828**	**289,231**	**310,052**	**293,349**	**164,389**	**160,511**	**164,103**	**2,773,298**	**504,960**	**135,947**
Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Dewatering to WT Lake (South) bypass C-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Dewatering to Mammoth through C-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
O-WTP	(m^3)	0	0	0	0	0	0	278,296	299,106	283,351	154,469	150,911	154,183	**1,320,316**	**299,106**	**0**
Seepage Water to WTS	(m^3)	262,734	244,267	261,113	191,790	130,913	244,138	0	0	0	0	0	0	**1,334,955**	**262,734**	**0**
Groundwater	(m^3)	9,920	9,280	9,920	9,600	9,920	9,600	9,920	9,920	9,600	9,920	9,600	9,920	**117,120**	**9,920**	**9,280**
Evaporation	(m^3)	0	0	0	0	0	89	1,015	1,026	397	0	0	0	**2,527**	**1,026**	**0**
Drawdown to WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WTN to Pits	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overflow to WT WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**272,654**	**253,547**	**271,033**	**201,390**	**140,833**	**253,827**	**289,231**	**310,052**	**293,348**	**164,389**	**160,511**	**164,103**	**2,774,918**	**572,786**	**9,280**
Net Inflow (m^3)		-1,621	0	0	0	0	0	0	0	1	0	0	0	**-1,621**	**1**	**-1,621**
End-of-Month Volume (m^3)		10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	**120,000**	**10,000**	**10,000**
WHALE TAIL LAKE (SOUTH BASIN)																
Rainfall Land Runoff	(m^3)	0	0	0	0	0	333,538	462,600	513,618	482,281	0	0	0	**1,792,037**	**513,618**	**0**
SWE Land Runoff	(m^3)	0	0	0	0	0	634,019	0	0	0	0	0	0	**634,019**	**634,019**	**0**
Rainfall Lake Runoff	(m^3)	0	0	0	0	0	162,582	173,672	192,543	180,795	0	0	0	**709,592**	**192,543**	**0**
SWE Lake Runoff	(m^3)	0	0	0	0	0	309,050	0	0	0	0	0	0	**309,050**	**309,050**	**0**
Lake A18	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Lake A53	(m^3)	0	0	0	0	0	109,362	42,322	48,670	55,198	0	0	0	**255,552**	**109,362**	**0**
Lake A55	(m^3)	0	0	0	0	0	71,472	0	0	0	0	0	0	**71,472**	**71,472**	**0**
Lake A60	(m^3)	0	0	0	0	0	228,066	51,939	61,974	82,394	0	0	0	**424,373**	**228,066**	**0**
Lake A62	(m^3)	0	0	0	0	0	35,066	0	0	0	0	0	0	**35,066**	**35,066**	**0**
Lake A65	(m^3)	0	0	0	0	0	11,807	0	0	0	0	0	0	**11,807**	**11,807**	**0**
Whale Tail Dike Seepage Well Pumpback	(m^3)	0	0	0	60,900	130,200	126,000	130,200	130,200	126,000	130,200	126,000	130,200	**1,089,900**	**130,200**	**0**
Whale Tail Lake (North Basin)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Discharge from O-WTP	(m^3)	279,979	244,267	261,113	195,850	131,053	240,221	24	0	0	0	0	0	**1,352,507**	**279,979**	**0**
Total Inflow (m^3)		**279,979**	**244,267**	**261,113**	**256,750**	**261,253**	**2,261,183**	**860,757**	**947,005**	**926,668**	**130,200**	**126,000**	**130,200**	**6,685,375**	**2,515,182**	**0**
Pumping to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater Infiltration	(m^3)	31,620	29,580	31,620	30,600	31,620	30,600	31,620	31,620	30,600	31,620	30,600	31,620	**373,320**	**31,620**	**29,580**
Camp Use	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Dust Control	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Drilling Water	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	38,141	388,234	391,737	151,640	0	0	0	**969,752**	**391,737**	**0**
Drawdown to Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overflow to Mammoth	(m^3)	0	0	0	0	0	4,052,000	215,248	523,648	744,427	98,580	95,400	98,580	**5,827,883**	**4,052,000**	**0**
To WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To WTPit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**31,620**	**29,580**	**31,620**	**30,600**	**31,620**	**4,120,741**	**635,102**	**947,005**	**926,667**	**130,200**	**126,000**	**130,200**	**7,170,955**	**4,475,357**	**29,580**
Net Inflow (m^3)		248,359	214,687	229,493	226,150	229,633	-1,859,558	225,655	0	1	0	0	0	**-485,580**	**248,359**	**-1,859,558**
End-of-Month Volume (m^3)		5,635,000	5,849,000	6,079,000	6,305,000	6,535,000	11,470,000	11,700,000	11,700,000	6,040,000	6,040,000	6,040,000	6,040,000	**89,433,000**	**11,700,000**	**5,635,000**
WATER TREATMENT																
Quarry 1	(m^3)	3,196	2,990	3,196	3,093	3,196	246,542	1,005	0	0	0	0	0	**263,218**	**246,542**	**0**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	0	278,296	299,106	283,351	154,469	150,911	154,183	**1,320,316**	**299,106**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Northeast Sector (TSS)	(m^3)	0	0	0	0	0	241,530	83,490	94,298	97,700	0	0	0	**517,018**	**241,530**	**0**
Whale Tail Lake (North Basin) (TSS)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond (seepage)	(m^3)	262,734	244,267	261,113	191,790	130,913	244,138	0	0	0	0	0	0	**1,334,955**	**262,734**	**0**
Total Inflow (m^3)		**265,930**	**247,257**	**264,309**	**194,883**	**134,109**	**732,210**	**362,791**	**393,404**	**381,051**	**154,469**	**150,911**	**154,183**	**3,435,507**	**1,049,912**	**0**
Bypass to Mammoth Lake	(m^3)	0	0	0	0	0	241,530	83,490	94,298	97,700	0	0	0	**517,018**	**241,530**	**0**
O-WTP to Mammoth Lake	(m^3)	3,196	2,990	3,196	3,093	3,196	246,542	279,301	299,106	283,351	154,469	150,911	154,183	**1,583,534**	**299,106**	**2,990**
O-WTP to Whale Tail Lake (South Basin)	(m^3)	262,734	244,267	261,113	191,790	130,913	244,138	0	0	0	0	0	0	**1,334,955**	**262,734**	**0**
Total Outflow (m^3)		**265,930**	**247,257**	**264,309**	**194,883**	**134,109**	**732,210**	**362,791**	**393,404**	**381,051**	**154,469**	**150,911**	**154,183**	**3,435,507**	**803,370**	**2,990**
Net Inflow (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume (m^3)																

		Year 2021														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Totals	Max. Monthly Totals	Min. Monthly Totals
No. of days		31	28	31	30	31	30	31	31	30	31	30	31			
QUARRY 1																
Direct Precipitation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Pit Wall	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Ore Stockpile	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Industrial Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Camp Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Drilling Water	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Untreated Discharge to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To Treatment	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Ore Losses	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Net Infloo	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
NORTHEAST SECTOR																
Lake A49	(m^3)	0	0	0	0	0	33,485	10,448	11,939	13,134	0	0	0	**69,006**	**33,485**	**0**
Rain Runoff	(m^3)	0	0	0	0	0	72,109	86,015	95,463	89,639	0	0	0	**343,226**	**95,463**	**0**
SWE Runoff	(m^3)	0	0	0	0	0	137,028	0	0	0	0	0	0	**137,028**	**137,028**	**0**
Total Inflow (m3)		**0**	**0**	**0**	**0**	**0**	**242,622**	**96,463**	**107,402**	**102,773**	**0**	**0**	**0**	**549,260**	**265,976**	**0**
Whale Tail Lake (North Basin) BaseLine	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Lake (North Basin) Ops	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Mammoth Lake	(m^3)	0	0	0	0	0	241,481	83,490	94,298	97,700	0	0	0	**516,969**	**241,481**	**0**
C Watershed	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	1,141	12,973	13,104	5,073	0	0	0	**32,291**	**13,104**	**0**
Total Outflow (m3)		**0**	**0**	**0**	**0**	**0**	**242,622**	**96,463**	**107,402**	**102,773**	**0**	**0**	**0**	**549,260**	**254,585**	**0**
Net Infloo (m3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume (m^3)		118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	**1,424,700**	**118,725**	**118,725**
WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM																
Natural Runoff	(m^3)	0	0	0	0	0	26,613	10,844	11,920	11,087	0	0	0	**60,464**	**26,613**	**0**
Direct Precipitation	(m^3)	0	0	0	0	0	1	0	1	0	0	0	0	**3**	**1**	**0**
Whale Tail WRSF Runoff	(m^3)	0	0	0	0	0	16,516	1,155	1,158	387	0	0	0	**19,216**	**16,516**	**0**
Whale Tail WRSF Seepage	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overflow from WT ATT Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**43,130**	**11,999**	**13,079**	**11,475**	**0**	**0**	**0**	**79,683**	**43,130**	**0**
Evaporation	(m^3)	0	0	0	0	0	0	1	1	0	0	0	0	**3**	**1**	**0**
Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Seepage to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Quarry 1	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	43,130	11,999	13,078	11,474	0	0	0	**79,681**	**43,130**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**43,130**	**12,000**	**13,079**	**11,474**	**0**	**0**	**0**	**79,684**	**43,131**	**0**
Net Inflow (m^3)		0	0	0	0	0	0	-1	-1	0	0	0	0	**-1**	**0**	**-1**
End-of-Month Volume (m^3)		1	1	1	1	1	1	1	1	1	1	1	1	**12**	**1**	**1**
NORTH SECTOR																
Natural Rainfall Runoff	(m^3)	0	0	0	0	0	9,170	10,938	12,139	11,399	0	0	0	**43,646**	**12,139**	**0**
Natural SWE Runoff	(m^3)	0	0	0	0	0	17,425	0	0	0	0	0	0	**17,425**	**17,425**	**0**
Whale Tail WRSF Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail WRSF Seepage	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**26,595**	**10,938**	**12,139**	**11,399**	**0**	**0**	**0**	**61,071**	**29,564**	**0**
Evaporation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail (North Basin) / Whale Tail Attenuation Pond (Operations)	(m^3)	0	0	0	0	0	26,594	10,938	12,139	11,399	0	0	0	**61,070**	**26,594**	**0**
Whale Tail (North Basin) / Whale Tail Attenuation Pond (Closure)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**26,594**	**10,938**	**12,139**	**11,399**	**0**	**0**	**0**	**61,070**	**26,594**	**0**
Net Inflow (m^3)		0	0	0	0	0	1	0	0	0	0	0	0	**1**	**1**	**0**
End-of-Month Volume (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**

		Year 2021															
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Totals	Max. Monthly Totals	Min. Monthly Totals
No. of days		31	28	31	30	31	30	31	31	30	31	30	31			
WHALE TAIL PIT																
Land Runoff	(m^3)	0	0	0	0	0	74,970	30,834	34,221	32,133	0	0	0	**172,158**	**74,970**	**0**
Lake Runoff	(m^3)	0	0	0	0	0	94	39	43	40	0	0	0	**216**	**94**	**0**
Pit Wall Runoff	(m^3)	0	0	0	0	0	50,902	20,935	23,235	21,817	0	0	0	**116,889**	**50,902**	**0**
Groundwater	(m^3)	21,080	19,040	21,080	20,400	21,080	20,400	21,080	21,080	20,400	21,080	20,400	21,080	**248,200**	**21,080**	**19,040**
Drilling Water	(m^3)	3,100	2,800	3,100	3,000	3,100	3,000	3,100	3,100	3,000	3,100	3,000	3,100	**36,500**	**3,100**	**2,800**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
North Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overburden Runoff	(m^3)	0	0	0	0	0	2,017	830	921	864	0	0	0	**4,632**	**2,017**	**0**
WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
NE Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond Overflow	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
From WTS	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Drawdown from WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**24,180**	**21,840**	**24,180**	**23,400**	**24,180**	**151,383**	**76,817**	**82,600**	**78,255**	**24,180**	**23,400**	**24,180**	**578,594**	**152,163**	**21,840**
Evaporation	(m^3)	0	0	0	0	0	0	80	87	34	0	0	0	**201**	**87**	**0**
Ore Losses	(m^3)	3,105	2,900	3,100	3,000	3,100	14,339	15,659	16,068	15,798	11,880	10,073	12,166	**111,188**	**16,068**	**2,900**
Groundwater	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	0	61,138	74,504	70,224	20,360	21,128	20,074	**267,428**	**74,504**	**0**
Quarry 1	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**3,105**	**2,900**	**3,100**	**3,000**	**3,100**	**14,339**	**76,877**	**90,659**	**86,056**	**32,240**	**31,201**	**32,240**	**378,817**	**90,659**	**2,900**
Net Inflow (m^3)		21,075	18,940	21,080	20,400	21,080	137,044	-60	-8,060	-7,801	-8,060	-7,801	-8,060	**199,777**	**137,044**	**-8,060**
End-of-Month Volume (m^3)		8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	**96,000**	**8,000**	**8,000**
WHALE TAIL LAKE (NORTH BASIN) & WHALE TAIL ATTENUATION POND																
Clean Area Runoff	(m^3)	0	0	0	0	0	49,388	20,313	22,544	21,168	0	0	0	**113,413**	**49,388**	**0**
Lakebed Sediment Runoff	(m^3)	0	0	0	0	0	35,650	14,662	16,273	15,280	0	0	0	**81,865**	**35,650**	**0**
Direct Precipitation	(m^3)	0	0	0	0	0	1,105	454	504	473	0	0	0	**2,537**	**1,105**	**0**
Whale Tail WRSF	(m^3)	0	0	0	0	0	43,130	11,999	13,078	11,474	0	0	0	**79,681**	**43,130**	**0**
Groundwater to Attn Pond	(m^3)	3,875	3,500	3,875	3,750	3,875	3,750	3,875	3,875	3,750	3,875	3,750	3,875	**45,625**	**3,875**	**3,500**
GW to WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Seepage Thru Dike	(m^3)	130,200	117,600	130,200	126,000	130,200	126,000	130,200	130,200	126,000	130,200	126,000	130,200	**1,533,000**	**130,200**	**117,600**
Dust Control	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	3,196	2,887	3,196	3,093	3,196	3,093	3,196	3,196	3,093	3,196	3,093	3,196	**37,631**	**3,196**	**2,887**
Camp Biodisk	(m^3)	2,418	2,184	2,418	2,340	2,418	2,340	2,418	2,418	2,340	2,418	2,340	2,418	**28,470**	**2,418**	**2,184**
Industrial Sector	(m^3)	0	0	0	0	0	4,696	1,931	2,144	2,013	0	0	0	**10,784**	**4,696**	**0**
Camp Sector Runoff	(m^3)	0	0	0	0	0	23,820	9,797	10,873	10,209	0	0	0	**54,699**	**23,820**	**0**
Ore Stockpile	(m^3)	0	0	0	0	0	12,397	5,099	5,659	5,314	0	0	0	**28,469**	**12,397**	**0**
Natural WT Pit Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
NPAG to Attn Pond	(m^3)	0	0	0	0	0	1,359	95	95	32	0	0	0	**1,580**	**1,359**	**0**
Northeast Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
A53	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
North Sector	(m^3)	0	0	0	0	0	26,594	10,938	12,139	11,399	0	0	0	**61,070**	**26,594**	**0**
Whale Tail Lake (South Basin)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Pit	(m^3)	13,396	13,702	15,125	13,690	15,228	139,388	66,865	71,454	68,636	18,808	17,086	20,361	**473,739**	**139,388**	**13,396**
Whale Tail Pit Sector Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Pumped from WTS to WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**153,085**	**139,873**	**154,814**	**148,873**	**154,917**	**472,710**	**281,842**	**294,452**	**281,181**	**158,497**	**152,269**	**160,050**	**2,552,563**	**477,216**	**139,567**
Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Dewatering to WT Lake (South) bypass C-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Dewatering to Mammoth through C-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
O-WTP	(m^3)	139,755	127,833	141,484	135,973	141,587	459,722	267,497	280,096	267,884	145,167	139,369	146,720	**2,393,087**	**459,722**	**127,833**
Seepage Water to WTS	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater	(m^3)	13,330	12,040	13,330	12,900	13,330	12,900	13,330	13,330	12,900	13,330	12,900	13,330	**156,950**	**13,330**	**12,040**
Evaporation	(m^3)	0	0	0	0	0	89	1,015	1,026	397	0	0	0	**2,527**	**1,026**	**0**
Drawdown to WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WTN to Pits	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overflow to WT WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**153,085**	**139,873**	**154,814**	**148,873**	**154,917**	**472,711**	**281,842**	**294,452**	**281,181**	**158,497**	**152,269**	**160,050**	**2,552,564**	**474,078**	**139,873**
Net Inflow (m^3)		0	0	0	0	0	-1	0	0	0	0	0	0	**-1**	**0**	**-1**
End-of-Month Volume (m^3)		10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	**120,000**	**10,000**	**10,000**
WHALE TAIL LAKE (SOUTH BASIN)																
Rainfall Land Runoff	(m^3)	0	0	0	0	0	302,040	462,785	513,618	482,281	0	0	0	**1,760,724**	**513,618**	**0**
SWE Land Runoff	(m^3)	0	0	0	0	0	573,968	0	0	0	0	0	0	**573,968**	**573,968**	**0**
Rainfall Lake Runoff	(m^3)	0	0	0	0	0	145,469	173,487	192,543	180,795	0	0	0	**692,294**	**192,543**	**0**
SWE Lake Runoff	(m^3)	0	0	0	0	0	276,436	0	0	0	0	0	0	**276,436**	**276,436**	**0**
Lake A18	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Lake A53	(m^3)	0	0	0	0	0	142,824	42,322	48,670	55,198	0	0	0	**289,014**	**142,824**	**0**
Lake A55	(m^3)	0	0	0	0	0	142,915	0	0	0	0	0	0	**142,915**	**142,915**	**0**
Lake A60	(m^3)	0	0	0	0	0	228,019	51,939	61,974	82,394	0	0	0	**424,326**	**228,019**	**0**
Lake A62	(m^3)	0	0	0	0	0	50,849	0	0	0	0	0	0	**50,849**	**50,849**	**0**
Lake A65	(m^3)	0	0	0	0	0	47,220	0	0	0	0	0	0	**47,220**	**47,220**	**0**
Whale Tail Dike Seepage Well Pumpback	(m^3)	130,200	117,600	130,200	126,000	130,200	126,000	130,200	130,200	126,000	130,200	126,000	130,200	**1,533,000**	**130,200**	**117,600**
Whale Tail Lake (North Basin)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Discharge from O-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**130,200**	**117,600**	**130,200**	**126,000**	**130,200**	**2,035,740**	**860,733**	**947,005**	**926,668**	**130,200**	**126,000**	**130,200**	**5,790,746**	**2,298,592**	**117,600**
Pumping to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater Infiltration	(m^3)	31,620	28,560	31,620	30,600	31,620	30,600	31,620	31,620	30,600	31,620	30,600	31,620	**372,300**	**31,620**	**28,560**
Camp Use	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Dust Control	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Drilling Water	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	34,126	387,820	391,737	151,640	0	0	0	**965,323**	**391,737**	**0**
Drawdown to Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overflow to Mammoth	(m^3)	98,580	89,040	98,580	95,400	98,580	1,971,000	441,017	523,648	744,427	98,580	95,400	98,580	**4,452,832**	**1,971,000**	**89,040**
To WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To WTPit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**130,200**	**117,600**	**130,200**	**126,000**	**130,200**	**2,035,726**	**860,457**	**947,005**	**926,667**	**130,200**	**126,000**	**130,200**	**5,790,455**	**2,394,357**	**117,600**
Net Inflow (m^3)		0	0	0	0	0	14	276	0	1	0	0	0	**291**	**276**	**0**
End-of-Month Volume (m^3)		6,040,000	6,040,000	6,040,000	6,040,000	6,040,000	11,700,000	11,700,000	11,700,000	6,040,000	6,040,000	6,040,000	6,040,000	**89,460,000**	**11,700,000**	**6,040,000**
WATER TREATMENT																
Quarry 1	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond	(m^3)	139,755	127,833	141,484	135,973	141,587	459,722	267,497	280,096	267,884	145,167	139,369	146,720	**2,393,087**	**459,722**	**127,833**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Northeast Sector (TSS)	(m^3)	0	0	0	0	0	241,481	83,490	94,298	97,700	0	0	0	**516,969**	**241,481**	**0**
Whale Tail Lake (North Basin) (TSS)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond (seepage)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**139,755**	**127,833**	**141,484**	**135,973**	**141,587**	**701,203**	**350,987**	**374,394**	**365,584**	**145,167**	**139,369**	**146,720**	**2,910,056**	**701,203**	**127,833**
Bypass to Mammoth Lake	(m^3)	0	0	0	0	0	241,481	83,490	94,298	97,700	0	0	0	**516,969**	**241,481**	**0**
O-WTP to Mammoth Lake	(m^3)	139,755	127,833	141,484	135,973	141,587	459,722	267,497	280,096	267,884	145,167	139,369	146,720	**2,393,087**	**459,722**	**127,833**
O-WTP to Whale Tail Lake (South Basin)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**139,755**	**127,833**	**141,484**	**135,973**	**141,587**	**701,203**	**350,987**	**374,394**	**365,584**	**145,167**	**139,369**	**146,720**	**2,910,056**	**701,203**	**383,499**
Net Inflow (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume (m^3)																

		Year 2022														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Totals	Max. Monthly Totals	Min. Monthly Totals
No. of days		**31**	**28**	**31**	**30**	**31**	**30**	**31**	**31**	**30**	**31**	**30**	**31**			
QUARRY 1																
Direct Precipitation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Pit Wall	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Ore Stockpile	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Industrial Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Camp Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Drilling Water	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Untreated Discharge to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To Treatment	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Ore Losses	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Net Inflow	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
NORTHEAST SECTOR																
Lake A49	(m^3)	0	0	0	0	0	33,485	10,448	11,939	13,134	0	0	0	**69,006**	**33,485**	**0**
Rain Runoff	(m^3)	0	0	0	0	0	72,109	86,015	95,463	89,639	0	0	0	**343,226**	**95,463**	**0**
SWE Runoff	(m^3)	0	0	0	0	0	137,028	0	0	0	0	0	0	**137,028**	**137,028**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**242,622**	**96,463**	**107,402**	**102,773**	**0**	**0**	**0**	**1,703,581**	**1,420,297**	**1,154,321**
Whale Tail Lake (North Basin) BaseLine	(m^3)	0	0	0	0	0	0	0	91,256	97,700	0	0	0	**188,956**	**97,700**	**0**
Whale Tail Lake (North Basin) Ops	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Mammoth Lake	(m^3)	0	0	0	0	0	241,481	83,490	0	0	0	0	0	**324,971**	**241,481**	**0**
C Watershed	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	1,141	12,973	13,104	5,073	0	0	0	**32,291**	**13,104**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**242,622**	**96,463**	**104,360**	**102,773**	**0**	**0**	**0**	**1,786,848**	**1,495,215**	**1,142,930**
Net Inflow (m^3)		0	0	0	0	0	0	0	3,042	0	0	0	0	**3,042**	**3,042**	**0**
End-of-Month Volume (m^3)		118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	**1,424,700**	**118,725**	**118,725**
WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM																
Natural Runoff	(m^3)	0	0	0	0	0	25,003	10,283	11,413	10,717	0	0	0	**57,416**	**25,003**	**0**
Direct Precipitation	(m^3)	0	0	0	0	0	1	0	1	0	0	0	0	**3**	**1**	**0**
Whale Tail WRSF Runoff	(m^3)	0	0	0	0	0	16,801	1,172	1,172	391	0	0	0	**19,536**	**16,801**	**0**
Whale Tail WRSF Seepage	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overflow from WT ATT Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**41,805**	**11,455**	**12,586**	**11,108**	**0**	**0**	**0**	**251,703**	**218,163**	**176,358**
Evaporation	(m^3)	0	0	0	0	0	0	1	1	0	0	0	0	**3**	**1**	**0**
Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Seepage to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Quarry 1	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	41,806	11,455	0	0	0	0	0	**53,261**	**41,806**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	12,585	11,107	0	0	0	**23,692**	**12,585**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**41,806**	**11,456**	**12,586**	**11,107**	**0**	**0**	**0**	**264,293**	**230,469**	**176,077**
Net Inflow (m^3)		0	0	0	0	0	-1	-1	-1	1	0	0	0	**-1**	**1**	**-1**
End-of-Month Volume (m^3)		1	1	1	1	1	1	1	1	1	1	1	1	**12**	**1**	**1**
NORTH SECTOR																
Natural Rainfall Runoff	(m^3)	0	0	0	0	0	9,170	10,938	12,139	11,399	0	0	0	**43,646**	**12,139**	**0**
Natural SWE Runoff	(m^3)	0	0	0	0	0	17,425	0	0	0	0	0	0	**17,425**	**17,425**	**0**
Whale Tail WRSF Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail WRSF Seepage	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**26,595**	**10,938**	**12,139**	**11,399**	**0**	**0**	**0**	**189,239**	**157,732**	**128,168**
Evaporation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail (North Basin) / Whale Tail Attenuation Pond (Operations)	(m^3)	0	0	0	0	0	26,594	10,938	0	0	0	0	0	**37,532**	**26,594**	**0**
Whale Tail (North Basin) / Whale Tail Attenuation Pond (Closure)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	12,139	11,399	0	0	0	**23,538**	**12,139**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**26,594**	**10,938**	**12,139**	**11,399**	**0**	**0**	**0**	**198,405**	**163,929**	**125,196**
Net Inflow (m^3)		0	0	0	0	0	1	0	0	0	0	0	0	**1**	**1**	**0**
End-of-Month Volume (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**

		Year 2022														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Totals	Max. Monthly Totals	Min. Monthly Totals
No. of days		**31**	**28**	**31**	**30**	**31**	**30**	**31**	**31**	**30**	**31**	**30**	**31**			
WHALE TAIL PIT																
Land Runoff	(m^3)	0	0	0	0	0	74,970	30,834	34,221	32,133	0	0	0	**172,158**	**74,970**	**0**
Lake Runoff	(m^3)	0	0	0	0	0	94	39	2,670	5,927	0	0	0	**8,730**	**5,927**	**0**
Pit Wall Runoff	(m^3)	0	0	0	0	0	50,902	20,935	20,608	15,930	0	0	0	**108,375**	**50,902**	**0**
Groundwater	(m^3)	20,925	18,900	20,925	20,250	20,925	20,250	20,925	19,142	18,184	18,689	18,084	18,684	**235,883**	**20,925**	**18,084**
Drilling Water	(m^3)	3,100	2,800	3,100	3,000	3,100	3,000	3,100	0	0	0	0	0	**21,200**	**3,100**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	6,777	6,576	0	0	0	**13,353**	**6,777**	**0**
North Sector	(m^3)	0	0	0	0	0	0	0	12,139	11,399	0	0	0	**23,538**	**12,139**	**0**
Overburden Runoff	(m^3)	0	0	0	0	0	2,017	830	921	864	0	0	0	**4,632**	**2,017**	**0**
WRSF	(m^3)	0	0	0	0	0	0	0	12,585	11,107	0	0	0	**23,692**	**12,585**	**0**
NE Sector	(m^3)	0	0	0	0	0	0	0	91,256	97,700	0	0	0	**188,956**	**97,700**	**0**
Whale Tail Attenuation Pond Overflow	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
From WTS	(m^3)	0	0	0	0	0	0	0	1,395,000	1,350,000	0	0	0	**2,745,000**	**1,395,000**	**0**
Drawdown from WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**24,025**	**21,700**	**24,025**	**23,250**	**24,025**	**151,233**	**76,662**	**1,595,319**	**1,549,820**	**18,689**	**18,084**	**18,684**	**6,169,157**	**2,775,804**	**1,115,462**
Evaporation	(m^3)	0	0	0	0	0	8	86	5,432	4,971	0	0	0	**10,497**	**5,432**	**0**
Ore Losses	(m^3)	5,380	4,859	5,380	4,800	4,960	4,800	6,493	0	0	0	0	0	**36,672**	**6,493**	**0**
Groundwater	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond	(m^3)	18,645	16,841	18,645	18,450	19,065	146,425	70,083	0	0	0	0	0	**308,154**	**146,425**	**0**
Quarry 1	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**24,025**	**21,700**	**24,025**	**23,250**	**24,025**	**151,233**	**76,662**	**5,432**	**4,971**	**0**	**0**	**0**	**1,237,411**	**1,044,668**	**889,218**
Net Inflow (m^3)		0	0	0	0	0	0	0	1,589,887	1,544,849	18,689	18,084	18,684	**3,190,193**	**1,589,887**	**0**
End-of-Month Volume (m^3)		8,000	8,000	8,000	8,000	8,000	8,000	8,000	1,598,000	3,143,000	3,161,000	3,180,000	3,198,000	**14,336,000**	**3,198,000**	**8,000**
WHALE TAIL LAKE (NORTH BASIN) & WHALE TAIL ATTENUATION POND																
Clean Area Runoff	(m^3)	0	0	0	0	0	44,858	18,109	19,713	18,154	0	0	0	**100,834**	**44,858**	**0**
Lakebed Sediment Runoff	(m^3)	0	0	0	0	0	35,650	14,662	15,800	13,895	0	0	0	**80,007**	**35,650**	**0**
Direct Precipitation	(m^3)	0	0	0	0	0	1,105	454	977	1,858	0	0	0	**4,394**	**1,858**	**0**
Whale Tail WRSF	(m^3)	0	0	0	0	0	41,806	11,455	0	0	0	0	0	**53,261**	**41,806**	**0**
Groundwater to Attn Pond	(m^3)	3,720	3,360	3,720	3,600	3,720	3,600	3,600	3,662	3,515	3,624	3,507	3,624	**43,252**	**3,720**	**3,360**
GW to WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Seepage Thru Dike	(m^3)	130,200	117,600	130,200	126,000	130,200	126,000	193,201	13,988	12,343	12,401	11,993	12,386	**1,016,512**	**193,201**	**11,993**
Dust Control	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	3,196	2,887	3,196	3,093	3,196	3,093	3,196	0	0	0	0	0	**21,857**	**3,196**	**0**
Camp Biodisk	(m^3)	2,418	2,184	2,418	2,340	2,418	2,340	2,418	372	360	372	360	372	**18,372**	**2,418**	**360**
Industrial Sector	(m^3)	0	0	0	0	0	4,696	1,931	7,459	7,004	0	0	0	**21,090**	**7,459**	**0**
Camp Sector Runoff	(m^3)	0	0	0	0	0	23,820	9,797	10,873	10,209	0	0	0	**54,699**	**23,820**	**0**
Ore Stockpile	(m^3)	0	0	0	0	0	12,397	5,099	0	0	0	0	0	**17,496**	**12,397**	**0**
Natural WT Pit Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
NPAG to Attn Pond	(m^3)	0	0	0	0	0	2,163	161	4,431	4,410	0	0	0	**11,165**	**4,431**	**0**
Northeast Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
A53	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
North Sector	(m^3)	0	0	0	0	0	26,594	10,938	0	0	0	0	0	**37,532**	**26,594**	**0**
Whale Tail Lake (South Basin)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Pit	(m^3)	18,645	16,841	18,645	18,450	19,065	146,425	70,083	0	0	0	0	0	**308,154**	**146,425**	**0**
Whale Tail Pit Sector Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Pumped from WTS to WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**158,179**	**142,872**	**158,179**	**153,483**	**158,599**	**474,547**	**345,104**	**77,275**	**71,748**	**16,397**	**15,860**	**16,382**	**6,495,698**	**5,255,131**	**4,846,725**
Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Dewatering to WT Lake (South) bypass C-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Dewatering to Mammoth through C-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
O-WTP	(m^3)	144,849	130,832	144,849	140,583	145,269	461,557	330,759	0	0	0	0	0	**1,498,698**	**461,557**	**0**
Seepage Water to WTS	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater	(m^3)	13,330	12,040	13,330	12,900	13,330	12,900	13,330	12,923	12,307	12,658	12,249	12,656	**153,953**	**13,330**	**12,040**
Evaporation	(m^3)	0	0	0	0	0	89	1,015	1,988	1,559	0	0	0	**4,651**	**1,988**	**0**
Drawdown to WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WTN to Pits	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overflow to WT WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**158,179**	**142,872**	**158,179**	**153,483**	**158,599**	**474,546**	**345,104**	**14,911**	**13,866**	**12,658**	**12,249**	**12,656**	**6,289,744**	**5,108,355**	**4,771,353**
Net Inflow (m^3)		0	0	0	0	0	1	0	62,364	57,882	3,739	3,611	3,726	**131,323**	**62,364**	**0**
End-of-Month Volume (m^3)		10,000	10,000	10,000	10,000	10,000	10,000	10,000	72,364	130,247	133,985	137,597	141,322	**685,515**	**141,322**	**10,000**
WHALE TAIL LAKE (SOUTH BASIN)																
Rainfall Land Runoff	(m^3)	0	0	0	0	0	302,040	462,785	512,738	489,214	0	0	0	**1,766,777**	**512,738**	**0**
SWE Land Runoff	(m^3)	0	0	0	0	0	573,968	0	0	0	0	0	0	**573,968**	**573,968**	**0**
Rainfall Lake Runoff	(m^3)	0	0	0	0	0	145,469	173,487	193,424	173,862	0	0	0	**686,242**	**193,424**	**0**
SWE Lake Runoff	(m^3)	0	0	0	0	0	276,436	0	0	0	0	0	0	**276,436**	**276,436**	**0**
Lake A18	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Lake A53	(m^3)	0	0	0	0	0	142,824	42,322	48,670	55,198	0	0	0	**289,014**	**142,824**	**0**
Lake A55	(m^3)	0	0	0	0	0	142,915	0	0	0	0	0	0	**142,915**	**142,915**	**0**
Lake A60	(m^3)	0	0	0	0	0	228,019	51,939	61,974	82,394	0	0	0	**424,326**	**228,019**	**0**
Lake A62	(m^3)	0	0	0	0	0	50,849	0	0	0	0	0	0	**50,849**	**50,849**	**0**
Lake A65	(m^3)	0	0	0	0	0	47,220	0	0	0	0	0	0	**47,220**	**47,220**	**0**
Whale Tail Dike Seepage Well Pumpback	(m^3)	130,200	117,600	130,200	126,000	130,200	126,000	67,199	0	0	0	0	0	**827,399**	**130,200**	**0**
Whale Tail Lake (North Basin)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Discharge from O-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**130,200**	**117,600**	**130,200**	**126,000**	**130,200**	**2,035,740**	**797,732**	**816,806**	**800,668**	**0**	**0**	**0**	**16,642,157**	**13,855,603**	**11,624,209**
Pumping to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0			
Groundwater Infiltration	(m^3)	31,620	28,560	31,620	30,600	31,620	30,600	31,620	17,941	17,192	17,714	17,142	17,712			
Camp Use	(m^3)	0	0	0	0	0	0	0	372	360	372	360	372	1,836	372	0
Dust Control	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Drilling Water	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	34,126	387,820	393,529	145,825	0	0	0	**961,300**	**393,529**	**0**
Drawdown to Pit	(m^3)	0	0	0	0	0	0	0	1,395,000	1,350,000	0	0	0	**2,745,000**	**1,395,000**	**0**
Overflow to Mammoth	(m^3)	98,580	89,040	98,580	95,400	98,580	1,971,000	378,177	0	0	0	0	0	**2,829,357**	**1,971,000**	**0**
To WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To WTPit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**130,200**	**117,600**	**130,200**	**126,000**	**130,200**	**2,035,726**	**797,617**	**1,806,842**	**1,513,377**	**18,086**	**17,502**	**18,084**	**6,537,493**	**3,759,901**	**0**
Net Inflow (m^3)		0	0	0	0	0	14	115	-990,036	-712,709	-18,086	-17,502	-18,084	**-1,756,288**	**115**	**-990,036**
End-of-Month Volume (m^3)		6,040,000	6,040,000	6,040,000	6,040,000	6,040,000	11,700,000	11,700,000	10,710,000	5,581,000	5,563,000	5,545,000	5,527,000	**86,526,000**	**11,700,000**	**5,527,000**
WATER TREATMENT																
Quarry 1	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond	(m^3)	144,849	130,832	144,849	140,583	145,269	461,557	330,759	0	0	0	0	0	**1,498,698**	**461,557**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Northeast Sector (TSS)	(m^3)	0	0	0	0	0	241,481	83,490	0	0	0	0	0	**324,971**	**241,481**	**0**
Whale Tail Lake (North Basin) (TSS)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond (seepage)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**144,849**	**130,832**	**144,849**	**140,583**	**145,269**	**703,038**	**414,249**	**0**	**0**	**0**	**0**	**0**	**7,260,432**	**6,139,801**	**5,564,596**
Bypass to Mammoth Lake	(m^3)	0	0	0	0	0	241,481	83,490	0	0	0	0	0	**324,971**	**241,481**	**0**
O-WTP to Mammoth Lake	(m^3)	144,849	130,832	144,849	140,583	145,269	461,557	330,759	0	0	0	0	0	**1,498,698**	**461,557**	**0**
O-WTP to Whale Tail Lake (South Basin)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**144,849**	**130,832**	**144,849**	**140,583**	**145,269**	**703,038**	**414,249**	**0**	**0**	**0**	**0**	**0**	**7,260,432**	**6,139,801**	**22,258,384**
Net Inflow (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume (m^3)																

		Year 2023														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Totals	Max. Monthly Totals	Min. Monthly Totals
No. of days		**31**	**28**	**31**	**30**	**31**	**30**	**31**	**31**	**30**	**31**	**30**	**31**			
QUARRY 1																
Direct Precipitation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Pit Wall	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Ore Stockpile	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Industrial Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Camp Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Drilling Water	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Untreated Discharge to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To Treatment	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Ore Losses	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Net Inflow	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
NORTHEAST SECTOR																
Lake A49	(m^3)	0	0	0	0	0	33,485	10,448	11,939	13,134	0	0	0	**69,006**	**33,485**	**0**
Rain Runoff	(m^3)	0	0	0	0	0	72,109	86,015	95,463	89,639	0	0	0	**343,226**	**95,463**	**0**
SWE Runoff	(m^3)	0	0	0	0	0	137,028	0	0	0	0	0	0	**137,028**	**137,028**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**242,622**	**96,463**	**107,402**	**102,773**	**0**	**0**	**0**	**549,260**	**265,976**	**0**
Whale Tail Lake (North Basin) BaseLine	(m^3)	0	0	0	0	0	241,481	83,490	94,298	97,700	0	0	0	**516,969**	**241,481**	**0**
Whale Tail Lake (North Basin) Ops	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
C Watershed	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	1,141	12,973	13,104	5,073	0	0	0	**32,291**	**13,104**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**242,622**	**96,463**	**107,402**	**102,773**	**0**	**0**	**0**	**549,260**	**254,585**	**0**
Net Inflow (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume (m^3)		118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	**1,424,700**	**118,725**	**118,725**
WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM																
Natural Runoff	(m^3)	0	0	0	0	0	25,003	10,283	11,413	10,717	0	0	0	**57,416**	**25,003**	**0**
Direct Precipitation	(m^3)	0	0	0	0	0	1	0	1	0	0	0	0	**3**	**1**	**0**
Whale Tail WRSF Runoff	(m^3)	0	0	0	0	0	16,801	1,172	1,172	391	0	0	0	**19,536**	**16,801**	**0**
Whale Tail WRSF Seepage	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overflow from WT ATT Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**41,805**	**11,455**	**12,586**	**11,108**	**0**	**0**	**0**	**76,954**	**41,805**	**0**
Evaporation	(m^3)	0	0	0	0	0	0	1	1	0	0	0	0	**3**	**1**	**0**
Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Seepage to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Quarry 1	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	41,806	11,455	12,585	11,107	0	0	0	**76,953**	**41,806**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**41,806**	**11,456**	**12,586**	**11,107**	**0**	**0**	**0**	**76,956**	**41,807**	**0**
Net Inflow (m^3)		0	0	0	0	0	-1	-1	-1	1	0	0	0	**-1**	**1**	**-1**
End-of-Month Volume (m^3)		1	1	1	1	1	1	1	1	1	1	1	1	**12**	**1**	**1**
NORTH SECTOR																
Natural Rainfall Runoff	(m^3)	0	0	0	0	0	9,170	10,938	12,139	11,399	0	0	0	**43,646**	**12,139**	**0**
Natural SWE Runoff	(m^3)	0	0	0	0	0	17,425	0	0	0	0	0	0	**17,425**	**17,425**	**0**
Whale Tail WRSF Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail WRSF Seepage	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**26,595**	**10,938**	**12,139**	**11,399**	**0**	**0**	**0**	**61,071**	**29,564**	**0**
Evaporation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail (North Basin) / Whale Tail Attenuation Pond (Operations)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail (North Basin) / Whale Tail Attenuation Pond (Closure)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	26,594	10,938	12,139	11,399	0	0	0	**61,070**	**26,594**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**26,594**	**10,938**	**12,139**	**11,399**	**0**	**0**	**0**	**61,070**	**26,594**	**0**
Net Inflow (m^3)		0	0	0	0	0	1	0	0	0	0	0	0	**1**	**1**	**0**
End-of-Month Volume (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**

		Year 2023														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Totals	Max. Monthly Totals	Min. Monthly Totals
No. of days		**31**	**28**	**31**	**30**	**31**	**30**	**31**	**31**	**30**	**31**	**30**	**31**			
WHALE TAIL PIT																
Land Runoff	(m^3)	0	0	0	0	0	74,970	30,834	34,221	32,133	0	0	0	**172,158**	**74,970**	**0**
Lake Runoff	(m^3)	0	0	0	0	0	19,291	9,490	11,988	12,112	0	0	0	**52,881**	**19,291**	**0**
Pit Wall Runoff	(m^3)	0	0	0	0	0	31,705	11,484	11,290	9,745	0	0	0	**64,224**	**31,705**	**0**
Groundwater	(m^3)	18,682	16,872	18,678	18,074	18,674	17,992	18,447	18,321	17,638	18,178	17,591	18,176	**217,323**	**18,682**	**16,872**
Drilling Water	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	15,343	6,310	7,003	6,576	0	0	0	**35,232**	**15,343**	**0**
North Sector	(m^3)	0	0	0	0	0	26,594	10,938	12,139	11,399	0	0	0	**61,070**	**26,594**	**0**
Overburden Runoff	(m^3)	0	0	0	0	0	2,017	830	921	864	0	0	0	**4,632**	**2,017**	**0**
WRSF	(m^3)	0	0	0	0	0	41,806	11,455	12,585	11,107	0	0	0	**76,953**	**41,806**	**0**
NE Sector	(m^3)	0	0	0	0	0	241,481	83,490	94,298	97,700	0	0	0	**516,969**	**241,481**	**0**
Whale Tail Attenuation Pond Overflow	(m^3)	0	0	0	0	0	0	0	46,468	52,739	3,895	2,132	2,200	**107,434**	**52,739**	**0**
From WTS	(m^3)	0	0	0	0	0	1,350,000	1,395,000	1,395,000	1,350,000	0	0	0	**5,490,000**	**1,395,000**	**0**
Drawdown from WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**18,682**	**16,872**	**18,678**	**18,074**	**18,674**	**1,821,199**	**1,578,278**	**1,644,234**	**1,602,013**	**22,073**	**19,723**	**20,376**	**6,798,876**	**1,919,628**	**16,872**
Evaporation	(m^3)	0	0	0	0	0	1,560	21,214	24,390	10,159	0	0	0	**57,323**	**24,390**	**0**
Ore Losses	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Quarry 1	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**1,560**	**21,214**	**24,390**	**10,159**	**0**	**0**	**0**	**57,323**	**24,390**	**0**
Net Inflow (m^3)		18,682	16,872	18,678	18,074	18,674	1,819,639	1,557,064	1,619,844	1,591,854	22,073	19,723	20,376	**6,741,553**	**1,819,639**	**16,872**
End-of-Month Volume (m^3)		3,217,000	3,234,000	3,252,000	3,270,000	3,289,000	5,109,000	6,666,000	8,286,000	9,878,000	9,900,000	9,919,000	9,940,000	**75,960,000**	**9,940,000**	**3,217,000**
WHALE TAIL LAKE (NORTH BASIN) & WHALE TAIL ATTENUATION POND																
Clean Area Runoff	(m^3)	0	0	0	0	0	39,459	16,229	18,012	16,913	0	0	0	**90,613**	**39,459**	**0**
Lakebed Sediment Runoff	(m^3)	0	0	0	0	0	29,363	10,385	11,026	10,353	0	0	0	**61,127**	**29,363**	**0**
Direct Precipitation	(m^3)	0	0	0	0	0	7,392	4,731	5,751	5,401	0	0	0	**23,275**	**7,392**	**0**
Whale Tail WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater to Attn Pond	(m^3)	3,624	3,273	3,623	3,506	3,623	3,499	3,604	3,593	3,470	3,582	3,466	3,581	**42,444**	**3,624**	**3,273**
GW to WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Seepage Thru Dike	(m^3)	12,378	11,174	12,363	11,957	12,348	11,671	11,554	11,113	10,433	10,614	10,268	10,606	**136,479**	**12,378**	**10,268**
Dust Control	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Camp Biodisk	(m^3)	372	336	372	360	372	360	372	372	360	372	360	372	**4,380**	**372**	**336**
Industrial Sector	(m^3)	0	0	0	0	0	23,820	9,797	10,873	10,209	0	0	0	**54,699**	**23,820**	**0**
Camp Sector Runoff	(m^3)	0	0	0	0	0	23,820	9,797	10,873	10,209	0	0	0	**54,699**	**23,820**	**0**
Ore Stockpile	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Natural WT Pit Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
NPAG to Attn Pond	(m^3)	0	0	0	0	0	12,317	5,066	5,622	5,279	0	0	0	**28,284**	**12,317**	**0**
Northeast Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
A53	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
North Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Lake (South Basin)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Pit Sector Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Pumped from WTS to WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**16,374**	**14,783**	**16,358**	**15,823**	**16,343**	**151,701**	**71,535**	**77,235**	**72,627**	**14,568**	**14,094**	**14,559**	**496,000**	**152,545**	**13,877**
Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Dewatering to WT Lake (South) bypass C-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Dewatering to Mammoth through C-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
O-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Seepage Water to WTS	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater	(m^3)	12,655	11,429	12,652	12,243	12,650	12,195	12,517	12,444	11,989	12,361	11,961	12,359	**147,455**	**12,655**	**11,429**
Evaporation	(m^3)	0	0	0	0	0	598	10,576	11,700	4,530	0	0	0	**27,404**	**11,700**	**0**
Drawdown to WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WTN to Pits	(m^3)	0	0	0	0	0	0	0	47,887	52,902	2,207	2,132	2,200	**107,328**	**52,902**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overflow to WT WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**12,655**	**11,429**	**12,652**	**12,243**	**12,650**	**12,793**	**23,093**	**72,031**	**69,421**	**14,568**	**14,093**	**14,559**	**282,187**	**77,257**	**11,429**
Net Inflow (m^3)		3,719	3,354	3,706	3,580	3,693	138,908	48,442	5,204	3,206	0	1	0	**213,813**	**138,908**	**0**
End-of-Month Volume (m^3)		145,041	148,394	152,101	155,681	159,375	290,803	336,167	337,957	337,957	337,957	337,957	337,957	**3,077,347**	**337,957**	**145,041**
WHALE TAIL LAKE (SOUTH BASIN)																
Rainfall Land Runoff	(m^3)	0	0	0	0	0	253,151	472,859	487,379	437,909	0	0	0	**1,651,298**	**487,379**	**0**
SWE Land Runoff	(m^3)	0	0	0	0	0	481,064	0	0	0	0	0	0	**481,064**	**481,064**	**0**
Rainfall Lake Runoff	(m^3)	0	0	0	0	0	135,825	159,124	181,889	145,611	0	0	0	**622,449**	**181,889**	**0**
SWE Lake Runoff	(m^3)	0	0	0	0	0	258,109	0	0	0	0	0	0	**258,109**	**258,109**	**0**
Lake A18	(m^3)	0	0	0	0	0	96,406	0	0	0	0	0	0	**96,406**	**96,406**	**0**
Lake A53	(m^3)	0	0	0	0	0	142,824	42,322	48,670	55,198	0	0	0	**289,014**	**142,824**	**0**
Lake A55	(m^3)	0	0	0	0	0	214,347	0	0	46,508	0	0	0	**260,855**	**214,347**	**0**
Lake A60	(m^3)	0	0	0	0	0	228,019	51,939	61,974	82,394	0	0	0	**424,326**	**228,019**	**0**
Lake A62	(m^3)	0	0	0	0	0	66,907	3,501	30,725	32,255	0	0	0	**133,388**	**66,907**	**0**
Lake A65	(m^3)	0	0	0	0	0	94,440	0	0	0	0	0	0	**94,440**	**94,440**	**0**
Whale Tail Dike Seepage Well Pumpback	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Lake (North Basin)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Discharge from O-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**1,971,092**	**729,745**	**810,637**	**799,875**	**0**	**0**	**0**	**4,311,349**	**2,251,384**	**0**
Pumping to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater Infiltration	(m^3)	17,711	15,996	17,709	17,137	17,707	17,096	17,593	17,530	16,919	17,459	16,895	17,458	**207,210**	**17,711**	**15,996**
Camp Use	(m^3)	372	336	372	360	372	360	372	372	360	372	360	372	**4,380**	**372**	**336**
Dust Control	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Drilling Water	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	31,864	355,712	370,062	122,130	0	0	0	**879,768**	**370,062**	**0**
Drawdown to Pit	(m^3)	0	0	0	0	0	1,350,000	1,395,000	1,395,000	1,350,000	0	0	0	**5,490,000**	**1,395,000**	**0**
Overflow to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To WTPit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**18,083**	**16,332**	**18,081**	**17,497**	**18,079**	**1,399,320**	**1,768,677**	**1,782,964**	**1,489,409**	**17,831**	**17,255**	**17,830**	**6,581,358**	**1,783,145**	**16,332**
Net Inflow (m^3)		-18,083	-16,332	-18,081	-17,497	-18,079	571,772	-1,038,932	-972,327	-689,534	-17,831	-17,255	-17,830	**-2,270,009**	**571,772**	**-1,038,932**
End-of-Month Volume (m^3)		5,509,000	5,493,000	5,475,000	5,457,000	5,439,000	10,430,000	9,388,000	8,415,000	4,946,000	4,928,000	4,911,000	4,893,000	**75,284,000**	**10,430,000**	**4,893,000**
WATER TREATMENT																
Quarry 1	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Northeast Sector (TSS)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Lake (North Basin) (TSS)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond (seepage)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Bypass to Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
O-WTP to Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
O-WTP to Whale Tail Lake (South Basin)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Net Inflow (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume (m^3)																

		Year 2024														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Totals	Max. Monthly Totals	Min. Monthly Totals
No. of days		**31**	**28**	**31**	**30**	**31**	**30**	**31**	**31**	**30**	**31**	**30**	**31**			
QUARRY 1																
Direct Precipitation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Pit Wall	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Ore Stockpile	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Industrial Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Camp Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Drilling Water	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Untreated Discharge to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To Treatment	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Ore Losses	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Net Inflow	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
NORTHEAST SECTOR																
Lake A49	(m^3)	0	0	0	0	0	33,492	10,448	11,939	13,134	0	0	0	**69,013**	**33,492**	**0**
Rain Runoff	(m^3)	0	0	0	0	0	72,109	86,015	95,463	89,639	0	0	0	**343,226**	**95,463**	**0**
SWE Runoff	(m^3)	0	0	0	0	0	137,070	0	0	0	0	0	0	**137,070**	**137,070**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**242,671**	**96,463**	**107,402**	**102,773**	**0**	**0**	**0**	**549,309**	**266,025**	**0**
Whale Tail Lake (North Basin) BaseLine	(m^3)	0	0	0	0	0	241,530	83,490	94,298	97,700	0	0	0	**517,018**	**241,530**	**0**
Whale Tail Lake (North Basin) Ops	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
C Watershed	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	1,141	12,973	13,104	5,073	0	0	0	**32,291**	**13,104**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**242,671**	**96,463**	**107,402**	**102,773**	**0**	**0**	**0**	**549,309**	**254,634**	**0**
Net Inflow (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume (m^3)		118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	**1,424,700**	**118,725**	**118,725**
WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM																
Natural Runoff	(m^3)	0	0	0	0	0	25,008	10,283	11,413	10,717	0	0	0	**57,421**	**25,008**	**0**
Direct Precipitation	(m^3)	0	0	0	0	0	1	0	1	0	0	0	0	**3**	**1**	**0**
Whale Tail WRSF Runoff	(m^3)	0	0	0	0	0	16,801	1,172	1,172	391	0	0	0	**19,536**	**16,801**	**0**
Whale Tail WRSF Seepage	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overflow from WT ATT Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**41,810**	**11,455**	**12,586**	**11,108**	**0**	**0**	**0**	**76,959**	**41,810**	**0**
Evaporation	(m^3)	0	0	0	0	0	0	1	1	0	0	0	0	**3**	**1**	**0**
Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Seepage to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Quarry 1	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	41,811	11,455	12,585	11,107	0	0	0	**76,958**	**41,811**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**41,811**	**11,456**	**12,586**	**11,107**	**0**	**0**	**0**	**76,961**	**41,812**	**0**
Net Inflow (m^3)		0	0	0	0	0	-1	-1	-1	1	0	0	0	**-1**	**1**	**-1**
End-of-Month Volume (m^3)		1	1	1	1	1	1	1	1	1	1	1	1	**12**	**1**	**1**
NORTH SECTOR																
Natural Rainfall Runoff	(m^3)	0	0	0	0	0	9,170	10,938	12,139	11,399	0	0	0	**43,646**	**12,139**	**0**
Natural SWE Runoff	(m^3)	0	0	0	0	0	17,430	0	0	0	0	0	0	**17,430**	**17,430**	**0**
Whale Tail WRSF Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail WRSF Seepage	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**26,600**	**10,938**	**12,139**	**11,399**	**0**	**0**	**0**	**61,076**	**29,569**	**0**
Evaporation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail (North Basin) / Whale Tail Attenuation Pond (Operations)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail (North Basin) / Whale Tail Attenuation Pond (Closure)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	26,600	10,938	12,139	11,399	0	0	0	**61,076**	**26,600**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**26,600**	**10,938**	**12,139**	**11,399**	**0**	**0**	**0**	**61,076**	**26,600**	**0**
Net Inflow (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**

		Year 2024														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Totals	Max. Monthly Totals	Min. Monthly Totals
No. of days		**31**	**28**	**31**	**30**	**31**	**30**	**31**	**31**	**30**	**31**	**30**	**31**			
WHALE TAIL PIT																
Land Runoff	(m^3)	0	0	0	0	0	74,985	30,834	34,221	32,133	0	0	0	**172,173**	**74,985**	**0**
Lake Runoff	(m^3)	0	0	0	0	0	30,517	13,404	15,733	15,504	0	0	0	**75,158**	**30,517**	**0**
Pit Wall Runoff	(m^3)	0	0	0	0	0	20,489	7,569	7,545	6,353	0	0	0	**41,956**	**20,489**	**0**
Groundwater	(m^3)	18,175	17,001	18,173	17,585	18,170	17,531	17,997	16,527	13,866	13,138	12,684	13,075	**193,922**	**18,175**	**12,684**
Drilling Water	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	15,346	6,310	7,003	6,576	0	0	0	**35,235**	**15,346**	**0**
North Sector	(m^3)	0	0	0	0	0	26,600	10,938	12,139	11,399	0	0	0	**61,076**	**26,600**	**0**
Overburden Runoff	(m^3)	0	0	0	0	0	2,017	830	921	864	0	0	0	**4,632**	**2,017**	**0**
WRSF	(m^3)	0	0	0	0	0	41,811	11,455	12,585	11,107	0	0	0	**76,958**	**41,811**	**0**
NE Sector	(m^3)	0	0	0	0	0	241,530	83,490	94,298	97,700	0	0	0	**517,018**	**241,530**	**0**
Whale Tail Attenuation Pond Overflow	(m^3)	2,197	2,052	2,190	2,116	2,183	129,633	45,997	49,427	54,432	6,729	4,904	5,092	**306,952**	**129,633**	**2,052**
From WTS	(m^3)	0	0	0	0	0	1,350,000	1,395,000	1,395,000	1,350,000	0	0	0	**5,490,000**	**1,395,000**	**0**
Drawdown from WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**20,372**	**19,053**	**20,363**	**19,701**	**20,353**	**1,950,459**	**1,623,824**	**1,645,399**	**1,599,934**	**19,867**	**17,588**	**18,167**	**6,975,080**	**1,996,103**	**14,736**
Evaporation	(m^3)	0	0	0	0	0	2,468	29,965	32,009	13,004	0	0	0	**77,446**	**32,009**	**0**
Ore Losses	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Quarry 1	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**2,468**	**29,965**	**32,009**	**13,004**	**0**	**0**	**0**	**77,446**	**32,009**	**0**
Net Inflow (m^3)		20,372	19,053	20,363	19,701	20,353	1,947,991	1,593,859	1,613,390	1,586,930	19,867	17,588	18,167	**6,897,634**	**1,947,991**	**17,588**
End-of-Month Volume (m^3)		9,960,000	9,979,000	10,000,000	10,020,000	10,040,000	11,990,000	13,580,000	15,190,000	16,780,000	16,800,000	16,820,000	16,840,000	**157,999,000**	**16,840,000**	**9,960,000**
WHALE TAIL LAKE (NORTH BASIN) & WHALE TAIL ATTENUATION POND																
Clean Area Runoff	(m^3)	0	0	0	0	0	39,467	16,229	18,012	16,913	0	0	0	**90,621**	**39,467**	**0**
Lakebed Sediment Runoff	(m^3)	0	0	0	0	0	24,159	9,934	11,025	10,353	0	0	0	**55,471**	**24,159**	**0**
Direct Precipitation	(m^3)	0	0	0	0	0	12,603	5,183	5,752	5,401	0	0	0	**28,939**	**12,603**	**0**
Whale Tail WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater to Attn Pond	(m^3)	3,581	3,350	3,581	3,465	3,581	3,461	3,569	3,621	3,590	3,784	3,664	3,789	**43,036**	**3,789**	**3,350**
GW to WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Seepage Thru Dike	(m^3)	10,602	9,914	10,594	10,248	10,586	10,060	10,042	9,920	9,605	9,963	9,643	9,966	**121,143**	**10,602**	**9,605**
Dust Control	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Camp Biodisk	(m^3)	372	348	372	360	372	360	372	372	360	372	360	372	**4,392**	**372**	**348**
Industrial Sector	(m^3)	0	0	0	0	0	16,344	6,721	7,459	7,004	0	0	0	**37,528**	**16,344**	**0**
Camp Sector Runoff	(m^3)	0	0	0	0	0	23,825	9,797	10,873	10,209	0	0	0	**54,704**	**23,825**	**0**
Ore Stockpile	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Natural WT Pit Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
NPAG to Attn Pond	(m^3)	0	0	0	0	0	12,319	5,066	5,622	5,279	0	0	0	**28,286**	**12,319**	**0**
Northeast Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
A53	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
North Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Lake (South Basin)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Pit Sector Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Pumped from WTS to WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**14,555**	**13,612**	**14,547**	**14,073**	**14,539**	**142,598**	**66,913**	**72,656**	**68,714**	**14,119**	**13,667**	**14,127**	**464,120**	**143,480**	**13,303**
Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Dewatering to WT Lake (South) bypass C-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Dewatering to Mammoth through C-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
O-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Seepage Water to WTS	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater	(m^3)	12,359	11,561	12,357	11,958	12,356	11,927	12,254	11,295	9,539	9,076	8,763	9,034	**132,479**	**12,359**	**8,763**
Evaporation	(m^3)	0	0	0	0	0	1,019	11,585	11,702	4,530	0	0	0	**28,836**	**11,702**	**0**
Drawdown to WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WTN to Pits	(m^3)	2,196	2,052	2,190	2,116	2,183	129,652	43,072	49,658	54,645	5,043	4,904	5,093	**302,804**	**129,652**	**2,052**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overflow to WT WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**14,555**	**13,613**	**14,547**	**14,074**	**14,539**	**142,598**	**66,911**	**72,655**	**68,714**	**14,119**	**13,667**	**14,127**	**464,119**	**153,713**	**10,815**
Net Inflow (m^3)		0	-1	0	-1	0	0	2	1	0	0	0	0	**1**	**2**	**-1**
End-of-Month Volume (m^3)		337,957	337,957	337,957	337,957	337,957	337,957	337,957	337,957	337,957	337,957	337,957	337,957	**4,055,484**	**337,957**	**337,957**
WHALE TAIL LAKE (SOUTH BASIN)																
Rainfall Land Runoff	(m^3)	0	0	0	0	0	149,946	408,410	371,573	128,489	0	0	0	**1,058,418**	**408,410**	**0**
SWE Land Runoff	(m^3)	0	0	0	0	0	285,031	0	0	0	0	0	0	**285,031**	**285,031**	**0**
Rainfall Lake Runoff	(m^3)	0	0	0	0	0	116,018	130,651	89,161	57,811	0	0	0	**393,641**	**130,651**	**0**
SWE Lake Runoff	(m^3)	0	0	0	0	0	220,537	0	0	0	0	0	0	**220,537**	**220,537**	**0**
Lake A18	(m^3)	0	0	0	0	0	289,277	0	0	61,440	0	0	0	**350,717**	**289,277**	**0**
Lake A53	(m^3)	0	0	0	0	0	142,853	42,322	48,670	55,198	0	0	0	**289,043**	**142,853**	**0**
Lake A55	(m^3)	0	0	0	0	0	385,887	90,431	160,650	170,955	0	0	0	**807,923**	**385,887**	**0**
Lake A60	(m^3)	0	0	0	0	0	228,066	51,939	61,974	82,394	0	0	0	**424,373**	**228,066**	**0**
Lake A62	(m^3)	0	0	0	0	0	80,304	27,135	30,725	32,255	0	0	0	**170,419**	**80,304**	**0**
Lake A65	(m^3)	0	0	0	0	0	188,919	0	16,186	129,464	0	0	0	**334,569**	**188,919**	**0**
Whale Tail Dike Seepage Well Pumpback	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Lake (North Basin)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Discharge from O-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**2,086,838**	**750,888**	**778,939**	**718,006**	**0**	**0**	**0**	**4,334,671**	**2,359,935**	**0**
Pumping to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater Infiltration	(m^3)	17,457	16,331	17,456	16,893	17,455	16,866	17,377	17,360	16,800	17,360	16,800	17,360	**205,515**	**17,457**	**16,331**
Camp Use	(m^3)	372	348	372	360	372	360	372	372	360	372	360	372	**4,392**	**372**	**348**
Dust Control	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Drilling Water	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	27,217	292,063	181,402	48,489	0	0	0	**549,171**	**292,063**	**0**
Drawdown to Pit	(m^3)	0	0	0	0	0	1,350,000	1,395,000	1,395,000	1,350,000	0	0	0	**5,490,000**	**1,395,000**	**0**
Overflow to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To WTPit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**17,829**	**16,679**	**17,828**	**17,253**	**17,827**	**1,394,443**	**1,704,812**	**1,594,134**	**1,415,649**	**17,732**	**17,160**	**17,732**	**6,249,078**	**1,704,892**	**16,679**
Net Inflow (m^3)		-17,829	-16,679	-17,828	-17,253	-17,827	692,395	-953,924	-815,195	-697,643	-17,732	-17,160	-17,732	**-1,914,407**	**692,395**	**-953,924**
End-of-Month Volume (m^3)		4,875,000	4,858,000	4,840,000	4,823,000	4,805,000	8,278,000	7,324,000	6,509,000	3,981,000	3,963,000	3,946,000	3,928,000	**62,130,000**	**8,278,000**	**3,928,000**
WATER TREATMENT																
Quarry 1	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Northeast Sector (TSS)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Lake (North Basin) (TSS)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond (seepage)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Bypass to Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
O-WTP to Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
O-WTP to Whale Tail Lake (South Basin)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Net Inflow (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume (m^3)																

		Year 2025														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Totals	Max. Monthly Totals	Min. Monthly Totals
No. of days		**31**	**28**	**31**	**30**	**31**	**30**	**31**	**31**	**30**	**31**	**30**	**31**			
QUARRY 1																
Direct Precipitation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Pit Wall	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Ore Stockpile	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Industrial Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Camp Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Drilling Water	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Untreated Discharge to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To Treatment	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Ore Losses	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Net Inflow	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
NORTHEAST SECTOR																
Lake A49	(m^3)	0	0	0	0	0	33,485	10,448	11,939	13,134	0	0	0	**69,006**	**33,485**	**0**
Rain Runoff	(m^3)	0	0	0	0	0	72,109	86,015	95,463	89,639	0	0	0	**343,226**	**95,463**	**0**
SWE Runoff	(m^3)	0	0	0	0	0	137,028	0	0	0	0	0	0	**137,028**	**137,028**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**242,622**	**96,463**	**107,402**	**102,773**	**0**	**0**	**0**	**549,260**	**265,976**	**0**
Whale Tail Lake (North Basin) BaseLine	(m^3)	0	0	0	0	0	241,481	83,490	94,298	97,700	0	0	0	**516,969**	**241,481**	**0**
Whale Tail Lake (North Basin) Ops	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
C Watershed	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	1,141	12,973	13,104	5,073	0	0	0	**32,291**	**13,104**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**242,622**	**96,463**	**107,402**	**102,773**	**0**	**0**	**0**	**549,260**	**254,585**	**0**
Net Inflow (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume (m^3)		118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	**1,424,700**	**118,725**	**118,725**
WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM																
Natural Runoff	(m^3)	0	0	0	0	0	25,003	10,283	11,413	10,717	0	0	0	**57,416**	**25,003**	**0**
Direct Precipitation	(m^3)	0	0	0	0	0	1	0	1	0	0	0	0	**3**	**1**	**0**
Whale Tail WRSF Runoff	(m^3)	0	0	0	0	0	16,801	1,172	1,172	391	0	0	0	**19,536**	**16,801**	**0**
Whale Tail WRSF Seepage	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overflow from WT ATT Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**41,805**	**11,455**	**12,586**	**11,108**	**0**	**0**	**0**	**76,954**	**41,805**	**0**
Evaporation	(m^3)	0	0	0	0	0	0	1	1	0	0	0	0	**3**	**1**	**0**
Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Seepage to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Quarry 1	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	41,806	11,455	12,585	11,107	0	0	0	**76,953**	**41,806**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**41,806**	**11,456**	**12,586**	**11,107**	**0**	**0**	**0**	**76,956**	**41,807**	**0**
Net Inflow (m^3)		0												**0**	**0**	**0**
End-of-Month Volume (m^3)		1	1	1	1	1	1	1	1	1	1	1	1	**12**	**1**	**1**
NORTH SECTOR																
Natural Rainfall Runoff	(m^3)	0	0	0	0	0	9,170	10,938	12,139	11,399	0	0	0	**43,646**	**12,139**	**0**
Natural SWE Runoff	(m^3)	0	0	0	0	0	17,425	0	0	0	0	0	0	**17,425**	**17,425**	**0**
Whale Tail WRSF Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail WRSF Seepage	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**26,595**	**10,938**	**12,139**	**11,399**	**0**	**0**	**0**	**61,071**	**29,564**	**0**
Evaporation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail (North Basin) / Whale Tail Attenuation Pond (Operations)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail (North Basin) / Whale Tail	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	26,594	10,938	12,139	11,399	0	0	0	**61,070**	**26,594**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**26,594**	**10,938**	**12,139**	**11,399**	**0**	**0**	**0**	**61,070**	**26,594**	**0**
Net Inflow (m^3)		0	0	0	0	0	1	0	0	0	0	0	0	**1**	**1**	**0**
End-of-Month Volume (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**

		Year 2025														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Totals	Max. Monthly Totals	Min. Monthly Totals
No. of days		**31**	**28**	**31**	**30**	**31**	**30**	**31**	**31**	**30**	**31**	**30**	**31**			
WHALE TAIL PIT																
Land Runoff	(m^3)	0	0	0	0	0	74,970	30,834	34,221	32,133	0	0	0	**172,158**	**74,970**	**0**
Lake Runoff	(m^3)	0	0	0	0	0	37,687	16,072	18,338	17,582	0	0	0	**89,679**	**37,687**	**0**
Pit Wall Runoff	(m^3)	0	0	0	0	0	13,309	4,901	4,940	4,276	0	0	0	**27,426**	**13,309**	**0**
Groundwater	(m^3)	13,043	11,754	12,982	12,533	12,920	10,886	8,034	4,920	2,335	973	915	919	**92,214**	**13,043**	**915**
Drilling Water	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	15,343	6,310	7,003	6,576	0	0	0	**35,232**	**15,343**	**0**
North Sector	(m^3)	0	0	0	0	0	26,594	10,938	12,139	11,399	0	0	0	**61,070**	**26,594**	**0**
Overburden Runoff	(m^3)	0	0	0	0	0	2,017	830	921	864	0	0	0	**4,632**	**2,017**	**0**
WRSF	(m^3)	0	0	0	0	0	41,806	11,455	12,585	11,107	0	0	0	**76,953**	**41,806**	**0**
NE Sector	(m^3)	0	0	0	0	0	241,481	83,490	94,298	97,700	0	0	0	**516,969**	**241,481**	**0**
Whale Tail Attenuation Pond Overflow	(m^3)	5,117	4,644	5,165	5,022	5,215	133,890	53,178	57,639	61,915	12,127	10,046	10,328	**364,286**	**133,890**	**4,644**
From WTS	(m^3)	0	0	0	0	0	1,350,000	1,395,000	884,042	931,162	0	0	0	**4,560,204**	**1,395,000**	**0**
Drawdown from WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**18,160**	**16,398**	**18,147**	**17,555**	**18,135**	**1,947,983**	**1,621,042**	**1,131,046**	**1,177,049**	**13,100**	**10,961**	**11,247**	**6,000,823**	**1,995,140**	**5,559**
Evaporation	(m^3)	0	0	0	0	0	3,048	35,929	37,309	14,747	0	0	0	**91,033**	**37,309**	**0**
Ore Losses	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Quarry 1	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**3,048**	**35,929**	**37,309**	**14,747**	**0**	**0**	**0**	**91,033**	**37,309**	**0**
Net Inflow (m^3)		18,160	16,398	18,147	17,555	18,135	1,944,935	1,585,113	1,093,737	1,162,302	13,100	10,961	11,247	**5,909,790**	**1,944,935**	**10,961**
End-of-Month Volume (m^3)		16,860,000	16,870,000	16,890,000	16,910,000	16,930,000	18,870,000	20,460,000	21,550,000	22,710,000	22,720,000	22,740,000	22,750,000	**236,260,000**	**22,750,000**	**16,860,000**
WHALE TAIL LAKE (NORTH BASIN) & WHALE TAIL ATTENUATION POND																
Clean Area Runoff	(m^3)	0	0	0	0	0	39,459	16,229	18,012	16,913	0	0	0	**90,613**	**39,459**	**0**
Lakebed Sediment Runoff	(m^3)	0	0	0	0	0	24,154	9,934	11,025	10,353	0	0	0	**55,466**	**24,154**	**0**
Direct Precipitation	(m^3)	0	0	0	0	0	12,601	5,183	5,752	5,401	0	0	0	**28,937**	**12,601**	**0**
Whale Tail WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater to Attn Pond	(m^3)	3,792	3,427	3,796	3,676	3,801	3,806	4,176	4,346	4,253	4,064	3,922	4,041	**47,100**	**4,346**	**3,427**
GW to WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Seepage Thru Dike	(m^3)	9,968	9,005	9,971	9,651	9,974	9,738	10,210	10,230	9,843	9,871	9,543	9,852	**117,856**	**10,230**	**9,005**
Dust Control	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Camp Biodisk	(m^3)	372	336	372	360	372	360	372	372	360	372	360	372	**4,380**	**372**	**336**
Industrial Sector	(m^3)	0	0	0	0	0	16,341	6,721	7,459	7,004	0	0	0	**37,525**	**16,341**	**0**
Camp Sector Runoff	(m^3)	0	0	0	0	0	23,820	9,797	10,873	10,209	0	0	0	**54,699**	**23,820**	**0**
Ore Stockpile	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Natural WT Pit Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
NPAG to Attn Pond	(m^3)	0	0	0	0	0	12,317	5,066	5,622	5,279	0	0	0	**28,284**	**12,317**	**0**
Northeast Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
A53	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
North Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Lake (South Basin)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Pit Sector Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Pumped from WTS to WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**14,132**	**12,768**	**14,139**	**13,687**	**14,147**	**142,596**	**67,688**	**73,691**	**69,615**	**14,307**	**13,825**	**14,265**	**464,860**	**143,640**	**12,768**
Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Dewatering to WT Lake (South) bypass C-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Dewatering to Mammoth through C-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
O-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Seepage Water to WTS	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater	(m^3)	9,013	8,123	8,973	8,664	8,932	7,580	5,778	4,125	3,029	3,875	3,781	3,939	**75,812**	**9,013**	**3,029**
Evaporation	(m^3)	0	0	0	0	0	1,019	11,585	11,702	4,530	0	0	0	**28,836**	**11,702**	**0**
Drawdown to WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WTN to Pits	(m^3)	5,118	4,644	5,166	5,023	5,215	133,995	50,323	57,863	62,056	10,432	10,044	10,327	**360,206**	**133,995**	**4,644**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overflow to WT WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**14,131**	**12,767**	**14,139**	**13,687**	**14,147**	**142,594**	**67,686**	**73,690**	**69,615**	**14,307**	**13,825**	**14,266**	**464,854**	**154,710**	**7,673**
Net Inflow (m^3)		1	1	0	0	0	2	2	1	0	0	0	-1	**6**	**2**	**-1**
End-of-Month Volume (m^3)		337,957	337,957	337,957	337,957	337,957	337,957	337,957	337,957	337,957	337,957	337,957	337,957	**4,055,484**	**337,957**	**337,957**
WHALE TAIL LAKE (SOUTH BASIN)																
Rainfall Land Runoff	(m^3)	0	0	0	0	0	82,259	117,449	108,296	101,984	0	0	0	**409,988**	**117,449**	**0**
SWE Land Runoff	(m^3)	0	0	0	0	0	156,317	0	0	0	0	0	0	**156,317**	**156,317**	**0**
Rainfall Lake Runoff	(m^3)	0	0	0	0	0	47,744	54,394	49,020	45,733	0	0	0	**196,891**	**54,394**	**0**
SWE Lake Runoff	(m^3)	0	0	0	0	0	90,728	0	0	0	0	0	0	**90,728**	**90,728**	**0**
Lake A18	(m^3)	0	0	0	0	0	674,842	88,685	317,704	368,641	0	0	0	**1,449,872**	**674,842**	**0**
Lake A53	(m^3)	0	0	0	0	0	142,824	42,322	48,670	55,198	0	0	0	**289,014**	**142,824**	**0**
Lake A55	(m^3)	0	0	0	0	0	428,590	141,508	160,650	170,955	0	0	0	**901,703**	**428,590**	**0**
Lake A60	(m^3)	0	0	0	0	0	228,019	51,939	61,974	82,394	0	0	0	**424,326**	**228,019**	**0**
Lake A62	(m^3)	0	0	0	0	0	80,288	27,135	30,725	32,255	0	0	0	**170,403**	**80,288**	**0**
Lake A65	(m^3)	0	0	0	0	0	354,151	84,741	100,353	129,464	0	0	0	**668,709**	**354,151**	**0**
Whale Tail Dike Seepage Well Pumpback	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Lake (North Basin)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Discharge from O-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**2,285,762**	**608,173**	**877,392**	**986,624**	**0**	**0**	**0**	**4,757,951**	**2,327,602**	**0**
Pumping to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater Infiltration	(m^3)	17,360	15,680	17,360	16,800	17,360	16,800	17,360	17,360	16,743	17,001	16,443	16,982	**203,249**	**17,360**	**15,680**
Camp Use	(m^3)	372	336	372	360	372	360	372	372	360	372	360	372	**4,380**	**372**	**336**
Dust Control	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Drilling Water	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	11,201	121,595	99,734	38,358	0	0	0	**270,888**	**121,595**	**0**
Drawdown to Pit	(m^3)	0	0	0	0	0	1,350,000	1,395,000	271,569	0	0	0	0	**3,016,569**	**1,395,000**	**0**
Overflow to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To WTPit	(m^3)	0	0	0	0	0	0	0	612,472	931,162	0	0	0	**1,543,634**	**931,162**	**0**
Total Outflow (m^3)		**17,732**	**16,016**	**17,732**	**17,160**	**17,732**	**1,378,361**	**1,534,327**	**1,001,507**	**986,623**	**17,373**	**16,803**	**17,354**	**5,038,720**	**2,465,489**	**16,016**
Net Inflow (m^3)		-17,732	-16,016	-17,732	-17,160	-17,732	907,401	-926,154	-124,115	1	-17,373	-16,803	-17,354	**-280,769**	**907,401**	**-926,154**
End-of-Month Volume (m^3)		3,910,000	3,894,000	3,877,000	3,859,000	3,842,000	6,579,000	5,653,000	5,529,000	3,763,000	3,746,000	3,729,000	3,712,000	**52,093,000**	**6,579,000**	**3,712,000**
WATER TREATMENT																
Quarry 1	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Northeast Sector (TSS)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Lake (North Basin) (TSS)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond (seepage)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Bypass to Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
O-WTP to Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
O-WTP to Whale Tail Lake (South Basin)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Net Inflow (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume (m^3)																

		Year 2026														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Totals	Max. Monthly Totals	Min. Monthly Totals
No. of days		**31**	**28**	**31**	**30**	**31**	**30**	**31**	**31**	**30**	**31**	**30**	**31**			
QUARRY 1																
Direct Precipitation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Pit Wall	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Ore Stockpile	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Industrial Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Camp Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Drilling Water	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Untreated Discharge to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To Treatment	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Ore Losses	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Net Inflow	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
NORTHEAST SECTOR																
Lake A49	(m^3)	0	0	0	0	0	33,485	10,448	11,939	13,134	0	0	0	**69,006**	**33,485**	**0**
Rain Runoff	(m^3)	0	0	0	0	0	72,109	86,015	95,463	89,639	0	0	0	**343,226**	**95,463**	**0**
SWE Runoff	(m^3)	0	0	0	0	0	137,028	0	0	0	0	0	0	**137,028**	**137,028**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**242,622**	**96,463**	**107,402**	**102,773**	**0**	**0**	**0**	**549,260**	**265,976**	**0**
Whale Tail Lake (North Basin) BaseLine	(m^3)	0	0	0	0	0	241,481	83,490	94,298	97,700	0	0	0	**516,969**	**241,481**	**0**
Whale Tail Lake (North Basin) Ops	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
C Watershed	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	1,141	12,973	13,104	5,073	0	0	0	**32,291**	**13,104**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**242,622**	**96,463**	**107,402**	**102,773**	**0**	**0**	**0**	**549,260**	**254,585**	**0**
Net Inflow (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume (m^3)		118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	**1,424,700**	**118,725**	**118,725**
WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM																
Natural Runoff	(m^3)	0	0	0	0	0	25,003	10,283	11,413	10,717	0	0	0	**57,416**	**25,003**	**0**
Direct Precipitation	(m^3)	0	0	0	0	0	1	0	1	0	0	0	0	**3**	**1**	**0**
Whale Tail WRSF Runoff	(m^3)	0	0	0	0	0	16,801	1,172	1,172	391	0	0	0	**19,536**	**16,801**	**0**
Whale Tail WRSF Seepage	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overflow from WT ATT Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**41,805**	**11,455**	**12,586**	**11,108**	**0**	**0**	**0**	**76,954**	**41,805**	**0**
Evaporation	(m^3)	0	0	0	0	0	0	1	1	0	0	0	0	**3**	**1**	**0**
Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Seepage to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Quarry 1	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	41,806	11,455	12,585	11,107	0	0	0	**76,953**	**41,806**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**41,806**	**11,456**	**12,586**	**11,107**	**0**	**0**	**0**	**76,956**	**41,807**	**0**
Net Inflow (m^3)		0	0	0	0	0	-1	-1	-1	1	0	0	0	**-1**	**1**	**-1**
End-of-Month Volume (m^3)		1	1	1	1	1	1	1	1	1	1	1	1	**12**	**1**	**1**
NORTH SECTOR																
Natural Rainfall Runoff	(m^3)	0	0	0	0	0	9,170	10,938	12,139	11,399	0	0	0	**43,646**	**12,139**	**0**
Natural SWE Runoff	(m^3)	0	0	0	0	0	17,425	0	0	0	0	0	0	**17,425**	**17,425**	**0**
Whale Tail WRSF Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail WRSF Seepage	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**26,595**	**10,938**	**12,139**	**11,399**	**0**	**0**	**0**	**61,071**	**29,564**	**0**
Evaporation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail (North Basin) / Whale Tail Attenuation Pond (Operations)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail (North Basin) / Whale Tail Attenuation Pond (Closure)	(m^3)	0	0	0	0	0	3,309	10,938	12,139	11,399	0	0	0	**37,785**	**12,139**	**0**
WT Pit	(m^3)	0	0	0	0	0	23,286	0	0	0	0	0	0	**23,286**	**23,286**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**26,595**	**10,938**	**12,139**	**11,399**	**0**	**0**	**0**	**61,071**	**35,425**	**0**
Net Inflow (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**

		Year 2026														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Totals	Max. Monthly Totals	Min. Monthly Totals
No. of days		**31**	**28**	**31**	**30**	**31**	**30**	**31**	**31**	**30**	**31**	**30**	**31**			
WHALE TAIL PIT																
Land Runoff	(m^3)	0	0	0	0	0	74,970	30,834	34,221	32,133	0	0	0	**172,158**	**74,970**	**0**
Lake Runoff	(m^3)	0	0	0	0	0	42,632	18,090	20,259	19,236	0	0	0	**100,217**	**42,632**	**0**
Pit Wall Runoff	(m^3)	0	0	0	0	0	8,363	2,884	3,019	2,621	0	0	0	**16,887**	**8,363**	**0**
Groundwater	(m^3)	892	783	841	789	789	81	0	0	0	0	0	0	**4,173**	**892**	**0**
Drilling Water	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	15,343	6,310	7,003	6,576	0	0	0	**35,232**	**15,343**	**0**
North Sector	(m^3)	0	0	0	0	0	23,286	0	0	0	0	0	0	**23,286**	**23,286**	**0**
Overburden Runoff	(m^3)	0	0	0	0	0	2,017	830	921	864	0	0	0	**4,632**	**2,017**	**0**
WRSF	(m^3)	0	0	0	0	0	41,806	11,455	12,585	11,107	0	0	0	**76,953**	**41,806**	**0**
NE Sector	(m^3)	0	0	0	0	0	211,438	0	0	0	0	0	0	**211,438**	**211,438**	**0**
Whale Tail Attenuation Pond Overflow	(m^3)	10,276	9,236	10,176	9,799	10,075	119,006	0	0	0	0	0	0	**168,568**	**119,006**	**0**
From WTS	(m^3)	0	0	0	0	0	2,069,000	0	0	0	0	0	0	**2,069,000**	**2,069,000**	**0**
Drawdown from WTN	(m^3)	0	0	0	0	0	688	6,588	5,691	3,746	2,938	2,851	2,955	**25,457**	**6,588**	**0**
Total Inflow (m^3)		**11,168**	**10,019**	**11,017**	**10,588**	**10,864**	**2,608,629**	**76,991**	**83,699**	**76,283**	**2,938**	**2,851**	**2,955**	**2,908,001**	**2,615,341**	**0**
Evaporation	(m^3)	0	0	0	0	0	3,009	0	0	0	0	0	0	**3,009**	**3,009**	**0**
Ore Losses	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater	(m^3)	0	0	0	0	0	2,522	6,588	5,691	3,746	2,938	2,851	2,955	**27,291**	**6,588**	**0**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Quarry 1	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**5,531**	**6,588**	**5,691**	**3,746**	**2,938**	**2,851**	**2,955**	**30,300**	**9,597**	**0**
Net Inflow (m^3)		11,168	10,019	11,017	10,588	10,864	2,603,098	70,403	78,008	72,537	0	0	0	**2,877,701**	**2,603,098**	**0**
End-of-Month Volume (m^3)		22,760,000	22,770,000	22,780,000	22,790,000	22,800,000	25,380,000	25,380,000	25,380,000	25,380,000	25,380,000	25,380,000	25,380,000	**291,560,000**	**25,380,000**	**22,760,000**
WHALE TAIL LAKE (NORTH BASIN) & WHALE TAIL ATTENUATION POND																
Clean Area Runoff	(m^3)	0	0	0	0	0	39,459	16,229	18,012	16,913	0	0	0	**90,613**	**39,459**	**0**
Lakebed Sediment Runoff	(m^3)	0	0	0	0	0	21,738	0	0	0	0	0	0	**21,738**	**21,738**	**0**
Direct Precipitation	(m^3)	0	0	0	0	0	17,306	26,789	33,164	35,717	0	0	0	**112,976**	**35,717**	**0**
Whale Tail WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater to Attn Pond	(m^3)	4,030	3,631	4,009	3,869	3,988	2,532	907	629	409	316	307	318	**24,945**	**4,030**	**307**
GW to WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Seepage Thru Dike	(m^3)	9,843	8,882	9,825	9,500	9,807	8,385	7,185	5,671	3,487	2,542	2,469	2,561	**80,157**	**9,843**	**2,469**
Dust Control	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Camp Biodisk	(m^3)	372	336	372	360	372	360	372	372	360	372	360	372	**4,380**	**372**	**336**
Industrial Sector	(m^3)	0	0	0	0	0	16,341	6,721	7,459	7,004	0	0	0	**37,525**	**16,341**	**0**
Camp Sector Runoff	(m^3)	0	0	0	0	0	23,820	9,797	10,873	10,209	0	0	0	**54,699**	**23,820**	**0**
Ore Stockpile	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Natural WT Pit Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
NPAG to Attn Pond	(m^3)	0	0	0	0	0	12,317	5,066	5,622	5,279	0	0	0	**28,284**	**12,317**	**0**
Northeast Sector	(m^3)	0	0	0	0	0	30,043	83,490	94,298	97,700	0	0	0	**305,531**	**97,700**	**0**
A53	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
North Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Lake (South Basin)	(m^3)	0	0	0	0	0	312,160	652,857	766,353	940,386	0	0	0	**2,671,756**	**940,386**	**0**
Whale Tail Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Pit Sector Runoff	(m^3)	0	0	0	0	0	17,600	52,313	57,748	53,302	0	0	0	**180,963**	**57,748**	**0**
Pumped from WTS to WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**14,245**	**12,849**	**14,206**	**13,729**	**14,167**	**502,061**	**861,726**	**1,000,201**	**1,170,766**	**3,230**	**3,136**	**3,251**	**3,613,567**	**1,259,471**	**3,112**
Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Dewatering to WT Lake (South) bypass C-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Dewatering to Mammoth through C-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
O-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Seepage Water to WTS	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater	(m^3)	3,971	3,614	4,032	3,932	4,094	7,775	12,836	10,966	7,370	5,898	5,723	5,929	**76,140**	**12,836**	**3,614**
Evaporation	(m^3)	0	0	0	0	0	1,400	59,885	67,474	29,957	0	0	0	**158,716**	**67,474**	**0**
Drawdown to WT Pit	(m^3)	0	0	0	0	0	688	6,588	5,691	3,746	2,938	2,851	2,955	**25,457**	**6,588**	**0**
WTN to Pits	(m^3)	10,274	9,235	10,175	9,797	10,073	115,603	0	0	0	0	0	0	**165,157**	**115,603**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overflow to WT WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**14,245**	**12,849**	**14,207**	**13,729**	**14,167**	**125,466**	**79,309**	**84,131**	**41,073**	**8,836**	**8,574**	**8,884**	**425,470**	**202,501**	**3,614**
Net Inflow (m^3)		0	0	-1	0	0	376,595	782,417	916,070	1,129,693	-5,606	-5,438	-5,633	**3,188,097**	**1,129,693**	**-5,633**
End-of-Month Volume (m^3)		337,957	337,957	337,957	337,957	337,957	717,861	1,511,000	2,439,000	3,581,000	3,575,000	3,569,000	3,564,000	**20,646,646**	**3,581,000**	**337,957**
WHALE TAIL LAKE (SOUTH BASIN)																
Rainfall Land Runoff	(m^3)	0	0	0	0	0	82,016	97,861	108,611	101,984	0	0	0	**390,472**	**108,611**	**0**
SWE Land Runoff	(m^3)	0	0	0	0	0	155,855	0	0	0	0	0	0	**155,855**	**155,855**	**0**
Rainfall Lake Runoff	(m^3)	0	0	0	0	0	36,813	43,885	48,705	45,733	0	0	0	**175,136**	**48,705**	**0**
SWE Lake Runoff	(m^3)	0	0	0	0	0	69,957	0	0	0	0	0	0	**69,957**	**69,957**	**0**
Lake A18	(m^3)	0	0	0	0	0	964,059	274,925	317,704	368,641	0	0	0	**1,925,329**	**964,059**	**0**
Lake A53	(m^3)	0	0	0	0	0	142,824	42,322	48,670	55,198	0	0	0	**289,014**	**142,824**	**0**
Lake A55	(m^3)	0	0	0	0	0	428,590	141,508	160,650	170,955	0	0	0	**901,703**	**428,590**	**0**
Lake A60	(m^3)	0	0	0	0	0	228,019	51,939	61,974	82,394	0	0	0	**424,326**	**228,019**	**0**
Lake A62	(m^3)	0	0	0	0	0	80,288	27,135	30,725	32,255	0	0	0	**170,403**	**80,288**	**0**
Lake A65	(m^3)	0	0	0	0	0	354,151	84,741	100,353	129,464	0	0	0	**668,709**	**354,151**	**0**
Whale Tail Dike Seepage Well Pumpback	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Lake (North Basin)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Discharge from O-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**2,542,572**	**764,316**	**877,392**	**986,624**	**0**	**0**	**0**	**5,170,904**	**2,581,059**	**0**
Pumping to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater Infiltration	(m^3)	16,973	15,322	16,955	16,400	16,937	15,285	14,264	11,575	7,519	5,819	5,648	5,854	**148,551**	**16,973**	**5,648**
Camp Use	(m^3)	372	336	372	360	372	360	372	372	360	372	360	372	**4,380**	**372**	**336**
Dust Control	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Drilling Water	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	8,636	98,102	99,092	38,358	0	0	0	**244,188**	**99,092**	**0**
Drawdown to Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overflow to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To WTN	(m^3)	0	0	0	0	0	312,160	652,857	766,353	940,386	0	0	0	**2,671,756**	**940,386**	**0**
To WTPit	(m^3)	0	0	0	0	0	2,069,000	0	0	0	0	0	0	**2,069,000**	**2,069,000**	**0**
Total Outflow (m^3)		**17,345**	**15,658**	**17,327**	**16,760**	**17,309**	**2,405,441**	**765,595**	**877,392**	**986,623**	**6,191**	**6,008**	**6,226**	**5,137,875**	**3,125,823**	**5,984**
Net Inflow (m^3)		-17,345	-15,658	-17,327	-16,760	-17,309	137,131	-1,279	0	1	-6,191	-6,008	-6,226	**33,029**	**137,131**	**-17,345**
End-of-Month Volume (m^3)		3,694,000	3,679,000	3,661,000	3,645,000	3,627,000	5,530,000	5,529,000	5,529,000	3,763,000	3,757,000	3,751,000	3,745,000	**49,910,000**	**5,530,000**	**3,627,000**
WATER TREATMENT																
Quarry 1	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Northeast Sector (TSS)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Lake (North Basin) (TSS)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond (seepage)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Bypass to Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
O-WTP to Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
O-WTP to Whale Tail Lake (South Basin)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Net Inflow (m^3)														**0**	**0**	**0**
End-of-Month Volume (m^3)																

		Year 2027														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Totals	Max. Monthly Totals	Min. Monthly Totals
No. of days		**31**	**28**	**31**	**30**	**31**	**30**	**31**	**31**	**30**	**31**	**30**	**31**			
QUARRY 1																
Direct Precipitation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Pit Wall	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Ore Stockpile	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Industrial Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Camp Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Drilling Water	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Untreated Discharge to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To Treatment	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Ore Losses	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Net Inflow	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
NORTHEAST SECTOR																
Lake A49	(m^3)	0	0	0	0	0	33,485	10,448	11,939	13,134	0	0	0	**69,006**	**33,485**	**0**
Rain Runoff	(m^3)	0	0	0	0	0	72,109	86,015	95,463	89,639	0	0	0	**343,226**	**95,463**	**0**
SWE Runoff	(m^3)	0	0	0	0	0	137,028	0	0	0	0	0	0	**137,028**	**137,028**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**242,622**	**96,463**	**107,402**	**102,773**	**0**	**0**	**0**	**549,260**	**265,976**	**0**
Whale Tail Lake (North Basin) BaseLine	(m^3)	0	0	0	0	0	241,481	83,490	94,298	97,700	0	0	0	**516,969**	**241,481**	**0**
Whale Tail Lake (North Basin) Ops	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
C Watershed	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	1,141	12,973	13,104	5,073	0	0	0	**32,291**	**13,104**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**242,622**	**96,463**	**107,402**	**102,773**	**0**	**0**	**0**	**549,260**	**254,585**	**0**
Net Inflow (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume (m^3)		118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	**1,424,700**	**118,725**	**118,725**
WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM																
Natural Runoff	(m^3)	0	0	0	0	0	25,003	10,283	11,413	10,717	0	0	0	**57,416**	**25,003**	**0**
Direct Precipitation	(m^3)	0	0	0	0	0	1	0	1	0	0	0	0	**3**	**1**	**0**
Whale Tail WRSF Runoff	(m^3)	0	0	0	0	0	16,801	1,172	1,172	391	0	0	0	**19,536**	**16,801**	**0**
Whale Tail WRSF Seepage	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overflow from WT ATT Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**41,805**	**11,455**	**12,586**	**11,108**	**0**	**0**	**0**	**76,954**	**41,805**	**0**
Evaporation	(m^3)	0	0	0	0	0	0	1	1	0	0	0	0	**3**	**1**	**0**
Mammoth Lake	(m^3)	0	0	0	0	0	13,878	11,455	12,585	11,107	0	0	0	**49,025**	**13,878**	**0**
Seepage to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Quarry 1	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	27,927	0	0	0	0	0	0	**27,927**	**27,927**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**41,805**	**11,456**	**12,586**	**11,107**	**0**	**0**	**0**	**76,955**	**41,806**	**0**
Net Inflow (m^3)		0	0	0	0	0	0	-1	-1	1	0	0	0	**0**	**1**	**-1**
End-of-Month Volume (m^3)		1	1	1	1	1	1	1	1	1	1	1	1	**12**	**1**	**1**
NORTH SECTOR																
Natural Rainfall Runoff	(m^3)	0	0	0	0	0	9,170	10,938	12,139	11,399	0	0	0	**43,646**	**12,139**	**0**
Natural SWE Runoff	(m^3)	0	0	0	0	0	17,425	0	0	0	0	0	0	**17,425**	**17,425**	**0**
Whale Tail WRSF Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail WRSF Seepage	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**26,595**	**10,938**	**12,139**	**11,399**	**0**	**0**	**0**	**61,071**	**29,564**	**0**
Evaporation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail (North Basin) / Whale Tail Attenuation Pond (Operations)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail (North Basin) / Whale Tail	(m^3)	0	0	0	0	0	26,594	10,938	12,139	11,399	0	0	0	**61,070**	**26,594**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**26,594**	**10,938**	**12,139**	**11,399**	**0**	**0**	**0**	**61,070**	**26,594**	**0**
Net Inflow (m^3)		0	0	0	0	0	1	0	0	0	0	0	0	**1**	**1**	**0**
End-of-Month Volume (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**

		Year 2027														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Totals	Max. Monthly Totals	Min. Monthly Totals
No. of days		31	28	31	30	31	30	31	31	30	31	30	31			
WHALE TAIL PIT																
Land Runoff	(m^3)	0	0	0	0	0	74,970	30,834	34,221	32,133	0	0	0	**172,158**	**74,970**	**0**
Lake Runoff	(m^3)	0	0	0	0	0	45,818	18,977	21,062	19,777	0	0	0	**105,634**	**45,818**	**0**
Pit Wall Runoff	(m^3)	0	0	0	0	0	5,178	1,996	2,216	2,081	0	0	0	**11,471**	**5,178**	**0**
Groundwater	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Drilling Water	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	15,343	6,310	7,003	6,576	0	0	0	**35,232**	**15,343**	**0**
North Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overburden Runoff	(m^3)	0	0	0	0	0	2,017	830	921	864	0	0	0	**4,632**	**2,017**	**0**
WRSF	(m^3)	0	0	0	0	0	27,922	0	0	0	0	0	0	**27,922**	**27,922**	**0**
NE Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond Overflow	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
From WTS	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Drawdown from WTN	(m^3)	2,963	2,684	2,979	2,892	2,996	1,022	9	9	9	9	9	9	**15,589**	**2,996**	**9**
Total Inflow (m^3)		**2,963**	**2,684**	**2,979**	**2,892**	**2,996**	**172,270**	**58,955**	**65,432**	**61,440**	**9**	**9**	**9**	**372,638**	**174,244**	**9**
Evaporation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Ore Losses	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater	(m^3)	2,963	2,684	2,979	2,892	2,996	1,022	9	9	9	9	9	9	**15,589**	**2,996**	**9**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Quarry 1	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**2,963**	**2,684**	**2,979**	**2,892**	**2,996**	**1,022**	**9**	**9**	**9**	**9**	**9**	**9**	**15,589**	**2,996**	**9**
Net Inflow (m^3)		0	0	0	0	0	171,248	58,947	65,423	61,431	0	0	0	**357,049**	**171,248**	**0**
End-of-Month Volume (m^3)		25,380,000	25,380,000	25,380,000	25,380,000	25,380,000	25,380,000	25,380,000	25,380,000	25,380,000	25,380,000	25,380,000	25,380,000	**304,560,000**	**25,380,000**	**25,380,000**
WHALE TAIL LAKE (NORTH BASIN) & WHALE TAIL ATTENUATION POND																
Clean Area Runoff	(m^3)	0	0	0	0	0	39,459	16,229	18,012	16,913	0	0	0	**90,613**	**39,459**	**0**
Lakebed Sediment Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Direct Precipitation	(m^3)	0	0	0	0	0	106,458	47,067	52,237	49,050	0	0	0	**254,812**	**106,458**	**0**
Whale Tail WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater to Attn Pond	(m^3)	319	289	321	312	323	105	0	0	0	0	0	0	**1,668**	**323**	**0**
GW to WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Seepage Thru Dike	(m^3)	2,571	2,331	2,590	2,515	2,609	684	0	0	0	0	0	0	**13,300**	**2,609**	**0**
Dust Control	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Camp Biodisk	(m^3)	372	336	372	360	372	240	0	0	0	0	0	0	**2,052**	**372**	**0**
Industrial Sector	(m^3)	0	0	0	0	0	16,341	6,721	7,459	7,004	0	0	0	**37,525**	**16,341**	**0**
Camp Sector Runoff	(m^3)	0	0	0	0	0	23,820	9,797	10,873	10,209	0	0	0	**54,699**	**23,820**	**0**
Ore Stockpile	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Natural WT Pit Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
NPAG to Attn Pond	(m^3)	0	0	0	0	0	12,317	5,066	5,622	5,279	0	0	0	**28,284**	**12,317**	**0**
Northeast Sector	(m^3)	0	0	0	0	0	241,481	83,490	94,298	97,700	0	0	0	**516,969**	**241,481**	**0**
A53	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
North Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Lake (South Basin)	(m^3)	0	0	0	0	0	2,483,000	666,278	778,301	948,265	0	0	0	**4,875,844**	**2,483,000**	**0**
Whale Tail Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Pit Sector Runoff	(m^3)	0	0	0	0	0	125,429	39,970	44,361	41,654	0	0	0	**251,414**	**125,429**	**0**
Pumped from WTS to WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**3,262**	**2,956**	**3,283**	**3,187**	**3,304**	**3,049,334**	**874,618**	**1,011,163**	**1,176,074**	**0**	**0**	**0**	**6,127,180**	**3,051,609**	**0**
Mammoth Lake	(m^3)	0	0	0	0	0	1,028,000	780,330	917,014	1,146,000	0	0	0	**3,871,344**	**1,146,000**	**0**
Dewatering to WT Lake (South) bypass C-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Dewatering to Mammoth through C-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
O-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Seepage Water to WTS	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater	(m^3)	5,945	5,383	5,975	5,797	6,006	2,193	0	0	0	0	0	0	**31,301**	**6,006**	**0**
Evaporation	(m^3)	0	0	0	0	0	8,611	105,216	106,278	41,140	0	0	0	**261,245**	**106,278**	**0**
Drawdown to WT Pit	(m^3)	2,963	2,684	2,979	2,892	2,996	1,022	9	9	9	9	9	9	**15,589**	**2,996**	**9**
WTN to Pits	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overflow to WT WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**8,908**	**8,067**	**8,954**	**8,689**	**9,002**	**1,039,826**	**885,555**	**1,023,301**	**1,187,149**	**9**	**9**	**9**	**4,179,479**	**1,261,280**	**9**
Net Inflow (m^3)		-5,646	-5,111	-5,671	-5,503	-5,698	2,009,508	-10,937	-12,138	-11,075	-9	-9	-9	**1,947,701**	**2,009,508**	**-12,138**
End-of-Month Volume (m^3)		3,558,000	3,553,000	3,547,000	3,542,000	3,536,000	5,572,000	5,572,000	5,572,000	5,572,000	5,572,000	5,572,000	5,572,000	**56,740,000**	**5,572,000**	**3,536,000**
WHALE TAIL LAKE (SOUTH BASIN)																
Rainfall Land Runoff	(m^3)	0	0	0	0	0	82,012	97,862	108,611	101,984	0	0	0	**390,469**	**108,611**	**0**
SWE Land Runoff	(m^3)	0	0	0	0	0	155,848	0	0	0	0	0	0	**155,848**	**155,848**	**0**
Rainfall Lake Runoff	(m^3)	0	0	0	0	0	36,817	43,884	48,705	45,733	0	0	0	**175,139**	**48,705**	**0**
SWE Lake Runoff	(m^3)	0	0	0	0	0	69,964	0	0	0	0	0	0	**69,964**	**69,964**	**0**
Lake A18	(m^3)	0	0	0	0	0	964,059	274,925	317,704	368,641	0	0	0	**1,925,329**	**964,059**	**0**
Lake A53	(m^3)	0	0	0	0	0	142,824	42,322	48,670	55,198	0	0	0	**289,014**	**142,824**	**0**
Lake A55	(m^3)	0	0	0	0	0	428,590	141,508	160,650	170,955	0	0	0	**901,703**	**428,590**	**0**
Lake A60	(m^3)	0	0	0	0	0	228,019	51,939	61,974	82,394	0	0	0	**424,326**	**228,019**	**0**
Lake A62	(m^3)	0	0	0	0	0	80,288	27,135	30,725	32,255	0	0	0	**170,403**	**80,288**	**0**
Lake A65	(m^3)	0	0	0	0	0	354,151	84,741	100,353	129,464	0	0	0	**668,709**	**354,151**	**0**
Whale Tail Dike Seepage Well Pumpback	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Lake (North Basin)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Discharge from O-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**2,542,572**	**764,316**	**877,392**	**986,624**	**0**	**0**	**0**	**5,170,904**	**2,581,059**	**0**
Pumping to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater Infiltration	(m^3)	5,872	5,319	5,906	5,732	5,941	1,922	0	0	0	0	0	0	**30,692**	**5,941**	**0**
Camp Use	(m^3)	372	336	372	360	372	240	0	0	0	0	0	0	**2,052**	**372**	**0**
Dust Control	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Drilling Water	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	8,637	98,101	99,092	38,358	0	0	0	**244,188**	**99,092**	**0**
Drawdown to Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overflow to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To WTN	(m^3)	0	0	0	0	0	2,483,000	666,278	778,301	948,265	0	0	0	**4,875,844**	**2,483,000**	**0**
To WTPit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**6,244**	**5,655**	**6,278**	**6,092**	**6,313**	**2,493,799**	**764,379**	**877,393**	**986,623**	**0**	**0**	**0**	**5,152,777**	**2,588,405**	**0**
Net Inflow (m^3)		-6,244	-5,655	-6,278	-6,092	-6,313	48,773	-63	-1	1	0	0	0	**18,127**	**48,773**	**-6,313**
End-of-Month Volume (m^3)		3,739,000	3,733,000	3,727,000	3,720,000	3,714,000	5,529,000	5,529,000	5,529,000	3,763,000	3,763,000	3,763,000	3,763,000	**50,272,000**	**5,529,000**	**3,714,000**
WATER TREATMENT																
Quarry 1	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Northeast Sector (TSS)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Lake (North Basin) (TSS)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond (seepage)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Bypass to Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
O-WTP to Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
O-WTP to Whale Tail Lake (South Basin)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Net Inflow (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume (m^3)																

		Post Closure (2028 +)														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Totals	Max. Monthly Totals	Min. Monthly Totals
No. of days		31	28	31	30	31	30	31	31	30	31	30	31			
QUARRY 1																
Direct Precipitation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Natural Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Pit Wall	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Ore Stockpile	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overburden	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Industrial Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Camp Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Drilling Water	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
NPAG_outflow_to_Quarry1	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**			
Evaporation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Untreated Discharge to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To Treatment	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Ore Losses	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**			
Net Inflow	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
NORTHEAST SECTOR																
Lake A49	(m^3)	0	0	0	0	0	33,492	10,448	11,939	13,134	0	0	0	**69,013**	**33,492**	**0**
Rain Runoff	(m^3)	0	0	0	0	0	72,109	86,015	95,463	89,639	0	0	0	**343,226**	**95,463**	**0**
SWE Runoff	(m^3)	0	0	0	0	0	137,070	0	0	0	0	0	0	**137,070**	**137,070**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**242,671**	**96,463**	**107,402**	**102,773**	**0**	**0**	**0**			
Whale Tail Lake (North Basin) BaseLine	(m^3)	0	0	0	0	0	241,530	83,490	94,298	97,700	0	0	0	**517,018**	**241,530**	**0**
Whale Tail Lake (North Basin) Ops	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
C Watershed	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	1,141	12,973	13,104	5,073	0	0	0	**32,291**	**13,104**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**242,671**	**96,463**	**107,402**	**102,773**	**0**	**0**	**0**			
Net Inflow (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume (m^3)		118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	118,725	**1,424,700**	**118,725**	**118,725**
WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM																
Natural Runoff	(m^3)	0	0	0	0	0	25,008	10,283	11,413	10,717	0	0	0	**57,421**	**25,008**	**0**
Direct Precipitation	(m^3)	0	0	0	0	0	1	0	1	0	0	0	0	**3**	**1**	**0**
Whale Tail WRSF Runoff	(m^3)	0	0	0	0	0	16,801	1,172	1,172	391	0	0	0	**19,536**	**16,801**	**0**
Whale Tail WRSF Seepage	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overflow from WT ATT Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**41,810**	**11,455**	**12,586**	**11,108**	**0**	**0**	**0**			
Evaporation	(m^3)	0	0	0	0	0	0	1	1	0	0	0	0	**3**	**1**	**0**
Mammoth Lake	(m^3)	0	0	0	0	0	41,811	11,455	12,585	11,107	0	0	0	**76,958**	**41,811**	**0**
Seepage to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Quarry 1	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**41,811**	**11,456**	**12,586**	**11,107**	**0**	**0**	**0**			
Net Inflow (m^3)		0	0	0	0	0	-1	-1	-1	1	0	0	0	**-1**	**1**	**-1**
End-of-Month Volume (m^3)		1	1	1	1	1	1	1	1	1	1	1	1	**12**	**1**	**1**
NORTH SECTOR																
Natural Rainfall Runoff	(m^3)	0	0	0	0	0	9,170	10,938	12,139	11,399	0	0	0	**43,646**	**12,139**	**0**
Natural SWE Runoff	(m^3)	0	0	0	0	0	17,430	0	0	0	0	0	0	**17,430**	**17,430**	**0**
Whale Tail WRSF Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail WRSF Seepage	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**26,600**	**10,938**	**12,139**	**11,399**	**0**	**0**	**0**			
Evaporation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail (North Basin) / Whale Tail Attenuation Pond (Operations)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail (North Basin) / Whale Tail	(m^3)	0	0	0	0	0	26,600	10,938	12,139	11,399	0	0	0	**61,076**	**26,600**	**0**
WT Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**26,600**	**10,938**	**12,139**	**11,399**	**0**	**0**	**0**			
Net Inflow (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**

		Post Closure (2028 +)														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Totals	Max. Monthly Totals	Min. Monthly Totals
No. of days		**31**	**28**	**31**	**30**	**31**	**30**	**31**	**31**	**30**	**31**	**30**	**31**			
WHALE TAIL PIT																
Land Runoff	(m^3)	0	0	0	0	0	74,985	30,834	34,221	32,133	0	0	0	**172,173**	**74,985**	**0**
Lake Runoff	(m^3)	0	0	0	0	0	46,151	18,977	21,062	19,777	0	0	0	**105,967**	**46,151**	**0**
Pit Wall Runoff	(m^3)	0	0	0	0	0	4,855	1,996	2,216	2,081	0	0	0	**11,148**	**4,855**	**0**
Groundwater	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Drilling Water	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	15,346	6,310	7,003	6,576	0	0	0	**35,235**	**15,346**	**0**
North Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overburden Runoff	(m^3)	0	0	0	0	0	2,017	830	921	864	0	0	0	**4,632**	**2,017**	**0**
WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
NE Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond Overflow	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
From WTS	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Drawdown from WTN	(m^3)	9	8	9	9	9	9	9	9	9	9	9	9	**106**	**9**	**8**
Total Inflow (m^3)		**9**	**8**	**9**	**9**	**9**	**143,363**	**58,955**	**65,432**	**61,440**	**9**	**9**	**9**			
Evaporation	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Ore Losses	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater	(m^3)	9	8	9	9	9	9	9	9	9	9	9	9	**106**	**9**	**8**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Quarry 1	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**9**	**8**	**9**	**9**	**9**	**9**	**9**	**9**	**9**	**9**	**9**	**9**			
Net Inflow (m^3)		0	0	0	0	0	143,354	58,947	65,423	61,431	0	0	0	**329,155**	**143,354**	**0**
End-of-Month Volume (m^3)		25,380,000	25,380,000	25,380,000	25,380,000	25,380,000	25,380,000	25,380,000	25,380,000	25,380,000	25,380,000	25,380,000	25,380,000	**304,560,000**	**25,380,000**	**25,380,000**
WHALE TAIL LAKE (NORTH BASIN) & WHALE TAIL ATTENUATION POND																
Clean Area Runoff	(m^3)	0	0	0	0	0	39,467	16,229	18,012	16,913	0	0	0	**90,621**	**39,467**	**0**
Lakebed Sediment Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Direct Precipitation	(m^3)	0	0	0	0	0	114,462	47,067	52,237	49,050	0	0	0	**262,816**	**114,462**	**0**
Whale Tail WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater to Attn Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
GW to WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Seepage Thru Dike	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Dust Control	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Camp Biodisk	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Industrial Sector	(m^3)	0	0	0	0	0	16,344	6,721	7,459	7,004	0	0	0	**37,528**	**16,344**	**0**
Camp Sector Runoff	(m^3)	0	0	0	0	0	23,825	9,797	10,873	10,209	0	0	0	**54,704**	**23,825**	**0**
Ore Stockpile	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Natural WT Pit Runoff	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
NPAG to Attn Pond	(m^3)	0	0	0	0	0	12,319	5,066	5,622	5,279	0	0	0	**28,286**	**12,319**	**0**
Northeast Sector	(m^3)	0	0	0	0	0	241,530	83,490	94,298	97,700	0	0	0	**517,018**	**241,530**	**0**
A53	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
North Sector	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Lake (South Basin)	(m^3)	0	0	0	0	0	2,534,000	666,173	778,301	948,265	0	0	0	**4,926,739**	**2,534,000**	**0**
Whale Tail Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Pit Sector Runoff	(m^3)	0	0	0	0	0	97,203	39,970	44,361	41,654	0	0	0	**223,188**	**97,203**	**0**
Pumped from WTS to WTN	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**3,079,150**	**874,513**	**1,011,163**	**1,176,074**	**0**	**0**	**0**			
Mammoth Lake	(m^3)	0	0	0	0	0	3,097,000	780,225	917,014	1,146,000	0	0	0	**5,940,239**	**3,097,000**	**0**
Dewatering to WT Lake (South) bypass C-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Dewatering to Mammoth through C-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
O-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Seepage Water to WTS	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**4**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	9,257	105,216	106,278	41,140	0	0	0	**261,891**	**106,278**	**0**
Drawdown to WT Pit	(m^3)	9	8	9	9	9	9	9	9	9	9	9	9	**106**	**9**	**8**
WTN to Pits	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overflow to WT WRSF	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**9**	**9**	**9**	**9**	**9**	**3,106,266**	**885,450**	**1,023,301**	**1,187,149**	**9**	**9**	**9**			
Net Inflow (m^3)		-9	-9	-9	-9	-9	-27,116	-10,937	-12,138	-11,075	-9	-9	-9	**-61,340**	**-9**	**-27,116**
End-of-Month Volume (m^3)		5,572,000	5,572,000	5,572,000	5,571,000	5,571,000	5,572,000	5,572,000	5,572,000	5,572,000	5,572,000	5,572,000	5,572,000	**66,862,000**	**5,572,000**	**5,571,000**
WHALE TAIL LAKE (SOUTH BASIN)																
Rainfall Land Runoff	(m^3)	0	0	0	0	0	82,028	97,862	108,611	101,984	0	0	0	**390,485**	**108,611**	**0**
SWE Land Runoff	(m^3)	0	0	0	0	0	155,926	0	0	0	0	0	0	**155,926**	**155,926**	**0**
Rainfall Lake Runoff	(m^3)	0	0	0	0	0	36,801	43,884	48,705	45,733	0	0	0	**175,123**	**48,705**	**0**
SWE Lake Runoff	(m^3)	0	0	0	0	0	69,955	0	0	0	0	0	0	**69,955**	**69,955**	**0**
Lake A18	(m^3)	0	0	0	0	0	964,256	274,925	317,704	368,641	0	0	0	**1,925,526**	**964,256**	**0**
Lake A53	(m^3)	0	0	0	0	0	142,853	42,322	48,670	55,198	0	0	0	**289,043**	**142,853**	**0**
Lake A55	(m^3)	0	0	0	0	0	428,677	141,508	160,650	170,955	0	0	0	**901,790**	**428,677**	**0**
Lake A60	(m^3)	0	0	0	0	0	228,066	51,939	61,974	82,394	0	0	0	**424,373**	**228,066**	**0**
Lake A62	(m^3)	0	0	0	0	0	80,304	27,135	30,725	32,255	0	0	0	**170,419**	**80,304**	**0**
Lake A65	(m^3)	0	0	0	0	0	354,223	84,741	100,353	129,464	0	0	0	**668,781**	**354,223**	**0**
Whale Tail Dike Seepage Well Pumpback	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Lake (North Basin)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Discharge from O-WTP	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**2,543,089**	**764,316**	**877,392**	**986,624**	**0**	**0**	**0**			
Pumping to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Groundwater Infiltration	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**1**	**0**	**0**
Camp Use	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Dust Control	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Truck Shop	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Drilling Water	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Evaporation	(m^3)	0	0	0	0	0	8,633	98,101	99,092	38,358	0	0	0	**244,184**	**99,092**	**0**
Drawdown to Pit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Overflow to Mammoth	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
To WTN	(m^3)	0	0	0	0	0	2,534,000	666,173	778,301	948,265	0	0	0	**4,926,739**	**2,534,000**	**0**
To WTPit	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**2,542,633**	**764,274**	**877,393**	**986,623**	**0**	**0**	**0**			
Net Inflow (m^3)		0	0	0	0	0	456	42	-1	1	0	0	0	**497**	**456**	**-1**
End-of-Month Volume (m^3)		3,763,000	3,763,000	3,763,000	3,763,000	3,763,000	5,529,000	5,529,000	5,529,000	3,763,000	3,763,000	3,763,000	3,763,000	**50,454,000**	**5,529,000**	**3,763,000**
WATER TREATMENT																
Quarry 1	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
AP5	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Northeast Sector (TSS)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Lake (North Basin) (TSS)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Whale Tail Attenuation Pond (seepage)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Inflow (m^3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Bypass to Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
O-WTP to Mammoth Lake	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
O-WTP to Whale Tail Lake (South Basin)	(m^3)	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
Total Outflow (m^3)		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
Net Inflow (m^3)		0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	**0**
End-of-Month Volume (m^3)																

APPENDIX C

Water Balance Results – Flow Diagrams

General Water Movement - 2019

Gravity:

Pumping:

Net Runoff
-17,103
-2,597
0

Quarry 1

Dewatering
514,345
216,141
0

Pumped
200,665
110,155
0

Northeast Sector

Contact
208,082
110,805
0

Untreated
378,579
238,312
0

WRSF
216,492
111,893
0

Overburden

Net Runoff
434,343
151,804
-1,960

Diverted
260,771
195,237
0

TSS
218,341
192,424
0

Overburden
6,770
2,228
0

Pumped
479,567
160,304
0

Net Runoff
239,822
78,663
0

O-WTP

Whale Tail WRSF Contact Water Collection System

Whale Tail Pit

North Sector
89,280
29,382
0

Pumped
51,218
42,516
0

Dewatering
3,488,170
865,282
0

Treated
566,415
298,397
0

Total to Quarry 1	
Truck Shop	Drilling
37,631	12,554
3,196	2,170
2,887	0

Drilling
38,454
4,340
1,960

Seepage
1,585,120
297,600
0

Whale Tail Lake (North Basin)

Dewatering
2,058,335
1,046,000
0

Whale Tail Lake (South Basin)

Ore Stockpile	Industrial Sector	Camp Sector
8,676	46,181	79,966
2,855	15,198	26,317
0	0	0

Net Runoff
51,806
233,480
0

Camp Use/Biodisk
28,470
2,418
2,184

Outflow
469,393
163,790
0

Pumping
1,701,214
930,731
0

Discharge
3,348,178
1,063,020
0

Truck
0
0
0

- Truck Shop
- Drilling water

AP5

Dust Control
72,187
6,131
5,538

Lake A53

- Industrial Sector
- Exploration Camp Sector
- Main Camp Sector
- Whale Tail Ore Stockpile (No. 1)

Total from Nemo	
Truck shop	Drilling Water
37,631	51,100
3,196	4,340
2,887	3,920

Non-contact
0
0
0

Mammoth Lake

Net Runoff
-874,906
-259,508
0

C Watershed

Nemo Lake

Seepage
61,920
61,920
0

Legend:
Annual Total (m^3)
Maximum Monthly Total (m^3)
Minimum Monthly Total (m^3)

Note: Net runoff is runoff and Precipitation minus evaporation, seepage and ore losses

General Water Movement - January to June 2020

Gravity: ⇢

Pumping: →

Net Runoff
4,867
4,867
0

Quarry 1

Contact
262,213
246,542
2,990

WRSF
58,616
58,616
0

Northeast Sector

Overburden

Net Runoff
118,823
134,028
-2,900

Net Runoff
80,838
89,143
-1,595

TSS
241,530
241,530
0

O-WTP

Overburden
2,017
2,017
0

Whale Tail Pit
139,045
139,045
0

North Sector
26,600
26,600
0

Whale Tail WRSF Contact Water Collection System

Whale Tail Pit

Treated
1,334,955
262,734
130,913

Drilling
18,205
3,105
2,900

Seepage
1,211,700
260,400
126,000

Whale Tail Lake (North Basin)

Dewatering
1,334,955
262,734
130,913

Whale Tail Lake (South Basin)

Ore Stockpile	Industrial Sector	Camp Sector
7,819	9,278	23,825
7,819	9,278	23,825
0	0	0

Ore Stockpile	Industrial Sector	Camp Sector
0	0	0
0	0	0
0	0	0

Camp Use/Biodisk
14,196
2,418
2,262

Truck
0
0
0

Outflow
0
0
0

Overflow
4,052,000
4,052,000
0

Discharge
503,743
488,072
2,990

- Industrial Sector
- Exploration Camp Sector
- Main Camp Sector
- Whale Tail Ore Stockpile (No. 1)

Dust Control
35,995
6,131
5,736

Mammoth Lake

Lake A53

C Watershed

Nemo Lake

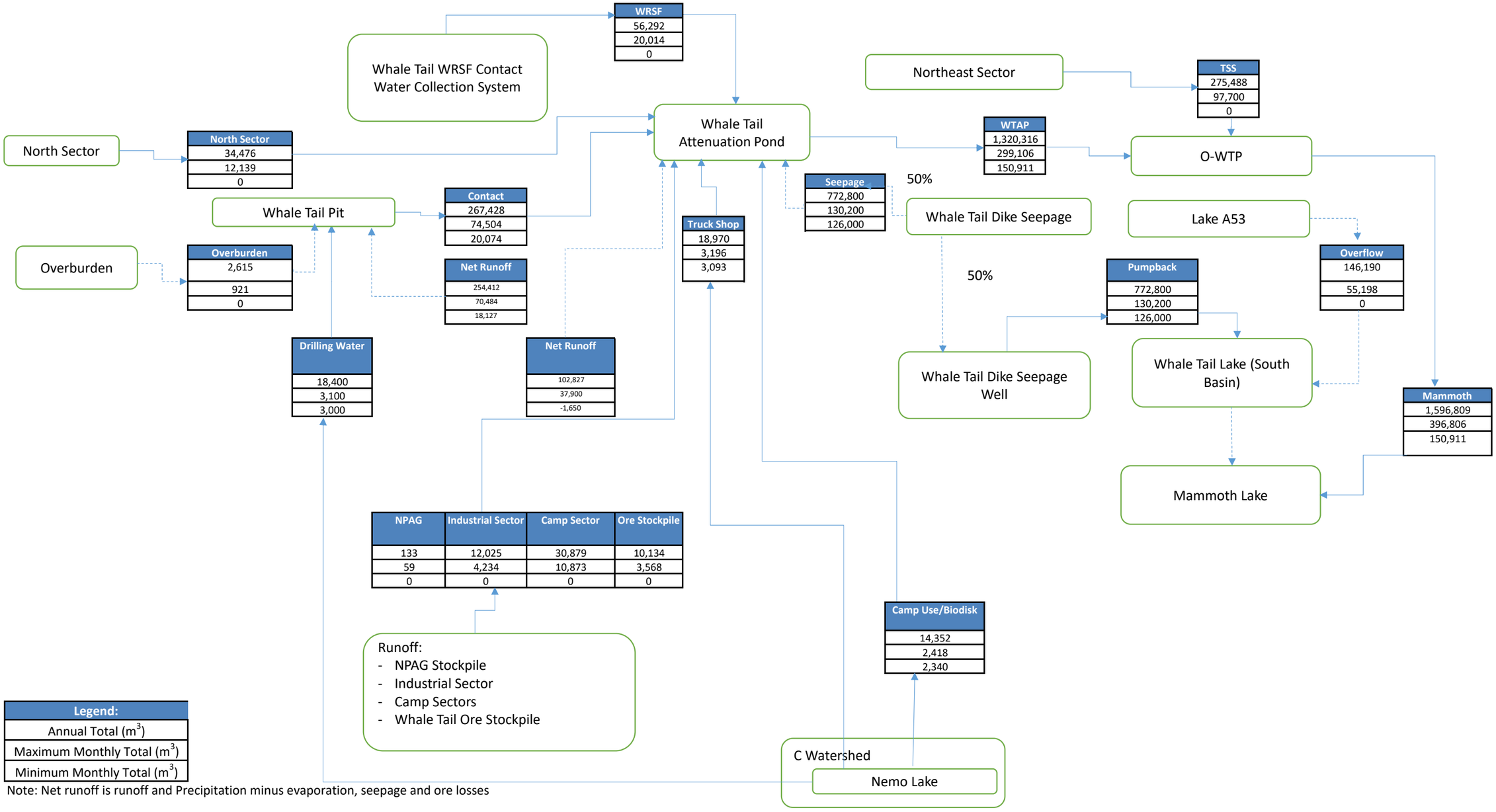
Net Runoff
134,894
134,894
0

Seepage
0
0
0

Legend:
Annual Total (m^3)
Maximum Monthly Total (m^3)
Minimum Monthly Total (m^3)

Note: Net runoff is runoff and Precipitation minus evaporation, seepage and ore losses

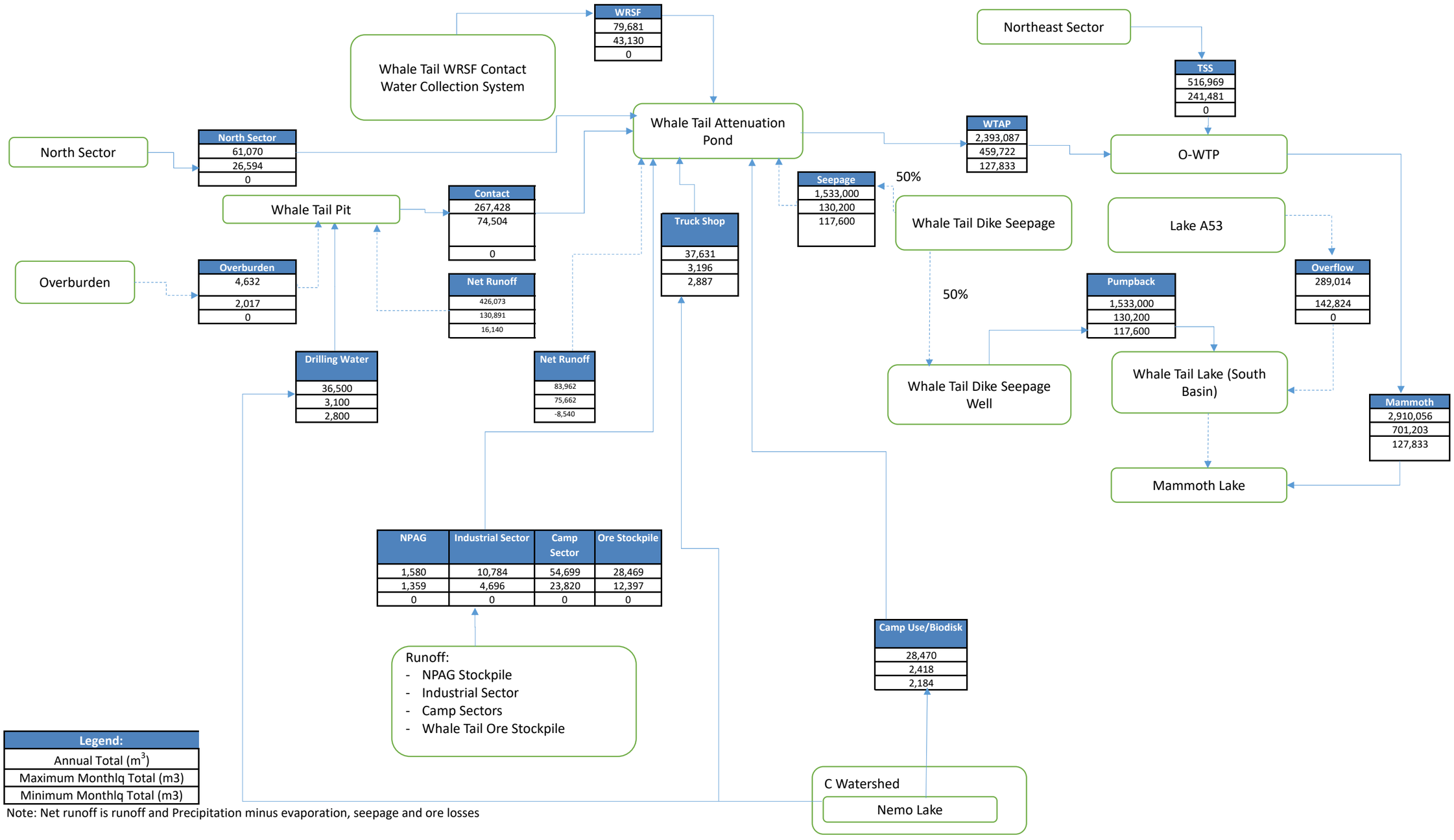
General Water Movement - July 2020 to December 2020



Legend:
Annual Total (m^3)
Maximum Monthly Total (m^3)
Minimum Monthly Total (m^3)

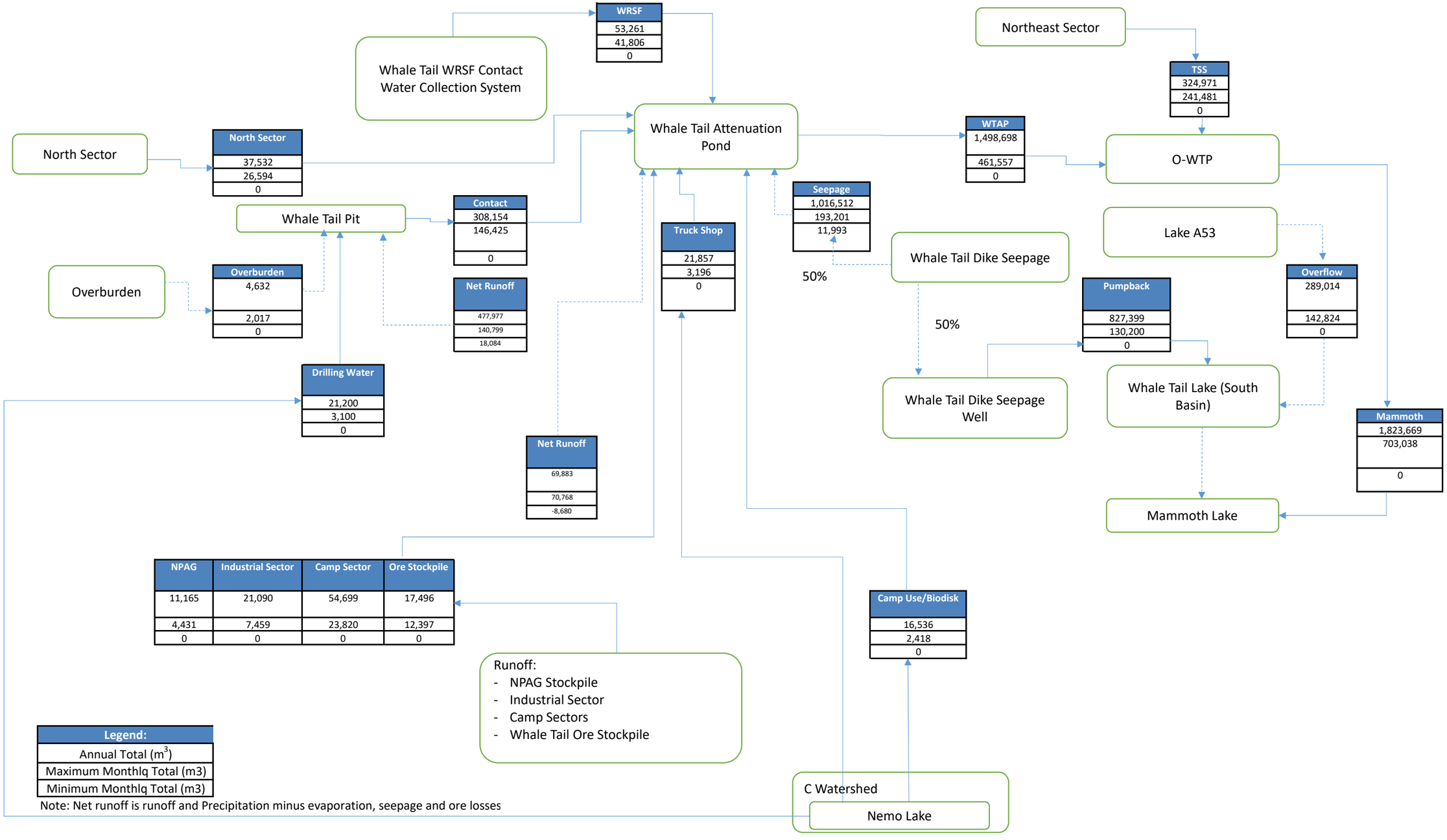
Note: Net runoff is runoff and Precipitation minus evaporation, seepage and ore losses

General Water Movement - 2021



Note: Net runoff is runoff and Precipitation minus evaporation, seepage and ore losses

General Water Movement - January - July 2022



Legend:
Annual Total (m^3)
Maximum Monthlq Total (m3)
Minimum Monthlq Total (m3)

Note: Net runoff is runoff and Precipitation minus evaporation, seepage and ore losses

General Water Movement - Whale Tail Pit Active Flooding
(Values shown for 2023)

Gravity: ⇢

Pumping: →

Whale Tail WRSF Contact Water Collection System

Inflows
76,953
41,806
0

- Ore Stockpile
- Whale Tail Camp and Industrial Sector

Consolidated Runoff
137,682
59,957
0

Overflow
107,328
52,902
0

Net Runoff
42,600
55,483
-8,156

Whale Tail Attenuation Pond

Camp Use/Biodisk
4,380
372
336

Net Runoff
550,197
164,212
16,872

WT Dike Seepage
136,479
12,378
10,268

Whale Tail Pit

Drawdown
5,490,000
1,395,000
0

Whale Tail Lake (South Basin)
(Drawdown – Start in August 2022)

Northeast Sector

Inflows
516,969
241,481
0

North Sector

Inflows
61,070
26,594
0

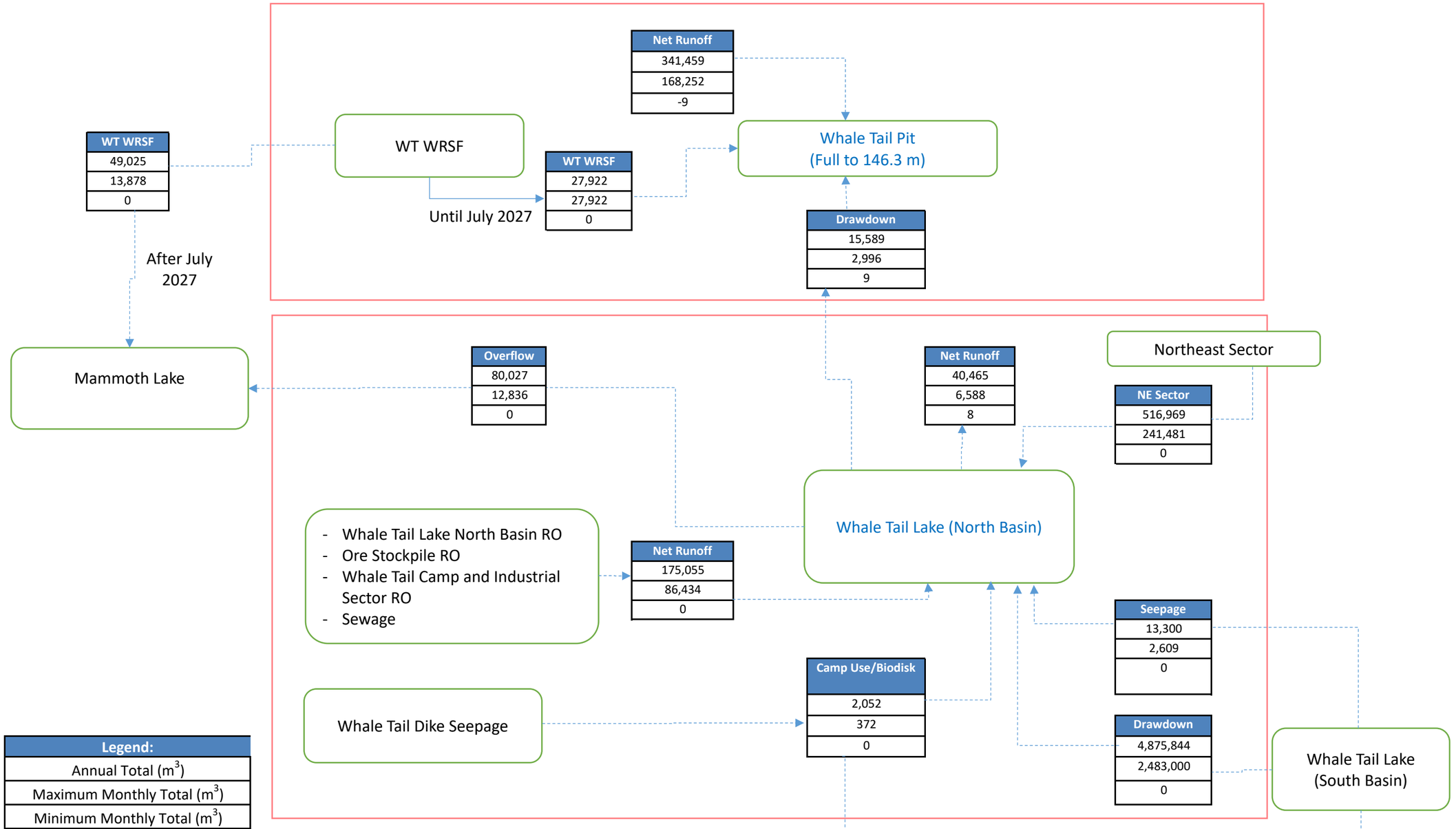
Legend:
Annual Total (m^3)
Maximum Monthly Total (m^3)
Minimum Monthly Total (m^3)

Note: Net runoff is runoff and Precipitation minus evaporation, seepage and ore losses

General Water Movement - Whale Tail Lake (North Basin) Active Flooding (Values shown for 2027)

Gravity: ⇢

Pumping: →



Legend:
Annual Total (m^3)
Maximum Monthly Total (m^3)
Minimum Monthly Total (m^3)

Note: Net runoff is runoff and Precipitation minus evaporation, seepage and ore losses

golder.com

APPENDIX D • WHALE TAIL WATER QUALITY FORECAST UPDATE

REPORT

Mine Site and Downstream Receiving Water Quality Predictions - 2019 Annual Report

Whale Tail Pit - Phase 1 Permit, Approved Project

Submitted to:

Frederick Bolduc
Mines Agnico-Eagle, Meadowbank Division
10200, route de Preissac
Rouyn-Noranda (Québec) J0Y 1C0

Submitted by:

Golder Associates Ltd.
1931 Robertson Road, Ottawa, Ontario, K2H 5B7, Canada

+1 613 592 9600

20136950-480-RPT-Rev0

March 2020

Distribution List

1 e-copy - Mines Agnico-Eagle

1 e-copy - Golder Associates Ltd.

Table of Contents

List of Acronyms ..... **V**

1.0 INTRODUCTION **1**

2.0 MODELLING APPROACH **3**

2.1 Water Balance and Mine Components Relevant to Water Quality Predictions 5

2.1.1 Changes to Approved Model 7

2.2 Mass Balance Model 9

2.2.1 Loading Sources to the Mass Balance Model 10

2.2.2 Changes to the Approved Model 11

3.0 WATER QUALITY PREDICTIONS **13**

3.1 Operations Phase 14

3.1.1 Surface Operations 14

3.1.2 Receiving Environment and Downstream Lakes 18

3.2 Closure 20

3.2.1 Surface Operations 20

3.2.2 Receiving Environment and Downstream Lakes 22

3.3 Post-Closure 23

4.0 CONCLUSIONS **24**

5.0 CLOSURE **25**

6.0 REFERENCES **26**

TABLES

Table 1: Changes in General Water Balance Assumptions Pertinent to the Water Quality Model 8

Table 2: Changes in Surface Facility Assumptions 12

FIGURES

Figure 1: Project Location 2

Figure 2: Site Layout, Final Mining Year 2022 3

Figure 3: Components of Modelling Package used for Water Quality Predictions for the Approved Project 5

Figure *4: Receiving Environment Flow Paths and Prediction Locations* 7

Figure 5: Projected total phosphorus (a) and total arsenic (b) concentrations for the Whale Tail WRSF during operations. Open circles represent non-detected values at the detection limit for measured data. 15

Figure 6: Projected total phosphorus (a) and total arsenic (b) concentrations for Quarry 1 and the Whale Tail Pit sump during operations. Open circles represent non-detected values at the detection limit for measured data. 16

Figure 7: Projected total phosphorus (a) and total arsenic (b) concentrations for the Quarry 1 and Whale Tail Attenuation Pond prior to treatment, and treated WTP effluent discharge during operations. Open circles represent non-detected values at the detection limit for measured data. 18

Figure 8: Projected total phosphorus (a) and total arsenic (b) concentrations for the receiving and downstream environment during operations. Open circles represent non-detected values at the detection limit in measured data. 20

Figure 9: Projected total phosphorus (a) and total arsenic (b) concentrations for the Whale Tail WRSF pond in closure and post-closure. 21

Figure 10: Projected total phosphorus (a) and total arsenic (b) concentrations for the Whale Tail Pit, the Whale Tail Attenuation Pond, and the receiving environment during closure and post-closure. 23

APPENDICES

APPENDIX A
Geochemical Source Terms and Water Quality Inputs

APPENDIX B
Mass Balance Inputs and Assumptions

APPENDIX C
Site and Downstream Water Quality Model Results

List of Acronyms

Agnico Eagle	Agnico Eagle Mines Limited – Meadowbank Division
Approved Project	Whale Tail Pit and Haul Road
CEQG-PAL	Canadian Environmental Quality Guidelines for the Protection of Aquatic Life
CCME	Canadian Council of Ministers of the Environment
EA	Environmental Assessment
EQC	Effluent Quality Criteria
Expansion Project	Whale Tail Pit – Expansion Project
FEIS	Final Environmental Impact Statement
Golder	Golder Associates Ltd.
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
SSWQO	Site specific water quality objective
STP	Sewage Treatment Plant
TDS	Total Dissolved Solids
TSS	Total Suspended Solids
WRSF	Waste Rock Storage Facility

1.0 INTRODUCTION

Agnico Eagle Mines Limited Meadowbank Division (Agnico Eagle) is currently operating the Whale Tail satellite deposit on the Amaruq exploration property, which is a 408-square kilometre (km^2) site located on Inuit-owned Land approximately 150 kilometres (km) north of the hamlet of Baker Lake and approximately 50 km northwest of the Meadowbank Mine, in the Kivalliq region of Nunavut (Figure 1). The property was acquired by Agnico Eagle in April 2013 subject to a mineral exploration agreement with Nunavut Tunngavik Incorporated.

The Approved Project supports mining of ore from one open pit (i.e., Whale Tail Pit) and its processing over a three- to four-year mine life. The project will see deposits being mined using conventional open pit mining methods. Waste rock and overburden will be stored in the Whale Tail Waste Rock Storage Facility (WRSF); excess non potentially acid generating or metal leaching (NPAG/NML) waste rock will be segregated and stockpiled separately (Figure 2). 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.

Water quality predictions for the Approved Project were completed by Golder Associates Ltd. (Golder) in 2016 to support the Environmental Assessment (EA) and Water Licence Type A Application for the Whale Tail Pit (Agnico Eagle 2016a), which were revised in 2017 to support the regulatory process. Further updates to the water quality predictions were 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 (Golder 2018a), 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. 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 large positive effect on water quality including a decrease in the arsenic and phosphorus loads to the receiving environment throughout mine life.

Golder was retained to forecast the probable quality of mine contact water to support the annual reporting, as mandated in the Type A Water Licence 2AM-WTP1826. The site and downstream water quality models were retroactively updated from the model used to support the Type A Water Licence Amendment for the Expansion Project (Golder 2019a). This allows for the incorporation of an increased level of understanding of system processes acquired throughout the past modelling efforts for the Approved and Expansion Projects, including the understanding of Waste Rock Storage Facility (WRSF) hydrology and updated hydrogeological inputs. Furthermore, the site water balance and water quality model for the Approved Project has been updated with the recorded water transfers in 2019. This report provides a summary of the modelling approach, including the parameters and assumptions adopted in the mass balance model, and a summary of the water quality forecasts of the main mine components and downstream receiving environment.

Whale Tail Pit

Pipedream Lake

Vault Pit

Tehek Lake

Baker Lake to Meadowbank Mine (107.5 km)

Schultz Lake

Baker Lake

Baker Lake

560000 580000 600000 620000 640000 660000 680000 700000 720000

7260000 7240000 7220000 7200000 7180000 7160000 7140000 7120000

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

AGNICO EAGLE MINES LIMITED: MEADOWBANK DIVISION

PROJECT

WHALE TAIL PIT

TITLE

PROJECT LOCATION

CONSULTANT

GOLDER

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

PROJECT NO.	CONTROL	REV.	FIGURE
1896037	1300/1340	0	1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

25mm

0

PATH: Y:\Burnaby\CAD-GIS\Client\Agnico_Eagle_Mines_Ltd\Whale_Tail\9_PROJECTS\1896037\02_PRODUCTION\1300\MXD\1340\Report\1896037_1300_1340_1_1_1_PROJECT_LOCATION.mxd PRINTED ON: 2018-11-22 AT: 9:34:08 AM

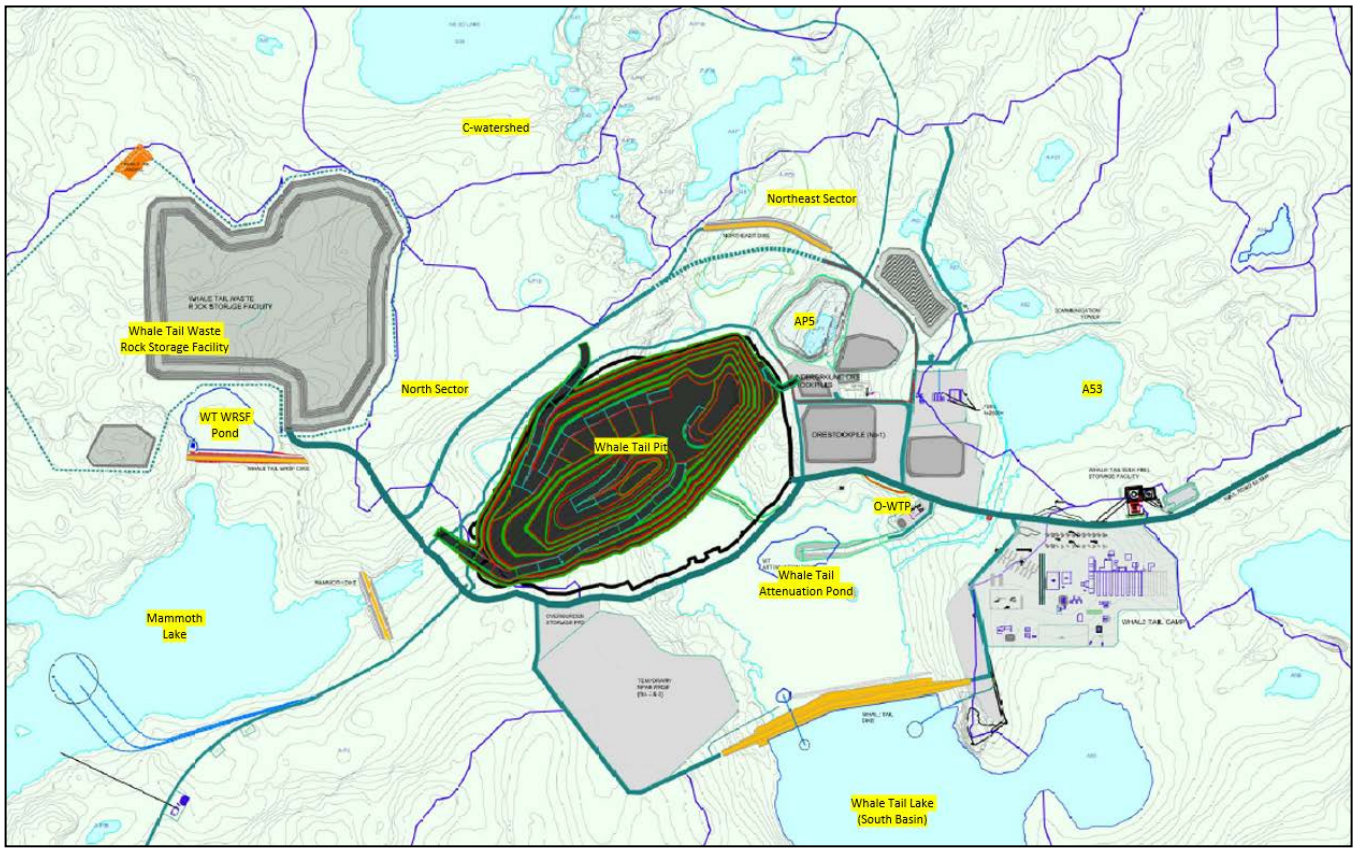


Figure 2: Site Layout, Final Mining Year 2022

2.0 MODELLING APPROACH

The model was completed using GoldSim software version 11.1 (GoldSim 2016). 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. The GoldSim mass balance model is integrated with the water balance model for operations, closure, and post-closure (Golder 2020a). Each flow that could influence site discharge water quality for the Approved 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, baseline surface water quality monitoring data, and site groundwater monitoring data.

Many of the geochemical assumptions are consistent with the existing model used for the Approved Project although there have been some updates to constituent leaching rates from new and on-going test work. Additionally updates were made based on information from other models (Figure 3) to simulate the hydrogeological inflows, submerged pit wall diffusion of arsenic, and hydrogeochemical properties of the flooded pit lake and Mammoth Lake. Results of the other models that are incorporated into the GoldSim Model include the following:

- Hydrogeological model (Golder 2020b) to project groundwater flows and water quality into the Whale Tail Attenuation Pond and Whale Tail Pit in operations, closure, and post closure;

- Thermal modelling of the Whale Tail WRSF to project the extent of the active layer (Golder 2019b);
- Hydrological modelling of the Whale Tail WRSF to project runoff, basal seepage, and interflow volumes, flow interaction depths, and material with which the flows interact (Appendix E of Golder 2019c);
- Hydrodynamic model for Mammoth Lake (Golder 2019d) to project the extent of mixing within the lake in operations and post-closure;
- Hydrodynamic pit lake models for Whale Tail Pit to project development of stratification and frequency of turnover events during and after flooding (Golder 2019e); and
- Effluent dispersion models for Mammoth Lake to project the extent of the effluent plume in the receiving environment during operations (Golder 2019f).

Of particular importance, as this introduces a conceptual change and model update relative to the previous Approved Project model, is that the hydrodynamic pit lake model suggests twice-annual turnover; these processes are then reflected in the GoldSim site water quality model by assuming fully mixed conditions year-round. Additionally, the hydrodynamic Mammoth Lake model suggests full mixing of effluent water within Mammoth Lake, which is also reflected in the GoldSim downstream water quality model.

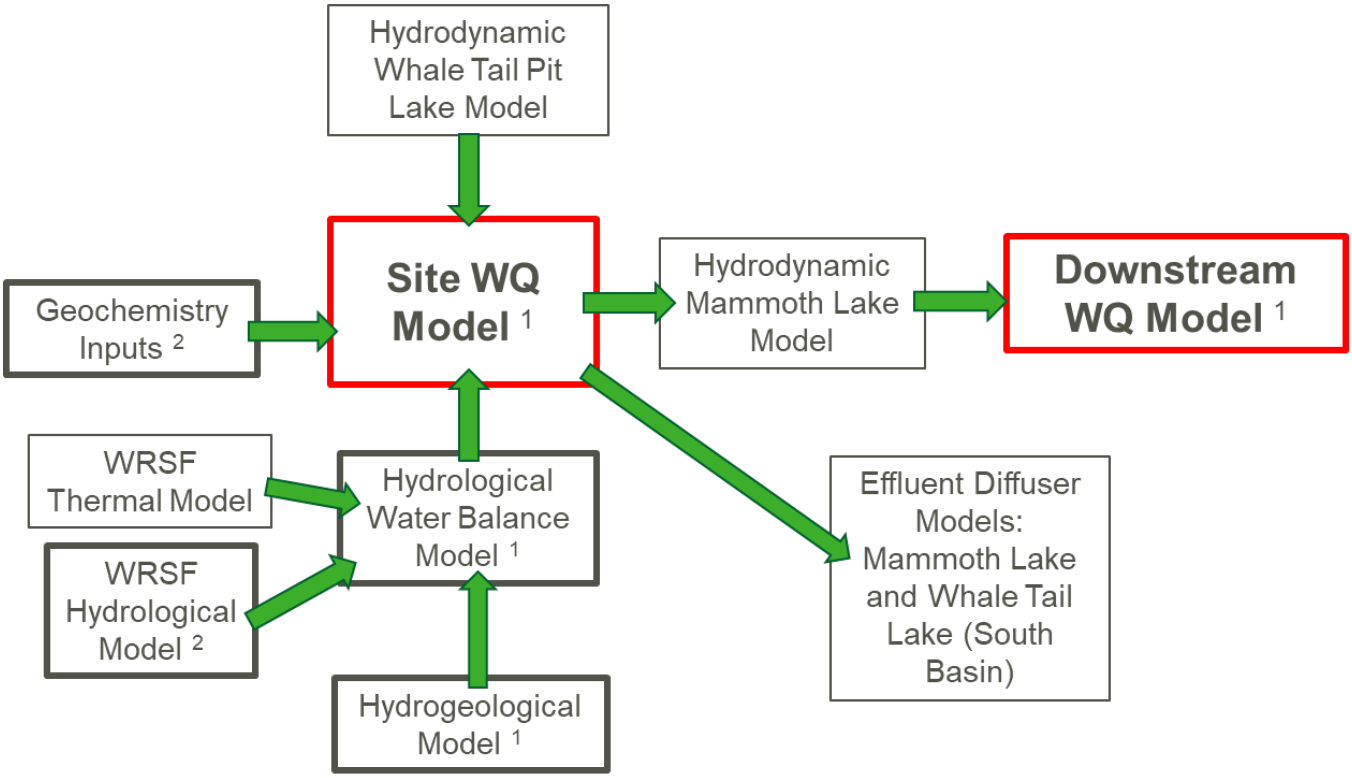
In the GoldSim model, on-site facilities that accumulate water (e.g., water management ponds, pits, and sumps) are treated as distinct reservoirs within the model. Inflow volumes and concentrations or mass loads are included as inputs to each reservoir to account for chemical loadings from natural areas,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

The water quality model is designed to estimate these chemistries as a monthly average concentration, from construction (2018 – 2019), through operations (2019 – July 2022), closure (August 2022 – June 2027), into post-closure (July 2027+). It tracks the chemistry of the following water quality constituent groups:

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

Total dissolved solids (TDS) was not modelled but is calculated externally using the predictions of major ions as per the APHA (2017).

Total constituent concentrations are calculated based on modelled dissolved concentrations for on-site facilities, accounting for a particulate fraction for each constituent based on a total suspended solids (TSS) concentration and associated geochemical testing, which is added to the modelled dissolved concentrations. These total constituents were tracked as they dispersed hydrodynamically in the downstream receiving environment without accounting for any settling out of particulate matter. Particulate fractions are discussed further in Appendix B.



Bold boxes highlight changes made to this model version
1 – Models were updated for the current Annual Report
2 – Models were included in Expansion Project Water Licence A Amendment Application and applied to the Approved Project

Figure 3: Components of Modelling Package used for Water Quality Predictions for the Approved Project

2.1 Water Balance and Mine Components Relevant to Water Quality Predictions

The operational, closure, and post-closure mine site water balance for the Approved Project was completed and documented in the Water Balance Report (Golder 2020a). 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) and Mammoth Lake.
- Quarry 1, the collection point for mine contact water prior to Whale Tail Lake (North Basin) being dewatered. Quarry 1 becomes part of the Whale Tail Pit in July 2020, when the Whale Tail Attenuation Pond is available to collect site contact water.
- 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 (WRSF Pond), which will collect contact water from the Whale Tail WRSF. The Whale Tail WRSF will be progressively covered throughout operations.
- A marginal ore pile located within the footprint of the Whale Tail WRSF.
- The North Sump, which diverts water from the Whale Tail Pit catchment area to the active contact water management pond.

- A NPAG/NML stockpile that will store material used for the progressive cover of the WRSF.
- 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 diverted to Whale Tail Lake (North Basin) during the dewatering period, or Whale Tail Lake (South Basin) during operations.
- Whale Tail Attenuation Pond, the final collection point for all surface contact waters during operations, starting in July 2020.
- AP5, which is temporarily used to accommodate the storage of contact water on site between Q4 2017 and December 2019.
- Water Treatment Plant for Total Suspended Solids (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 1,600 m^3/hr and discharges to Mammoth Lake during operations. The O-WTP is not intended to be required for closure purposes but will remain on site as a contingency.
- A sewage treatment plant (STP), which discharges treated effluent at a rate of 77.8 m^3/day in operations and 12 m^3/day in closure. No STP is required in post-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) (Figure 4).
- Mammoth Lake Outlet (Figure 4).
- 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 [hereafter referred to as DS1 and DS2, respectively]) (Figure 4).

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

Dewatering flows, seepage flows, and surface contact water flows are captured and treated through the O-WTP year-round. Site contact water that has been shown not to exceed effluent limits is discharged directly through the diffusers without requiring treatment.

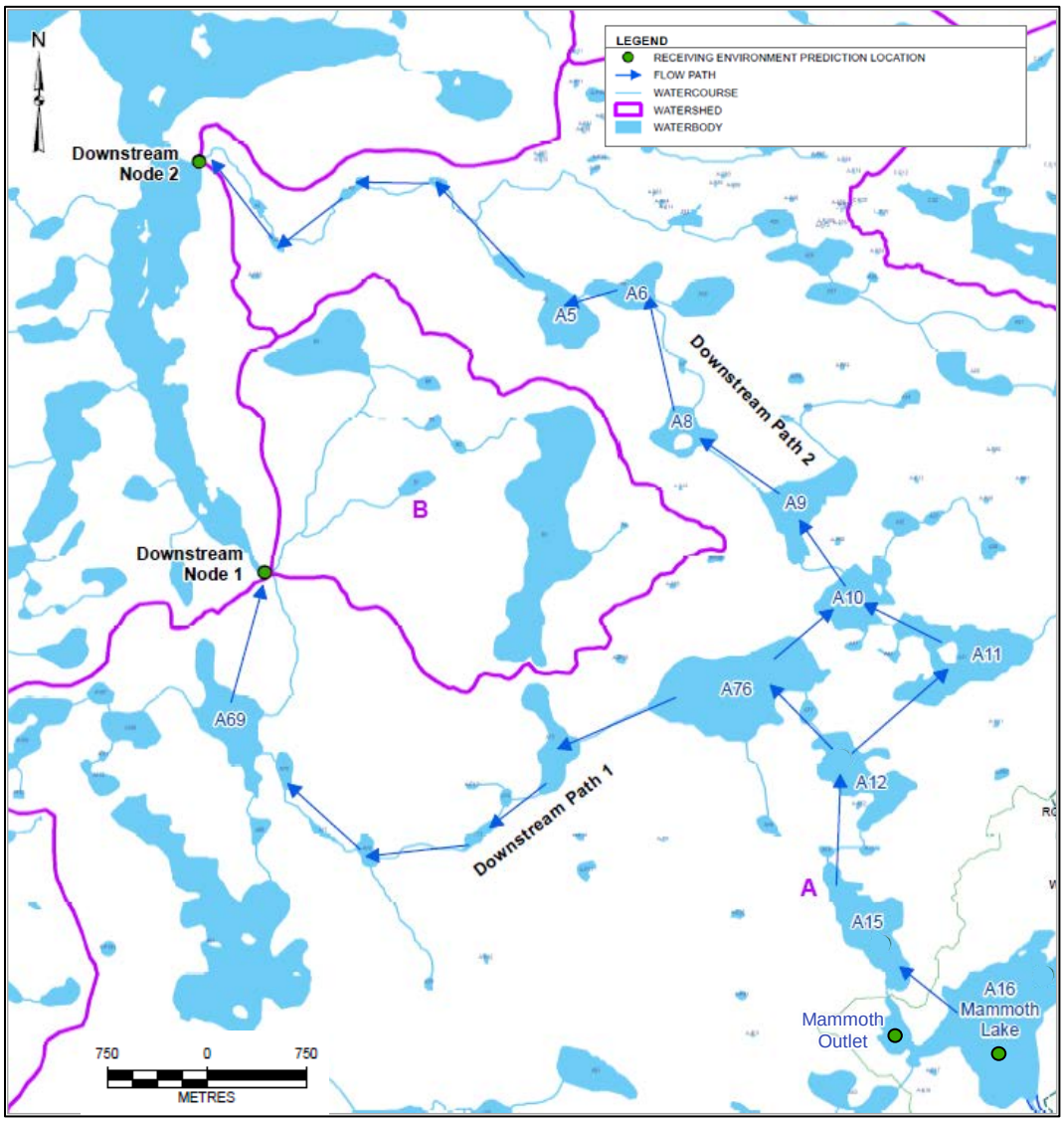


Figure *4: Receiving Environment Flow Paths and Prediction Locations*

2.1.1 Changes to Approved Model

The following updates were made to the site water balance model, which potentially influence water quality predictions:

- WRSF runoff and seepage flows: These flows were updated (Appendix E of Golder 2019c). Basal seepage from the WRSF was determined to be negligible and was therefore not included in the updates. Runoff from the WRSF is predicted to be approximately 5% of the annual precipitation. The remaining precipitation is lost to evaporation or infiltrates the piles. The water that infiltrates will percolate vertically through the WRSF and will become locked in the frozen core. Less than 1% of precipitation is expected to report as interflow, which is infiltrated water that flows laterally within the cover system.
- Hydrogeological inflows: Hydrogeological inflows to Whale Tail Lake (North Basin)/Whale Tail Attenuation Pond and Whale Tail Pit were updated following updated hydrogeological model predictions during operations, closure, and post-closure (Golder 2020b).

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

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

Property	Assumption	Operations (2018 – July 2022)	Closure (August 2022 – June 2027)[1]	Post-Closure (≥July 2027)
On-Site Assumptions:				
Whale Tail 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 Contact Water Collection System	A flow-through system (i.e., no accumulation of volume) through operations and closure, with the exception of some accumulation through 2019, based off actual site data.	X	X	
Whale Tail Pit groundwater inflows and outflows	Groundwater inflows and outflows are determined through hydrogeological modelling. Modelling 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 2020).	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.			X
Operational efficiency of the O-WTP	The O-WTP is assumed to have an operational efficiency of 85%; that is, it is assumed to be down for maintenance or other operational reasons 15% of the time.	X		
AP5 Closure and Post-closure	Remaining water content of AP5 is removed at closure and AP5 is subsequently backfilled with NPAG/NML waste rock. Catchment runoff flows by gravity ultimately to the Whale Tail Pit Lake/North Basin.		X	X
Receiving and Downstream Environment Assumptions:				
Ice formation	2.0 m of ice is conservatively assumed to form instantaneously over the entire surface area of Mammoth Lake and Whale Tail Lake (South Basin) on October 1 of every year. The volume of ice is then melted back into the respective lake over a 30-day period in each subsequent June.	X	X	X
Whale Tail Lake (South Basin)	Seepage and shallow groundwater conducted through the base of the Whale Tail Dike and collected in the Whale Tail Dike Well sump is intermittently managed by pumping back to Whale Tail Lake (South Basin) throughout 2019. In 2020, it is assumed that the sump collects 50% of the seepage and shallow groundwater, which is consistently pumped back to Whale Tail Lake (South Basin). The lake is assumed to be instantly mixed; hydrodynamic modelling predictions showed Whale Tail Lake (South Basin) will be fully mixed.	X	X	X

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

Property	Assumption	Operations (2018 – July 2022)	Closure (August 2022 – June 2027)[1]	Post-Closure (≥July 2027)
Mammoth Lake	Received some non-contact water flow from Whale Tail Lake (South Basin) in 2019 as part of the Whale Tail Project Water Management Strategy (Agnico Eagle 2019d). Received some Whale Tail WRSF Pond seepage through the Whale Tail WRSF dike as documented by Agnico Eagle (2020a). Assumed to be instantly mixed as modelled (Golder 2019d).	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

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 at that time, 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 = metre; masl = metres above sea level; m^3/hr = cubic metres per hour; % = percent.; AP5 = temporary contact water storage pond; TSS = total suspended solids; TDS = total dissolved solids

2.2 Mass Balance Model

This section summarizes the mass balance inputs and assumptions for on-site facilities and the downstream receiving environment. Generally, water management on site can be separated into:

- Surface contact water flows, which are managed through Quarry 1, AP5, and the Whale Tail Attenuation Pond:
  - 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 WRSF
  - Camp use water
- Non-contact flows:
  - Diverted natural catchment runoff (i.e., Northeast Pond)
  - Lake dewatering flows (i.e., Whale Tail Lake [North Basin])
  - Dike seepage, which is collected separately and discharged directly without requiring treatment

These flows are managed by the following facilities:

- Whale Tail WRSF Pond: Receives natural runoff from the catchment area, runoff from the WRSF, and direct precipitation.
- Quarry 1: Begins development in late 2017, and acts as a collection point for all site contact water until July 2020. It also receives natural catchment runoff, pit wall runoff, and drilling fluids. In July 2020 it becomes part of the larger Whale Tail Pit.
- Whale Tail Pit: Receives pit wall runoff, natural catchment runoff, direct precipitation on the sump pond surface, drilling fluids, and groundwater inflows, which are a combination of regional groundwater, Whale Tail Lake (South Basin) water, and Whale Tail Attenuation Pond water.
- Whale Tail Attenuation Pond: Receives all site contact water beginning in July 2020. It also receives natural catchment runoff (natural runoff and lakebed sediment runoff), direct precipitation, treated sewage effluent, and groundwater inflows, which are a combination of regional groundwater and Whale Tail Lake (South Basin) water.
- Whale Tail South Dike seepage collection point: Collects seepage through the Whale Tail South Dike, which is primarily lake water from Whale Tail Lake (South Basin) but contains a component of regional groundwater inflow and 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) without treatment when water quality is appropriate for direct discharge. In late 2019, activities commenced to install a grout curtain beneath the Whale Tail Dike. At this point, all seepage through the dike was directed to the Whale Tail Attenuation Pond and included in the flow through the O-WTP. This will continue until the installation of the grout curtain is complete, as such activities contribute elevated concentrations of constituents associated with grout, and TSS. Water will not be pumped to Whale Tail Lake (South Basin) during this time (Agnico Eagle 2019e).
- AP5: Temporarily collects contact water until December 2020, as well as portal catchment runoff.
- Water Treatment Plants: The final site effluent is a combination of water treated through the O-WTP (for phosphorus, arsenic, and TSS) and untreated dewatering and seepage flows. The treated effluent is discharged to Mammoth Lake; however, some seepage flows and direct discharge flows (not requiring treatment) are directed to Whale Tail Lake (South Basin).

2.2.1 Loading Sources to the Mass Balance Model

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

- Whale Tail WRSF
- Ore Stockpiles
- Construction Material Stockpile
- Developed areas
- NPAG/NML Stockpile
- Pit walls
- Landfarm

- Lakebed sediments
- Groundwater inflows

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; as such, loading from these sources was considered negligible and not taken into account in the site water quality model. Further details on the assumptions surrounding mass loads may be found in Appendix A and B.

2.2.2 Changes to the Approved Model

General site water quality and chemical loading rate inputs and assumptions have been maintained from the Water Licence Amendment Application model, and relevant assumptions can be found in Appendix B. Notable updates and changes to inputs and assumptions in the Approved Model are listed below and in Table 2.

- The inclusion of predictions of total constituents on site and in the downstream receiving environment.
- The location of a landfarm within the catchment area of Lake A53.
- 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 versus cover in the WRSF were provided by the results of the hydrological WRSF modelling (Appendix E of Golder 2019c).
- 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).
- Ice formation on Mammoth Lake and Whale Tail Lake (South Basin), to conservatively simulate the effects of cryo-concentration.
- Update of the composition and lithological proportions of waste rock in the Whale Tail WRSF and exposed in the pit walls. The pit wall proportions were approximated and applied as constant values over the life of mine. Waste rock tonnages and proportions, and pit wall areas and proportions are shown in Appendix B and described below:
  - The area of lithologies exposed in the final pit shell were provided by Agnico Eagle.
  - The monthly to quarterly tonnages of total waste rock, ore, and overburden mined over the life of mine from each pit were provided by Agnico Eagle (2020b).
  - As the general orientation of lithologies in the pit is vertical, the areas of the lithologies in the final pit shell were also applied to the total tonnage of waste rock. The lithological tonnages were then adjusted to account for the use of NPAG/NML material as construction material, and ore that would be segregated from the waste rock. Lithological proportions in the active layer of the WRSF were calculated using these final tonnages.
  - Areas of lithologies exposed in the walls of the early Whale Tail Pit and Quarry 1 were defined based on figures of the block model provided by Agnico Eagle.

Table 2: Changes in Surface Facility Assumptions

Item	Approved FEIS	Approved Annual Reporting 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 modelling (Appendix E of Golder 2019c).
Seepage in WRSF	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 2019c).
Interflow (infiltrated flow throughout the cover material) in WRSF	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 2019c)
Ratio of waste rock to cover material interacting with runoff in WRSF	WRSF is assumed to be covered only in closure.	WRSF is covered progressively; ratio of waste rock to cover material in the Whale Tail WRSF is applied	To remain consistent with results of the hydrological WRSF modelling (Appendix E of Golder 2019c).
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 of Golder 2019a 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
Assumed TSS in site facilities	15 mg/L	15 mg/L	Consistent with MDMER effluent regulations.
Assumed TSS in treated effluent	15 mg/L	Winter: 15 mg/L Summer: 7.5 mg/L	Consistent with MDMER effluent regulations, and anticipated treatment efficiency of O-WTP. Considered conservative based on site data.
Assumed TSS in Pit Lake in post-closure	15 mg/L	1 mg/L	Golder 2019f
Assumed TSS in Whale Tail WRSF Pond in post-closure	15 mg/L	10 mg/L	Golder 2019f

3.0 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. Time series figures comparing modelled concentrations to measured data and applicable guidelines are included in the following sections for arsenic and phosphorus as these constituents presented the highest number of modelled exceedances.

Modelled water quality constituent predictions represent total constituent concentrations. Total concentrations for on-site facilities during operations and closure are estimated using an assumption of 15 mg/L of TSS to calculate a particulate fraction for each constituent that is then added to the modelled dissolved concentration. It is possible that TSS concentrations in the facilities on site will exceed 15 mg/L; however, all site contact water is collected and treated to a maximum of 15 mg/L TSS when necessary, prior to discharge. It is anticipated that treatment efficiency in the summer months will allow for a treated concentration of 7.5 mg/L of TSS. Therefore, predicted treated effluent concentrations assume a TSS concentration of 15 mg/L in the winter and 7.5 mg/L in the summer (Agnico Eagle, pers. comm 2019). Once total constituents enter the downstream environment, they are treated conservatively and are only subject to dispersion (i.e., are assumed to remain in suspension and not settle out).

Predicted concentrations have been compared to specific water quality criteria; constituents that exceed their applicable criteria are highlighted in Appendix C. On-site water quality predictions are compared to the Water Licence effluent limits (or effluent quality criteria; EQC) (NWB 2018) in operations and closure, while the post-closure predictions are compared to the Canadian Council of Ministers of Environment Canadian Environmental Quality Guidelines for the Protection of Aquatic Life (CEQG-PAL) (CCME 2007). The downstream receiving environment predictions throughout operations, closure, and post-closure, are also compared to the CCME guidelines. 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 CCME guidelines.

Predicted concentrations are monthly mean values. Given the uncertainties associated with the modelling 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 site water quality conditions are influenced by each of the source terms during operations and closure is bound by some uncertainty. For example, the actual rate of dissolution of rock particles in the WRSF and the subsequent release of chemical constituents into drainage water will be heavily influenced by the mining sequence and its timing (e.g., the quantity and types of rock lithologies exposed and area of development as mining advances). Site water quality conditions will also be influenced by the volume of water infiltrating the rock pile, and thus the degree of contact between water and rock and dissolution kinetics under site conditions, and the internal characteristics of the pile itself (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 modelling has assumed that site contact water streams will not be influenced by acid rock drainage inputs. It is assumed that PAG rock management is effective at preventing the development of acid rock drainage by segregating and progressively covering the Whale Tail WRSF 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 pH of most contact water streams is therefore 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 (Golder 2018b).

The input of explosives by-products (i.e., ammonia and nitrate) to site contact water streams has been included in the modelling. The concentration of these nitrogen residuals 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.

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

3.1 Operations Phase

3.1.1 Surface Operations

The quality of surface infrastructure contact waters including the Whale Tail WRSF Contact Water Collection System, Whale Tail Pit sump, Quarry 1, and Whale Tail Attenuation Pond are all predicted to meet the Water Licence effluent limits for all constituents except arsenic and occasionally, phosphorus, indicating the need for treatment in order to meet site effluent limits. Treatment of arsenic, phosphorus, and TSS in the discharge to their effluent limits (or achievable treatment limits, in the case of total phosphorus) was assumed in the modelling and carried into the receiving environment; all other constituents are not modelled as being treated at the discharge point.

Whale Tail WRSF

Phosphorus and arsenic concentration in the 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.

The model is currently showing a slight underprediction of total phosphorus concentrations and an overprediction of total arsenic concentration compared to measured site data. The slight underprediction of total phosphorus is within an order of magnitude and is considered to be within the error of the model, and the measured data remain well below the effluent limit. The overprediction of total arsenic concentrations is more than an order of magnitude. However, despite these discrepancies, WRSF contact water is intended to be treated when necessary, so the risk from this input source to the receiving environment is low. Should the discrepancy between measured and modelled arsenic and phosphorus continue in subsequent years, the loading rates and/or conceptual model for the WRSF will be revisited.

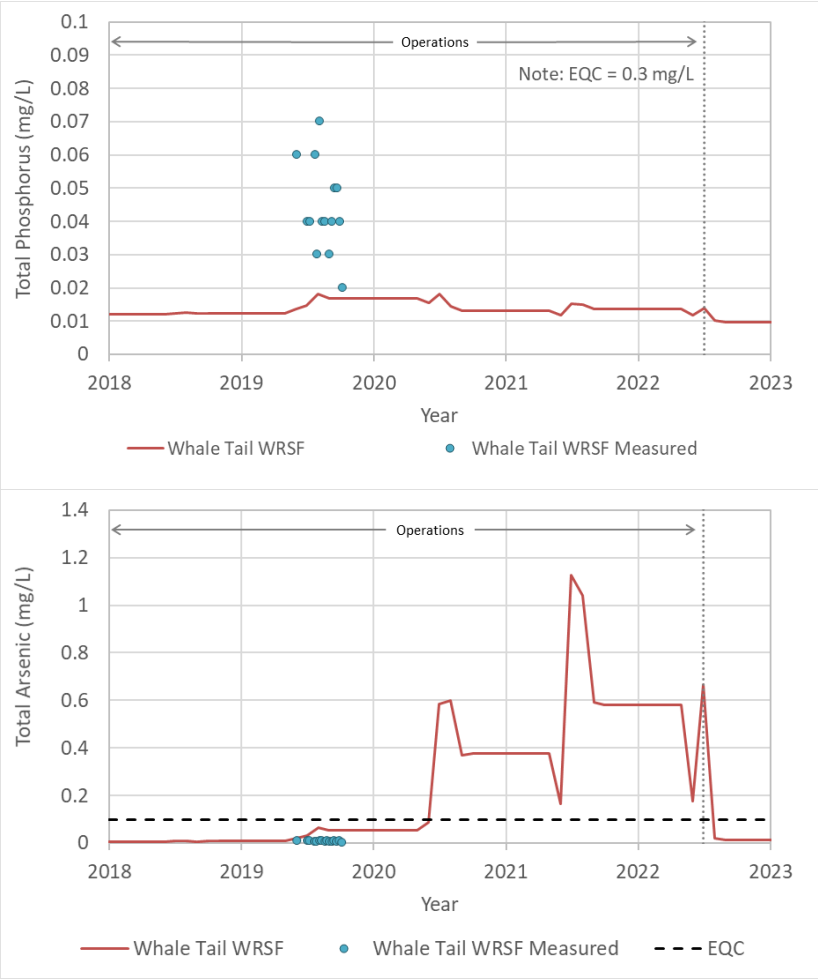


Figure 5: Projected total phosphorus (a) and total arsenic (b) concentrations for the Whale Tail WRSF during operations. Open circles represent non-detected values at the detection limit for measured data.

Whale Tail Pit

In the Whale Tail Pit sump (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. Conversely, predicted phosphorus concentrations are lower throughout the summer and become elevated in the winter, due to the relatively undiluted groundwater inflows.

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. 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.

Measured pit sump data shows general agreement between measured total arsenic concentrations and predicted values. There is some daily variability in the measured data that show that higher concentrations in the pit sump

are possible; however, the majority of the data are consistent with and within the same order of magnitude as the predicted concentrations. Similar to the WRSF, some discrepancy exists between measured data and modelled total phosphorus; this discrepancy will be monitored with pit development, and loading rates and/or the conceptual model revisited if necessary.

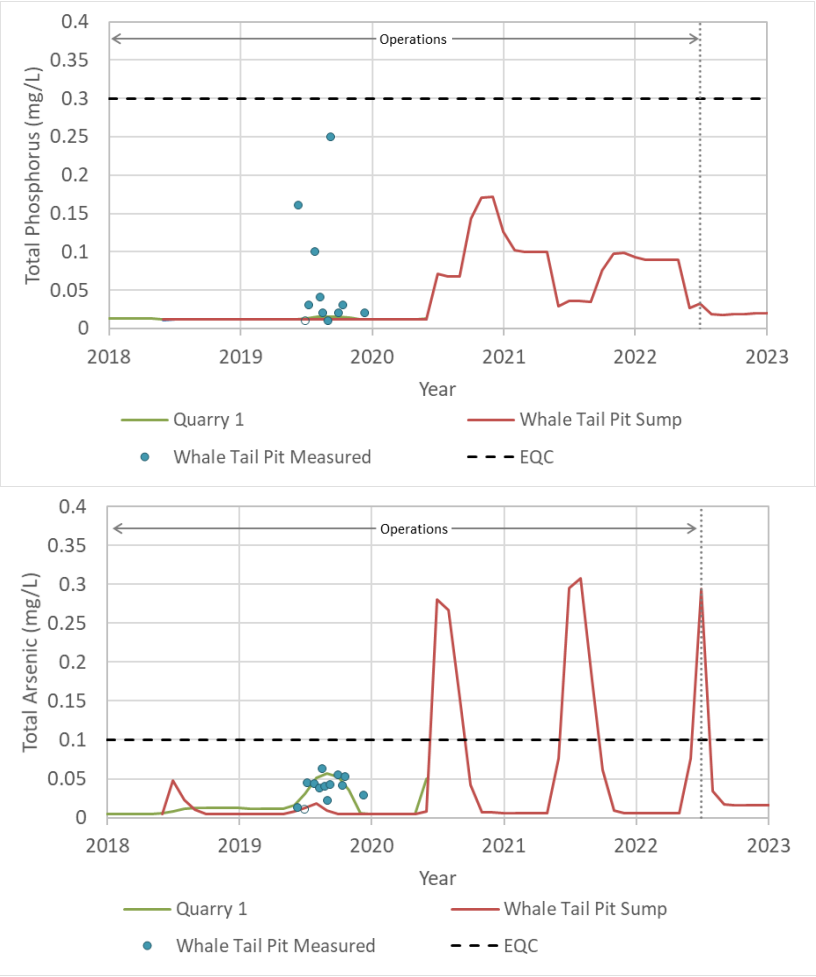


Figure 6: Projected total phosphorus (a) and total arsenic (b) concentrations for Quarry 1 and the Whale Tail Pit sump during operations. Open circles represent non-detected values at the detection limit for measured data.

Quarry 1 and the Whale Tail Attenuation Pond

Quarry 1 was used as a contact water management pond throughout 2019 as the Whale Tail Lake (North Basin) was undergoing dewatering. It is intended to be emptied (through the O-WTP, if necessary) in June 2020, at which point it will continue to be developed and become part of the Whale Tail Pit.

The mostly dewatered Whale Tail Attenuation Pond was used in 2019 to collect seepage water through the Whale Tail Dike; this water was deemed fit for direct discharge. Once Quarry 1 will be emptied in June 2020, the Whale Tail Attenuation Pond will become the primary contact water management pond.

Quarry 1 shows predicted total arsenic concentrations that increase throughout 2019, as it accumulates contact water. Concentrations remain below the effluent limit. Predicted total phosphorus concentrations show a slight increase throughout 2019 but generally remain stable over time.

The Whale Tail Attenuation Pond (Figure 7) predicts that 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. Predicted total phosphorus concentrations show a sharp increase in 2019. Although dewatering was ongoing at the time, Whale Tail Lake (North Basin) was collecting treated sewage effluent, lakebed sediment runoff, and a large proportion of regional groundwater inflows. These sources contributed to the elevated phosphorus; once the basin is completely dewatered, the majority of groundwater inflows to the area are sourced from Whale Tail Lake (South Basin), which results in a decrease in phosphorus concentrations. Total phosphorus in the Whale Tail Attenuation Pond is predicted to meet the effluent limit (0.3 mg/L); however, the O-WTP is anticipated to treat to 0.05 mg/L, which will allow for a reduction in total phosphorus load to the receiving environment.

Measured data for Whale Tail Lake (North Basin) show concentrations within the range of predicted concentrations. There are some daily values of elevated total phosphorus that are consistent with predicted values; however, this may be due to natural variability in daily conditions. It is also known that activities to complete a grout curtain below the Whale Tail Dike began in November 2019. All seepage water through the dike at that point was directed to the Whale Tail Lake (North Basin)/Whale Tail Attenuation Pond, which is likely to have contained elevated concentrations of phosphorus and other major ions. This was not explicitly accounted for in the model as there would be too much uncertainty surrounding the magnitude of this extra load, and any discharge would have been treated if necessary.

WTP Effluent Discharge

The O-WTP effluent (Figure 7) will meet licence limits (NWB 2018). 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 (and is modelled as being) treated to 0.05 mg/L through the O-WTP.

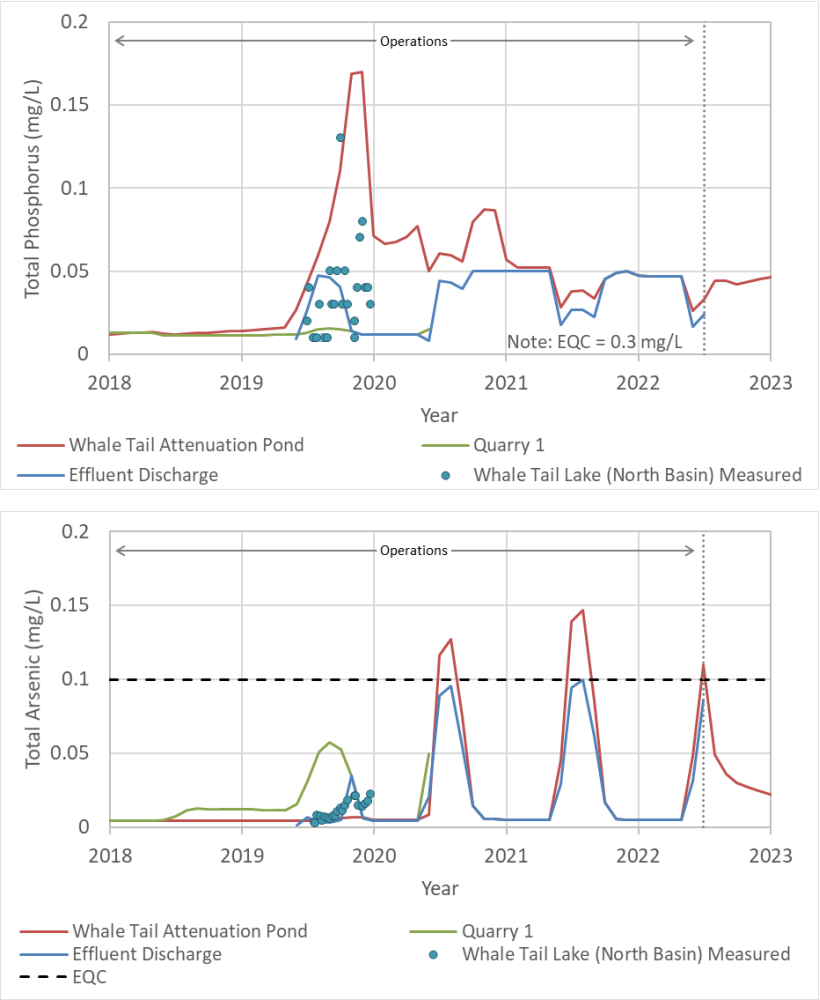


Figure 7: Projected total phosphorus (a) and total arsenic (b) concentrations for the Quarry 1 and Whale Tail Attenuation Pond prior to treatment, and treated WTP effluent discharge during operations. Open circles represent non-detected values at the detection limit for measured data.

3.1.2 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 overflow volumes and associated chemical loads are assumed to be transferred instantaneously. It is expected that changes in concentrations in the downstream lakes due to effluent discharge will show a lag, which will increase with distance from the discharge location.

During the operations phase, treated water is discharged from the O-WTP, through a diffuser, to Mammoth Lake. Seepage through the Whale Tail Dike is also collected in a sump and pumped over the dike into Whale Tail Lake (South Basin) (except during a period of time where activity on the installation of a grout curtain is occurring at the Whale Tail Dike, during which all seepage is collected in the Whale Tail Attenuation Pond). The seepage water quality is expected to be similar to water in the Whale Tail Lake (South Basin). However, based on Meadowbank data, it may have additional nitrogen species loadings due to potential contact with blasted material used in the construction of the dike. The effects of the grouting activities, though not accounted for in the model, include an increase in the measured concentration of major ions and some metals.

Model results for the receiving and downstream environment were compared to the CCME guidelines. Total phosphorus concentrations in Mammoth Lake and Whale Tail Lake (South Basin) during the open water season (June through September) show temporary increases above the upper end of the oligotrophic trigger range (oligotrophic-mesotrophic range of 0.004 to 0.01 mg/L P). Under-ice concentrations are expected to increase further due to the effects of cryo-concentration. With respect to the furthest downstream model nodes, which are inlets to Lake DS1 (see Figure 4), these exceedances are propagated to Downstream Node 2 (DS2), though Downstream Node 1 (DS1) is predicted to remain within the oligotrophic range.

In Mammoth Lake, measured phosphorus data have generally been in agreement with the modelled predictions until the fall of 2019, when predicted concentrations have been higher than measured data. In Whale Tail Lake (South Basin), total phosphorus concentrations have been consistent between modelled predictions and measured data.

Modelled arsenic concentrations consistently meet the SSWQO in Mammoth Lake and Whale Tail Lake (South Basin) throughout operations, with the exception of October and November of 2021, where concentrations slightly exceed the SSWQO under ice conditions. However, the risk of this exceedance occurring as predicted is low, due to the conservatism in the model surrounding the assumptions of ice formation (e.g., the model includes instantaneous ice formation to 2 m as of October 1). It is anticipated that the full formation of ice will not be realized in October or November, and more likely will occur in January or February. The more probable scenario of less than 2 m of ice in October or November would reduce the likelihood of the predicted exceedance not occurring. Furthermore, 2 m of ice is a conservative assumption based on site data that show maximum ice depths of approximately 1.8 m.

In Mammoth Lake, modelled arsenic concentrations are higher than measured data at the end of 2019 but otherwise show good agreement. In Whale Tail Lake (South Basin), measured total arsenic concentrations are consistent with the modelled predictions.

Modelled total iron and total aluminum concentrations also show some exceedances of the CCME guidelines in Mammoth Lake; the exceedances of total aluminum are propagated to DS2 (DS1 remains below the CCME guidelines for all constituents during operations). There are also exceedances of total aluminum and iron in Whale Tail Lake (South Basin); however, these occur in the winter months and are a result of cryo-concentration. In general, the total iron and aluminum exceedances are primarily due to the assumed level of particulate forms of these metals from the TSS assumed in mine discharges to the receiving environment (i.e., 15 mg/L in winter, and 7.5 mg/L in open water conditions). The range of particulate concentrations of aluminum and iron in the site discharge are very conservative (0.16 to 0.33 mg/L and 0.34 to 0.68 mg/L, respectively), and although the total concentrations remain within effluent limits, the ranges are higher than the CCME guidelines. Furthermore, the particulate form of these metals has been modelled to remain in suspension and not settle out after discharge to Mammoth Lake; this is a conservative assumption. Measured total iron and aluminum concentrations in Mammoth Lake have remained below the CCME guidelines to date with many measurements reported below or at detection limits.

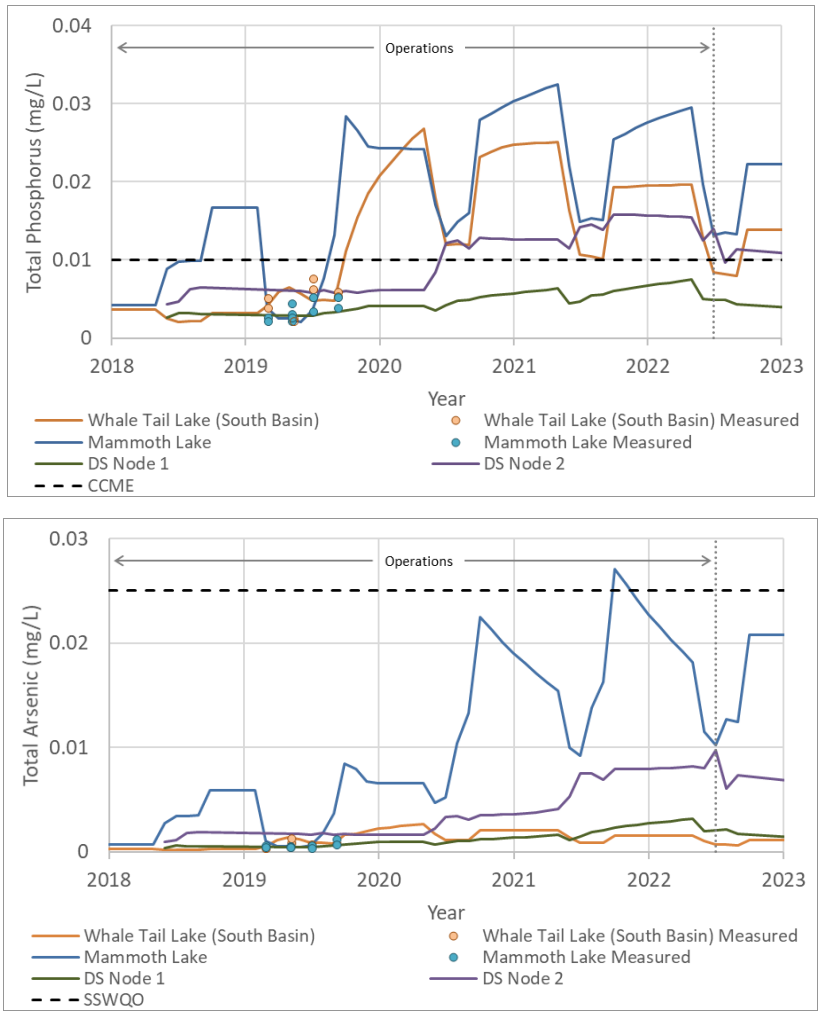


Figure 8: Projected total phosphorus (a) and total arsenic (b) concentrations for the receiving and downstream environment during operations. Open circles represent non-detected values at the detection limit in measured data.

3.2 Closure

3.2.1 Surface Operations

In early closure, all site contact water is transferred into the open pit, which is predicted to be completely flooded to 153.5 masl by 2027. During this time, site contact water quality improves as a result of closure activities including the completion of the cover over the WRSF, flooding of the open pit, and removal of stockpiles with the eventual reclamation of all constructed pads.

As the pit is reflooding, a comprehensive water quality monitoring program will be undertaken to ensure that both physical and chemical stability are achieved within the pit by the time it is fully flooded. The results from the monitoring program will be compared to model predictions, which in turn will inform the reflooding strategy if required, which may be adapted to achieve closure objectives. The closure objective is that pit lake water will meet water quality objectives concurrently with completed reflooding so that lake reconnection can occur once the pit lake reaches its full supply level.

Whale Tail WRSF

The WRSF contact water quality is predicted to show a marked improvement upon completion of the cover (Figure 9). Total 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 WRSF (Appendix E of Golder 2019c).

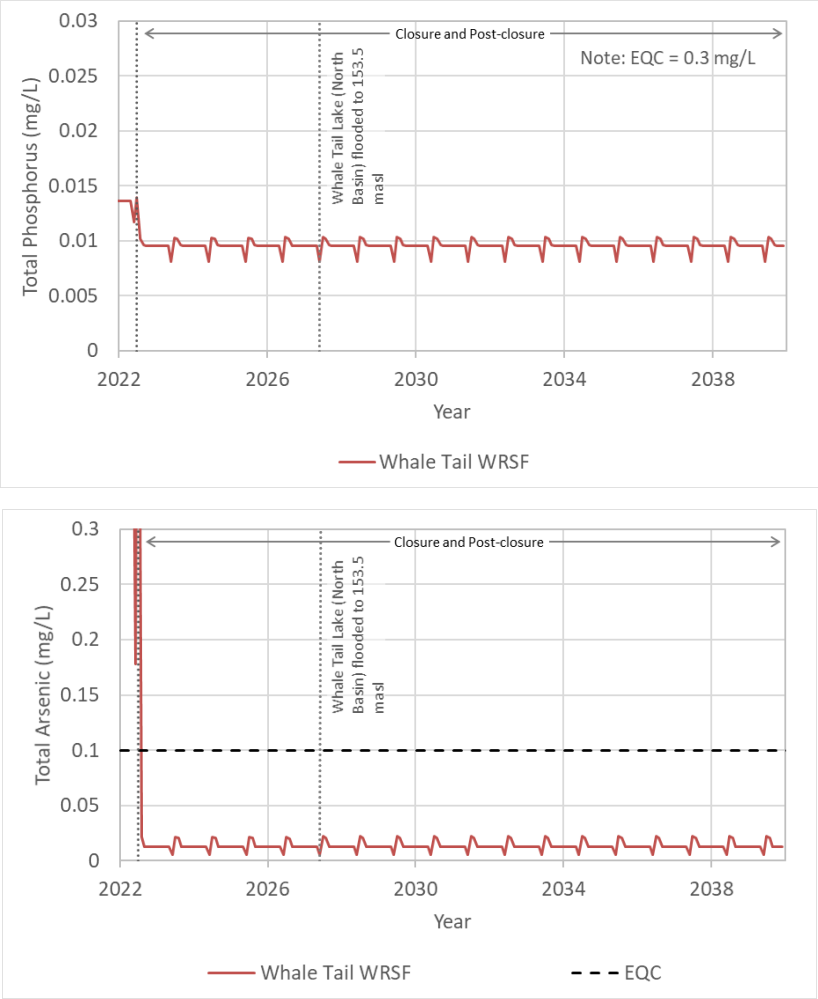


Figure 9: Projected total phosphorus (a) and total arsenic (b) concentrations for the Whale Tail WRSF pond in closure and post-closure.

Whale Tail Pit

At the start of closure, Whale Tail Pit receives a large volume of fresh water for flooding that is anticipated to input little to no loading of arsenic or any other constituent. The flooding therefore results in an improvement to water quality in the pit as it floods during closure (i.e., predictions of progressively lower constituent concentrations in the flooding lake as the pit fills).

Water quality in the Whale Tail Pit (Figure 10) is 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 relatively 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 inflows as the exposed pit wall surface area decreases with pumped inflows from Whale Tail (South Basin) and the contribution of natural runoff from the drainage basin. Total arsenic concentrations are predicted to decrease below the SSWQO prior to the completion of flooding and continue to decrease into post-closure. Total phosphorus concentrations are primarily controlled by the assumed concentration of TSS in the water column: prior to the completion of flooding, 15 mg/L of TSS is assumed, and total phosphorus concentrations decrease slightly through closure to approximately 0.02 mg/L. However, it is assumed that once the pit is fully flooded, the water column is deep enough that TSS will likely settle out permanently, so a resulting TSS concentration of 1 mg/L is assumed. At this point, total phosphorus concentrations in the flooded pit lake decrease below the oligotrophic threshold (0.01 mg/L) and continue decreasing through closure.

Total phosphorus and arsenic concentrations in the flooded Whale Tail Attenuation Pond show a decrease in 2026, which is due to the Whale Tail Attenuation Pond water mixing freely with the Whale Tail Pit water as the water flooding level rises past the spill elevation. All constituent concentrations are predicted to be below their receiving water quality objectives once the pit is fully flooded.

3.2.2 Receiving Environment and Downstream Lakes

During flooding of the Whale Tail Pit, all site discharges to the receiving environment cease, which are then redirected to the Whale Tail open pit until a flooded elevation of 153.5 masl is reached (predicted to occur in June 2027). Whale Tail Lake (South Basin) is drawn down to 153.5 masl and all flow through the Whale Tail Lake (South Basin) Diversion Channel to Mammoth Lake ceases. During active flooding, Mammoth Lake and all downstream lakes show an improvement in water quality, trending towards baseline conditions, since only natural runoff enters their systems. Water quality constituent concentrations progressively decrease through the downstream environment during this time (Figure 10).

Phosphorus concentrations decrease to the oligotrophic range in open water conditions within a few years after the start of closure. Under-ice concentrations decrease to oligotrophic levels in 2030, approximately 2.5 years following the complete flooding of the Whale Tail Pit to 153.5 masl. Under ice and open water total arsenic concentrations are predicted to be below the SSWQO in Mammoth Lake from the beginning of closure.

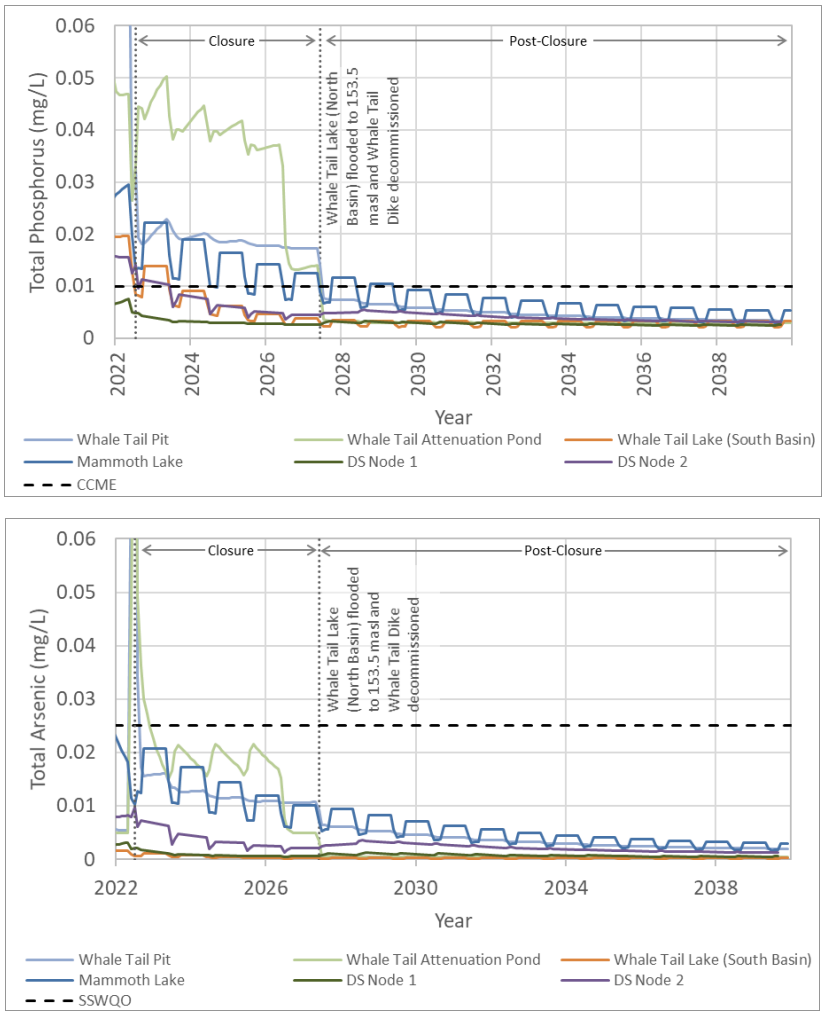


Figure 10: Projected total phosphorus (a) and total arsenic (b) concentrations for the Whale Tail Pit, the Whale Tail Attenuation Pond, and the receiving environment during closure and post-closure.

3.3 Post-Closure

Post-closure occurs when the Whale Tail Pit lake is fully flooded and water meets closure water quality objectives, which is predicted to occur prior the completion of flooding, in 2027. At that time, both the Mammoth Dike and the Whale Tail Dike are decommissioned, the Whale Tail Lake North and South Basins 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 water quality constituents throughout the pit lake are predicted to remain below receiving water quality objectives in post-closure. The Whale Tail Pit and the Whale Tail Attenuation Pond are connected at the surface and water is exchanged between them.

Downstream Water Quality

Water quality in Mammoth Lake and the downstream lakes is predicted to meet the CCME guidelines and the arsenic SSWQO in post-closure, and continue to trend downward to conditions similar to baseline.

4.0 CONCLUSIONS

The Approved Project water quality model submitted to the Nunavut Impact Review Board for impact assessment in 2016 (Agnico Eagle 2016) 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 updated model incorporates results from the following investigations and modifications completed since 2018:

- Hydrological assessment of the WRSF to refine runoff and seepage flow estimates
- Hydrogeological inflows to the Whale Tail Pit
- 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

These refinements and modifications show a positive effect on water quality through operations; constituent loads coming from the WRSF and the open pit, which report to the Attenuation Pond, are lower.

At closure and post-closure, flooded pit water quality is predicted to meet receiving water quality criteria when flooding is complete, allowing reconnection with the downstream receiving environment. Arsenic release from the submerged Whale Tail Pit walls is anticipated once pit-flooding commences, but is expected to be a relatively short-lived source to the flooded pit lake.

5.0 CLOSURE

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

Golder Associates Ltd.

Prepared by:

Kristina Skeries, MSc
Environmental Specialist

John Faithful, BSc (Hons)
Principal, Senior Water Quality Specialist

KS/JF/jr

https://golderassociates.sharepoint.com/sites/121081/project files/5 technical work/02_wb_wq/wq/report/rev0/20136950-480-rpt-whaletail-2019annualrpt-waterquality-rev0.docx

Golder and the G logo are trademarks of Golder Associates Corporation

6.0 REFERENCES

Agnico Eagle. 2016a. Whale Tail Pit Project - Meadowbank Mine Final Environmental Impact Statement and Type A Water Licence Amendments. Amendment/Reconsideration of the Project Certificate (No. 004/ File No. 03MN107) and Amendment to the Type A Water Licence (No. 2AM-MEA1525). Submitted to the Nunavut Impact Review Board. June 2016.

Agnico Eagle 2018a. Project Description Report. Volume 1. November 2018.

Agnico Eagle. 2018b. 117-600-100-MTO-001_R0 (WT-001-009).xlsx (Microsoft Excel Workbook), as received from Agnico Eagle on 4 June 2018.

Agnico Eagle. 2018c. Email to K. Skeries, Environmental Specialist, Golder Associates Ltd. 1 June 2018.

Agnico Eagle. 2018d. As and P treatment at the water treatment plant – Whale Tail. 12 July 2018.

Agnico Eagle. 2019a. Main Application Document NWB Water Licence 2AM-WTP1826 Amendment. May 2019.

Agnico Eagle. 2019b. Whale Tail Pit – Landfarm Design and Management Plan. Version 1_NWB. April 2019.

Agnico Eagle. 2019c. Operation & Maintenance Manual: Sewage Treatment Plant (STP). Version 3. April 2019.

Agnico Eagle. 2019d. Whale Tail Project Monitoring Program Summary Report, October 2019.

Agnico Eagle. 2019e. Whale Tail Project Monitoring Program Summary Report, November 2019.

Agnico Eagle. 2020a. Whale Tail Project – WRSF Flow Follow up (2019-333) – Additional Information. January 27, 2020.

Agnico Eagle. 2020b. Planned Waste and Ore Tonnages.xlsx (Microsoft Excel Workbook), as received from Agnico Eagle on 29 January 2020.

APHA (American Public Health Association). 2017. Standard Methods for the Examination of Water and Wastewater: 23rd edition. Washington DC, USA.

Azimuth (Azimuth Consulting Group Partnership). 2016. Whale Tail Pit Core Receiving Environment Monitoring Program (CREMP): 2014-2015 Baseline Studies. January 2016.

Beddoes, P., Herrell M., and Vandenberg J. 2013. Role of Professional Judgement and Scaling in Interpretation of Water Quality Model Results. Proceedings of the International Mine Water Association conference on “Reliable Mine Water Technology”, Golden, Colorado, USA. Wolkersdorfer, Brown, and Figueroa (Eds).

CCME (Canadian Council of Ministers of Environment). 2007. Canadian Environmental Quality Guidelines (CEQG) for the Protection of Aquatic Life, accessed March 2020: http://st-ts.ccme.ca/en/index.html

Davé, N.K. and Clulow, V. 1996. Column Leaching Characteristics of Cullaton Lake B and Shear(S)-Zone Tailings, Phase 2: Cold Temperature Leaching Final Report. Mine Environment Neutral Drainage (MEND) Project 1.61.3. Natural Resources Canada.

Davé, N.K. and Blanchette, M. 1999. Role of Cold Climatic Conditions in Management of Reactive Mining Waste in Northern Canada. Mining in the Arctic. Udd & Keen Editors. Balkema. Rotterdam. pp. 115-124.

De Beers Canada Inc. 2013. Snap Lake hydrodynamic and Water Quality Model Report. December 2013.

Diavik (Diavik Diamond Mines). 1998. Site Water Quality Estimates for the Proposed Diavik Project. Prepared for Diavik Diamond Mines. September 1998.

Golder (Golder Associates Ltd) 2018a. Arsenic Diffusion Model – Description of Methods. Ref. 1789310-233-TM-Rev0. Submitted to Agnico Eagle Mines Limited November 2018.

Golder. 2018a. Mine Site and Downstream Receiving Water Quality Predictions Whale Tail Pit – Expansion Project. Reference No. 1789310-237-RPT-Rev0. November 2018.

Golder. 2018b. Evaluation of the Geochemical Properties of Waste Rock, Ore, Tailings, Overburden and Sediment, Whale Tail Pit Project. Reference No. 1789310-182-RPT-Rev1. November 2018.

Golder. 2018c. Whale Tail Pit – Expansion Project, Mean Annual Water Balance. Reference No. 1789310-204-RPT-Rev1. November 2018.

Golder. 2018d. Hydrogeological Assessment and Modelling Whale Tail Pit – Expansion Project. Reference No. 1789310-213-RPT-Rev0. November 2018.

Golder. 2018e. Whale Tail Pit Project Waste Rock Storage Facility Cover Thermal Assessment. Submitted to Agnico Eagle Mines Limited. 14 June 2018. 27p.

Golder. 2019a. Mine Site Downstream Receiving Water Quality Predictions. Whale Tail Pit – Expansion Project. Prepared for Agnico Eagle Mines Limited. Reference No. 18108905-308-RPT-Rev0. May 2019.

Golder. 2019b. Whale Tail Lake Thermal Assessment. (Reference 18108905-276-RPT-Rev0). Dated April 2019.

Golder. 2019c. 2019 Mean Annual Water Balance Update Whale Tail Pit – Expansion Project. Prepared for Agnico Eagle Mines Limited. (Reference 18108905-294-RPT-Rev0). May 2019.

Golder. 2019d. Amaruq Mine - Hydrodynamic Modelling of Mammoth Lake, Whale Tail Approved Project. (Reference 1789310-246-TM-Rev0). Dated 25 Mach 2019.

Golder. 2019e. Whale Tail Pit Expansion Project – Hydrodynamic Modelling of Whale Tail Pit Lake. Submitted to Agnico Eagle Mines Limited. (Reference 1789310-181-TM-Rev0) Dated 13 May 2019.Golder. 2019f. Effluent Plume Modelling in Whale Tail Pit Lake (South Basin). Submitted to Agnico Eagle Mines Limited. November 2018.

Golder. 2019f. Application of TSS Concentrations at Meliadine and Meadowbank Mines as an Analogue to TSS Concentrations from the Whale Tail WRSF in Post-closure. Prepared for Agnico Eagle Mines Limited. Reference No. 19115196-335-TM-Rev0. 11 July 2019.

Golder. 2020a. Whale Tail Pit – Approved Project 2019 Annual Report – Water Balance. Prepared for Agnico Eagle Mines Limited. Reference No. 20136950-479-RPT-Rev0. March 2020.

Golder. 2020b. Whale Tail Pit Project – 2019 Groundwater Management Monitoring Report. Reference No. 20137375-477-TM-Rev0. March 2020.

Kempton, H. 2012. A Review of Scale Factors for Estimating Waste Rock Weathering from Laboratory Tests. Proceedings of the 9th International Conference on Acid Rock Drainage (ICARD), Ottawa, Ontario, Canada. May 20-26, 2012.

Knight Piésold Consulting. 2015. Agnico Eagle Mines Ltd.: Meadowbank Division – Whale Tail Pit – Permafrost and Hydrogeological Characterization. Submitted November 24, 2015.

MEND, 2009. Prediction manual for Drainage Chemistry from Sulphidic Geologic Materials. Mine Environment Neutral Drainage (MEND) Program. Document No.1.20.1. December 2009.

NWB (Nunavut Water Board). 2018. Type A Water licence #2AM-WTP1826, 29 May 2018. 48p.

Parkhurst, D.L., and Appelo C.A.J. 1999. User's Guide to PHREEQC (Version 2) - A Computer Program for Speciation, Batch-Reaction, One-Dimensional Transport, and Inverse Geochemical Calculations, U.S. Geological Survey Water-Resources Investigations Report 99-4259, Denver, CO.

Rich, D. 2005. The Removal of Total Phosphorus from Natural Waters by Precipitation. A Dissertation Submitted to Northwestern International University in partial fulfillment of the requirements for the degree of Doctor of Philosophy in Environmental Science. November 2005.

Siskind, D.E., and Fumanti R.R. 1974. Blast-Produced Fractures in Lithonia granite. U.S. Bureau of Mines.

United States Department of Agriculture (USDA). Estimating Moist Bulk Density by Texture. Accessed April 25, 2019: https://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/survey/office/ssr10/tr/?cid=nrcs144p2_074844

APPENDIX A

Geochemical Source Terms and Water Quality Inputs

Constituents	Whale Tail Lake		Natural Runoff		Mammoth Lake		Nemo Lake		Watershed A		Shallow Groundwater
	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Acidity	0	0	0	0	0	0	0	0	0	0	0
Alkalinity	4.5	4.5	4.9	4.9	5.2	5.2	7.5	7.5	5.6	5.6	102
Sulphate	1.4	1.4	1.4	1.4	2.3	2.3	3.3	3.3	2.1	2.1	46
Calcium	2.1	2.1	1.8	1.7	3.1	3.1	2.3	2.3	1.9	1.9	73
Chloride	2.6	2.6	2.3	2.3	4.2	4.2	0.56	0.56	1.2	1.2	255
Fluoride	0.026	0.026	0.032	0.032	0.026	0.026	0.024	0.024	0.027	0.027	0.37
Mercury	0.000005	0.000005	0.000005	0.000005	0.0000051	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005
Silver	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.000025
Aluminum	0.0053	0.011	0.019	0.17	0.0034	0.0078	0.0017	0.011	0.0037	0.012	0.04
Arsenic	0.00015	0.00017	0.00019	0.00027	0.00035	0.00039	0.00028	0.0003	0.00017	0.0002	0.003
Barium	0.0041	0.0041	0.0048	0.0045	0.0059	0.006	0.0042	0.0042	0.0055	0.0039	0.13
Beryllium	0.00002	0.00002	0.00002	0.000026	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.0001
Boron	0.01	0.01	0.01	0.01	0.010	0.010	0.010	0.010	0.01	0.01	0.46
Bismuth	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.0001
Cadmium	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005	0.0000055	0.0000052	0.0000058	0.00012
Cobalt	0.0001	0.0001	0.0001	0.00016	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0018
Chromium	0.0001	0.00011	0.0002	0.00076	0.0001	0.00012	0.0001	0.00011	0.0001	0.00011	0.0012
Copper	0.00048	0.00051	0.00069	0.00095	0.0004	0.00052	0.00026	0.0005	0.0006	0.00052	0.0039
Iron	0.015	0.023	0.058	0.32	0.010	0.016	0.010	0.012	0.012	0.035	0.05
Potassium	0.4	0.4	0.42	0.42	0.59	0.6	0.61	0.61	0.48	0.48	6.4
Lithium	0.001	0.001	0.001	0.001	0.0011	0.0011	0.001	0.001	0.001	0.001	0.018
Magnesium	0.72	0.72	0.85	0.86	0.94	0.93	1.1	1.1	0.64	0.63	30
Manganese	0.0015	0.0029	0.0021	0.005	0.0011	0.0024	0.0019	0.0037	0.00066	0.0015	0.32
Molybdenum	0.00005	0.000059	0.00005	0.000066	0.000051	0.000056	0.000052	0.000061	0.000051	0.000051	0.027
Nickel	0.00063	0.00068	0.00096	0.0013	0.00074	0.00083	0.00058	0.00063	0.00054	0.00056	0.0058
Phosphorus	0.0021	0.0024	0.0022	0.0038	0.0022	0.0025	0.002	0.003	0.0021	0.0022	0.2
Lead	0.000054	0.00007	0.000081	0.00021	0.000066	0.000074	0.00009	0.00005	0.000062	0.00008	0.001
Antimony	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.00028
Selenium	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00075
Strontium	0.014	0.014	0.011	0.011	0.02	0.02	0.0097	0.0099	0.0084	0.0087	0.62
Tin	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.00011	0.0001	0.00013	0.0001	0.0001
Thallium	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001
Uranium	0.000031	0.000037	0.000074	0.00014	0.00002	0.000024	0.00001	0.00001	0.000025	0.00003	0.0078
Vanadium	0.0005	0.0005	0.0005	0.0006	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.00053
Zinc	0.0011	0.003	0.0012	0.0031	0.001	0.003	0.0011	0.003	0.0011	0.003	0.012
Nitrate	0.0051	0.0051	0.0079	0.0079	0.0051	0.0051	0.005	0.005	0.0074	0.0074	0.13
Sodium	0.55	0.55	0.67	0.67	0.6	0.6	0.51	0.51	0.65	0.65	56
Ammonia	0.0061	0.0061	0.0055	0.0055	0.0065	0.0065	0.0051	0.0051	0.0053	0.0053	0.33

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

Constituents	Komatiite (0b)	Basalt (1b)	Diorite (8b)	Gabbro (I3)	Overburden	Lake Sediment	Developed Area and Cover Material	Esker Material
	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/mon	mg/kg/yr	mg/kg/mon	mg/kg/mon
Acidity	0.19	0.19	2.0	0.19	0	0	0	0
Alkalinity	3.8	3.9	3.2	3.9	65	254	0.4	112
Sulphate	3.2	2.3	1.8	2.3	4.1	170	1.6	8.0
Calcium	1.3	1.2	1.1	1.2	2.1	35	1.6	2.8
Chloride	0.27	0.19	0.98	0.19	7.1	15	0.79	0
Fluoride	0.0098	0.018	0.059	0.018	0.89	1.6	0.23	0
Mercury	0.00000092	0.00000091	0.0000098	0.00000091	0.000058	0.00004	0.015	0.00004
Silver	0.0000025	0.0000022	0.0000028	0.0000022	0.000042	0.00024	0.000002	0.00015
Aluminum	0.0038	0.0028	0.039	0.0028	2.6	2.5	0.0000011	3.4
Arsenic	0.13	0.068	0.0048	0.068	0.014	0.7	0.0087	0.009
Barium	0.0038	0.0094	0.0023	0.0094	0.033	0.48	0.0026	0.029
Beryllium	0.00000064	0.00000064	0.0000069	0.00000064	0.00017	0.00015	0.0013	0.000074
Boron	0.0013	0.0014	0.0017	0.0014	0.16	2.2	0.0000014	1.5
Bismuth	0.00000071	0.00000065	0.0000069	0.00000065	0.000063	0.00014	0.0011	0.00003
Cadmium	0.00000048	0.00000066	0.0000031	0.00000066	0.000022	0.00054	0.0000014	0.000043
Cobalt	0.000062	0.000049	0.00015	0.000049	0.0028	0.041	0.00000086	0.004
Chromium	0.000017	0.000036	0.000029	0.000036	0.01	0.019	0.000034	0.015
Copper	0.000045	0.00012	0.00021	0.00012	0.015	0.05	0.0000088	0.011
Iron	0.00082	0.001	0.0074	0.001	2.9	6.5	0.000058	2.5
Potassium	2.0	2.0	1.0	2.0	2.0	8.5	0.0015	5.4
Lithium	0.00051	0.00075	0.00063	0.00075	0.0048	0.019	0.63	0.003
Magnesium	0.59	0.54	0.13	0.54	1.2	7.1	0.00023	1.6
Manganese	0.0015	0.0013	0.0048	0.0013	0.069	12	0.14	0.15
Molybdenum	0.00043	0.00051	0.0013	0.00051	0.0014	0.0014	0.0012	0.0026
Nickel	0.00057	0.00041	0.0003	0.00041	0.0096	0.48	0.00039	0.0092
Phosphorus	0.0004	0.0018	0.00058	0.0018	0.13	0.77	0.000085	0
Lead	0.0000042	0.000016	0.000021	0.000016	0.0024	0.014	0.00024	0.0039
Antimony	0.0006	0.00043	0.00038	0.00043	0.0017	0.0077	0.0000075	0.0031
Selenium	0.00012	0.00061	0.000075	0.00061	0.00063	0.0048	0.00013	0.004
Strontium	0.011	0.019	0.0031	0.019	0.011	0.18	0.000039	0.0067
Tin	0.000014	0.000024	0.00011	0.000024	0.00021	0.00099	0.0043	0.00017
Thallium	0.000005	0.000004	0.0000052	0.000004	0.000021	0.000073	0.000028	0.000046
Uranium	0.00029	0.00032	0.00043	0.00032	0.0024	0.0027	0.000002	0.0005
Vanadium	0.00076	0.0018	0.00052	0.0018	0.0047	0.0039	0.00027	0.0054
Zinc	0.00018	0.00018	0.002	0.00018	0.0086	0.027	0.00015	0.011
Nitrate	0	0	0	0	0	2.4	0.00041	0
Sodium	0.17	0.18	0.1	0.18	35	148	0	39
Ammonia	0	0	0	0	0	0	0.071	0

APPENDIX B

Mass Balance Inputs and Assumptions

1.0 WHALE TAIL WRSF PROPORTIONS, FACILITY FOOTPRINTS AND 3D AREAS, AND PIT WALL PROPORTIONS

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

Date	Gabbro (I3)	Chert (S10)[2]	Greywacke North (S3N)	Central Greywacke (S3C)	Iron Formation (SE9)	Ultramafic (0b)	Ultramafic (0a)[3]	Basalt (1b)	Overburden
Jan 2020	0	12	13	6.6	16	20	11	8.6	13
Feb 2020	0	11	13	6.6	16	20	11	8.6	15
Mar 2020	0	13	15	7.6	18	23	12	9.9	0.65
Apr 2020	0	10	13	6.5	15	20	10	8.4	17
May 2020	0	12	13	6.8	16	21	11	8.8	12
Jun 2020	0	8.7	14	7.2	16	22	11	9.3	11
Jul 2020	0	11	15	7.8	18	24	12	10	1.8
Aug 2020	0	12	15	7.8	18	24	12	10	0.46
Sep 2020	0	10.0	16	8.0	18	25	13	10	0
Oct 2020	0	12	15	7.8	18	24	12	10	0
Nov 2020	0	6.6	16	8.4	19	26	13	11	0
Dec 2020	0	13	15	7.7	18	24	12	10	0
Jan 2021	0	7.1	16	8.4	19	26	13	11	0
Feb 2021	0	10	16	8.0	18	25	13	10	0
Mar 2021	0	7.0	16	8.4	19	26	13	11	0
Apr 2021	0	9.0	16	8.2	19	25	13	11	0
May 2021	0	7.7	16	8.3	19	25	13	11	0
Jun 2021	0	10.0	16	8.0	19	25	13	10	0
Jul 2021	0	9.8	16	8.1	19	25	13	10	0
Aug 2021	0	8.9	16	8.2	19	25	13	11	0
Sep 2021	0	7.2	16	8.4	19	26	13	11	0
Oct 2021	0	5.2	17	8.6	19	26	13	11	0
Nov 2021	0	2.0	17	8.9	19	27	13	12	0
Dec 2021	0	0	18	9.2	20	28	13	12	0
Jan 2022	0	5.4	17	8.6	19	26	13	11	0
Apr 2022	0	3.4	17	8.8	19	27	13	11	0
Jul 2022	0	2.1	17	8.9	19	27	13	12	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

Table B-2: Footprint areas (m^2) for the Whale Tail WRSF, Marginal Ore Pile, and NPAG/NML Stockpile

Year	Whale Tail WRSF	Marginal Ore Pile	NPAG/NML Stockpile
2018	108,388	0	0
2019	478,000	23,580	0
2020	797,350	39,650	69,900
2021	807,500	56,500	69,900
2022	807,500	68,200	160,440

Table B-3: 3D surface areas (m^2) for the Whale Tail WRSF, Marginal Ore Pile, and NPAG/NML Stockpile

Year	Whale Tail WRSF	Marginal Ore Pile	NPAG/NML Stockpile
2018	112,637	0	0
2019	507,278	24,625	0
2020	784,849	99,480	76,830
2021	804,763	99,485	76,830
2022	821,767	101,977	175,041

Table B-4: Exposed pit wall proportions (%) by lithology for Whale Tail Pit

Lithology / Material Type	Whale Tail Pit
Gabbro (I3)	0
Chert (S10)[1]	13
Greywacke North (S3N)	17
Central Greywacke (S3C)	5.9
Iron Formation (SE9)	14
Ultramafic (0b)	18
Ultramafic (0a)[2]	9.7
Basalt (1b)	7.7
Overburden[3]	0
Diorite (8b)	2.5
South Greywacke (S3S)	12

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.

2.0 LOADING RATES AND CONCENTRATIONS

2.1 Exposed rock in pit walls, WRSFs, pads, stockpiles

Table B-5 through Table B-10 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 tests[1]), 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 (Golder 2018b) 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 B-5.

The weekly analytical results 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 area[2]. 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:

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

As Whale Tail Pit 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 of 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; however, only the komatiite, iron formation,

[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.

and greywacke rocks provide mass release upon submersion; all other lithologies provide negligible mass release upon submersion.

2.2 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:

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

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 B-5 and Table B-9.

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 B-9.

3.0 MASS BALANCE INPUTS AND ASSUMPTIONS

Table B-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	Baseline data: Azimuth 2016 Details: Golder 2020a, Appendix A Input: Appendix A	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.	Golder 2018b; 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	

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

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
	Runoff in post-closure	Represented by non-contact runoff water quality	Developed Areas are removed by the time flooding is complete in closure.	Golder 2018c			X
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	Appendix B, Section 4.1	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 FEIS model.	Knight Piésold, 2015	X	X	

Table B-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 ■ 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
Whale Tail WRSF	Contact runoff chemistry	Weighted average load from overburden and waste rock types based on the tonnage reporting to the WRSF (does not include material used in construction).	Represents material not covered through progressive covering, and consists of ARD and/or ML waste rock and overburden.	Golder 2018b	X		
		WRSF is 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		

Table B-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	Residual explosives in WRSFs	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.	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: ■ NO_3: 0.02 mg/L-N ■ NH_4: 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
	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 2019c	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	Golder 2018b	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 2019c	X	X	
	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 2019c	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.	Golder 2018b	X		

Table B-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
Ore stockpile		Ore stockpiles are assumed not to freeze during the winter months	Contents are expected to be continually consumed and refreshed	Agnico Eagle 2020b	X		
	Runoff in closure	Represented by developed area loadings	Ore stockpile and clean material pile are removed from pad. Pad remains in place.	Golder 2018b		X	
	Runoff in post-closure	Represented by non-contact runoff water quality	Stockpile pads are removed	Golder 2018c			X
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.	Golder 2018b	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	Golder 2018b		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.	Golder 2018b	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 2019c Rock pile surface by Agnico Eagle	X		
	Runoff in closure and post-closure	Represented by non-contact runoff water quality	Stockpile pads are removed	Azimuth 2016		X	X

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

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
Whale Tail 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	Golder 2020a	X		

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

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
Whale Tail 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.	Golder 2018b 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.	Golder 2018b		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: ■ 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 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 B-7: Inputs and Assumptions for the Whale Tail and IVR Pits

Facility	Property	Input / Assumption	Rational	Reference	Operations	Closure	Post-Closure
	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).	Golder 2018d	X	X	
Flooded Whale Tail 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	Ice formation considered only in the receiving environment (i.e., Mammoth Lake and Whale Tail Lake (South Basin). Due to the large volume of the flooded pit in post-closure, ice formation is not likely to appreciably change water quality in winter.		X	X	X

Table B-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 *Note: this source term is only applicable while GSP-1 is collecting contact water in 2019. It is thereafter considered to be outside of the model bounds.	At-surface catchment area runoff water quality	Developed area runoff water quality	Catchment area is primarily pad area.	Golder 2018c	X	X	
		Natural runoff water quality	Pads are removed	Azimuth 2016			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.	Golder 2018b	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˚Ca, 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 B-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	

Table B-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, arsenic, and TSS	Applied concentrations of phosphorus and arsenic: ■ P: 0.05 mg/L ■ As: 0.1 mg/L Applied concentrations of TSS: ■ Total concentrations are calculated using a particulate fraction from TSS load in addition to dissolved fraction load. ■ Operations: effluent is assumed to contain 7.5 mg/L TSS through the summer months and 15 mg/L TSS through the winter months	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	Agnico Eagle 2018a	X		

Table B-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 (Appendix B, Section 2.2).	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 B-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 developed area loading values	Landfarm will consist primarily of NPAG/NML 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˚Ca, 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 July 2027	Material is assumed to be removed by 2027	Agnico Eagle 2019b		X	X

Table B-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	Golder 2018b	X	X	
		Natural runoff water quality	Pads are removed	Azimuth 2016			X
GSP1	Contact water quality in closure and post-closure	Developed area runoff water quality, treated similar to developed pads with respect to calculation of loadings.	GSP1 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: ■ NO_3: 0.31 mg/L-N ■ NH_4: 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 B-10: 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	Baseline data: Azimuth 2016 Details: Golder 2020a, Appendix A Input: Appendix A	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	Baseline data: Azimuth 2016 Details: Golder 2020a, Appendix A Input: Appendix A	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	Baseline data: Azimuth 2016 Details: Golder 2020a, Appendix A Input: Appendix A	X	X	X
	Ice formation on Whale Tail Lake (South Basin) and Mammoth Lake	Assumed 2 m of ice formation on Oct 1 of every year, which melts over 30 days in the subsequent June.	Site data shows an approximate maximum of 1.8 m of ice on lakes in the area.		X	X	X
Nemo Lake	Concentrations	Input as a concentrations Applied average Nemo Lake water quality (2015 – 2016)	Monitored results of Nemo Lake in the regional baseline water quality studies are considered analogous to natural runoff water quality of Nemo Lake	Baseline data: Azimuth 2016 Details: Golder 2020a, Appendix A Input: Appendix A	X	X	X

4.0 GEOCHEMICAL CONTROLS ON WATER QUALITY

4.1 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 (Golder 2018b), 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 [AlO(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 B-11, 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 B-11: Solubility Limits Applied in the Water Quality Model

Constituent	Unit	Whale Tail Waste Rock Storage Facility Pond	Whale Tail Pit Sump	Whale Tail Attenuation Pond
Aluminum	mg/L	0.0003	0.0002	0.0001
Iron	mg/L	0.06	0.7	0.3

Notes: mg/L = milligrams per litre

4.2 Effect of Total Suspended Solids on Total Constituent Concentrations

Though Total Suspended Solids (TSS) are not explicitly modelled, concentrations of TSS are assumed for sources into Mammoth and carried downstream conservatively (i.e., does not settle out but is subject to dilution effects). Using the assumed TSS concentrations, total metal concentrations for Project on-site facilities and 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 7.5 mg/L in the Project discharge in the summer months (June through September), and 15 mg/L in the Project discharge in the winter months (October through May). It was assumed that on-site facilities contained 15 mg/L TSS year-round. The maximum monthly average TSS limit in Type A Water Licence Part F Item 4 Whale Tail effluent (NWB 2018) is 15 mg/L.

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.

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, and phosphorus, 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.

In post-closure, it was assumed that TSS concentrations in the flooded pit lake would drop to approximately 1 mg/L, as particulate matter settles out of the water column. This is consistent with baseline TSS values from the area. Modelled particulate aluminum and iron exceed CEQG-AL regardless of dissolved concentrations in the flooded pit lakes. An assumed TSS concentration of 10 mg/L was applied to runoff that enters Mammoth Lake from the Whale Tail WRSF Pond in post-closure. This is consistent with baseline stream values as well as channel values at Meadowbank (Golder 2019f). Table B-12 presents modelled particulate concentrations for TSS concentrations of 1 mg/L, 7.5 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, and Whale Tail WRSF in closure and post-closure.

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.

Table B-11: Particulate Concentrations at 1 mg/L, 7.5 mg/L, 10 mg/L, and 15 mg/L TSS. Bolded and underlined values reflect exceedances of the CCME guidlines, and shaded values represent exceedances of the effluent limits

Constituent	Unit	Amaruq Effluent Quality Guideline	CCME	Particulate Concentration Added to Dissolved Concentrations			
				1 mg/L TSS	7.5 mg/L TSS	10 mg/L TSS	15 mg/L TSS
Cl	mg/L		120	0	0	0	0
F	mg/L		0.12	0.00017	0.0013	0.0017	0.0026
SO_4	mg/L			0.0034	0.026	0.034	0.052
NH_3	mg/L	16		0	0	0	0
NO_3	mg/L		2.93	0	0	0	0
P	mg/L	0.30	0.010	0.00066	0.0049	0.0066	0.0098
Al	mg/L	0.50	0.10	0.022	**0.16**	**0.22**	**0.33**
Sb	mg/L			0.0000012	0.0000090	0.000012	0.000018
As	mg/L	0.10	0.025 [a]	0.00027	0.0021	0.0027	0.0041
Ba	mg/L			0.00020	0.0015	0.0020	0.0030
Be	mg/L			0.00000045	0.0000033	0.0000045	0.0000067
Bi	mg/L			0.00000017	0.0000013	0.0000017	0.0000026
B	mg/L		1.5	0.0000027	0.000021	0.000027	0.000041
Cd	mg/L	0.0020	0.000040	0.00000012	0.0000009	0.0000012	0.0000018
Ca	mg/L			0.019	0.14	0.19	0.29
Cr	mg/L	0.020		0.00057	0.0043	0.0057	0.0086
Co	mg/L			0.000034	0.00026	0.00034	0.00051
Cu	mg/L	0.10	0.0020	0.000033	0.00025	0.00033	0.00050
Fe	mg/L	1.0	0.30	0.045	**0.34**	**0.45**	**0.68**
Pb	mg/L	0.050	0.0010	0.0000087	0.000066	0.000087	0.00013
Li	mg/L			0.000018	0.00014	0.00018	0.00028
Mg	mg/L			0.027	0.20	0.27	0.41
Mn	mg/L			0.00077	0.0058	0.0077	0.012
Hg	mg/L	0.0040	0.000026	1.2E-09	9.1E-09	1.2E-08	1.8E-08
Mo	mg/L		0.073	0.0000013	0.0000099	0.000013	0.000020
Ni	mg/L	0.25	0.025	0.00027	0.0020	0.0027	0.0040
K	mg/L			0.011	0.083	0.11	0.17
Se	mg/L		0.0010	0.00000032	0.0000024	0.0000032	0.0000048

Constituent	Unit	Amaruq Effluent Quality Guideline	CCME	Particulate Concentration Added to Dissolved Concentrations			
				1 mg/L TSS	7.5 mg/L TSS	10 mg/L TSS	15 mg/L TSS
Ag	mg/L		0.00025	0.00000075	0.0000056	0.0000075	0.000011
Na	mg/L			0.00028	0.0021	0.0028	0.0042
Sr	mg/L			0.000091	0.00068	0.00091	0.0014
Tl	mg/L		0.00080	0.00000037	0.0000028	0.0000037	0.0000055
Sn	mg/L			0.00000046	0.0000034	0.0000046	0.0000069
U	mg/L		0.015	0.0000011	0.0000080	0.000011	0.000016
V	mg/L			0.000056	0.00042	0.00056	0.00084
Zn	mg/L	0.10	0.0070	0.000047	0.00035	0.00047	0.00070

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

APPENDIX C

Site and Downstream Water Quality Model Results

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	0.05				0.004		0.25
Constituent				TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P_total	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni
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	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Whale Tail Waste Rock Storage Facility Pond	*Construction and Operations*	January	2018	16	0	5.2	4.2	0.028	2.3	0.0065	0.0051	0.012	0.33	0.00012	0.0045	0.009	0.000027	0.000053	0.01	0.0000068	3.4	0.0087	0.00061	0.0009	0.69	0.0002	0.0013	1.3	0.013	0.0000051	0.000071	0.0047
		February		16	0	5.2	4.2	0.028	2.3	0.0065	0.0051	0.012	0.33	0.00012	0.0045	0.009	0.000027	0.000053	0.01	0.0000068	3.4	0.0087	0.00061	0.0009	0.69	0.0002	0.0013	1.3	0.013	0.0000051	0.000071	0.0047
		March		16	0	5.2	4.2	0.028	2.3	0.0065	0.0051	0.012	0.33	0.00012	0.0045	0.009	0.000027	0.000053	0.01	0.0000068	3.4	0.0087	0.00061	0.0009	0.69	0.0002	0.0013	1.3	0.013	0.0000051	0.000071	0.0047
		April		16	0	5.2	4.2	0.028	2.3	0.0065	0.0051	0.012	0.33	0.00012	0.0045	0.009	0.000027	0.000053	0.01	0.0000068	3.4	0.0087	0.00061	0.0009	0.69	0.0002	0.0013	1.3	0.013	0.0000051	0.000071	0.0047
		May		16	0	5.2	4.2	0.028	2.3	0.0065	0.0051	0.012	0.33	0.00012	0.0045	0.009	0.000027	0.000053	0.01	0.0000068	3.4	0.0087	0.00061	0.0009	0.69	0.0002	0.0013	1.3	0.013	0.0000051	0.000071	0.0047
		June		16	0	5.2	4.2	0.028	2.3	0.0065	0.0051	0.012	0.33	0.00012	0.0045	0.0089	0.000027	0.000052	0.01	0.0000068	3.4	0.0087	0.00061	0.0009	0.69	0.0002	0.0013	1.3	0.013	0.0000051	0.000071	0.0047
		July		41	0.0038	5.1	2.3	0.037	1.7	0.17	6.6	0.012	0.33	0.00016	0.0079	0.008	0.000027	0.000053	0.01	0.0000069	2.2	0.0088	0.00062	0.0012	0.74	0.00022	0.0013	1.3	0.014	0.0000052	0.000079	0.005
		August		12	0.0053	5.2	2.3	0.039	1.8	0.006	0.03	0.013	0.33	0.00018	0.0093	0.008	0.000027	0.000053	0.011	0.000007	2.2	0.0089	0.00063	0.0012	0.74	0.00022	0.0013	1.3	0.015	0.0000052	0.000083	0.005
		September		12	0.0032	5.1	2.3	0.037	1.7	0.0056	0.014	0.012	0.33	0.00016	0.0073	0.0079	0.000027	0.000053	0.01	0.0000069	2.2	0.0088	0.00062	0.0012	0.74	0.00022	0.0013	1.3	0.014	0.0000052	0.000078	0.005
		October		12	0.0038	5.1	2.3	0.038	1.7	0.0056	0.014	0.012	0.33	0.00016	0.0079	0.008	0.000027	0.000053	0.011	0.0000069	2.2	0.0088	0.00062	0.0012	0.74	0.00022	0.0013	1.3	0.014	0.0000052	0.000079	0.005
		November		12	0.0038	5.1	2.3	0.038	1.7	0.0056	0.014	0.012	0.33	0.00016	0.0079	0.008	0.000027	0.000053	0.011	0.0000069	2.2	0.0088	0.00062	0.0012	0.74	0.00022	0.0013	1.3	0.014	0.0000052	0.000079	0.005
		December		12	0.0038	5.1	2.3	0.038	1.7	0.0056	0.014	0.012	0.33	0.00016	0.0079	0.008	0.000027	0.000053	0.011	0.0000069	2.2	0.0088	0.00062	0.0012	0.74	0.00022	0.0013	1.3	0.014	0.0000052	0.000079	0.005
		January	2019	12	0.0038	5.1	2.3	0.038	1.7	0.0056	0.014	0.012	0.33	0.00016	0.0079	0.008	0.000027	0.000053	0.011	0.0000069	2.2	0.0088	0.00062	0.0012	0.74	0.00022	0.0013	1.3	0.014	0.0000052	0.000079	0.005
		February		12	0.0038	5.1	2.3	0.038	1.7	0.0056	0.014	0.012	0.33	0.00016	0.0079	0.008	0.000027	0.000053	0.011	0.0000069	2.2	0.0088	0.00062	0.0012	0.74	0.00022	0.0013	1.3	0.014	0.0000052	0.000079	0.005
		March		12	0.0038	5.1	2.3	0.038	1.7	0.0056	0.014	0.012	0.33	0.00016	0.0079	0.008	0.000027	0.000053	0.011	0.0000069	2.2	0.0088	0.00062	0.0012	0.74	0.00022	0.0013	1.3	0.014	0.0000052	0.000079	0.005
		April		12	0.0038	5.1	2.3	0.038	1.7	0.0056	0.014	0.012	0.33	0.00016	0.0079	0.008	0.000027	0.000053	0.011	0.0000069	2.2	0.0088	0.00062	0.0012	0.74	0.00022	0.0013	1.3	0.014	0.0000052	0.000079	0.005
		May		12	0.0038	5.1	2.3	0.038	1.7	0.0056	0.014	0.012	0.33	0.00016	0.0079	0.008	0.000027	0.000053	0.011	0.0000069	2.2	0.0088	0.00062	0.0012	0.74	0.00022	0.0013	1.3	0.014	0.0000052	0.000079	0.005
		June		17	0.022	5.6	2.2	0.045	2.5	0.021	0.64	0.014	0.33	0.00032	0.021	0.0081	0.000027	0.000049	0.011	0.000007	2.4	0.0089	0.00065	0.0013	0.74	0.00024	0.0013	1.3	0.017	0.0000054	0.00011	0.0051
		July		18	0.036	6.3	2.3	0.053	3.2	0.018	0.52	0.015	0.33	0.00046	0.032	0.0085	0.000028	0.00005	0.013	0.0000073	2.7	0.009	0.00068	0.0014	0.74	0.00026	0.0014	1.3	0.019	0.0000059	0.00014	0.0052
		August		24	0.082	8.9	2.6	0.079	5.6	0.014	0.34	0.018	0.33	0.00088	0.065	0.01	0.000034	0.000054	0.018	0.0000087	3.7	0.0093	0.00078	0.0019	0.74	0.00032	0.0016	1.5	0.025	0.0000078	0.00024	0.0057
		September		21	0.068	8.2	2.6	0.072	4.8	0.0066	0.054	0.017	0.33	0.00074	0.053	0.0098	0.000033	0.000055	0.017	0.0000085	3.4	0.0092	0.00075	0.0017	0.74	0.0003	0.0016	1.5	0.023	0.0000074	0.00021	0.0056
		October		21	0.068	8.2	2.6	0.072	4.8	0.0066	0.054	0.017	0.33	0.00074	0.053	0.0098	0.000033	0.000055	0.017	0.0000085	3.4	0.0092	0.00075	0.0017	0.74	0.0003	0.0016	1.5	0.023	0.0000074	0.00021	0.0056
		November		21	0.068	8.2	2.6	0.072	4.8	0.0066	0.054	0.017	0.33	0.00074	0.053	0.0098	0.000033	0.000055	0.017	0.0000085	3.4	0.0092	0.00075	0.0017	0.74	0.0003	0.0016	1.5	0.023	0.0000074	0.00021	0.0056
		December		21	0.068	8.2	2.6	0.072	4.8	0.0066	0.054	0.017	0.33	0.00074	0.053	0.0098	0.000033	0.000055	0.017	0.0000085	3.4	0.0092	0.00075	0.0017	0.74	0.0003	0.0016	1.5	0.023	0.0000074	0.00021	0.0056
		January	2020	21	0.068	8.2	2.6	0.072	4.8	0.0066	0.054	0.017	0.33	0.00074	0.053	0.0098	0.000033	0.000055	0.017	0.0000085	3.4	0.0092	0.00075	0.0017	0.74	0.0003	0.0016	1.5	0.023	0.0000074	0.00021	0.0056
		February		21	0.068	8.2	2.6	0.072	4.8	0.0066	0.054	0.017	0.33	0.00074	0.053	0.0098	0.000033	0.000055	0.017	0.0000085	3.4	0.0092	0.00075	0.0017	0.74	0.0003	0.0016	1.5	0.023	0.0000074	0.00021	0.0056
		March		21	0.068	8.2	2.6	0.072	4.8	0.0066	0.054	0.017	0.33	0.00074	0.053	0.0098	0.000033	0.000055	0.017	0.0000085	3.4	0.0092	0.00075	0.0017	0.74	0.0003	0.0016	1.5	0.023	0.0000074	0.00021	0.0056
		April		21	0.068	8.2	2.6	0.072	4.8	0.0066	0.054	0.017	0.33	0.00074	0.053	0.0098	0.000033	0.000055	0.017	0.0000085	3.4	0.0092	0.00075	0.0017	0.74	0.0003	0.0016	1.5	0.023	0.0000074	0.00021	0.0056
		May		21	0.068	8.2	2.6	0.072	4.8	0.0066	0.054	0.017	0.33	0.00074	0.053	0.0098	0.000033	0.000055	0.017	0.0000085	3.4	0.0092	0.00075	0.0017	0.74	0.0003	0.0016	1.5	0.023	0.0000074	0.00021	0.0056
		June		80	0.32	26	7.4	0.23	19	0.079	2.6	0.034	0.33	0.0031	**0.23**	0.024	0.000083	0.00015	0.052	0.000022	11	0.011	0.0013	0.0044	0.74	0.00068	0.0042	3.8	0.058	0.000023	0.00077	0.0092
		July		87	0.84	19	3.5	0.12	38	0.02	0.58	0.018	0.33	0.0069	**0.58**	0.018	0.000034	0.000055	0.024	0.000018	16	0.0092	0.0011	0.0019	0.74	0.00031	0.0029	3.6	0.095	0.000011	0.0012	0.0086
		August		86	0.85	17	3.3	0.094	39	0.02	0.59	0.015	0.33	0.007	**0.6**	0.017	0.00003	0.000054	0.019	0.000017	17	0.0089	0.001	0.0015	0.74	0.00024	0.0028	3.6	0.095	0.0000091	0.0012	0.0084
		September		56	0.52	12	2.9	0.068	24	0.012	0.26	0.013	0.33	0.0043	**0.37**	0.014	0.000028	0.000053	0.015	0.000013	11	0.0088	0.00084	0.0013	0.74	0.00022	0.0022	2.7	0.063	0.0000073	0.00075	0.007
		October		58	0.54	12	2.9	0.069	25	0.012	0.26	0.013	0.33	0.0044	**0.38**	0.014	0.000028	0.000053	0.015	0.000013	11	0.0088	0.00085	0.0013	0.74	0.00022	0.0022	2.8	0.065	0.0000074	0.00077	0.0071
		November		58	0.54	12	2.9	0.069	25	0.012	0.26	0.013	0.33	0.0044	**0.38**	0.014	0.000028	0.000053	0.015	0.000013	11	0.0088	0.00085	0.0013	0.74	0.00022	0.0022	2.8	0.065	0.0000074	0.00077	0.0071
		December		58	0.54	12	2.9	0.069	25	0.012	0.26	0.013	0.33	0.0044	**0.38**	0.014	0.000028	0.000053	0.015	0.000013	11	0.0088	0.00085	0.0013	0.74	0.00022	0.0022	2.8	0.065	0.0000074	0.00077	0.0071
		January	2021	58	0.54	12	2.9	0.069	25	0.012	0.26	0.013	0.33	0.0044	**0.38**	0.014	0.000028	0.000053	0.015	0.000013	11	0.0088	0.00085	0.0013	0.74	0.00022	0.0022	2.8	0.065	0.0000074	0.00077	0.0071
		February		58	0.54	12	2.9	0.069	25	0.012	0.26	0.013	0.33	0.0044	**0.38**	0.014	0.000028	0.000053	0.015	0.000013	11	0.0088	0.00085	0.0013	0.74	0.00022	0.0022	2.8	0.065	0.0000074	0.00077	0.0071
		March		58	0.54	12	2.9	0.069	25	0.012	0.26	0.013	0.33	0.0044	**0.38**	0.014	0.000028	0.000053	0.015	0.000013	11	0.0088	0.00085	0.0013	0.74	0.00022	0.0022	2.8	0.065	0.0000074	0.00077	0.0071
		April		58	0.54	12	2.9	0.069	25	0.012	0.26	0.013	0.33	0.0044	**0.38**	0.014	0.000028	0.000053	0.015	0.000013	11	0.0088	0.00085	0.0013	0.74	0.00022	0.0022	2.8	0.065	0.0000074	0.00077	0.0071
		May		58	0.54	12	2.9	0.069	25	0.012	0.26	0.013	0.33	0.0044	**0.38**	0.014	0.000028	0.000053	0.015	0.000013	11	0.0088	0.00085	0.0013	0.74	0.00022	0.0022	2.8	0.065	0.0000074	0.00077	0.0071
		June		46	0.25	6.3	1.7	0.038	11	0.11	4.5	0.012	0.33	0.0019	**0.16**	0.0086	0.00002	0.000035	0.0087	0.0000078	5.3	0.0088	0.00068	0.00099	0.72	0.00019	0.0013	1.6	0.034	0.0000043	0.00037	0.0055
		July		148	1.8	27	4.2	0.14	70	0.034	1.2	0.015	0.33	0.013	**1.1**	0.026	0.00003	0.000054	0.025	0.000027	29	0.0089	0.0013	0.0016	0.74	0.00024	0.0041	5.7	0.16	0.000013	0.0023	0.011
		August		134	1.6	25	4.0	0.13	63	0.032	1.1	0.015	0.33	0.012	**1.0**	0.024	0.00003	0.000054	0.024	0.000025	26	0.0089	0.0013	0.0015	0.74	0.00024	0.0039	5.3	0.15	0.000012	0.0021	0.011
		September		78	0.93	16	3.3	0.088	35	0.016	0.43	0.014	0.33	0.0069	**0.59**	0.017	0.000029	0.000054	0.018	0.000017	15	0.0089	0.00097	0.0014	0.74	0.00023	0.0028	3.5	0.088	0.0000091	0.0012	0.0081
		October		75	0.92	16	3.3	0.086	33	0.015	0.41	0.014	0.33	0.0068	**0.58**	0.017	0.000029	0.000054	0.018	0.000017	14	0.0089	0.00096	0.0014	0.74	0.00023	0.0027	3.5	0.086	0.000009	0.0012	0.008
		November		75	0.92	16	3.3	0.086	33	0.015	0.41	0.014	0.33	0.0068	**0.58**	0.017	0.000029	0.000054	0.018	0.000017	14	0.0089	0.00096	0.0014	0.74	0.00023	0.0027	3.5	0.086	0.000009	0.0012	0.008
		December		75	0.92	16	3.3	0.086	33	0.015	0.41	0.014	0.33	0.0068	**0.58**	0.017	0.000029	0.000054	0.018	0.000017	14	0.0089	0.00096	0.0014	0.74	0.00023	0.0027	3.5	0.086	0.000009	0.0012	0.008
		January	2022	75	0.92	16	3.3	0.086	33	0.015	0.41	0.014	0.33	0.0068	**0.58**	0.017	0.000029	0.000054	0.018	0.000017	14	0.0089	0.00096	0.0014	0.74	0.00023	0.0027	3.5	0.086	0.000009	0.0012	0.008
		February		75	0.92	16	3.3	0.086	33	0.015	0.41	0.014	0.33	0.0068	**0.58**	0.017	0.000029	0.000054	0.018	0.000017	14	0.0089	0.00096	0.0014	0.74	0.00023	0.0027	3.5	0.086	0.000009	0.0012	0.008
		March		75	0.92	16	3.3	0.086	33	0.015	0.41	0.014	0.33	0.0068	**0.58**	0.017	0.000029	0.000054	0.018	0.000017	14	0.0089	0.00096	0.0014	0.74	0.00023	0.0027	3.5	0.086	0.000009	0.0012	0.008
		April		75	0.92	16	3.3	0.086	33	0.015	0.41	0.014	0.33	0.0068	**0.58**	0.017	0.000029	0.000054	0.018	0.000017	14	0.0089	0.00096	0.0014	0.74	0.00023	0.0027	3.5	0.086	0.000009	0.0012	0.008
		May		75	0.92	16	3.3	0.086	33	0.015	0.41	0.014	0.33	0.0068	**0.58**	0.017	0.000029	0.000054	0.018	0.000017	14	0.0089	0.00096	0.0014	0.74	0.00023	0.0027	3.5	0.086	0.000009	0.0012	0.008
		June		46	0.28	6.3	1.7	0.038	9.9	0.12	4.7	0.012	0.33	0.0021	**0.18**	0.0088	0.00002	0.000034	0.0084	0.0000078	4.9	0.0088	0.00068	0.00099	0.72	0.00019	0.0013	1.6	0.034	0.0000044	0.00041	0.0055
		July		86	1.4	18	3.5	0.1	36	0.036	1.2	0.014	0.33	0.0078	**0.66**	0.019	0.000029	0.000053	0.019	0.000018	16	0.0089	0.001	0.0014	0.74	0.00023	0.0031	3.8	0.093	0.000011	0.0017	0.0083
			MINIMUM	12	0.0032	5.1	1.7	0.028	1.7	0.0056	0.0051	0.012	0.33	0.00012	0.0045	0.0079	0.00002	0.000034	0.0084	0.0000068	2.2	0.0087	0.00061	0.0009	0.69	0.00019	0.0013	1.3	0.013	0.0000043	0.000071	0.0047
			MAXIMUM	148	1.8	27	7.4	0.23	70	0.17	6.6	0.034	0.33	0.013	**1.1**	0.026	0.000083	0.00015	0.052	0.000027	29	0.011	0.0013	0.0044	0.74	0.00068	0.0042	5.7	0.16	0.000023	0.0023	0.011
			AVERAGE	44	0.43	11	3.0	0.067	16	0.02	0.57	0.014	0.33	0.003	**0.25**	0.012	0.00003	0.000054	0.015	0.000011	8.0	0.0089	0.0008	0.0014	0.73	0.00025	0.002	2.3	0.047	0.0000074	0.00058	0.0064
Whale Tail Waste Rock Storage Facility Pond	*Closure*	January	≥2023	27	1.5	11	3.1	0.087	7.3	0.0056	0.0084	0.0096	0.22	0.0006	0.012	0.011	0.000029	0.000055	0.014	0.0000092	4.9	0.006	0.00056	0.0012	0.51	0.00019	0.002	1.6	0.014	0.000012	0.0015	0.0039
		February		27	1.5	11	3.1	0.087	7.3	0.0056	0.0084	0.0096	0.22	0.0006	0.012	0.011	0.000029	0.000055	0.014	0.0000092	4.9	0.006	0.00056	0.0012	0.51	0.00019	0.002	1.6	0.014	0.000012	0.0015	0.0039
		March		27	1.5	11	3.1	0.087	7.3	0.0056	0.0084	0.0096	0.22	0.0006	0.012	0.011	0.000029	0.000055	0.014	0.0000092	4.9	0.006	0.00056	0.0012	0.51	0.00019	0.002	1.6	0.014	0.000012	0.0015	0.0039
		April		27	1.5	11	3.1	0.087	7.3	0.0056	0.0084	0.0096	0.22	0.0006	0.012	0.011	0.000029	0.000055	0.014	0.0000092	4.9	0.006	0.00056	0.0012	0.51	0.00019	0.002	1.6	0.014	0.000012	0.0015	0.0039
		May		27	1.5	11	3.1	0.087	7.3	0.0056	0.0084	0.0096	0.22	0.0006	0.012	0.011	0.000029	0.000055	0.014	0.0000092	4.9	0.006	0.00056	0.0012	0.51	0.00019	0.002	1.6	0.014	0.000012	0.0015	0.0039
		June		11	0.4	4.5	1.6	0.035	2.5	0.0073	0.013	0.0081	0.22	0.0002	0.0054	0.0062	0.000018	0.000033	0.0071	0.000005	2.0	0.0059	0.00043	0.0008	0.49	0.00014	0.001	0.92	0.01	0.000005	0.00043	0.0033
		July		42	2.9	16	3.7	0.14	13	0.006	0.0093	0.01	0.22	0.0011	0.021	0.016	0.000032	0.000057	0.017	0.000012	7.5	0.006	0.00068	0.0014	0.51	0.00021	0.0027	2.0	0.018	0.000019	0.0029	0.0041
		August		40	2.7	15	3.6	0.13	12	0.0059	0.0091	0.01	0.22	0.001	0.02	0.015	0.000032	0.000057	0.017	0.000012	7.2	0.006	0.00066	0.0013	0.51	0.00021	0.0027	2.0	0.018	0.000018	0.0027	0.0041
		September		28	1.5	11	3.1	0.088	7.5	0.0056	0.0084	0.0096	0.22	0.00061	0.013	0.012	0.000029	0.000055	0.014	0.0000093	4.9	0.006	0.00057	0.0012	0.51	0.00019	0.002	1.6	0.014	0.000012	0.0015	0.0039
		October		27	1.5	11	3.1	0.087	7.3	0.0056	0.0084	0.0096	0.22	0.0006	0.012	0.011	0.000029	0.000055	0.014	0.0000092	4.9	0.006	0.00056	0.0012	0.51	0.00019	0.002	1.6	0.014	0.000012	0.0015	0.0039
		November		27	1.5	11	3.1	0.087	7.3	0.0056	0.0084	0.0096	0.22	0.0006	0.012	0.011	0.000029	0.000055	0.014	0.0000092	4.9	0.006	0.00056	0.0012	0.51	0.00019	0.002	1.6	0.014	0.000012	0.0015	0.0039
		December		27	1.5	11	3.1	0.087	7.3	0.0056	0.0084	0.0096	0.22	0.0006	0.012	0.011	0.000029	0.000055	0.014	0.0000092	4.9	0.006	0.00056	0.0012	0.51	0.00019	0.002	1.6	0.014	0.000012	0.0015	0.0039
			MINIMUM	11	0.4	4.5	1.6	0.035	2.5	0.0056	0.0084	0.0081	0.22	0.0002	0.0054	0.0062	0.000018	0.000033	0.0071	0.000005	2.0	0.0059	0.00043	0.0008	0.49	0.00014	0.001	0.92	0.01	0.000005	0.00043	0.0033
			MAXIMUM	42	2.9	16	3.7	0.14	13	0.0073	0.013	0.01	0.22	0.0011	0.021	0.016	0.000032	0.000057	0.017	0.000012	7.5	0.006	0.00068	0.0014	0.51	0.00021	0.0027	2.0	0.018	0.000019	0.0029	0.0041
			AVERAGE	28	1.6	11	3.0	0.09	7.8	0.0058	0.0089	0.0096	0.22	0.00064	0.013	0.012	0.000029	0.000054	0.014	0.0000093	5.0	0.006	0.00057	0.0012	0.51	0.00019	0.002	1.6	0.014	0.000013	0.0016	0.0039

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)													0.1
Constituent				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
Whale Tail Waste Rock Storage Facility Pond	*Construction and Operations*	January	2018	0.76	0.000055	0.000021	0.6	0.021	0.000016	0.00011	0.000036	0.0013	0.0017
		February		0.76	0.000055	0.000021	0.6	0.021	0.000016	0.00011	0.000036	0.0013	0.0017
		March		0.76	0.000055	0.000021	0.6	0.021	0.000016	0.00011	0.000036	0.0013	0.0017
		April		0.76	0.000055	0.000021	0.6	0.021	0.000016	0.00011	0.000036	0.0013	0.0017
		May		0.76	0.000055	0.000021	0.6	0.021	0.000016	0.00011	0.000036	0.0013	0.0017
		June		0.75	0.000055	0.000021	0.6	0.021	0.000016	0.00011	0.000036	0.0013	0.0017
		July		0.64	0.000059	0.000021	0.78	0.013	0.000016	0.00011	0.0001	0.0014	0.0019
		August		0.66	0.000061	0.000021	0.82	0.013	0.000016	0.00011	0.0001	0.0014	0.0019
		September		0.63	0.000059	0.000021	0.76	0.013	0.000016	0.00011	0.000099	0.0014	0.0019
		October		0.64	0.00006	0.000021	0.78	0.013	0.000016	0.00011	0.0001	0.0014	0.0019
		November		0.64	0.00006	0.000021	0.78	0.013	0.000016	0.00011	0.0001	0.0014	0.0019
		December		0.64	0.00006	0.000021	0.78	0.013	0.000016	0.00011	0.0001	0.0014	0.0019
		January	2019	0.64	0.00006	0.000021	0.78	0.013	0.000016	0.00011	0.0001	0.0014	0.0019
		February		0.64	0.00006	0.000021	0.78	0.013	0.000016	0.00011	0.0001	0.0014	0.0019
		March		0.64	0.00006	0.000021	0.78	0.013	0.000016	0.00011	0.0001	0.0014	0.0019
		April		0.64	0.00006	0.000021	0.78	0.013	0.000016	0.00011	0.0001	0.0014	0.0019
		May		0.64	0.00006	0.000021	0.78	0.013	0.000016	0.00011	0.0001	0.0014	0.0019
		June		0.8	0.000074	0.000021	1.1	0.013	0.000015	0.00011	0.00014	0.0014	0.0019
		July		0.95	0.000088	0.000022	1.4	0.014	0.000016	0.00011	0.00017	0.0015	0.002
		August		1.4	0.00014	0.000024	2.4	0.018	0.000017	0.00013	0.00029	0.0017	0.0023
		September		1.3	0.00012	0.000023	2.1	0.017	0.000017	0.00013	0.00025	0.0017	0.0022
		October		1.3	0.00012	0.000023	2.1	0.017	0.000017	0.00013	0.00025	0.0017	0.0022
		November		1.3	0.00012	0.000023	2.1	0.017	0.000017	0.00013	0.00025	0.0017	0.0022
		December		1.3	0.00012	0.000023	2.1	0.017	0.000017	0.00013	0.00025	0.0017	0.0022
		January	2020	1.3	0.00012	0.000023	2.1	0.017	0.000017	0.00013	0.00025	0.0017	0.0022
		February		1.3	0.00012	0.000023	2.1	0.017	0.000017	0.00013	0.00025	0.0017	0.0022
		March		1.3	0.00012	0.000023	2.1	0.017	0.000017	0.00013	0.00025	0.0017	0.0022
		April		1.3	0.00012	0.000023	2.1	0.017	0.000017	0.00013	0.00025	0.0017	0.0022
		May		1.3	0.00012	0.000023	2.1	0.017	0.000017	0.00013	0.00025	0.0017	0.0022
		June		4.5	0.00043	0.000047	7.2	0.052	0.000039	0.00035	0.00089	0.0035	0.0053
		July		8.1	0.00061	0.000031	3.5	0.063	0.000025	0.00022	0.0011	0.0033	0.003
		August		8.1	0.0006	0.00003	2.5	0.063	0.000025	0.00021	0.001	0.0033	0.0028
		September		5.2	0.00039	0.000026	1.7	0.043	0.000021	0.00017	0.00067	0.0025	0.0024
		October		5.4	0.0004	0.000026	1.7	0.045	0.000021	0.00017	0.00068	0.0025	0.0024
		November		5.4	0.0004	0.000026	1.7	0.045	0.000021	0.00017	0.00068	0.0025	0.0024
		December		5.4	0.0004	0.000026	1.7	0.045	0.000021	0.00017	0.00068	0.0025	0.0024
		January	2021	5.4	0.0004	0.000026	1.7	0.045	0.000021	0.00017	0.00068	0.0025	0.0024
		February		5.4	0.0004	0.000026	1.7	0.045	0.000021	0.00017	0.00068	0.0025	0.0024
		March		5.4	0.0004	0.000026	1.7	0.045	0.000021	0.00017	0.00068	0.0025	0.0024
		April		5.4	0.0004	0.000026	1.7	0.045	0.000021	0.00017	0.00068	0.0025	0.0024
		May		5.4	0.0004	0.000026	1.7	0.045	0.000021	0.00017	0.00068	0.0025	0.0024
		June		2.5	0.00018	0.00002	0.85	0.022	0.000015	0.0001	0.00033	0.0017	0.0017
		July		15	0.0011	0.000037	3.5	0.11	0.000034	0.00031	0.002	0.005	0.0036
		August		13	0.001	0.000035	3.2	0.097	0.000032	0.0003	0.0018	0.0047	0.0035
		September		7.7	0.00059	0.000029	2.0	0.059	0.000025	0.00022	0.0011	0.0033	0.0028
		October		7.4	0.00058	0.000029	1.9	0.057	0.000025	0.00022	0.001	0.0033	0.0028
		November		7.4	0.00058	0.000029	1.9	0.057	0.000025	0.00022	0.001	0.0033	0.0028
		December		7.4	0.00058	0.000029	1.9	0.057	0.000025	0.00022	0.001	0.0033	0.0028
		January	2022	7.4	0.00058	0.000029	1.9	0.057	0.000025	0.00022	0.001	0.0033	0.0028
		February		7.4	0.00058	0.000029	1.9	0.057	0.000025	0.00022	0.001	0.0033	0.0028
		March		7.4	0.00058	0.000029	1.9	0.057	0.000025	0.00022	0.001	0.0033	0.0028
		April		7.4	0.00058	0.000029	1.9	0.057	0.000025	0.00022	0.001	0.0033	0.0028
		May		7.4	0.00058	0.000029	1.9	0.057	0.000025	0.00022	0.001	0.0033	0.0028
		June		2.4	0.00019	0.00002	0.75	0.021	0.000015	0.0001	0.00035	0.0017	0.0017
		July		8.6	0.00068	0.00003	1.9	0.064	0.000028	0.00025	0.0014	0.0037	0.0032
			MINIMUM	0.63	0.000055	0.00002	0.6	0.013	0.000015	0.0001	0.000036	0.0013	0.0017
			MAXIMUM	15	0.0011	0.000047	7.2	0.11	0.000039	0.00035	0.002	0.005	0.0053
			AVERAGE	3.7	0.00029	0.000025	1.7	0.034	0.00002	0.00016	0.00052	0.0022	0.0023
Whale Tail Waste Rock Storage Facility Pond	*Closure*	January	≥2023	2.8	0.00019	0.000021	0.91	0.028	0.000021	0.00021	0.0011	0.0016	0.0031
		February		2.8	0.00019	0.000021	0.91	0.028	0.000021	0.00021	0.0011	0.0016	0.0031
		March		2.8	0.00019	0.000021	0.91	0.028	0.000021	0.00021	0.0011	0.0016	0.0031
		April		2.8	0.00019	0.000021	0.91	0.028	0.000021	0.00021	0.0011	0.0016	0.0031
		May		2.8	0.00019	0.000021	0.91	0.028	0.000021	0.00021	0.0011	0.0016	0.0031
		June		0.98	0.000071	0.000015	0.47	0.012	0.000012	0.000094	0.00032	0.001	0.0016
		July		5.0	0.00032	0.000024	1.1	0.042	0.000027	0.0003	0.002	0.0021	0.0044
		August		4.7	0.00031	0.000024	1.1	0.04	0.000026	0.00029	0.0019	0.002	0.0043
		September		2.9	0.0002	0.000021	0.92	0.028	0.000021	0.00021	0.0011	0.0016	0.0031
		October		2.8	0.00019	0.000021	0.91	0.028	0.000021	0.00021	0.0011	0.0016	0.0031
		November		2.8	0.00019	0.000021	0.91	0.028	0.000021	0.00021	0.0011	0.0016	0.0031
		December		2.8	0.00019	0.000021	0.91	0.028	0.000021	0.00021	0.0011	0.0016	0.0031
			MINIMUM	0.98	0.000071	0.000015	0.47	0.012	0.000012	0.000094	0.00032	0.001	0.0016
			MAXIMUM	5.0	0.00032	0.000024	1.1	0.042	0.000027	0.0003	0.002	0.0021	0.0044
			AVERAGE	3.0	0.0002	0.000021	0.91	0.029	0.000021	0.00021	0.0012	0.0016	0.0032

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)				1400						16		0.3	0.5		0.1					0.002		0.02
			Constituent	TDS	Acidity	Alkalinity	Cl	F	SO4	NH3 (as N)	NO3	P_total	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr
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	69	0	6.5	3.7	0.04	2.0	0.3	12	0.013	0.33	0.00016	0.0043	0.0089	0.000035	0.000074	0.014	0.0000089	3.3	0.0088
		February		70	0	6.9	4.0	0.042	2.1	0.3	12	0.013	0.33	0.00017	0.0043	0.0093	0.000037	0.000079	0.015	0.0000094	3.5	0.0088
		March		70	0	6.9	4.0	0.042	2.1	0.3	12	0.013	0.33	0.00017	0.0043	0.0093	0.000037	0.000079	0.015	0.0000094	3.5	0.0088
		April		70	0	6.9	4.0	0.042	2.1	0.3	12	0.013	0.33	0.00017	0.0043	0.0093	0.000037	0.000079	0.015	0.0000094	3.5	0.0088
		May		70	0	6.9	4.0	0.042	2.1	0.3	12	0.013	0.33	0.00017	0.0043	0.0093	0.000037	0.000079	0.015	0.0000094	3.5	0.0088
		June		63	0.065	3.9	1.8	0.029	1.4	0.3	12	0.012	0.33	0.00012	0.0053	0.0068	0.000022	0.000041	0.0078	0.0000057	1.9	0.0088
		July		64	0.22	4.3	1.7	0.033	2.2	0.3	12	0.011	0.33	0.00017	0.0076	0.007	0.000021	0.000038	0.0076	0.0000057	2.1	0.0088
		August		67	0.48	5.3	1.9	0.042	3.5	0.3	12	0.012	0.33	0.00026	0.011	0.0079	0.000022	0.000039	0.0084	0.0000063	2.7	0.0088
		September		69	0.56	5.7	1.9	0.046	3.9	0.3	12	0.012	0.33	0.00029	0.013	0.0081	0.000023	0.00004	0.0086	0.0000065	2.9	0.0088
		October		68	0.54	5.6	1.9	0.045	3.8	0.3	12	0.012	0.33	0.00028	0.012	0.0081	0.000023	0.00004	0.0086	0.0000065	2.9	0.0088
		November		68	0.53	5.7	1.9	0.045	3.8	0.3	12	0.012	0.33	0.00028	0.012	0.0081	0.000023	0.00004	0.0086	0.0000065	2.9	0.0088
		December		68	0.53	5.7	1.9	0.044	3.8	0.3	12	0.012	0.33	0.00028	0.012	0.008	0.000023	0.00004	0.0086	0.0000065	2.9	0.0088
		January	2019	68	0.52	5.7	1.9	0.044	3.8	0.3	12	0.012	0.33	0.00028	0.012	0.008	0.000023	0.00004	0.0086	0.0000065	2.8	0.0088
		February		68	0.51	5.7	1.8	0.044	3.8	0.3	12	0.012	0.33	0.00027	0.012	0.008	0.000023	0.00004	0.0086	0.0000065	2.8	0.0088
		March		68	0.51	5.8	1.8	0.044	3.8	0.3	12	0.012	0.33	0.00027	0.012	0.008	0.000023	0.000041	0.0087	0.0000065	2.8	0.0088
		April		68	0.5	5.8	1.8	0.043	3.8	0.3	12	0.012	0.33	0.00027	0.012	0.008	0.000023	0.000041	0.0087	0.0000065	2.8	0.0088
		May		68	0.49	5.8	1.8	0.043	3.8	0.3	12	0.012	0.33	0.00027	0.012	0.008	0.000023	0.000041	0.0087	0.0000065	2.8	0.0088
		June		71	1.3	5.9	2.2	0.046	4.9	0.3	12	0.012	0.33	0.00038	0.016	0.0083	0.000023	0.000041	0.0092	0.0000067	3.3	0.0088
		July		80	3.8	7.2	3.6	0.06	9.1	0.3	12	0.013	0.33	0.00076	0.031	0.0098	0.000026	0.000043	0.011	0.0000078	5.2	0.0088
		August		90	5.6	9.0	4.8	0.08	13	0.3	12	0.015	0.33	0.0012	0.051	0.012	0.00003	0.000048	0.015	0.0000093	7.0	0.0089
		September		92	6.1	9.6	5.2	0.086	14	0.3	12	0.016	0.33	0.0013	0.057	0.012	0.000031	0.000049	0.016	0.0000097	7.5	0.0089
		October		89	5.3	9.0	4.8	0.08	13	0.3	12	0.015	0.33	0.0012	0.053	0.011	0.00003	0.000049	0.015	0.0000093	6.9	0.0089
		November		83	3.4	9.6	3.3	0.064	9.7	0.3	12	0.014	0.33	0.00079	0.035	0.011	0.000032	0.000058	0.015	0.0000091	5.7	0.0089
		December		68	0.21	7.7	0.73	0.029	3.8	0.3	12	0.012	0.33	0.00016	0.0063	0.0074	0.000027	0.000053	0.01	0.000007	2.8	0.0087
		January	2020	67	0.0088	7.5	0.57	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0045	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087
		February		67	0.0004	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087
		March		67	0.00002	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087
		April		67	0.00000086	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087
		May		67	3.9E-08	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087
		June		77	1.5	8.1	3.0	0.066	7.0	0.3	12	0.015	0.33	0.00081	0.05	0.010	0.00003	0.000052	0.014	0.0000084	4.4	0.009
			MINIMUM	63	3.9E-08	3.9	0.56	0.027	1.4	0.3	12	0.011	0.33	0.00012	0.0043	0.0068	0.000021	0.000038	0.0076	0.0000057	1.9	0.0087
			MAXIMUM	92	6.1	9.6	5.2	0.086	14	0.3	12	0.016	0.33	0.0013	0.057	0.012	0.000037	0.000079	0.016	0.0000097	7.5	0.009
			AVERAGE	71	1.3	6.8	2.4	0.045	4.8	0.3	12	0.013	0.33	0.00037	0.016	0.0086	0.000027	0.000051	0.011	0.0000075	3.5	0.0088

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)			0.1	1.0	0.05				0.004		0.25										0.1
			Constituent	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	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	0.00065	0.0012	0.7	0.00021	0.0017	1.4	0.014	0.0000072	0.000091	0.0049	0.74	0.000076	0.000025	0.78	0.022	0.00002	0.00015	0.000061	0.0016	0.0023
		February		0.00066	0.0012	0.7	0.00021	0.0018	1.5	0.014	0.0000077	0.000096	0.005	0.78	0.000081	0.000026	0.84	0.023	0.000021	0.00016	0.000064	0.0016	0.0024
		March		0.00066	0.0012	0.7	0.00021	0.0018	1.5	0.014	0.0000077	0.000096	0.005	0.78	0.000081	0.000026	0.84	0.023	0.000021	0.00016	0.000064	0.0016	0.0024
		April		0.00066	0.0012	0.7	0.00021	0.0018	1.5	0.014	0.0000077	0.000096	0.005	0.78	0.000081	0.000026	0.84	0.023	0.000021	0.00016	0.000064	0.0016	0.0024
		May		0.00066	0.0012	0.7	0.00021	0.0018	1.5	0.014	0.0000077	0.000096	0.005	0.78	0.000081	0.000026	0.84	0.023	0.000021	0.00016	0.000064	0.0016	0.0024
		June		0.00059	0.0010	0.72	0.00019	0.0011	1.1	0.013	0.0000041	0.00012	0.0047	0.6	0.000049	0.000019	0.51	0.011	0.000013	0.00009	0.00011	0.0012	0.0016
		July		0.0006	0.001	0.72	0.00019	0.0011	1.1	0.014	0.0000046	0.00027	0.0047	0.84	0.000062	0.000019	0.52	0.012	0.000014	0.000096	0.00021	0.0013	0.0017
		August		0.00062	0.001	0.72	0.00019	0.0013	1.2	0.015	0.0000059	0.00052	0.0048	1.3	0.000089	0.000019	0.58	0.014	0.000015	0.00012	0.00037	0.0014	0.002
		September		0.00063	0.0011	0.72	0.0002	0.0013	1.2	0.015	0.0000063	0.0006	0.0048	1.4	0.000098	0.00002	0.6	0.015	0.000015	0.00012	0.00043	0.0014	0.0021
		October		0.00063	0.001	0.72	0.0002	0.0013	1.2	0.015	0.0000062	0.00058	0.0048	1.4	0.000096	0.00002	0.6	0.015	0.000015	0.00012	0.00042	0.0014	0.0021
		November		0.00063	0.001	0.72	0.0002	0.0013	1.2	0.015	0.0000062	0.00057	0.0048	1.4	0.000095	0.00002	0.6	0.015	0.000015	0.00012	0.00041	0.0014	0.0021
		December		0.00063	0.001	0.72	0.0002	0.0013	1.2	0.015	0.0000062	0.00057	0.0048	1.4	0.000095	0.00002	0.6	0.015	0.000015	0.00012	0.00041	0.0014	0.0021
		January	2019	0.00063	0.001	0.72	0.0002	0.0013	1.2	0.015	0.0000062	0.00056	0.0048	1.4	0.000094	0.00002	0.59	0.015	0.000015	0.00012	0.0004	0.0014	0.002
		February		0.00063	0.001	0.72	0.0002	0.0013	1.2	0.015	0.0000062	0.00055	0.0048	1.4	0.000094	0.00002	0.59	0.015	0.000015	0.00012	0.0004	0.0014	0.002
		March		0.00063	0.001	0.72	0.0002	0.0013	1.2	0.015	0.0000062	0.00055	0.0048	1.4	0.000093	0.00002	0.59	0.015	0.000015	0.00012	0.00039	0.0014	0.002
		April		0.00063	0.001	0.72	0.0002	0.0013	1.2	0.015	0.0000061	0.00054	0.0048	1.4	0.000093	0.00002	0.59	0.015	0.000015	0.00012	0.00039	0.0014	0.002
		May		0.00063	0.001	0.72	0.0002	0.0013	1.2	0.015	0.0000061	0.00053	0.0048	1.3	0.000092	0.00002	0.59	0.015	0.000015	0.00012	0.00038	0.0014	0.002
		June		0.00069	0.0011	0.74	0.0002	0.0014	1.3	0.022	0.0000065	0.00057	0.0072	1.5	0.000099	0.000024	0.66	0.016	0.000017	0.00013	0.00034	0.0014	0.0021
		July		0.00087	0.0013	0.79	0.00021	0.0017	1.5	0.042	0.0000087	0.00086	0.014	2.4	0.00014	0.000035	0.92	0.021	0.000023	0.00015	0.00035	0.0015	0.0026
		August		0.001	0.0016	0.84	0.00023	0.002	1.8	0.058	0.000011	0.0011	0.019	3.1	0.00018	0.000045	1.4	0.026	0.000029	0.00018	0.0004	0.0016	0.0031
		September		0.0011	0.0017	0.85	0.00024	0.0021	1.8	0.063	0.000012	0.0012	0.021	3.4	0.00019	0.000047	1.6	0.027	0.00003	0.00019	0.00042	0.0016	0.0032
		October		0.001	0.0016	0.83	0.00024	0.002	1.8	0.057	0.000011	0.0011	0.019	3.0	0.00018	0.000044	1.5	0.026	0.000028	0.00018	0.00038	0.0016	0.003
		November		0.00089	0.0014	0.78	0.00025	0.0019	1.8	0.041	0.0000095	0.0007	0.014	2.3	0.00014	0.000037	1.2	0.022	0.000025	0.00017	0.00025	0.0016	0.0027
		December		0.00063	0.0008	0.7	0.00022	0.0013	1.5	0.015	0.0000053	0.00011	0.0051	0.87	0.00006	0.000022	0.56	0.012	0.000016	0.00012	0.00004	0.0014	0.0018
		January	2020	0.00061	0.00076	0.69	0.00022	0.0013	1.5	0.013	0.000005	0.000073	0.0046	0.78	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000027	0.0013	0.0018
		February		0.00061	0.00076	0.69	0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018
		March		0.00061	0.00076	0.69	0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018
		April		0.00061	0.00076	0.69	0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018
		May		0.00061	0.00076	0.69	0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018
		June		0.00079	0.0015	0.75	0.00026	0.0017	1.6	0.03	0.000008	0.00051	0.0088	1.8	0.00014	0.000028	1.5	0.019	0.00002	0.00014	0.00031	0.0016	0.0024
			MINIMUM	0.00059	0.00076	0.69	0.00019	0.0011	1.1	0.013	0.0000041	0.000072	0.0046	0.6	0.000049	0.000019	0.51	0.011	0.000013	0.00009	0.000026	0.0012	0.0016
			MAXIMUM	0.0011	0.0017	0.85	0.00026	0.0021	1.8	0.063	0.000012	0.0012	0.021	3.4	0.00019	0.000047	1.6	0.027	0.00003	0.00019	0.00043	0.0016	0.0032
			AVERAGE	0.0007	0.0011	0.73	0.00021	0.0015	1.4	0.021	0.0000068	0.00043	0.0071	1.4	0.000095	0.000025	0.77	0.017	0.000018	0.00014	0.00024	0.0014	0.0022

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	1.0
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12			2.93	0.01	0.1		*0.025*				1.5	0.00004				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	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*	January	2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		February		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		March		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		April		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		May		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		June		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		July		83	1.0	8.7	2.7	0.07	10	0.3	12	0.012	0.33	0.00057	0.048	0.01	0.000028	0.00005	0.011	0.0000085	5.7	0.0088	0.00071	0.0012	0.74
		August		71	0.44	6.2	2.3	0.048	5.1	0.3	12	0.012	0.33	0.0003	0.023	0.0086	0.000026	0.000048	0.01	0.0000072	3.5	0.0088	0.00065	0.0012	0.73
		September		66	0.15	5.0	2.1	0.037	2.6	0.3	12	0.012	0.33	0.00017	0.011	0.0077	0.000025	0.000047	0.0093	0.0000066	2.4	0.0088	0.00062	0.0011	0.73
		October		67	0.0046	7.4	0.61	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0046	0.0072	0.000027	0.000052	0.01	0.0000068	2.6	0.0087	0.00061	0.00077	0.69
		November		67	0	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087	0.00061	0.00076	0.69
		December		67	0	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087	0.00061	0.00076	0.69
		January	2019	67	0	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087	0.00061	0.00076	0.69
		February		67	0	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087	0.00061	0.00076	0.69
		March		67	0	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087	0.00061	0.00076	0.69
		April		67	0	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087	0.00061	0.00076	0.69
		May		64	0.0046	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000047	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69
		June		64	0.0046	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000047	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69
		July		64	0.0046	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000047	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69
		August		64	0.0046	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000047	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69
		September		64	0.0046	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000047	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69
		October		64	0.0046	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000047	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69
		November		64	0.0046	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000047	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69
		December		64	0.0046	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000047	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69
		January	2020	64	0.0046	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000047	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69
		February		64	0.0046	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000047	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69
		March		64	0.0046	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000047	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69
		April		64	0.0046	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000047	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69
		May		64	0.0046	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000047	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69
		June		83	1.0	8.7	2.7	0.07	10	0.3	12	0.012	0.33	0.00057	0.048	0.01	0.000028	0.000053	0.011	0.0000085	5.7	0.0088	0.00071	0.0012	0.74
		July		306	0.52	80	79	0.16	40	0.3	12	0.071	0.33	0.0045	**0.28**	0.058	0.000074	0.000067	0.69	0.000063	33	0.014	0.0028	0.0061	**1.4**
		August		293	0.5	76	75	0.15	38	0.3	12	0.068	0.33	0.0042	**0.27**	0.056	0.000071	0.000065	0.65	0.00006	31	0.014	0.0027	0.0058	**1.4**
		September		258	0.29	57	75	0.14	28	0.3	12	0.068	0.33	0.0024	**0.15**	0.05	0.000059	0.00006	0.43	0.000051	27	0.012	0.002	0.0041	**1.2**
		October		427	0.075	77	174	0.27	35	0.3	12	0.14	0.33	0.00079	0.042	0.091	0.000084	0.000086	0.39	0.000088	52	0.01	0.0019	0.0038	0.84
		November		491	0.0018	85	210	0.31	39	0.3	12	0.17	0.33	0.00028	0.0074	0.11	0.000093	0.000096	0.38	0.0001	61	0.0096	0.002	0.0038	0.73
		December		492	0.00015	86	210	0.31	39	0.3	12	0.17	0.33	0.00027	0.0067	0.11	0.000094	0.000096	0.38	0.0001	61	0.0096	0.002	0.0038	0.73
		January	2021	370	0.00041	63	151	0.23	28	0.3	12	0.13	0.33	0.00024	0.006	0.079	0.000077	0.000092	0.28	0.000075	44	0.0094	0.0016	0.0031	0.72
		February		305	0.00058	51	118	0.19	23	0.3	12	0.1	0.33	0.00023	0.0057	0.064	0.000069	0.000089	0.22	0.000061	35	0.0092	0.0014	0.0027	0.72
		March		301	0.00059	50	116	0.19	22	0.3	12	0.1	0.33	0.00022	0.0057	0.063	0.000068	0.000089	0.22	0.00006	35	0.0092	0.0014	0.0026	0.72
		April		300	0.00059	50	116	0.19	22	0.3	12	0.1	0.33	0.00022	0.0057	0.063	0.000068	0.000089	0.22	0.00006	35	0.0092	0.0014	0.0026	0.72
		May		300	0.00059	50	116	0.19	22	0.3	12	0.1	0.33	0.00022	0.0057	0.063	0.000068	0.000089	0.22	0.00006	35	0.0092	0.0014	0.0026	0.72
		June		129	0.17	24	24	0.061	12	0.3	12	0.029	0.33	0.0012	0.076	0.021	0.000034	0.000044	0.19	0.000021	10	0.01	0.0012	0.0023	0.95
		July		212	0.83	63	31	0.098	33	0.3	12	0.036	0.33	0.0046	**0.3**	0.036	0.000058	0.000054	0.62	0.000042	20	0.014	0.0026	0.0056	**1.4**
		August		216	0.87	65	31	0.10	34	0.3	12	0.036	0.33	0.0048	**0.31**	0.037	0.00006	0.000055	0.64	0.000043	20	0.015	0.0027	0.0058	**1.4**
		September		175	0.49	43	31	0.084	22	0.3	12	0.035	0.33	0.0028	**0.18**	0.03	0.000046	0.000049	0.39	0.000032	16	0.012	0.0018	0.0039	**1.2**
		October		248	0.18	46	83	0.15	21	0.3	12	0.076	0.33	0.0011	0.062	0.049	0.000058	0.000072	0.26	0.000048	27	0.01	0.0015	0.0029	0.89
		November		291	0.013	49	111	0.18	22	0.3	12	0.097	0.33	0.00028	0.0094	0.06	0.000067	0.000087	0.21	0.000058	33	0.0093	0.0014	0.0026	0.73
		December		294	0.0018	49	113	0.19	22	0.3	12	0.099	0.33	0.00023	0.0059	0.061	0.000067	0.000088	0.21	0.000058	34	0.0092	0.0014	0.0026	0.72
		January	2022	277	0.0011	46	105	0.18	20	0.3	12	0.093	0.33	0.00022	0.0055	0.057	0.000065	0.000088	0.2	0.000055	32	0.0092	0.0013	0.0025	0.72
		February		268	0.0011	44	100	0.17	20	0.3	12	0.089	0.33	0.00022	0.0055	0.055	0.000064	0.000087	0.19	0.000053	30	0.0092	0.0013	0.0024	0.72
		March		267	0.0011	44	100	0.17	19	0.3	12	0.089	0.33	0.00022	0.0055	0.055	0.000064	0.000087	0.19	0.000053	30	0.0092	0.0013	0.0024	0.72
		April		267	0.0011	44	100	0.17	19	0.3	12	0.089	0.33	0.00022	0.0055	0.055	0.000064	0.000087	0.19	0.000053	30	0.0092	0.0013	0.0024	0.72
		May		268	0.0011	44	100	0.17	20	0.3	12	0.089	0.33	0.00022	0.0055	0.055	0.000064	0.000087	0.19	0.000053	30	0.0092	0.0013	0.0024	0.72
		June		122	0.2	23	20	0.057	11	0.3	12	0.026	0.33	0.0012	0.076	0.019	0.000033	0.000043	0.18	0.00002	9.3	0.01	0.0011	0.0022	0.95
		July		203	0.97	62	27	0.092	32	0.3	12	0.032	0.33	0.0046	**0.29**	0.034	0.000057	0.000053	0.61	0.00004	19	0.014	0.0025	0.0056	**1.4**
			MINIMUM	64	0.00015	5.0	0.56	0.027	2.6	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000025	0.000043	0.0093	0.0000066	2.4	0.0087	0.00061	0.00076	0.69
			MAXIMUM	492	1.0	86	210	0.31	40	0.3	12	0.17	0.33	0.0048	**0.31**	0.11	0.000094	0.000096	0.69	0.0001	61	0.015	0.0028	0.0061	**1.4**
			AVERAGE	177	0.18	31	50	0.1	15	0.3	12	0.049	0.33	0.00081	0.048	0.033	0.000046	0.000063	0.17	0.000032	17	0.0097	0.0012	0.0022	0.81

			Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)	0.05				0.004		0.25									0.1
			CCME (CEQG-PAL [chronic])[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[3]	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	2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		February		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		March		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		April		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		May		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		June		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		July		0.00022	0.0018	1.6	0.019	0.0000095	0.0011	0.0052	2.9	0.00018	0.000023	1.0	0.023	0.000019	0.00021	0.00069	0.0018	0.0027
		August		0.00021	0.0014	1.4	0.016	0.0000066	0.00049	0.005	1.6	0.00011	0.000021	0.78	0.016	0.000016	0.00015	0.00034	0.0015	0.0022
		September		0.0002	0.0013	1.2	0.014	0.0000052	0.00021	0.0049	0.89	0.000069	0.00002	0.66	0.013	0.000015	0.00011	0.00017	0.0014	0.0019
		October		0.00022	0.0013	1.5	0.013	0.000005	0.000076	0.0046	0.78	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000031	0.0013	0.0018
		November		0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018
		December		0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018
		January	2019	0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018
		February		0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018
		March		0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018
		April		0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018
		May		0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018
		June		0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018
		July		0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018
		August		0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018
		September		0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018
		October		0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018
		November		0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018
		December		0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018
		January	2020	0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018
		February		0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018
		March		0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018
		April		0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018
		May		0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018
		June		0.00022	0.0018	1.6	0.019	0.0000095	0.0011	0.0052	2.9	0.00018	0.000023	1.0	0.023	0.000019	0.00021	0.00069	0.0018	0.0027
		July		0.0019	0.0079	12	0.22	0.00002	0.0096	0.012	8.2	0.002	0.000084	33	0.23	0.000034	0.0002	0.0031	0.004	0.0094
		August		0.0018	0.0075	11	0.21	0.000019	0.0091	0.011	7.8	0.0019	0.00008	31	0.21	0.000033	0.00019	0.0029	0.0039	0.009
		September		0.0012	0.0068	11	0.17	0.000012	0.0085	0.0091	5.4	0.0012	0.000055	25	0.2	0.000024	0.00014	0.0027	0.0027	0.0071
		October		0.001	0.013	21	0.24	0.000007	0.018	0.0089	5.4	0.00075	0.000039	40	0.43	0.000018	0.00012	0.0054	0.0017	0.0098
		November		0.00099	0.015	25	0.28	0.0000053	0.022	0.0089	5.5	0.00064	0.000034	46	0.52	0.000016	0.00011	0.0064	0.0014	0.011
		December		0.00099	0.015	25	0.28	0.0000053	0.022	0.0089	5.5	0.00063	0.000034	46	0.52	0.000016	0.00011	0.0064	0.0014	0.011
		January	2021	0.00077	0.011	19	0.2	0.000006	0.016	0.0078	4.2	0.00047	0.000032	33	0.37	0.000017	0.00013	0.0046	0.0015	0.0084
		February		0.00065	0.0091	15	0.16	0.0000064	0.012	0.0072	3.4	0.00039	0.000031	26	0.3	0.000018	0.00014	0.0036	0.0015	0.0071
		March		0.00064	0.009	15	0.16	0.0000064	0.012	0.0072	3.4	0.00038	0.000031	26	0.29	0.000018	0.00014	0.0035	0.0015	0.007
		April		0.00064	0.009	15	0.16	0.0000064	0.012	0.0071	3.4	0.00038	0.000031	26	0.29	0.000018	0.00014	0.0035	0.0015	0.007
		May		0.00064	0.009	15	0.16	0.0000064	0.012	0.0072	3.4	0.00038	0.000031	26	0.29	0.000018	0.00014	0.0035	0.0015	0.007
		June		0.00064	0.0029	4.0	0.072	0.0000076	0.0027	0.0066	2.5	0.00054	0.000035	9.2	0.07	0.000018	0.00011	0.0009	0.0019	0.0036
		July		0.0018	0.0048	6.3	0.18	0.000021	0.0047	0.012	7.4	0.0019	0.000084	23	0.11	0.000035	0.0002	0.0016	0.0041	0.0075
		August		0.0019	0.0049	6.4	0.19	0.000021	0.0048	0.013	7.7	0.002	0.000086	23	0.11	0.000036	0.00021	0.0017	0.0042	0.0077
		September		0.0012	0.004	5.5	0.13	0.000014	0.0041	0.0094	4.9	0.0012	0.000058	16	0.099	0.000026	0.00015	0.0014	0.0029	0.0055
		October		0.00079	0.007	11	0.14	0.0000085	0.0088	0.0078	3.7	0.00062	0.000039	21	0.22	0.00002	0.00014	0.0027	0.0019	0.0063
		November		0.00064	0.0086	14	0.15	0.0000066	0.011	0.0071	3.3	0.00039	0.000031	25	0.28	0.000018	0.00014	0.0034	0.0015	0.0068
		December		0.00063	0.0088	14	0.15	0.0000064	0.012	0.0071	3.3	0.00038	0.000031	25	0.28	0.000018	0.00014	0.0034	0.0015	0.0069
		January	2022	0.0006	0.0082	13	0.14	0.0000065	0.011	0.0069	3.1	0.00035	0.00003	23	0.26	0.000019	0.00014	0.0032	0.0015	0.0065
		February		0.00058	0.008	13	0.14	0.0000066	0.01	0.0068	3.0	0.00034	0.00003	22	0.25	0.000019	0.00014	0.003	0.0015	0.0064
		March		0.00058	0.0079	13	0.14	0.0000066	0.01	0.0068	3.0	0.00034	0.00003	22	0.25	0.000019	0.00014	0.003	0.0015	0.0063
		April		0.00058	0.0079	13	0.14	0.0000066	0.01	0.0068	3.0	0.00034	0.00003	22	0.25	0.000019	0.00014	0.003	0.0015	0.0063
		May		0.00058	0.0079	13	0.14	0.0000066	0.01	0.0068	3.0	0.00034	0.00003	22	0.25	0.000019	0.00014	0.003	0.0015	0.0063
		June		0.00063	0.0027	3.6	0.068	0.0000077	0.0024	0.0067	2.5	0.00054	0.000035	8.5	0.062	0.000018	0.00011	0.00081	0.0019	0.0035
		July		0.0018	0.0045	5.8	0.18	0.000021	0.0042	0.012	7.3	0.0019	0.000084	22	0.1	0.000035	0.0002	0.0015	0.0041	0.0073
			MINIMUM	0.0002	0.0013	1.2	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.00002	0.52	0.011	0.000015	0.00011	0.000026	0.0013	0.0018
			MAXIMUM	0.0019	0.015	25	0.28	0.000021	0.022	0.013	8.2	0.002	0.000086	46	0.52	0.000036	0.00021	0.0064	0.0042	0.011
			AVERAGE	0.0006	0.0047	7.2	0.092	0.0000077	0.0054	0.0066	2.8	0.00045	0.000033	13	0.13	0.000019	0.00014	0.0016	0.0018	0.0046

		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
		CCME (CEQG-PAL [chronic])[2] (mg/L)					120	0.12			2.93	0.01	0.1		*0.025*				1.5	0.00004				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	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 Pit	*Closure*	August	2022	42	0.1	12	14	0.045	6.0	0.042	0.089	**0.019**	**0.33**	0.00053	**0.034**	0.013	0.000029	0.000046	0.062	0.000013	6.3	0.0091	0.00079	0.0013	**0.74**
		September		34	0.052	8.5	13	0.042	4.2	0.041	0.069	**0.018**	**0.33**	0.00027	0.017	0.012	0.000027	0.000046	0.03	0.000011	5.4	0.0088	0.00069	0.0011	**0.71**
		October		34	0.047	8.5	13	0.042	4.1	0.04	0.068	**0.018**	**0.33**	0.00025	0.016	0.012	0.000027	0.000047	0.03	0.000011	5.4	0.0088	0.00069	0.0011	**0.71**
		November		36	0.049	8.8	14	0.044	4.3	0.041	0.068	**0.019**	**0.33**	0.00025	0.016	0.012	0.000027	0.000047	0.031	0.000012	5.6	0.0088	0.0007	0.0011	**0.71**
		December		37	0.05	9.1	14	0.045	4.4	0.042	0.069	**0.02**	**0.33**	0.00025	0.016	0.013	0.000028	0.000047	0.033	0.000012	5.8	0.0088	0.0007	0.0011	**0.71**
		January	2023	39	0.052	9.5	15	0.046	4.6	0.043	0.07	**0.02**	**0.33**	0.00025	0.016	0.013	0.000028	0.000047	0.034	0.000012	6.1	0.0088	0.00071	0.0011	**0.71**
		February		41	0.053	9.8	16	0.047	4.7	0.044	0.07	**0.021**	**0.33**	0.00025	0.016	0.014	0.000028	0.000047	0.036	0.000013	6.3	0.0088	0.00072	0.0012	**0.71**
		March		42	0.054	10	17	0.048	4.9	0.045	0.071	**0.022**	**0.33**	0.00025	0.016	0.014	0.000028	0.000047	0.037	0.000013	6.5	0.0088	0.00072	0.0012	**0.71**
		April		44	0.055	10	17	0.049	5.0	0.046	0.071	**0.022**	**0.33**	0.00026	0.016	0.014	0.000029	0.000048	0.039	0.000014	6.7	0.0088	0.00073	0.0012	**0.71**
		May		45	0.055	11	18	0.05	5.2	0.047	0.072	**0.023**	**0.33**	0.00026	0.016	0.015	0.000029	0.000048	0.04	0.000014	6.9	0.0088	0.00074	0.0012	**0.71**
		June		44	0.049	11	18	0.051	5.0	0.047	0.072	**0.022**	**0.33**	0.00024	0.015	0.015	0.00003	0.00005	0.039	0.000014	6.8	0.0088	0.00073	0.0012	**0.71**
		July		39	0.044	9.6	15	0.047	4.5	0.043	0.067	**0.021**	**0.33**	0.00023	0.013	0.013	0.000029	0.00005	0.034	0.000013	6.1	0.0088	0.00071	0.0012	**0.71**
		August		37	0.046	9.1	14	0.045	4.2	0.04	0.063	**0.02**	**0.33**	0.00022	0.013	0.013	0.000028	0.000049	0.032	0.000012	5.7	0.0088	0.0007	0.0011	**0.71**
		September		35	0.048	8.7	13	0.044	4.1	0.038	0.061	**0.019**	**0.33**	0.00022	0.013	0.012	0.000028	0.000049	0.03	0.000012	5.5	0.0088	0.0007	0.0011	**0.71**
		October		34	0.049	8.6	13	0.044	4.0	0.037	0.06	**0.019**	**0.33**	0.00022	0.013	0.012	0.000028	0.000048	0.03	0.000012	5.4	0.0088	0.0007	0.0011	**0.71**
		November		34	0.05	8.7	13	0.044	4.0	0.037	0.06	**0.019**	**0.33**	0.00022	0.013	0.012	0.000028	0.000048	0.03	0.000012	5.4	0.0088	0.0007	0.0011	**0.71**
		December		35	0.051	8.8	13	0.044	4.1	0.038	0.06	**0.019**	**0.33**	0.00022	0.013	0.012	0.000028	0.000048	0.03	0.000012	5.5	0.0088	0.0007	0.0011	**0.71**
		January	2024	35	0.051	8.8	13	0.045	4.1	0.038	0.06	**0.019**	**0.33**	0.00022	0.013	0.013	0.000028	0.000048	0.031	0.000012	5.5	0.0088	0.0007	0.0011	**0.71**
		February		36	0.052	8.9	14	0.045	4.1	0.038	0.06	**0.02**	**0.33**	0.00022	0.013	0.013	0.000028	0.000049	0.031	0.000012	5.6	0.0088	0.00071	0.0011	**0.71**
		March		36	0.053	9.0	14	0.045	4.2	0.038	0.06	**0.02**	**0.33**	0.00022	0.013	0.013	0.000028	0.000049	0.031	0.000012	5.6	0.0088	0.00071	0.0011	**0.71**
		April		36	0.053	9.1	14	0.045	4.2	0.038	0.06	**0.02**	**0.33**	0.00022	0.013	0.013	0.000028	0.000049	0.032	0.000012	5.7	0.0088	0.00071	0.0012	**0.71**
		May		37	0.054	9.1	14	0.046	4.2	0.039	0.061	**0.02**	**0.33**	0.00022	0.013	0.013	0.000028	0.000049	0.032	0.000012	5.7	0.0088	0.00071	0.0012	**0.71**
		June		36	0.054	9.1	14	0.046	4.2	0.038	0.06	**0.02**	**0.33**	0.00021	0.012	0.013	0.000028	0.000049	0.032	0.000012	5.7	0.0088	0.00071	0.0012	**0.71**
		July		34	0.054	8.7	13	0.045	4.0	0.036	0.057	**0.019**	**0.33**	0.00021	0.012	0.012	0.000028	0.000049	0.03	0.000012	5.4	0.0088	0.00071	0.0011	**0.71**
		August		33	0.054	8.5	12	0.044	3.9	0.034	0.054	**0.019**	**0.33**	0.00021	0.012	0.012	0.000028	0.000049	0.029	0.000011	5.2	0.0088	0.0007	0.0011	**0.71**
		September		32	0.055	8.2	12	0.043	3.7	0.033	0.052	**0.019**	**0.33**	0.0002	0.012	0.012	0.000028	0.000049	0.028	0.000011	5.1	0.0088	0.0007	0.0011	**0.71**
		October		31	0.055	8.1	12	0.042	3.7	0.032	0.051	**0.018**	**0.33**	0.0002	0.011	0.012	0.000027	0.000048	0.027	0.000011	5.0	0.0088	0.0007	0.0011	**0.71**
		November		31	0.055	8.2	12	0.043	3.7	0.032	0.051	**0.018**	**0.33**	0.0002	0.011	0.012	0.000027	0.000048	0.028	0.000011	5.0	0.0088	0.0007	0.0011	**0.71**
		December		31	0.056	8.2	12	0.043	3.7	0.032	0.051	**0.019**	**0.33**	0.0002	0.011	0.012	0.000027	0.000048	0.028	0.000011	5.0	0.0088	0.0007	0.0011	**0.71**
		January	2025	32	0.056	8.2	12	0.043	3.7	0.032	0.051	**0.019**	**0.33**	0.0002	0.011	0.012	0.000027	0.000048	0.028	0.000011	5.0	0.0088	0.0007	0.0011	**0.71**
		February		32	0.057	8.2	12	0.043	3.7	0.032	0.052	**0.019**	**0.33**	0.0002	0.012	0.012	0.000028	0.000048	0.028	0.000011	5.0	0.0088	0.0007	0.0011	**0.71**
		March		32	0.057	8.3	12	0.043	3.7	0.032	0.052	**0.019**	**0.33**	0.0002	0.012	0.012	0.000028	0.000048	0.028	0.000011	5.1	0.0088	0.0007	0.0011	**0.71**
		April		32	0.058	8.3	12	0.043	3.8	0.032	0.052	**0.019**	**0.33**	0.0002	0.012	0.012	0.000028	0.000049	0.028	0.000011	5.1	0.0088	0.0007	0.0011	**0.71**
		May		32	0.058	8.3	12	0.043	3.8	0.032	0.052	**0.019**	**0.33**	0.0002	0.012	0.012	0.000028	0.000049	0.028	0.000011	5.1	0.0088	0.0007	0.0011	**0.71**
		June		32	0.058	8.2	12	0.043	3.7	0.032	0.051	**0.019**	**0.33**	0.0002	0.011	0.012	0.000028	0.000049	0.028	0.000011	5.0	0.0088	0.0007	0.0011	**0.71**
		July		30	0.058	8.0	11	0.042	3.6	0.03	0.048	**0.018**	**0.33**	0.0002	0.011	0.012	0.000027	0.000049	0.027	0.000011	4.9	0.0088	0.0007	0.0011	**0.71**
		August		29	0.058	7.9	11	0.042	3.5	0.029	0.047	**0.018**	**0.33**	0.0002	0.011	0.011	0.000027	0.000049	0.026	0.000011	4.8	0.0088	0.00069	0.0011	**0.71**
		September		29	0.059	7.8	10	0.041	3.5	0.028	0.045	**0.018**	**0.33**	0.00019	0.011	0.011	0.000027	0.000049	0.026	0.000011	4.7	0.0088	0.00069	0.0011	**0.71**
		October		29	0.06	7.7	10	0.041	3.4	0.028	0.045	**0.018**	**0.33**	0.00019	0.011	0.011	0.000027	0.000049	0.025	0.00001	4.6	0.0088	0.00069	0.0011	**0.71**
		November		29	0.06	7.7	10	0.041	3.4	0.028	0.045	**0.018**	**0.33**	0.00019	0.011	0.011	0.000027	0.000049	0.025	0.00001	4.6	0.0088	0.00069	0.0011	**0.71**
		December		29	0.06	7.7	10	0.041	3.4	0.028	0.045	**0.018**	**0.33**	0.00019	0.011	0.011	0.000027	0.000049	0.025	0.000011	4.6	0.0088	0.00069	0.0011	**0.71**
		January	2026	29	0.061	7.7	10	0.041	3.4	0.028	0.045	**0.018**	**0.33**	0.00019	0.011	0.011	0.000027	0.000049	0.025	0.000011	4.6	0.0088	0.00069	0.0011	**0.71**
		February		29	0.061	7.7	10	0.041	3.4	0.028	0.045	**0.018**	**0.33**	0.00019	0.011	0.011	0.000027	0.000049	0.025	0.000011	4.6	0.0088	0.00069	0.0011	**0.71**
		March		29	0.061	7.7	10	0.041	3.4	0.028	0.045	**0.018**	**0.33**	0.00019	0.011	0.011	0.000027	0.000049	0.025	0.000011	4.6	0.0088	0.00069	0.0011	**0.71**
		April		29	0.061	7.7	10	0.041	3.4	0.028	0.045	**0.018**	**0.33**	0.00019	0.011	0.011	0.000027	0.000049	0.025	0.000011	4.6	0.0088	0.00069	0.0011	**0.71**
		May		29	0.062	7.7	10	0.041	3.5	0.028	0.045	**0.018**	**0.33**	0.00019	0.011	0.011	0.000027	0.000049	0.025	0.000011	4.6	0.0088	0.00069	0.0011	**0.71**
		June		27	0.059	7.4	9.8	0.04	3.3	0.026	0.043	**0.017**	**0.33**	0.00019	0.011	0.011	0.000027	0.000048	0.024	0.00001	4.4	0.0088	0.00069	0.0011	**0.71**
		July		27	0.063	7.5	9.6	0.041	3.3	0.026	0.042	**0.017**	**0.33**	0.00019	0.011	0.011	0.000027	0.000049	0.024	0.00001	4.5	0.0088	0.00069	0.0011	**0.71**
		August		27	0.066	7.5	9.5	0.041	3.3	0.025	0.042	**0.017**	**0.33**	0.00019	0.011	0.011	0.000027	0.000049	0.024	0.00001	4.4	0.0088	0.00069	0.0011	**0.71**
		September		27	0.068	7.5	9.4	0.041	3.3	0.025	0.041	**0.017**	**0.33**	0.00019	0.011	0.011	0.000027	0.000049	0.024	0.00001	4.4	0.0088	0.00069	0.0011	**0.71**
		October		27	0.069	7.4	9.3	0.041	3.3	0.025	0.041	**0.017**	**0.33**	0.00019	0.011	0.011	0.000027	0.000049	0.024	0.00001	4.4	0.0088	0.00069	0.0011	**0.71**
		November		27	0.069	7.4	9.3	0.041	3.3	0.025	0.041	**0.017**	**0.33**	0.00019	0.011	0.011	0.000027	0.000049	0.024	0.00001	4.4	0.0088	0.00069	0.0011	**0.71**
		December		27	0.069	7.4	9.3	0.041	3.3	0.025	0.041	**0.017**	**0.33**	0.00019	0.011	0.011	0.000027	0.000049	0.024	0.00001	4.4	0.0088	0.00069	0.0011	**0.71**
		January	2027	27	0.069	7.4	9.3	0.041	3.3	0.025	0.041	**0.017**	**0.33**	0.00019	0.011	0.011	0.000027	0.000049	0.024	0.00001	4.4	0.0088	0.00069	0.0011	**0.71**
		February		27	0.069	7.4	9.3	0.041	3.3	0.025	0.041	**0.017**	**0.33**	0.00019	0.011	0.011	0.000027	0.000049	0.024	0.00001	4.4	0.0088	0.00069	0.0011	**0.71**
		March		27	0.069	7.4	9.3	0.041	3.3	0.025	0.041	**0.017**	**0.33**	0.00019	0.011	0.011	0.000027	0.000049	0.024	0.00001	4.4	0.0088	0.00069	0.0011	**0.71**
		April		27	0.069	7.4	9.3	0.041	3.3	0.025	0.041	**0.017**	**0.33**	0.00019	0.011	0.011	0.000027	0.000049	0.024	0.00001	4.4	0.0088	0.00069	0.0011	**0.71**
		May		27	0.069	7.4	9.3	0.041	3.3	0.025	0.041	**0.017**	**0.33**	0.00019	0.011	0.011	0.000027	0.000049	0.024	0.00001	4.4	0.0088	0.00069	0.0011	**0.71**
		June		26	0.069	7.4	9.1	0.04	3.2	0.024	0.04	**0.014**	**0.23**	0.00019	0.0093	0.0098	0.000025	0.000049	0.023	0.0000095	4.2	0.0061	0.00053	0.00096	**0.5**
			MINIMUM	26	0.044	7.4	9.1	0.04	3.2	0.024	0.04	**0.014**	**0.23**	0.00019	0.0093	0.0098	0.000025	0.000046	0.023	0.0000095	4.2	0.0061	0.00053	0.00096	**0.5**
			MAXIMUM	45	0.1	12	18	0.051	6.0	0.047	0.089	**0.023**	**0.33**	0.00053	**0.034**	0.015	0.00003	0.00005	0.062	0.000014	6.9	0.0091	0.00079	0.0013	**0.74**
			AVERAGE	32	0.058	8.4	12	0.043	3.9	0.033	0.054	**0.019**	**0.32**	0.00022	0.013	0.012	0.000028	0.000049	0.029	0.000011	5.2	0.0087	0.0007	0.0011	**0.71**

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
			CCME (CEQG-PAL [chronic])[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[3]	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*	August	2022	0.00031	0.002	2.6	0.039	0.0000053	0.0014	0.0054	1.4	0.0002	0.000024	4.0	0.044	0.000015	0.0001	0.00049	0.0015	0.0024
		September		0.00023	0.0019	2.3	0.031	0.0000045	0.0012	0.005	0.99	0.000098	0.000021	2.9	0.04	0.000014	0.000095	0.00041	0.0013	0.0022
		October		0.00023	0.0019	2.3	0.031	0.0000045	0.0012	0.005	0.96	0.000095	0.000021	2.9	0.04	0.000014	0.000095	0.00041	0.0013	0.0022
		November		0.00023	0.0019	2.4	0.033	0.0000045	0.0013	0.005	0.99	0.000098	0.000021	3.1	0.042	0.000014	0.000095	0.00044	0.0013	0.0022
		December		0.00024	0.002	2.5	0.034	0.0000045	0.0014	0.0051	1.0	0.0001	0.000021	3.3	0.044	0.000014	0.000096	0.00046	0.0013	0.0022
		January	2023	0.00024	0.002	2.6	0.036	0.0000045	0.0015	0.0051	1.0	0.0001	0.000021	3.5	0.046	0.000014	0.000096	0.00049	0.0013	0.0023
		February		0.00024	0.0021	2.7	0.037	0.0000045	0.0016	0.0051	1.0	0.00011	0.000021	3.6	0.047	0.000014	0.000096	0.00051	0.0013	0.0023
		March		0.00025	0.0021	2.8	0.039	0.0000045	0.0016	0.0052	1.1	0.00011	0.000021	3.8	0.049	0.000014	0.000096	0.00054	0.0013	0.0023
		April		0.00025	0.0022	2.9	0.04	0.0000045	0.0017	0.0052	1.1	0.00011	0.000021	4.0	0.051	0.000014	0.000096	0.00056	0.0013	0.0024
		May		0.00025	0.0022	3.0	0.041	0.0000045	0.0018	0.0052	1.1	0.00011	0.000021	4.2	0.053	0.000014	0.000096	0.00059	0.0013	0.0024
		June		0.00025	0.0022	2.9	0.039	0.0000048	0.0017	0.0052	1.1	0.00011	0.000021	4.0	0.052	0.000015	0.0001	0.00056	0.0013	0.0024
		July		0.00024	0.0021	2.6	0.035	0.0000047	0.0015	0.0051	1.0	0.0001	0.000021	3.5	0.046	0.000015	0.0001	0.00049	0.0013	0.0023
		August		0.00024	0.002	2.5	0.034	0.0000047	0.0014	0.0051	0.98	0.000097	0.000021	3.2	0.043	0.000015	0.00010	0.00045	0.0013	0.0023
		September		0.00023	0.0019	2.4	0.033	0.0000047	0.0013	0.0051	0.95	0.000094	0.000021	3.0	0.041	0.000015	0.000099	0.00043	0.0013	0.0022
		October		0.00023	0.0019	2.4	0.033	0.0000047	0.0012	0.0051	0.94	0.000093	0.000021	3.0	0.04	0.000015	0.000099	0.00042	0.0013	0.0022
		November		0.00023	0.0019	2.4	0.034	0.0000047	0.0013	0.0051	0.95	0.000093	0.000021	3.0	0.041	0.000015	0.000099	0.00042	0.0013	0.0022
		December		0.00023	0.0019	2.4	0.034	0.0000047	0.0013	0.0051	0.95	0.000094	0.000021	3.0	0.041	0.000015	0.000099	0.00043	0.0013	0.0022
		January	2024	0.00024	0.0019	2.4	0.035	0.0000047	0.0013	0.0051	0.96	0.000094	0.000021	3.1	0.041	0.000015	0.000099	0.00044	0.0013	0.0022
		February		0.00024	0.0019	2.4	0.035	0.0000047	0.0013	0.0052	0.96	0.000095	0.000021	3.1	0.042	0.000015	0.000099	0.00044	0.0013	0.0022
		March		0.00024	0.002	2.5	0.036	0.0000047	0.0013	0.0052	0.97	0.000096	0.000021	3.2	0.042	0.000015	0.000099	0.00045	0.0013	0.0022
		April		0.00024	0.002	2.5	0.036	0.0000047	0.0013	0.0052	0.97	0.000096	0.000021	3.2	0.043	0.000015	0.000099	0.00045	0.0013	0.0023
		May		0.00024	0.002	2.5	0.036	0.0000047	0.0014	0.0052	0.98	0.000097	0.000021	3.2	0.043	0.000015	0.000099	0.00046	0.0013	0.0023
		June		0.00024	0.002	2.5	0.036	0.0000047	0.0013	0.0052	0.97	0.000096	0.000021	3.2	0.043	0.000015	0.0001	0.00045	0.0013	0.0023
		July		0.00024	0.0019	2.4	0.035	0.0000047	0.0012	0.0052	0.94	0.000093	0.000021	3.0	0.04	0.000015	0.0001	0.00042	0.0013	0.0022
		August		0.00023	0.0019	2.3	0.034	0.0000047	0.0012	0.0052	0.93	0.000091	0.000021	2.9	0.039	0.000015	0.0001	0.0004	0.0013	0.0022
		September		0.00023	0.0018	2.2	0.034	0.0000047	0.0011	0.0052	0.91	0.000089	0.000021	2.7	0.037	0.000015	0.0001	0.00039	0.0013	0.0022
		October		0.00023	0.0018	2.2	0.034	0.0000047	0.0011	0.0052	0.9	0.000089	0.000021	2.7	0.037	0.000015	0.0001	0.00038	0.0013	0.0022
		November		0.00023	0.0018	2.2	0.034	0.0000047	0.0011	0.0052	0.9	0.000089	0.000021	2.7	0.037	0.000015	0.0001	0.00038	0.0013	0.0022
		December		0.00023	0.0018	2.2	0.034	0.0000047	0.0011	0.0052	0.91	0.000089	0.000021	2.7	0.037	0.000015	0.0001	0.00038	0.0013	0.0022
		January	2025	0.00023	0.0018	2.2	0.034	0.0000047	0.0011	0.0052	0.91	0.000089	0.000021	2.7	0.037	0.000015	0.0001	0.00038	0.0013	0.0022
		February		0.00023	0.0018	2.2	0.034	0.0000047	0.0011	0.0052	0.91	0.000089	0.000021	2.7	0.037	0.000015	0.0001	0.00039	0.0013	0.0022
		March		0.00023	0.0018	2.2	0.035	0.0000047	0.0011	0.0052	0.91	0.00009	0.000021	2.7	0.038	0.000015	0.0001	0.00039	0.0013	0.0022
		April		0.00023	0.0018	2.2	0.035	0.0000047	0.0011	0.0052	0.91	0.00009	0.000021	2.8	0.038	0.000015	0.0001	0.00039	0.0013	0.0022
		May		0.00023	0.0018	2.2	0.035	0.0000047	0.0011	0.0052	0.92	0.00009	0.000021	2.8	0.038	0.000015	0.0001	0.00039	0.0013	0.0022
		June		0.00023	0.0018	2.2	0.035	0.0000048	0.0011	0.0052	0.91	0.00009	0.000021	2.7	0.037	0.000015	0.0001	0.00038	0.0013	0.0022
		July		0.00023	0.0018	2.1	0.034	0.0000048	0.0011	0.0052	0.89	0.000088	0.000021	2.6	0.036	0.000015	0.0001	0.00037	0.0013	0.0022
		August		0.00023	0.0018	2.1	0.033	0.0000048	0.001	0.0052	0.88	0.000087	0.000021	2.5	0.035	0.000015	0.0001	0.00035	0.0013	0.0021
		September		0.00023	0.0018	2.1	0.033	0.0000048	0.00098	0.0052	0.88	0.000086	0.000021	2.4	0.034	0.000015	0.0001	0.00035	0.0013	0.0021
		October		0.00023	0.0017	2.0	0.033	0.0000048	0.00096	0.0052	0.87	0.000085	0.000021	2.4	0.034	0.000015	0.0001	0.00034	0.0013	0.0021
		November		0.00023	0.0017	2.0	0.033	0.0000048	0.00096	0.0052	0.87	0.000085	0.000021	2.4	0.034	0.000015	0.0001	0.00034	0.0013	0.0021
		December		0.00023	0.0017	2.0	0.033	0.0000048	0.00096	0.0052	0.87	0.000086	0.000021	2.4	0.034	0.000015	0.0001	0.00034	0.0013	0.0021
		January	2026	0.00023	0.0017	2.0	0.033	0.0000048	0.00096	0.0052	0.88	0.000086	0.000021	2.4	0.034	0.000015	0.0001	0.00034	0.0013	0.0021
		February		0.00023	0.0017	2.0	0.034	0.0000048	0.00096	0.0052	0.88	0.000086	0.000021	2.4	0.034	0.000015	0.0001	0.00034	0.0013	0.0021
		March		0.00023	0.0017	2.0	0.034	0.0000048	0.00097	0.0052	0.88	0.000086	0.000021	2.4	0.034	0.000015	0.0001	0.00034	0.0013	0.0021
		April		0.00023	0.0017	2.0	0.034	0.0000048	0.00097	0.0052	0.88	0.000086	0.000021	2.4	0.034	0.000015	0.0001	0.00034	0.0013	0.0021
		May		0.00023	0.0017	2.0	0.034	0.0000048	0.00097	0.0052	0.88	0.000086	0.000021	2.4	0.034	0.000015	0.0001	0.00034	0.0013	0.0021
		June		0.00022	0.0017	2.0	0.033	0.0000047	0.00091	0.0052	0.85	0.000083	0.000021	2.3	0.032	0.000015	0.00010	0.00032	0.0013	0.0021
		July		0.00023	0.0017	2.0	0.033	0.0000049	0.00089	0.0052	0.86	0.000084	0.000021	2.3	0.032	0.000015	0.0001	0.00032	0.0013	0.0021
		August		0.00023	0.0017	2.0	0.033	0.0000049	0.00088	0.0052	0.87	0.000085	0.000021	2.2	0.032	0.000015	0.0001	0.00032	0.0013	0.0021
		September		0.00023	0.0017	1.9	0.033	0.0000049	0.00087	0.0052	0.87	0.000084	0.000021	2.2	0.032	0.000015	0.0001	0.00032	0.0013	0.0021
		October		0.00023	0.0017	1.9	0.033	0.0000049	0.00086	0.0052	0.87	0.000084	0.000021	2.2	0.032	0.000015	0.0001	0.00032	0.0013	0.0021
		November		0.00023	0.0017	1.9	0.033	0.0000049	0.00086	0.0052	0.87	0.000084	0.000021	2.2	0.032	0.000015	0.0001	0.00032	0.0013	0.0021
		December		0.00023	0.0017	1.9	0.033	0.0000049	0.00086	0.0052	0.87	0.000084	0.000021	2.2	0.032	0.000015	0.0001	0.00032	0.0013	0.0021
		January	2027	0.00023	0.0017	1.9	0.033	0.0000049	0.00086	0.0052	0.87	0.000084	0.000021	2.2	0.032	0.000015	0.0001	0.00032	0.0013	0.0021
		February		0.00023	0.0017	1.9	0.033	0.0000049	0.00086	0.0052	0.87	0.000084	0.000021	2.2	0.032	0.000015	0.0001	0.00032	0.0013	0.0021
		March		0.00023	0.0017	1.9	0.033	0.0000049	0.00086	0.0052	0.87	0.000084	0.000021	2.2	0.032	0.000015	0.0001	0.00032	0.0013	0.0021
		April		0.00023	0.0017	1.9	0.033	0.0000049	0.00086	0.0052	0.87	0.000084	0.000021	2.2	0.032	0.000015	0.0001	0.00032	0.0013	0.0021
		May		0.00023	0.0017	1.9	0.033	0.0000049	0.00086	0.0052	0.87	0.000084	0.000021	2.2	0.032	0.000015	0.0001	0.00032	0.0013	0.0021
		June		0.00018	0.0016	1.8	0.029	0.0000049	0.00083	0.004	0.81	0.000082	0.000018	2.2	0.031	0.000013	0.0001	0.00031	0.0011	0.0019
			MINIMUM	0.00018	0.0016	1.8	0.029	0.0000045	0.00083	0.004	0.81	0.000082	0.000018	2.2	0.031	0.000013	0.000095	0.00031	0.0011	0.0019
			MAXIMUM	0.00031	0.0022	3.0	0.041	0.0000053	0.0018	0.0054	1.4	0.0002	0.000024	4.2	0.053	0.000015	0.0001	0.00059	0.0015	0.0024
			AVERAGE	0.00023	0.0019	2.3	0.034	0.0000047	0.0012	0.0052	0.93	0.000093	0.000021	2.8	0.038	0.000015	0.0001	0.0004	0.0013	0.0022

		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
		CCME (CEQG-PAL [chronic])[2] (mg/L)					120	0.12			2.93	0.01	0.1		*0.025*				1.5	0.00004				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	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	*Post-Closure, fully flooded pit*	July	2027	25	0.067	7.2	8.8	0.038	3.1	0.023	0.039	0.0077	0.022	0.00017	0.0064	0.0078	0.000021	0.000048	0.023	0.0000083	4.0	0.00073	0.00021	0.00065	0.075
		August		24	0.066	7.2	8.6	0.038	3.1	0.023	0.038	0.0076	0.022	0.00017	0.0064	0.0077	0.000021	0.000048	0.022	0.0000082	3.9	0.00073	0.00021	0.00065	0.075
		September		24	0.064	7.1	8.4	0.038	3.0	0.022	0.037	0.0075	0.022	0.00017	0.0062	0.0076	0.000021	0.000048	0.022	0.0000081	3.9	0.00073	0.0002	0.00065	0.075
		October		24	0.063	7.1	8.3	0.037	3.0	0.022	0.036	0.0074	0.022	0.00017	0.0061	0.0076	0.000021	0.000048	0.022	0.0000081	3.8	0.00073	0.0002	0.00065	0.075
		November		24	0.063	7.1	8.3	0.037	3.0	0.022	0.036	0.0074	0.022	0.00017	0.0061	0.0076	0.000021	0.000048	0.022	0.0000081	3.8	0.00073	0.0002	0.00065	0.075
		December		24	0.063	7.1	8.3	0.037	3.0	0.022	0.036	0.0074	0.022	0.00017	0.0061	0.0076	0.000021	0.000048	0.022	0.0000081	3.8	0.00073	0.0002	0.00065	0.075
		January	2028	24	0.063	7.1	8.3	0.037	3.0	0.022	0.036	0.0074	0.022	0.00017	0.0061	0.0076	0.000021	0.000048	0.022	0.0000081	3.8	0.00073	0.0002	0.00065	0.075
		February		24	0.063	7.1	8.3	0.037	3.0	0.022	0.036	0.0074	0.022	0.00017	0.0061	0.0076	0.000021	0.000048	0.022	0.0000081	3.8	0.00073	0.0002	0.00065	0.075
		March		24	0.063	7.1	8.3	0.037	3.0	0.022	0.036	0.0074	0.022	0.00017	0.0061	0.0076	0.000021	0.000048	0.022	0.0000081	3.8	0.00073	0.0002	0.00065	0.075
		April		24	0.063	7.1	8.3	0.037	3.0	0.022	0.036	0.0074	0.022	0.00017	0.0061	0.0076	0.000021	0.000048	0.022	0.0000081	3.8	0.00073	0.0002	0.00065	0.075
		May		24	0.063	7.1	8.3	0.037	3.0	0.022	0.036	0.0074	0.022	0.00017	0.0061	0.0076	0.000021	0.000048	0.022	0.0000081	3.8	0.00073	0.0002	0.00065	0.075
		June		23	0.06	7.0	8.0	0.037	2.9	0.021	0.035	0.0072	0.022	0.00017	0.0058	0.0075	0.000021	0.000048	0.021	0.0000079	3.8	0.00073	0.0002	0.00065	0.075
		July		22	0.057	6.9	7.7	0.037	2.8	0.02	0.033	0.0069	0.022	0.00016	0.0055	0.0073	0.000021	0.000049	0.021	0.0000078	3.7	0.00073	0.0002	0.00065	0.075
		August		22	0.055	6.8	7.6	0.037	2.8	0.02	0.033	0.0068	0.022	0.00016	0.0055	0.0072	0.000021	0.000049	0.02	0.0000077	3.6	0.00073	0.0002	0.00065	0.075
		September		22	0.054	6.8	7.4	0.036	2.8	0.02	0.032	0.0067	0.022	0.00016	0.0054	0.0072	0.000021	0.000049	0.02	0.0000077	3.6	0.00073	0.00019	0.00065	0.075
		October		22	0.053	6.7	7.3	0.036	2.8	0.019	0.031	0.0066	0.022	0.00016	0.0053	0.0071	0.000021	0.000049	0.02	0.0000076	3.5	0.00073	0.00019	0.00064	0.075
		November		22	0.053	6.7	7.3	0.036	2.8	0.019	0.031	0.0066	0.022	0.00016	0.0053	0.0071	0.000021	0.000049	0.02	0.0000076	3.5	0.00073	0.00019	0.00064	0.075
		December		22	0.053	6.7	7.3	0.036	2.8	0.019	0.031	0.0066	0.022	0.00016	0.0053	0.0071	0.000021	0.000049	0.02	0.0000076	3.5	0.00073	0.00019	0.00064	0.075
		January	2029	22	0.053	6.7	7.3	0.036	2.8	0.019	0.031	0.0066	0.022	0.00016	0.0053	0.0071	0.000021	0.000049	0.02	0.0000076	3.5	0.00073	0.00019	0.00064	0.075
		February		22	0.053	6.7	7.3	0.036	2.8	0.019	0.031	0.0066	0.022	0.00016	0.0053	0.0071	0.000021	0.000049	0.02	0.0000076	3.5	0.00073	0.00019	0.00064	0.075
		March		22	0.053	6.7	7.3	0.036	2.8	0.019	0.031	0.0066	0.022	0.00016	0.0053	0.0071	0.000021	0.000049	0.02	0.0000076	3.5	0.00073	0.00019	0.00064	0.075
		April		22	0.053	6.7	7.3	0.036	2.8	0.019	0.031	0.0066	0.022	0.00016	0.0053	0.0071	0.000021	0.000049	0.02	0.0000076	3.5	0.00073	0.00019	0.00064	0.075
		May		22	0.053	6.7	7.3	0.036	2.8	0.019	0.031	0.0066	0.022	0.00016	0.0053	0.0071	0.000021	0.000049	0.02	0.0000076	3.5	0.00073	0.00019	0.00064	0.075
		June		21	0.05	6.6	7.1	0.036	2.7	0.019	0.03	0.0064	0.022	0.00016	0.0051	0.007	0.000021	0.00005	0.019	0.0000075	3.5	0.00073	0.00019	0.00064	0.075
		July		20	0.047	6.5	6.8	0.036	2.6	0.018	0.028	0.0062	0.022	0.00016	0.0048	0.0069	0.000021	0.00005	0.019	0.0000074	3.4	0.00073	0.00019	0.00064	0.075
		August		20	0.046	6.5	6.7	0.035	2.6	0.018	0.028	0.0061	0.022	0.00016	0.0048	0.0068	0.000022	0.00005	0.019	0.0000073	3.4	0.00073	0.00019	0.00064	0.075
		September		20	0.045	6.5	6.6	0.035	2.6	0.017	0.027	0.006	0.022	0.00015	0.0047	0.0067	0.000022	0.00005	0.018	0.0000073	3.3	0.00072	0.00018	0.00064	0.075
		October		20	0.044	6.4	6.5	0.035	2.5	0.017	0.027	0.0059	0.022	0.00015	0.0046	0.0067	0.000022	0.00005	0.018	0.0000072	3.3	0.00072	0.00018	0.00064	0.075
		November		20	0.044	6.4	6.5	0.035	2.5	0.017	0.027	0.0059	0.022	0.00015	0.0046	0.0067	0.000022	0.00005	0.018	0.0000072	3.3	0.00072	0.00018	0.00064	0.075
		December		20	0.044	6.4	6.5	0.035	2.5	0.017	0.027	0.0059	0.022	0.00015	0.0046	0.0067	0.000022	0.00005	0.018	0.0000072	3.3	0.00072	0.00018	0.00064	0.075
		January	2030	20	0.044	6.4	6.5	0.035	2.5	0.017	0.027	0.0059	0.022	0.00015	0.0046	0.0067	0.000022	0.00005	0.018	0.0000072	3.3	0.00072	0.00018	0.00064	0.075
		February		20	0.044	6.4	6.5	0.035	2.5	0.017	0.027	0.0059	0.022	0.00015	0.0046	0.0067	0.000022	0.00005	0.018	0.0000072	3.3	0.00072	0.00018	0.00064	0.075
		March		20	0.044	6.4	6.5	0.035	2.5	0.017	0.027	0.0059	0.022	0.00015	0.0046	0.0067	0.000022	0.00005	0.018	0.0000072	3.3	0.00072	0.00018	0.00064	0.075
		April		20	0.044	6.4	6.5	0.035	2.5	0.017	0.027	0.0059	0.022	0.00015	0.0046	0.0067	0.000022	0.00005	0.018	0.0000072	3.3	0.00072	0.00018	0.00064	0.075
		May		20	0.044	6.4	6.5	0.035	2.5	0.017	0.027	0.0059	0.022	0.00015	0.0046	0.0067	0.000022	0.00005	0.018	0.0000072	3.3	0.00072	0.00018	0.00064	0.075
		June		19	0.042	6.4	6.3	0.035	2.5	0.017	0.026	0.0058	0.022	0.00015	0.0044	0.0066	0.000022	0.00005	0.018	0.0000072	3.3	0.00072	0.00018	0.00064	0.075
		July		19	0.039	6.3	6.1	0.035	2.4	0.016	0.024	0.0056	0.022	0.00015	0.0042	0.0065	0.000022	0.000051	0.017	0.0000071	3.2	0.00072	0.00018	0.00064	0.075
		August		19	0.038	6.2	6.0	0.035	2.4	0.016	0.024	0.0055	0.022	0.00015	0.0042	0.0065	0.000022	0.000051	0.017	0.000007	3.2	0.00072	0.00018	0.00064	0.075
		September		18	0.037	6.2	5.9	0.034	2.4	0.015	0.023	0.0054	0.022	0.00015	0.0041	0.0064	0.000022	0.000051	0.017	0.000007	3.1	0.00072	0.00018	0.00064	0.075
		October		18	0.036	6.2	5.8	0.034	2.4	0.015	0.023	0.0054	0.022	0.00015	0.004	0.0064	0.000022	0.000051	0.017	0.0000069	3.1	0.00072	0.00018	0.00064	0.075
		November		18	0.036	6.2	5.8	0.034	2.4	0.015	0.023	0.0054	0.022	0.00015	0.004	0.0064	0.000022	0.000051	0.017	0.0000069	3.1	0.00072	0.00018	0.00064	0.075
		December		18	0.036	6.2	5.8	0.034	2.4	0.015	0.023	0.0054	0.022	0.00015	0.004	0.0064	0.000022	0.000051	0.017	0.0000069	3.1	0.00072	0.00018	0.00064	0.075
		January	2031	18	0.036	6.2	5.8	0.034	2.4	0.015	0.023	0.0054	0.022	0.00015	0.004	0.0064	0.000022	0.000051	0.017	0.0000069	3.1	0.00072	0.00018	0.00064	0.075
		February		18	0.036	6.2	5.8	0.034	2.4	0.015	0.023	0.0054	0.022	0.00015	0.004	0.0064	0.000022	0.000051	0.017	0.0000069	3.1	0.00072	0.00018	0.00064	0.075
		March		18	0.036	6.2	5.8	0.034	2.4	0.015	0.023	0.0054	0.022	0.00015	0.004	0.0064	0.000022	0.000051	0.017	0.0000069	3.1	0.00072	0.00018	0.00064	0.075
		April		18	0.036	6.2	5.8	0.034	2.4	0.015	0.023	0.0054	0.022	0.00015	0.004	0.0064	0.000022	0.000051	0.017	0.0000069	3.1	0.00072	0.00018	0.00064	0.075
		May		18	0.036	6.2	5.8	0.034	2.4	0.015	0.023	0.0054	0.022	0.00015	0.004	0.0064	0.000022	0.000051	0.017	0.0000069	3.1	0.00072	0.00018	0.00064	0.075
		June		18	0.035	6.1	5.6	0.034	2.3	0.015	0.022	0.0053	0.022	0.00015	0.0039	0.0063	0.000022	0.000051	0.017	0.0000069	3.1	0.00072	0.00017	0.00064	0.075
		July		18	0.032	6.1	5.5	0.034	2.3	0.014	0.021	0.0051	0.022	0.00015	0.0037	0.0062	0.000022	0.000051	0.016	0.0000068	3.0	0.00072	0.00017	0.00063	0.075
		August		17	0.032	6.0	5.4	0.034	2.3	0.014	0.021	0.005	0.022	0.00015	0.0037	0.0062	0.000022	0.000052	0.016	0.0000068	3.0	0.00072	0.00017	0.00063	0.075
		September		17	0.031	6.0	5.3	0.034	2.2	0.014	0.02	0.005	0.022	0.00014	0.0036	0.0061	0.000022	0.000052	0.016	0.0000067	3.0	0.00072	0.00017	0.00063	0.075
		October		17	0.03	6.0	5.2	0.034	2.2	0.013	0.02	0.0049	0.022	0.00014	0.0036	0.0061	0.000022	0.000052	0.016	0.0000067	3.0	0.00072	0.00017	0.00063	0.075
		November		17	0.03	6.0	5.2	0.034	2.2	0.013	0.02	0.0049	0.022	0.00014	0.0036	0.0061	0.000022	0.000052	0.016	0.0000067	3.0	0.00072	0.00017	0.00063	0.075
		December		17	0.03	6.0	5.2	0.034	2.2	0.013	0.02	0.0049	0.022	0.00014	0.0036	0.0061	0.000022	0.000052	0.016	0.0000067	3.0	0.00072	0.00017	0.00063	0.075
		January	2032	17	0.03	6.0	5.2	0.034	2.2	0.013	0.02	0.0049	0.022	0.00014	0.0036	0.0061	0.000022	0.000052	0.016	0.0000067	3.0	0.00072	0.00017	0.00063	0.075
		February		17	0.03	6.0	5.2	0.034	2.2	0.013	0.02	0.0049	0.022	0.00014	0.0036	0.0061	0.000022	0.000052	0.016	0.0000067	3.0	0.00072	0.00017	0.00063	0.075
		March		17	0.03	6.0	5.2	0.034	2.2	0.013	0.02	0.0049	0.022	0.00014	0.0036	0.0061	0.000022	0.000052	0.016	0.0000067	3.0	0.00072	0.00017	0.00063	0.075
		April		17	0.03	6.0	5.2	0.034	2.2	0.013	0.02	0.0049	0.022	0.00014	0.0036	0.0061	0.000022	0.000052	0.016	0.0000067	3.0	0.00072	0.00017	0.00063	0.075
		May		17	0.03	6.0	5.2	0.034	2.2	0.013	0.02	0.0049	0.022	0.00014	0.0036	0.0061	0.000022	0.000052	0.016	0.0000067	3.0	0.00072	0.00017	0.00063	0.075
		June		17	0.029	5.9	5.1	0.034	2.2	0.013	0.019	0.0048	0.022	0.00014	0.0034	0.006	0.000022	0.000052	0.016	0.0000066	2.9	0.00072	0.00017	0.00063	0.075
		July		16	0.027	5.9	5.0	0.033	2.2	0.013	0.018	0.0047	0.022	0.00014	0.0033	0.006	0.000022	0.000052	0.015	0.0000066	2.9	0.00072	0.00017	0.00063	0.075
		August		16	0.027	5.9	4.9	0.033	2.1	0.013	0.018	0.0047	0.022	0.00014	0.0033	0.0059	0.000022	0.000052	0.015	0.0000065	2.9	0.00072	0.00017	0.00063	0.075
		September		16	0.026	5.8	4.8	0.033	2.1	0.012	0.018	0.0046	0.022	0.00014	0.0032	0.0059	0.000022	0.000052	0.015	0.0000065	2.8	0.00072	0.00017	0.00063	0.075
		October		16	0.025	5.8	4.8	0.033	2.1	0.012	0.017	0.0046	0.022	0.00014	0.0032	0.0059	0.000022	0.000052	0.015	0.0000065	2.8	0.00072	0.00017	0.00063	0.075
		November		16	0.025	5.8	4.8	0.033	2.1	0.012	0.017	0.0046	0.022	0.00014	0.0032	0.0059	0.000022	0.000052	0.015	0.0000065	2.8	0.00072	0.00017	0.00063	0.075
		December		16	0.025	5.8	4.8	0.033	2.1	0.012	0.017	0.0046	0.022	0.00014	0.0032	0.0059	0.000022	0.000052	0.015	0.0000065	2.8	0.00072	0.00017	0.00063	0.075

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
			CCME (CEQG-PAL [chronic])[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[3]	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	*Post-Closure, fully flooded pit*	July	2027	0.0001	0.0014	1.5	0.021	0.000005	0.00078	0.0015	0.7	0.000078	0.000011	2.1	0.029	0.0000099	0.000098	0.00028	0.00055	0.0014
		August		0.0001	0.0014	1.5	0.02	0.000005	0.00077	0.0014	0.69	0.000078	0.000011	2.0	0.029	0.000010	0.000099	0.00028	0.00056	0.0014
		September		0.000099	0.0014	1.5	0.02	0.000005	0.00074	0.0014	0.68	0.000077	0.000011	2.0	0.028	0.00001	0.000099	0.00027	0.00056	0.0014
		October		0.000099	0.0014	1.5	0.019	0.000005	0.00073	0.0014	0.68	0.000076	0.000011	2.0	0.028	0.00001	0.000099	0.00027	0.00056	0.0014
		November		0.000099	0.0014	1.5	0.019	0.000005	0.00073	0.0014	0.68	0.000076	0.000011	2.0	0.028	0.00001	0.000099	0.00027	0.00056	0.0014
		December		0.000099	0.0014	1.5	0.019	0.000005	0.00073	0.0014	0.68	0.000076	0.000011	2.0	0.028	0.00001	0.000099	0.00027	0.00056	0.0014
		January	2028	0.000099	0.0014	1.5	0.019	0.000005	0.00073	0.0014	0.68	0.000076	0.000011	2.0	0.028	0.00001	0.000099	0.00027	0.00056	0.0014
		February		0.000099	0.0014	1.5	0.019	0.000005	0.00073	0.0014	0.68	0.000076	0.000011	2.0	0.028	0.00001	0.000099	0.00027	0.00056	0.0014
		March		0.000099	0.0014	1.5	0.019	0.000005	0.00073	0.0014	0.68	0.000076	0.000011	2.0	0.028	0.00001	0.000099	0.00027	0.00056	0.0014
		April		0.000099	0.0014	1.5	0.019	0.000005	0.00073	0.0014	0.68	0.000076	0.000011	2.0	0.028	0.00001	0.000099	0.00027	0.00056	0.0014
		May		0.000099	0.0014	1.5	0.019	0.000005	0.00073	0.0014	0.68	0.000076	0.000011	2.0	0.028	0.00001	0.000099	0.00027	0.00056	0.0014
		June		0.000098	0.0014	1.4	0.018	0.000005	0.0007	0.0014	0.67	0.000075	0.000011	1.9	0.027	0.00001	0.00010	0.00026	0.00056	0.0014
		July		0.000096	0.0014	1.4	0.017	0.0000051	0.00066	0.0014	0.66	0.000074	0.000011	1.8	0.027	0.00001	0.0001	0.00024	0.00056	0.0014
		August		0.000096	0.0014	1.4	0.017	0.0000051	0.00064	0.0014	0.65	0.000074	0.000011	1.8	0.026	0.00001	0.0001	0.00024	0.00056	0.0014
		September		0.000095	0.0013	1.4	0.017	0.0000051	0.00062	0.0014	0.65	0.000073	0.000011	1.7	0.026	0.00001	0.0001	0.00023	0.00057	0.0014
		October		0.000095	0.0013	1.3	0.016	0.0000051	0.00061	0.0014	0.64	0.000073	0.000011	1.7	0.026	0.00001	0.0001	0.00023	0.00057	0.0014
		November		0.000095	0.0013	1.3	0.016	0.0000051	0.00061	0.0014	0.64	0.000073	0.000011	1.7	0.026	0.00001	0.0001	0.00023	0.00057	0.0014
		December		0.000095	0.0013	1.3	0.016	0.0000051	0.00061	0.0014	0.64	0.000073	0.000011	1.7	0.026	0.00001	0.0001	0.00023	0.00057	0.0014
		January	2029	0.000095	0.0013	1.3	0.016	0.0000051	0.00061	0.0014	0.64	0.000073	0.000011	1.7	0.026	0.00001	0.0001	0.00023	0.00057	0.0014
		February		0.000095	0.0013	1.3	0.016	0.0000051	0.00061	0.0014	0.64	0.000073	0.000011	1.7	0.026	0.00001	0.0001	0.00023	0.00057	0.0014
		March		0.000095	0.0013	1.3	0.016	0.0000051	0.00061	0.0014	0.64	0.000073	0.000011	1.7	0.026	0.00001	0.0001	0.00023	0.00057	0.0014
		April		0.000095	0.0013	1.3	0.016	0.0000051	0.00061	0.0014	0.64	0.000073	0.000011	1.7	0.026	0.00001	0.0001	0.00023	0.00057	0.0014
		May		0.000095	0.0013	1.3	0.016	0.0000051	0.00061	0.0014	0.64	0.000073	0.000011	1.7	0.026	0.00001	0.0001	0.00023	0.00057	0.0014
		June		0.000094	0.0013	1.3	0.016	0.0000051	0.00058	0.0013	0.63	0.000072	0.000011	1.7	0.025	0.00001	0.0001	0.00022	0.00057	0.0014
		July		0.000093	0.0013	1.3	0.015	0.0000051	0.00055	0.0013	0.62	0.000071	0.000011	1.6	0.024	0.00001	0.0001	0.00021	0.00057	0.0014
		August		0.000092	0.0013	1.3	0.014	0.0000052	0.00053	0.0013	0.62	0.000071	0.000011	1.6	0.024	0.00001	0.0001	0.0002	0.00057	0.0014
		September		0.000092	0.0013	1.3	0.014	0.0000052	0.00052	0.0013	0.62	0.00007	0.000011	1.5	0.024	0.00001	0.0001	0.0002	0.00057	0.0014
		October		0.000091	0.0013	1.3	0.014	0.0000052	0.00051	0.0013	0.61	0.00007	0.000011	1.5	0.024	0.00001	0.0001	0.0002	0.00057	0.0014
		November		0.000091	0.0013	1.3	0.014	0.0000052	0.00051	0.0013	0.61	0.00007	0.000011	1.5	0.024	0.00001	0.0001	0.0002	0.00057	0.0014
		December		0.000091	0.0013	1.3	0.014	0.0000052	0.00051	0.0013	0.61	0.00007	0.000011	1.5	0.024	0.00001	0.0001	0.0002	0.00057	0.0014
		January	2030	0.000091	0.0013	1.3	0.014	0.0000052	0.00051	0.0013	0.61	0.00007	0.000011	1.5	0.024	0.00001	0.0001	0.0002	0.00057	0.0014
		February		0.000091	0.0013	1.3	0.014	0.0000052	0.00051	0.0013	0.61	0.00007	0.000011	1.5	0.024	0.00001	0.0001	0.0002	0.00057	0.0014
		March		0.000091	0.0013	1.3	0.014	0.0000052	0.00051	0.0013	0.61	0.00007	0.000011	1.5	0.024	0.00001	0.0001	0.0002	0.00057	0.0014
		April		0.000091	0.0013	1.3	0.014	0.0000052	0.00051	0.0013	0.61	0.00007	0.000011	1.5	0.024	0.00001	0.0001	0.0002	0.00057	0.0014
		May		0.000091	0.0013	1.3	0.014	0.0000052	0.00051	0.0013	0.61	0.00007	0.000011	1.5	0.024	0.00001	0.0001	0.0002	0.00057	0.0014
		June		0.000091	0.0013	1.2	0.013	0.0000052	0.00049	0.0013	0.6	0.000069	0.000011	1.5	0.023	0.00001	0.0001	0.00019	0.00057	0.0014
		July		0.00009	0.0013	1.2	0.013	0.0000052	0.00046	0.0013	0.6	0.000068	0.000011	1.4	0.023	0.000011	0.0001	0.00018	0.00058	0.0014
		August		0.000089	0.0013	1.2	0.012	0.0000052	0.00045	0.0013	0.59	0.000068	0.000011	1.4	0.022	0.000011	0.0001	0.00018	0.00058	0.0014
		September		0.000089	0.0013	1.2	0.012	0.0000052	0.00043	0.0013	0.59	0.000067	0.000011	1.4	0.022	0.000011	0.0001	0.00017	0.00058	0.0014
		October		0.000088	0.0013	1.2	0.012	0.0000052	0.00043	0.0013	0.59	0.000067	0.000011	1.4	0.022	0.000011	0.0001	0.00017	0.00058	0.0014
		November		0.000088	0.0013	1.2	0.012	0.0000052	0.00043	0.0013	0.59	0.000067	0.000011	1.4	0.022	0.000011	0.0001	0.00017	0.00058	0.0014
		December		0.000088	0.0013	1.2	0.012	0.0000052	0.00043	0.0013	0.59	0.000067	0.000011	1.4	0.022	0.000011	0.0001	0.00017	0.00058	0.0014
		January	2031	0.000088	0.0013	1.2	0.012	0.0000052	0.00043	0.0013	0.59	0.000067	0.000011	1.4	0.022	0.000011	0.0001	0.00017	0.00058	0.0014
		February		0.000088	0.0013	1.2	0.012	0.0000052	0.00043	0.0013	0.59	0.000067	0.000011	1.4	0.022	0.000011	0.0001	0.00017	0.00058	0.0014
		March		0.000088	0.0013	1.2	0.012	0.0000052	0.00043	0.0013	0.59	0.000067	0.000011	1.4	0.022	0.000011	0.0001	0.00017	0.00058	0.0014
		April		0.000088	0.0013	1.2	0.012	0.0000052	0.00043	0.0013	0.59	0.000067	0.000011	1.4	0.022	0.000011	0.0001	0.00017	0.00058	0.0014
		May		0.000088	0.0013	1.2	0.012	0.0000052	0.00043	0.0013	0.59	0.000067	0.000011	1.4	0.022	0.000011	0.0001	0.00017	0.00058	0.0014
		June		0.000088	0.0013	1.2	0.011	0.0000052	0.00041	0.0012	0.58	0.000067	0.000011	1.3	0.022	0.000011	0.0001	0.00016	0.00058	0.0014
		July		0.000087	0.0012	1.1	0.011	0.0000053	0.00038	0.0012	0.57	0.000066	0.000011	1.3	0.021	0.000011	0.00011	0.00016	0.00058	0.0014
		August		0.000087	0.0012	1.1	0.011	0.0000053	0.00038	0.0012	0.57	0.000066	0.000011	1.3	0.021	0.000011	0.00011	0.00015	0.00058	0.0014
		September		0.000086	0.0012	1.1	0.01	0.0000053	0.00036	0.0012	0.57	0.000065	0.000011	1.2	0.021	0.000011	0.00011	0.00015	0.00058	0.0013
		October		0.000086	0.0012	1.1	0.01	0.0000053	0.00036	0.0012	0.57	0.000065	0.000011	1.2	0.021	0.000011	0.00011	0.00015	0.00058	0.0013
		November		0.000086	0.0012	1.1	0.01	0.0000053	0.00036	0.0012	0.57	0.000065	0.000011	1.2	0.021	0.000011	0.00011	0.00015	0.00058	0.0013
		December		0.000086	0.0012	1.1	0.01	0.0000053	0.00036	0.0012	0.57	0.000065	0.000011	1.2	0.021	0.000011	0.00011	0.00015	0.00058	0.0013
		January	2032	0.000086	0.0012	1.1	0.01	0.0000053	0.00036	0.0012	0.57	0.000065	0.000011	1.2	0.021	0.000011	0.00011	0.00015	0.00058	0.0013
		February		0.000086	0.0012	1.1	0.01	0.0000053	0.00036	0.0012	0.57	0.000065	0.000011	1.2	0.021	0.000011	0.00011	0.00015	0.00058	0.0013
		March		0.000086	0.0012	1.1	0.01	0.0000053	0.00036	0.0012	0.57	0.000065	0.000011	1.2	0.021	0.000011	0.00011	0.00015	0.00058	0.0013
		April		0.000086	0.0012	1.1	0.01	0.0000053	0.00036	0.0012	0.57	0.000065	0.000011	1.2	0.021	0.000011	0.00011	0.00015	0.00058	0.0013
		May		0.000086	0.0012	1.1	0.01	0.0000053	0.00036	0.0012	0.57	0.000065	0.000011	1.2	0.021	0.000011	0.00011	0.00015	0.00058	0.0013
		June		0.000086	0.0012	1.1	0.0097	0.0000053	0.00034	0.0012	0.56	0.000065	0.000011	1.2	0.02	0.000011	0.00011	0.00014	0.00058	0.0013
		July		0.000085	0.0012	1.1	0.0093	0.0000053	0.00032	0.0012	0.55	0.000064	0.000011	1.2	0.02	0.000011	0.00011	0.00014	0.00059	0.0013
		August		0.000085	0.0012	1.1	0.0091	0.0000053	0.00032	0.0012	0.55	0.000064	0.000011	1.1	0.02	0.000011	0.00011	0.00013	0.00059	0.0013
		September		0.000084	0.0012	1.1	0.0089	0.0000053	0.00031	0.0012	0.55	0.000064	0.000011	1.1	0.02	0.000011	0.00011	0.00013	0.00059	0.0013
		October		0.000084	0.0012	1.1	0.0088	0.0000053	0.0003	0.0012	0.55	0.000063	0.000011	1.1	0.02	0.000011	0.00011	0.00013	0.00059	0.0013
		November		0.000084	0.0012	1.1	0.0088	0.0000053	0.0003	0.0012	0.55	0.000063	0.000011	1.1	0.02	0.000011	0.00011	0.00013	0.00059	0.0013
		December		0.000084	0.0012	1.1	0.0088	0.0000053	0.0003	0.0012	0.55	0.000063	0.000011	1.1	0.02	0.000011	0.00011	0.00013	0.00059	0.0013

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
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12			2.93	0.01	0.1		*0.025*				1.5	0.00004				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	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	*Post-Closure, fully flooded pit*	January	2033	16	0.025	5.8	4.8	0.033	2.1	0.012	0.017	0.0046	0.022	0.00014	0.0032	0.0059	0.000022	0.000052	0.015	0.0000065	2.8	0.00072	0.00017	0.00063	0.075
		February		16	0.025	5.8	4.8	0.033	2.1	0.012	0.017	0.0046	0.022	0.00014	0.0032	0.0059	0.000022	0.000052	0.015	0.0000065	2.8	0.00072	0.00017	0.00063	0.075
		March		16	0.025	5.8	4.8	0.033	2.1	0.012	0.017	0.0046	0.022	0.00014	0.0032	0.0059	0.000022	0.000052	0.015	0.0000065	2.8	0.00072	0.00017	0.00063	0.075
		April		16	0.025	5.8	4.8	0.033	2.1	0.012	0.017	0.0046	0.022	0.00014	0.0032	0.0059	0.000022	0.000052	0.015	0.0000065	2.8	0.00072	0.00017	0.00063	0.075
		May		16	0.025	5.8	4.8	0.033	2.1	0.012	0.017	0.0046	0.022	0.00014	0.0032	0.0059	0.000022	0.000052	0.015	0.0000065	2.8	0.00072	0.00017	0.00063	0.075
		June		16	0.024	5.8	4.7	0.033	2.1	0.012	0.017	0.0045	0.022	0.00014	0.0031	0.0058	0.000022	0.000052	0.015	0.0000064	2.8	0.00072	0.00016	0.00063	0.075
		July		16	0.023	5.7	4.5	0.033	2.0	0.012	0.016	0.0044	0.022	0.00014	0.003	0.0058	0.000022	0.000053	0.014	0.0000064	2.8	0.00072	0.00016	0.00063	0.075
		August		15	0.022	5.7	4.5	0.033	2.0	0.011	0.016	0.0043	0.022	0.00014	0.003	0.0058	0.000022	0.000053	0.014	0.0000064	2.8	0.00072	0.00016	0.00063	0.075
		September		15	0.022	5.7	4.4	0.033	2.0	0.011	0.016	0.0043	0.022	0.00014	0.0029	0.0057	0.000022	0.000053	0.014	0.0000063	2.7	0.00072	0.00016	0.00063	0.075
		October		15	0.021	5.7	4.4	0.033	2.0	0.011	0.015	0.0043	0.022	0.00014	0.0029	0.0057	0.000022	0.000053	0.014	0.0000063	2.7	0.00072	0.00016	0.00063	0.075
		November		15	0.021	5.7	4.4	0.033	2.0	0.011	0.015	0.0043	0.022	0.00014	0.0029	0.0057	0.000022	0.000053	0.014	0.0000063	2.7	0.00072	0.00016	0.00063	0.075
		December		15	0.021	5.7	4.4	0.033	2.0	0.011	0.015	0.0043	0.022	0.00014	0.0029	0.0057	0.000022	0.000053	0.014	0.0000063	2.7	0.00072	0.00016	0.00063	0.075
		January	2034	15	0.021	5.7	4.4	0.033	2.0	0.011	0.015	0.0043	0.022	0.00014	0.0029	0.0057	0.000022	0.000053	0.014	0.0000063	2.7	0.00072	0.00016	0.00063	0.075
		February		15	0.021	5.7	4.4	0.033	2.0	0.011	0.015	0.0043	0.022	0.00014	0.0029	0.0057	0.000022	0.000053	0.014	0.0000063	2.7	0.00072	0.00016	0.00063	0.075
		March		15	0.021	5.7	4.4	0.033	2.0	0.011	0.015	0.0043	0.022	0.00014	0.0029	0.0057	0.000022	0.000053	0.014	0.0000063	2.7	0.00072	0.00016	0.00063	0.075
		April		15	0.021	5.7	4.4	0.033	2.0	0.011	0.015	0.0043	0.022	0.00014	0.0029	0.0057	0.000022	0.000053	0.014	0.0000063	2.7	0.00072	0.00016	0.00063	0.075
		May		15	0.021	5.7	4.4	0.033	2.0	0.011	0.015	0.0043	0.022	0.00014	0.0029	0.0057	0.000022	0.000053	0.014	0.0000063	2.7	0.00072	0.00016	0.00063	0.075
		June		15	0.02	5.6	4.3	0.033	2.0	0.011	0.015	0.0042	0.022	0.00014	0.0028	0.0057	0.000022	0.000053	0.014	0.0000063	2.7	0.00072	0.00016	0.00063	0.075
		July		15	0.019	5.6	4.2	0.032	2.0	0.011	0.014	0.0041	0.022	0.00013	0.0027	0.0056	0.000022	0.000053	0.014	0.0000062	2.7	0.00072	0.00016	0.00063	0.075
		August		15	0.019	5.6	4.2	0.032	2.0	0.01	0.014	0.0041	0.022	0.00014	0.0027	0.0056	0.000022	0.000053	0.014	0.0000062	2.7	0.00072	0.00016	0.00063	0.075
		September		15	0.019	5.6	4.1	0.032	1.9	0.01	0.014	0.004	0.022	0.00014	0.0027	0.0056	0.000022	0.000053	0.014	0.0000062	2.6	0.00072	0.00016	0.00063	0.075
		October		15	0.018	5.6	4.1	0.032	1.9	0.01	0.014	0.004	0.022	0.00013	0.0027	0.0056	0.000022	0.000053	0.014	0.0000062	2.6	0.00072	0.00016	0.00063	0.075
		November		15	0.018	5.6	4.1	0.032	1.9	0.01	0.014	0.004	0.022	0.00013	0.0027	0.0056	0.000022	0.000053	0.014	0.0000062	2.6	0.00072	0.00016	0.00063	0.075
		December		15	0.018	5.6	4.1	0.032	1.9	0.01	0.014	0.004	0.022	0.00013	0.0027	0.0056	0.000022	0.000053	0.014	0.0000062	2.6	0.00072	0.00016	0.00063	0.075
		January	2035	15	0.018	5.6	4.1	0.032	1.9	0.01	0.014	0.004	0.022	0.00013	0.0027	0.0056	0.000022	0.000053	0.014	0.0000062	2.6	0.00072	0.00016	0.00063	0.075
		February		15	0.018	5.6	4.1	0.032	1.9	0.01	0.014	0.004	0.022	0.00013	0.0027	0.0056	0.000022	0.000053	0.014	0.0000062	2.6	0.00072	0.00016	0.00063	0.075
		March		15	0.018	5.6	4.1	0.032	1.9	0.01	0.014	0.004	0.022	0.00013	0.0027	0.0056	0.000022	0.000053	0.014	0.0000062	2.6	0.00072	0.00016	0.00063	0.075
		April		15	0.018	5.6	4.1	0.032	1.9	0.01	0.014	0.004	0.022	0.00013	0.0027	0.0056	0.000022	0.000053	0.014	0.0000062	2.6	0.00072	0.00016	0.00063	0.075
		May		15	0.018	5.6	4.1	0.032	1.9	0.01	0.014	0.004	0.022	0.00013	0.0027	0.0056	0.000022	0.000053	0.014	0.0000062	2.6	0.00072	0.00016	0.00063	0.075
		June		14	0.017	5.5	4.0	0.032	1.9	0.01	0.013	0.004	0.022	0.00013	0.0026	0.0055	0.000022	0.000053	0.013	0.0000061	2.6	0.00072	0.00016	0.00063	0.075
		July		14	0.016	5.5	3.9	0.032	1.9	0.0098	0.013	0.0039	0.022	0.00013	0.0025	0.0055	0.000022	0.000053	0.013	0.0000061	2.6	0.00072	0.00016	0.00063	0.075
		August		14	0.016	5.5	3.9	0.032	1.9	0.0097	0.013	0.0039	0.022	0.00013	0.0025	0.0055	0.000022	0.000053	0.013	0.0000061	2.6	0.00072	0.00016	0.00063	0.075
		September		14	0.016	5.5	3.9	0.032	1.9	0.0096	0.012	0.0038	0.022	0.00013	0.0025	0.0054	0.000022	0.000053	0.013	0.0000061	2.6	0.00072	0.00016	0.00063	0.075
		October		14	0.016	5.5	3.8	0.032	1.9	0.0095	0.012	0.0038	0.022	0.00013	0.0025	0.0054	0.000022	0.000053	0.013	0.0000061	2.6	0.00072	0.00016	0.00063	0.075
		November		14	0.016	5.5	3.8	0.032	1.9	0.0095	0.012	0.0038	0.022	0.00013	0.0025	0.0054	0.000022	0.000053	0.013	0.0000061	2.6	0.00072	0.00016	0.00063	0.075
		December		14	0.016	5.5	3.8	0.032	1.9	0.0095	0.012	0.0038	0.022	0.00013	0.0025	0.0054	0.000022	0.000053	0.013	0.0000061	2.6	0.00072	0.00016	0.00063	0.075
		January	2036	14	0.016	5.5	3.8	0.032	1.9	0.0095	0.012	0.0038	0.022	0.00013	0.0025	0.0054	0.000022	0.000053	0.013	0.0000061	2.6	0.00072	0.00016	0.00063	0.075
		February		14	0.016	5.5	3.8	0.032	1.9	0.0095	0.012	0.0038	0.022	0.00013	0.0025	0.0054	0.000022	0.000053	0.013	0.0000061	2.6	0.00072	0.00016	0.00063	0.075
		March		14	0.016	5.5	3.8	0.032	1.9	0.0095	0.012	0.0038	0.022	0.00013	0.0025	0.0054	0.000022	0.000053	0.013	0.0000061	2.6	0.00072	0.00016	0.00063	0.075
		April		14	0.016	5.5	3.8	0.032	1.9	0.0095	0.012	0.0038	0.022	0.00013	0.0025	0.0054	0.000022	0.000053	0.013	0.0000061	2.6	0.00072	0.00016	0.00063	0.075
		May		14	0.016	5.5	3.8	0.032	1.9	0.0095	0.012	0.0038	0.022	0.00013	0.0025	0.0054	0.000022	0.000053	0.013	0.0000061	2.6	0.00072	0.00016	0.00063	0.075
		June		14	0.015	5.5	3.8	0.032	1.9	0.0094	0.012	0.0038	0.022	0.00013	0.0024	0.0054	0.000022	0.000053	0.013	0.000006	2.6	0.00072	0.00015	0.00062	0.075
		July		14	0.014	5.4	3.7	0.032	1.8	0.0092	0.012	0.0037	0.022	0.00013	0.0023	0.0054	0.000022	0.000053	0.013	0.000006	2.5	0.00072	0.00015	0.00062	0.075
		August		14	0.014	5.4	3.7	0.032	1.8	0.0091	0.012	0.0037	0.022	0.00013	0.0023	0.0054	0.000022	0.000054	0.013	0.000006	2.5	0.00072	0.00015	0.00062	0.075
		September		14	0.014	5.4	3.7	0.032	1.8	0.009	0.011	0.0037	0.022	0.00013	0.0023	0.0053	0.000022	0.000054	0.013	0.000006	2.5	0.00072	0.00015	0.00062	0.075
		October		14	0.013	5.4	3.6	0.032	1.8	0.009	0.011	0.0037	0.022	0.00013	0.0023	0.0053	0.000022	0.000054	0.013	0.000006	2.5	0.00072	0.00015	0.00062	0.075
		November		14	0.013	5.4	3.6	0.032	1.8	0.009	0.011	0.0037	0.022	0.00013	0.0023	0.0053	0.000022	0.000054	0.013	0.000006	2.5	0.00072	0.00015	0.00062	0.075
		December		14	0.013	5.4	3.6	0.032	1.8	0.009	0.011	0.0037	0.022	0.00013	0.0023	0.0053	0.000022	0.000054	0.013	0.000006	2.5	0.00072	0.00015	0.00062	0.075
		January	2037	14	0.013	5.4	3.6	0.032	1.8	0.009	0.011	0.0037	0.022	0.00013	0.0023	0.0053	0.000022	0.000054	0.013	0.000006	2.5	0.00072	0.00015	0.00062	0.075
		February		14	0.013	5.4	3.6	0.032	1.8	0.009	0.011	0.0037	0.022	0.00013	0.0023	0.0053	0.000022	0.000054	0.013	0.000006	2.5	0.00072	0.00015	0.00062	0.075
		March		14	0.013	5.4	3.6	0.032	1.8	0.009	0.011	0.0037	0.022	0.00013	0.0023	0.0053	0.000022	0.000054	0.013	0.000006	2.5	0.00072	0.00015	0.00062	0.075
		April		14	0.013	5.4	3.6	0.032	1.8	0.009	0.011	0.0037	0.022	0.00013	0.0023	0.0053	0.000022	0.000054	0.013	0.000006	2.5	0.00072	0.00015	0.00062	0.075
		May		14	0.013	5.4	3.6	0.032	1.8	0.009	0.011	0.0037	0.022	0.00013	0.0023	0.0053	0.000022	0.000054	0.013	0.000006	2.5	0.00072	0.00015	0.00062	0.075
		June		14	0.013	5.4	3.6	0.032	1.8	0.0088	0.011	0.0036	0.022	0.00013	0.0022	0.0053	0.000022	0.000054	0.013	0.000006	2.5	0.00072	0.00015	0.00062	0.075
		July		13	0.012	5.4	3.5	0.032	1.8	0.0087	0.011	0.0036	0.022	0.00013	0.0022	0.0053	0.000022	0.000054	0.012	0.0000059	2.5	0.00072	0.00015	0.00062	0.075
		August		13	0.012	5.4	3.5	0.032	1.8	0.0086	0.011	0.0036	0.022	0.00013	0.0022	0.0053	0.000022	0.000054	0.012	0.0000059	2.5	0.00072	0.00015	0.00062	0.075
		September		13	0.012	5.4	3.5	0.032	1.8	0.0086	0.01	0.0036	0.022	0.00013	0.0022	0.0053	0.000022	0.000054	0.012	0.0000059	2.5	0.00072	0.00015	0.00062	0.075
		October		13	0.012	5.3	3.5	0.032	1.8	0.0085	0.01	0.0035	0.022	0.00013	0.0022	0.0053	0.000022	0.000054	0.012	0.0000059	2.5	0.00072	0.00015	0.00062	0.075
		November		13	0.012	5.3	3.5	0.032	1.8	0.0085	0.01	0.0035	0.022	0.00013	0.0022	0.0053	0.000022	0.000054	0.012	0.0000059	2.5	0.00072	0.00015	0.00062	0.075
		December		13	0.012	5.3	3.5	0.032	1.8	0.0085	0.01	0.0035	0.022	0.00013	0.0022	0.0053	0.000022	0.000054	0.012	0.0000059	2.5	0.00072	0.00015	0.00062	0.075

			Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)	0.05				0.004		0.25										0.1
			CCME (CEQG-PAL [chronic])[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[3]	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
		January	2033	0.000084	0.0012	1.1	0.0088	0.0000053	0.0003	0.0012	0.55	0.000063	0.000011	1.1	0.02	0.000011	0.00011	0.00013	0.00059	0.0013
		February		0.000084	0.0012	1.1	0.0088	0.0000053	0.0003	0.0012	0.55	0.000063	0.000011	1.1	0.02	0.000011	0.00011	0.00013	0.00059	0.0013
		March		0.000084	0.0012	1.1	0.0088	0.0000053	0.0003	0.0012	0.55	0.000063	0.000011	1.1	0.02	0.000011	0.00011	0.00013	0.00059	0.0013
		April		0.000084	0.0012	1.1	0.0088	0.0000053	0.0003	0.0012	0.55	0.000063	0.000011	1.1	0.02	0.000011	0.00011	0.00013	0.00059	0.0013
		May		0.000084	0.0012	1.1	0.0088	0.0000053	0.0003	0.0012	0.55	0.000063	0.000011	1.1	0.02	0.000011	0.00011	0.00013	0.00059	0.0013
		June		0.000084	0.0012	1.1	0.0085	0.0000053	0.00029	0.0012	0.54	0.000063	0.000011	1.1	0.019	0.000011	0.00011	0.00013	0.00059	0.0013
		July		0.000083	0.0012	1.0	0.0081	0.0000053	0.00028	0.0012	0.54	0.000063	0.000011	1.1	0.019	0.000011	0.00011	0.00012	0.00059	0.0013
		August		0.000083	0.0012	1.0	0.0079	0.0000053	0.00027	0.0012	0.54	0.000062	0.000011	1.1	0.019	0.000011	0.00011	0.00012	0.00059	0.0013
		September		0.000083	0.0012	1.0	0.0078	0.0000053	0.00026	0.0012	0.54	0.000062	0.000011	1.0	0.019	0.000011	0.00011	0.00012	0.00059	0.0013
		October		0.000083	0.0012	1.0	0.0077	0.0000053	0.00026	0.0012	0.53	0.000062	0.000011	1.0	0.019	0.000011	0.00011	0.00012	0.00059	0.0013
		November		0.000083	0.0012	1.0	0.0077	0.0000053	0.00026	0.0012	0.53	0.000062	0.000011	1.0	0.019	0.000011	0.00011	0.00012	0.00059	0.0013
		December		0.000083	0.0012	1.0	0.0077	0.0000053	0.00026	0.0012	0.53	0.000062	0.000011	1.0	0.019	0.000011	0.00011	0.00012	0.00059	0.0013
		January	2034	0.000083	0.0012	1.0	0.0077	0.0000053	0.00026	0.0012	0.53	0.000062	0.000011	1.0	0.019	0.000011	0.00011	0.00012	0.00059	0.0013
		February		0.000083	0.0012	1.0	0.0077	0.0000053	0.00026	0.0012	0.53	0.000062	0.000011	1.0	0.019	0.000011	0.00011	0.00012	0.00059	0.0013
		March		0.000083	0.0012	1.0	0.0077	0.0000053	0.00026	0.0012	0.53	0.000062	0.000011	1.0	0.019	0.000011	0.00011	0.00012	0.00059	0.0013
		April		0.000083	0.0012	1.0	0.0077	0.0000053	0.00026	0.0012	0.53	0.000062	0.000011	1.0	0.019	0.000011	0.00011	0.00012	0.00059	0.0013
		May		0.000083	0.0012	1.0	0.0077	0.0000053	0.00026	0.0012	0.53	0.000062	0.000011	1.0	0.019	0.000011	0.00011	0.00012	0.00059	0.0013
		June		0.000082	0.0012	1.0	0.0074	0.0000054	0.00025	0.0012	0.53	0.000062	0.000011	1.0	0.018	0.000011	0.00011	0.00011	0.00059	0.0013
		July		0.000082	0.0012	1.0	0.0071	0.0000054	0.00024	0.0012	0.53	0.000061	0.000011	0.98	0.018	0.000011	0.00011	0.00011	0.00059	0.0013
		August		0.000082	0.0012	1.0	0.007	0.0000054	0.00023	0.0011	0.53	0.000061	0.000011	0.97	0.018	0.000011	0.00011	0.00011	0.00059	0.0013
		September		0.000082	0.0012	1.0	0.0068	0.0000054	0.00022	0.0011	0.52	0.000061	0.000011	0.96	0.018	0.000011	0.00011	0.0001	0.00059	0.0013
		October		0.000081	0.0012	1.0	0.0068	0.0000054	0.00022	0.0011	0.52	0.000061	0.000011	0.96	0.018	0.000011	0.00011	0.0001	0.00059	0.0013
		November		0.000081	0.0012	1.0	0.0068	0.0000054	0.00022	0.0011	0.52	0.000061	0.000011	0.96	0.018	0.000011	0.00011	0.0001	0.00059	0.0013
		December		0.000081	0.0012	1.0	0.0068	0.0000054	0.00022	0.0011	0.52	0.000061	0.000011	0.96	0.018	0.000011	0.00011	0.0001	0.00059	0.0013
		January	2035	0.000081	0.0012	1.0	0.0068	0.0000054	0.00022	0.0011	0.52	0.000061	0.000011	0.96	0.018	0.000011	0.00011	0.0001	0.00059	0.0013
		February		0.000081	0.0012	1.0	0.0068	0.0000054	0.00022	0.0011	0.52	0.000061	0.000011	0.96	0.018	0.000011	0.00011	0.0001	0.00059	0.0013
		March		0.000081	0.0012	1.0	0.0068	0.0000054	0.00022	0.0011	0.52	0.000061	0.000011	0.96	0.018	0.000011	0.00011	0.0001	0.00059	0.0013
		April		0.000081	0.0012	1.0	0.0068	0.0000054	0.00022	0.0011	0.52	0.000061	0.000011	0.96	0.018	0.000011	0.00011	0.0001	0.00059	0.0013
		May		0.000081	0.0012	1.0	0.0068	0.0000054	0.00022	0.0011	0.52	0.000061	0.000011	0.96	0.018	0.000011	0.00011	0.0001	0.00059	0.0013
Whale Tail Pit	*Post-Closure, fully flooded pit*	June		0.000081	0.0012	0.99	0.0066	0.0000054	0.00021	0.0011	0.52	0.000061	0.000011	0.94	0.018	0.000011	0.00011	0.0001	0.00059	0.0013
		July		0.000081	0.0012	0.98	0.0063	0.0000054	0.0002	0.0011	0.52	0.00006	0.000011	0.92	0.018	0.000011	0.00011	0.000097	0.00059	0.0013
		August		0.000081	0.0012	0.98	0.0062	0.0000054	0.0002	0.0011	0.52	0.00006	0.000011	0.91	0.017	0.000011	0.00011	0.000096	0.0006	0.0013
		September		0.00008	0.0012	0.97	0.0061	0.0000054	0.00019	0.0011	0.52	0.00006	0.000011	0.9	0.017	0.000011	0.00011	0.000094	0.0006	0.0013
		October		0.00008	0.0012	0.97	0.006	0.0000054	0.00019	0.0011	0.51	0.00006	0.000011	0.9	0.017	0.000011	0.00011	0.000094	0.0006	0.0013
		November		0.00008	0.0012	0.97	0.006	0.0000054	0.00019	0.0011	0.51	0.00006	0.000011	0.9	0.017	0.000011	0.00011	0.000094	0.0006	0.0013
		December		0.00008	0.0012	0.97	0.006	0.0000054	0.00019	0.0011	0.51	0.00006	0.000011	0.9	0.017	0.000011	0.00011	0.000094	0.0006	0.0013
		January	2036	0.00008	0.0012	0.97	0.006	0.0000054	0.00019	0.0011	0.51	0.00006	0.000011	0.9	0.017	0.000011	0.00011	0.000094	0.0006	0.0013
		February		0.00008	0.0012	0.97	0.006	0.0000054	0.00019	0.0011	0.51	0.00006	0.000011	0.9	0.017	0.000011	0.00011	0.000094	0.0006	0.0013
		March		0.00008	0.0012	0.97	0.006	0.0000054	0.00019	0.0011	0.51	0.00006	0.000011	0.9	0.017	0.000011	0.00011	0.000094	0.0006	0.0013
		April		0.00008	0.0012	0.97	0.006	0.0000054	0.00019	0.0011	0.51	0.00006	0.000011	0.9	0.017	0.000011	0.00011	0.000094	0.0006	0.0013
		May		0.00008	0.0012	0.97	0.006	0.0000054	0.00019	0.0011	0.51	0.00006	0.000011	0.9	0.017	0.000011	0.00011	0.000094	0.0006	0.0013
		June		0.00008	0.0012	0.97	0.0059	0.0000054	0.00018	0.0011	0.51	0.00006	0.000011	0.88	0.017	0.000011	0.00011	0.000091	0.0006	0.0013
		July		0.00008	0.0012	0.96	0.0057	0.0000054	0.00018	0.0011	0.51	0.00006	0.000012	0.87	0.017	0.000011	0.00011	0.000089	0.0006	0.0013
		August		0.00008	0.0012	0.96	0.0056	0.0000054	0.00017	0.0011	0.51	0.00006	0.000012	0.86	0.017	0.000011	0.00011	0.000088	0.0006	0.0013
		September		0.00008	0.0012	0.95	0.0055	0.0000054	0.00017	0.0011	0.51	0.000059	0.000012	0.85	0.017	0.000011	0.00011	0.000086	0.0006	0.0013
		October		0.000079	0.0012	0.95	0.0054	0.0000054	0.00017	0.0011	0.51	0.000059	0.000012	0.85	0.017	0.000011	0.00011	0.000086	0.0006	0.0013
		November		0.000079	0.0012	0.95	0.0054	0.0000054	0.00017	0.0011	0.51	0.000059	0.000012	0.85	0.017	0.000011	0.00011	0.000086	0.0006	0.0013
		December		0.000079	0.0012	0.95	0.0054	0.0000054	0.00017	0.0011	0.51	0.000059	0.000012	0.85	0.017	0.000011	0.00011	0.000086	0.0006	0.0013
		January	2037	0.000079	0.0012	0.95	0.0054	0.0000054	0.00017	0.0011	0.51	0.000059	0.000012	0.85	0.017	0.000011	0.00011	0.000086	0.0006	0.0013
		February		0.000079	0.0012	0.95	0.0054	0.0000054	0.00017	0.0011	0.51	0.000059	0.000012	0.85	0.017	0.000011	0.00011	0.000086	0.0006	0.0013
		March		0.000079	0.0012	0.95	0.0054	0.0000054	0.00017	0.0011	0.51	0.000059	0.000012	0.85	0.017	0.000011	0.00011	0.000086	0.0006	0.0013
		April		0.000079	0.0012	0.95	0.0054	0.0000054	0.00017	0.0011	0.51	0.000059	0.000012	0.85	0.017	0.000011	0.00011	0.000086	0.0006	0.0013
		May		0.000079	0.0012	0.95	0.0054	0.0000054	0.00017	0.0011	0.51	0.000059	0.000012	0.85	0.017	0.000011	0.00011	0.000086	0.0006	0.0013
		June		0.000079	0.0012	0.94	0.0053	0.0000054	0.00016	0.0011	0.5	0.000059	0.000012	0.84	0.017	0.000011	0.00011	0.000084	0.0006	0.0013
		July		0.000079	0.0012	0.94	0.0051	0.0000054	0.00015	0.0011	0.5	0.000059	0.000012	0.82	0.017	0.000011	0.00011	0.000082	0.0006	0.0013
		August		0.000079	0.0011	0.94	0.0051	0.0000054	0.00015	0.0011	0.5	0.000059	0.000012	0.82	0.017	0.000011	0.00011	0.000081	0.0006	0.0013
		September		0.000079	0.0011	0.93	0.005	0.0000054	0.00015	0.0011	0.5	0.000059	0.000012	0.81	0.016	0.000011	0.00011	0.00008	0.0006	0.0013
		October		0.000079	0.0011	0.93	0.0049	0.0000054	0.00015	0.0011	0.5	0.000059	0.000012	0.81	0.016	0.000011	0.00011	0.000079	0.0006	0.0013
		November		0.000079	0.0011	0.93	0.0049	0.0000054	0.00015	0.0011	0.5	0.000059	0.000012	0.81	0.016	0.000011	0.00011	0.000079	0.0006	0.0013
		December		0.000079	0.0011	0.93	0.0049	0.0000054	0.00015	0.0011	0.5	0.000059	0.000012	0.81	0.016	0.000011	0.00011	0.000079	0.0006	0.0013

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
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12			2.93	0.01	0.1		*0.025*				1.5	0.00004				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	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	*Post-Closure, fully flooded pit*	January	2038	13	0.012	5.3	3.5	0.032	1.8	0.0085	0.01	0.0035	0.022	0.00013	0.0022	0.0053	0.000022	0.000054	0.012	0.0000059	2.5	0.00072	0.00015	0.00062	0.075
		February		13	0.012	5.3	3.5	0.032	1.8	0.0085	0.01	0.0035	0.022	0.00013	0.0022	0.0053	0.000022	0.000054	0.012	0.0000059	2.5	0.00072	0.00015	0.00062	0.075
		March		13	0.012	5.3	3.5	0.032	1.8	0.0085	0.01	0.0035	0.022	0.00013	0.0022	0.0053	0.000022	0.000054	0.012	0.0000059	2.5	0.00072	0.00015	0.00062	0.075
		April		13	0.012	5.3	3.5	0.032	1.8	0.0085	0.01	0.0035	0.022	0.00013	0.0022	0.0053	0.000022	0.000054	0.012	0.0000059	2.5	0.00072	0.00015	0.00062	0.075
		May		13	0.012	5.3	3.5	0.032	1.8	0.0085	0.01	0.0035	0.022	0.00013	0.0022	0.0053	0.000022	0.000054	0.012	0.0000059	2.5	0.00072	0.00015	0.00062	0.075
		June		13	0.011	5.3	3.4	0.031	1.8	0.0084	0.01	0.0035	0.022	0.00013	0.0021	0.0052	0.000022	0.000054	0.012	0.0000059	2.5	0.00072	0.00015	0.00062	0.075
		July		13	0.011	5.3	3.4	0.031	1.8	0.0083	0.0099	0.0035	0.022	0.00013	0.002	0.0052	0.000022	0.000054	0.012	0.0000059	2.4	0.00072	0.00015	0.00062	0.075
		August		13	0.011	5.3	3.4	0.031	1.8	0.0082	0.0098	0.0035	0.022	0.00013	0.0021	0.0052	0.000022	0.000054	0.012	0.0000059	2.4	0.00072	0.00015	0.00062	0.075
		September		13	0.01	5.3	3.4	0.031	1.8	0.0082	0.0097	0.0034	0.022	0.00013	0.0021	0.0052	0.000022	0.000054	0.012	0.0000059	2.4	0.00072	0.00015	0.00062	0.075
		October		13	0.01	5.3	3.3	0.031	1.7	0.0081	0.0096	0.0034	0.022	0.00013	0.0021	0.0052	0.000022	0.000054	0.012	0.0000058	2.4	0.00072	0.00015	0.00062	0.075
		November		13	0.01	5.3	3.3	0.031	1.7	0.0081	0.0096	0.0034	0.022	0.00013	0.0021	0.0052	0.000022	0.000054	0.012	0.0000058	2.4	0.00072	0.00015	0.00062	0.075
		December		13	0.01	5.3	3.3	0.031	1.7	0.0081	0.0096	0.0034	0.022	0.00013	0.0021	0.0052	0.000022	0.000054	0.012	0.0000058	2.4	0.00072	0.00015	0.00062	0.075
		January	≥2039	13	0.01	5.3	3.3	0.031	1.7	0.0081	0.0096	0.0034	0.022	0.00013	0.0021	0.0052	0.000022	0.000054	0.012	0.0000058	2.4	0.00072	0.00015	0.00062	0.075
		February		13	0.01	5.3	3.3	0.031	1.7	0.0081	0.0096	0.0034	0.022	0.00013	0.0021	0.0052	0.000022	0.000054	0.012	0.0000058	2.4	0.00072	0.00015	0.00062	0.075
		March		13	0.01	5.3	3.3	0.031	1.7	0.0081	0.0096	0.0034	0.022	0.00013	0.0021	0.0052	0.000022	0.000054	0.012	0.0000058	2.4	0.00072	0.00015	0.00062	0.075
		April		13	0.01	5.3	3.3	0.031	1.7	0.0081	0.0096	0.0034	0.022	0.00013	0.0021	0.0052	0.000022	0.000054	0.012	0.0000058	2.4	0.00072	0.00015	0.00062	0.075
		May		13	0.01	5.3	3.3	0.031	1.7	0.0081	0.0096	0.0034	0.022	0.00013	0.0021	0.0052	0.000022	0.000054	0.012	0.0000058	2.4	0.00072	0.00015	0.00062	0.075
		June		13	0.0098	5.3	3.3	0.031	1.7	0.008	0.0095	0.0034	0.022	0.00013	0.002	0.0052	0.000022	0.000054	0.012	0.0000058	2.4	0.00071	0.00015	0.00062	0.075
		July		13	0.0094	5.3	3.3	0.031	1.7	0.0079	0.0093	0.0034	0.022	0.00013	0.0019	0.0052	0.000022	0.000054	0.012	0.0000058	2.4	0.00071	0.00015	0.00062	0.075
		August		13	0.0094	5.3	3.3	0.031	1.7	0.0079	0.0092	0.0034	0.022	0.00013	0.002	0.0052	0.000022	0.000054	0.012	0.0000058	2.4	0.00071	0.00015	0.00062	0.075
		September		13	0.0092	5.3	3.2	0.031	1.7	0.0078	0.0091	0.0034	0.022	0.00013	0.002	0.0051	0.000022	0.000054	0.012	0.0000058	2.4	0.00071	0.00015	0.00062	0.075
		October		13	0.0091	5.3	3.2	0.031	1.7	0.0078	0.009	0.0033	0.022	0.00013	0.002	0.0051	0.000022	0.000054	0.012	0.0000058	2.4	0.00071	0.00015	0.00062	0.075
		November		13	0.0091	5.3	3.2	0.031	1.7	0.0078	0.009	0.0033	0.022	0.00013	0.002	0.0051	0.000022	0.000054	0.012	0.0000058	2.4	0.00071	0.00015	0.00062	0.075
		December		13	0.0091	5.3	3.2	0.031	1.7	0.0078	0.009	0.0033	0.022	0.00013	0.002	0.0051	0.000022	0.000054	0.012	0.0000058	2.4	0.00071	0.00015	0.00062	0.075
			MINIMUM	13	0.0091	5.3	3.2	0.031	1.7	0.0078	0.009	0.0033	0.022	0.00013	0.0019	0.0051	0.000021	0.000048	0.012	0.0000058	2.4	0.00071	0.00015	0.00062	0.075
			MAXIMUM	25	0.067	7.2	8.8	0.038	3.1	0.023	0.039	0.0077	0.022	0.00017	0.0064	0.0078	0.000022	0.000054	0.023	0.0000083	4.0	0.00073	0.00021	0.00065	0.075
			AVERAGE	17	0.028	5.9	5.0	0.033	2.2	0.013	0.019	0.0048	0.022	0.00014	0.0034	0.006	0.000022	0.000052	0.015	0.0000066	2.9	0.00072	0.00017	0.00063	0.075

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.

[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)

			Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)	0.05				0.004		0.25										0.1
			CCME (CEQG-PAL [chronic])[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[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
Whale Tail Pit	*Post-Closure, fully flooded pit*	January	2038	0.000079	0.0011	0.93	0.0049	0.0000054	0.00015	0.0011	0.5	0.000059	0.000012	0.81	0.016	0.000011	0.00011	0.000079	0.0006	0.0013
		February		0.000079	0.0011	0.93	0.0049	0.0000054	0.00015	0.0011	0.5	0.000059	0.000012	0.81	0.016	0.000011	0.00011	0.000079	0.0006	0.0013
		March		0.000079	0.0011	0.93	0.0049	0.0000054	0.00015	0.0011	0.5	0.000059	0.000012	0.81	0.016	0.000011	0.00011	0.000079	0.0006	0.0013
		April		0.000079	0.0011	0.93	0.0049	0.0000054	0.00015	0.0011	0.5	0.000059	0.000012	0.81	0.016	0.000011	0.00011	0.000079	0.0006	0.0013
		May		0.000079	0.0011	0.93	0.0049	0.0000054	0.00015	0.0011	0.5	0.000059	0.000012	0.81	0.016	0.000011	0.00011	0.000079	0.0006	0.0013
		June		0.000079	0.0011	0.93	0.0048	0.0000054	0.00014	0.0011	0.5	0.000058	0.000012	0.8	0.016	0.000011	0.00011	0.000078	0.0006	0.0013
		July		0.000078	0.0011	0.92	0.0047	0.0000054	0.00014	0.0011	0.5	0.000058	0.000012	0.79	0.016	0.000011	0.00011	0.000076	0.0006	0.0013
		August		0.000078	0.0011	0.92	0.0047	0.0000054	0.00014	0.0011	0.5	0.000058	0.000012	0.79	0.016	0.000011	0.00011	0.000075	0.0006	0.0013
		September		0.000078	0.0011	0.92	0.0046	0.0000054	0.00013	0.0011	0.5	0.000058	0.000012	0.78	0.016	0.000011	0.00011	0.000075	0.0006	0.0013
		October		0.000078	0.0011	0.92	0.0046	0.0000054	0.00013	0.0011	0.5	0.000058	0.000012	0.78	0.016	0.000011	0.00011	0.000074	0.0006	0.0013
		November		0.000078	0.0011	0.92	0.0046	0.0000054	0.00013	0.0011	0.5	0.000058	0.000012	0.78	0.016	0.000011	0.00011	0.000074	0.0006	0.0013
		December		0.000078	0.0011	0.92	0.0046	0.0000054	0.00013	0.0011	0.5	0.000058	0.000012	0.78	0.016	0.000011	0.00011	0.000074	0.0006	0.0013
		January	≥2039	0.000078	0.0011	0.92	0.0046	0.0000054	0.00013	0.0011	0.5	0.000058	0.000012	0.78	0.016	0.000011	0.00011	0.000074	0.0006	0.0013
		February		0.000078	0.0011	0.92	0.0046	0.0000054	0.00013	0.0011	0.5	0.000058	0.000012	0.78	0.016	0.000011	0.00011	0.000074	0.0006	0.0013
		March		0.000078	0.0011	0.92	0.0046	0.0000054	0.00013	0.0011	0.5	0.000058	0.000012	0.78	0.016	0.000011	0.00011	0.000074	0.0006	0.0013
		April		0.000078	0.0011	0.92	0.0046	0.0000054	0.00013	0.0011	0.5	0.000058	0.000012	0.78	0.016	0.000011	0.00011	0.000074	0.0006	0.0013
		May		0.000078	0.0011	0.92	0.0046	0.0000054	0.00013	0.0011	0.5	0.000058	0.000012	0.78	0.016	0.000011	0.00011	0.000074	0.0006	0.0013
		June		0.000078	0.0011	0.91	0.0045	0.0000054	0.00013	0.0011	0.49	0.000058	0.000012	0.77	0.016	0.000011	0.00011	0.000073	0.0006	0.0013
		July		0.000078	0.0011	0.91	0.0043	0.0000054	0.00012	0.0011	0.49	0.000058	0.000012	0.76	0.016	0.000011	0.00011	0.000071	0.0006	0.0013
		August		0.000078	0.0011	0.91	0.0043	0.0000054	0.00012	0.0011	0.49	0.000058	0.000012	0.76	0.016	0.000011	0.00011	0.000071	0.0006	0.0013
		September		0.000078	0.0011	0.91	0.0043	0.0000054	0.00012	0.0011	0.49	0.000058	0.000012	0.75	0.016	0.000011	0.00011	0.00007	0.0006	0.0013
		October		0.000078	0.0011	0.91	0.0042	0.0000054	0.00012	0.0011	0.49	0.000058	0.000012	0.75	0.016	0.000011	0.00011	0.00007	0.0006	0.0013
		November		0.000078	0.0011	0.91	0.0042	0.0000054	0.00012	0.0011	0.49	0.000058	0.000012	0.75	0.016	0.000011	0.00011	0.00007	0.0006	0.0013
		December		0.000078	0.0011	0.91	0.0042	0.0000054	0.00012	0.0011	0.49	0.000058	0.000012	0.75	0.016	0.000011	0.00011	0.00007	0.0006	0.0013
			MINIMUM	0.000078	0.0011	0.91	0.0042	0.000005	0.00012	0.0011	0.49	0.000058	0.000011	0.75	0.016	0.0000099	0.000098	0.00007	0.00055	0.0013
			MAXIMUM	0.0001	0.0014	1.5	0.021	0.0000054	0.00078	0.0015	0.7	0.000078	0.000012	2.1	0.029	0.000011	0.00011	0.00028	0.0006	0.0014
			AVERAGE	0.000085	0.0012	1.1	0.0095	0.0000053	0.00033	0.0012	0.56	0.000064	0.000011	1.2	0.02	0.000011	0.00011	0.00014	0.00059	0.0013

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.

[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
CCME (CEQG-PAL [chronic][2] (mg/L)							120	0.12			2.93	0.01	0.1		*0.025*				1.5	0.00004				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	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	*Construction and Operations*	January	2018	11	0	4.5	2.6	0.029	1.4	0.0061	0.0072	0.012	0.33	0.00012	0.0043	0.0071	0.000027	0.000053	0.01	0.0000068	2.4	0.0087	0.00061	0.00098	0.7
		February		11	0	4.5	2.6	0.029	1.4	0.0061	0.011	0.013	0.33	0.00012	0.0043	0.0071	0.000027	0.000053	0.01	0.0000068	2.4	0.0087	0.00061	0.00098	0.7
		March		12	0	4.5	2.6	0.029	1.4	0.0061	0.015	0.013	0.33	0.00012	0.0043	0.0071	0.000027	0.000053	0.01	0.0000068	2.4	0.0087	0.00061	0.00098	0.7
		April		12	0	4.6	2.6	0.029	1.4	0.0061	0.019	0.013	0.33	0.00012	0.0043	0.0071	0.000027	0.000053	0.01	0.0000068	2.4	0.0087	0.00061	0.00098	0.7
		May		12	0	4.6	2.6	0.029	1.4	0.0061	0.023	0.014	0.33	0.00012	0.0043	0.0071	0.000027	0.000053	0.01	0.0000068	2.4	0.0087	0.00061	0.00098	0.7
		June		12	0.000056	4.7	2.7	0.03	1.5	0.0062	0.011	0.013	0.33	0.00012	0.0043	0.0073	0.000027	0.000054	0.01	0.0000069	2.4	0.0087	0.00061	0.001	0.7
		July		10	0.00012	4.2	2.3	0.027	1.3	0.0054	0.0082	0.012	0.33	0.00011	0.0043	0.0069	0.000025	0.000048	0.0091	0.0000063	2.2	0.0087	0.0006	0.00097	0.7
		August		11	0.00031	4.3	2.4	0.028	1.3	0.0055	0.012	0.012	0.33	0.00011	0.0043	0.0069	0.000025	0.000049	0.0093	0.0000064	2.2	0.0087	0.0006	0.00098	0.7
		September		11	0.00087	4.3	2.4	0.028	1.3	0.0055	0.016	0.013	0.33	0.00011	0.0043	0.007	0.000025	0.000049	0.0093	0.0000064	2.2	0.0087	0.00061	0.0010	0.71
		October		11	0.0012	4.3	2.3	0.029	1.3	0.0055	0.019	0.013	0.33	0.00011	0.0043	0.007	0.000025	0.000049	0.0093	0.0000064	2.2	0.0087	0.00061	0.001	0.71
		November		11	0.0012	4.3	2.3	0.029	1.3	0.0055	0.023	0.014	0.33	0.00011	0.0043	0.007	0.000025	0.000049	0.0093	0.0000064	2.2	0.0087	0.00061	0.001	0.71
		December		11	0.0012	4.3	2.3	0.029	1.3	0.0055	0.027	0.014	0.33	0.00011	0.0043	0.007	0.000025	0.000049	0.0093	0.0000064	2.2	0.0087	0.00061	0.001	0.71
		January	2019	11	0.0012	4.3	2.3	0.029	1.3	0.0055	0.031	0.014	0.33	0.00011	0.0043	0.007	0.000025	0.000049	0.0093	0.0000064	2.2	0.0087	0.00061	0.001	0.71
		February		11	0.0012	4.3	2.3	0.029	1.3	0.0055	0.035	0.015	0.33	0.00011	0.0043	0.007	0.000025	0.000049	0.0093	0.0000064	2.2	0.0087	0.00061	0.001	0.71
		March		11	0.0012	4.3	2.3	0.029	1.3	0.0055	0.039	0.015	0.33	0.00011	0.0043	0.007	0.000025	0.000049	0.0093	0.0000064	2.2	0.0087	0.00061	0.001	0.71
		April		11	0.0012	4.3	2.3	0.029	1.3	0.0055	0.044	0.016	0.33	0.00011	0.0043	0.007	0.000025	0.000049	0.0093	0.0000064	2.2	0.0087	0.00061	0.001	0.71
		May		11	0.0012	4.4	2.3	0.029	1.4	0.0055	0.052	0.016	0.33	0.00011	0.0043	0.007	0.000025	0.000049	0.0093	0.0000064	2.2	0.0087	0.00061	0.001	0.71
		June		39	0.0022	9.6	16	0.047	3.8	0.023	0.059	0.027	0.33	0.00012	0.0044	0.014	0.000029	0.000051	0.034	0.000013	6.0	0.0088	0.00069	0.0012	0.71
		July		81	0.0033	18	37	0.076	7.5	0.05	0.062	0.042	0.33	0.00014	0.0047	0.023	0.000036	0.000055	0.071	0.000022	12	0.0089	0.00083	0.0015	0.72
		August		130	0.0036	27	60	0.11	12	0.08	0.071	0.06	0.33	0.00015	0.005	0.035	0.000044	0.000061	0.11	0.000033	18	0.009	0.00099	0.0018	0.72
		September		183	0.0044	37	86	0.14	16	0.11	0.08	0.08	0.33	0.00017	0.0055	0.047	0.000052	0.000065	0.16	0.000045	26	0.0091	0.0012	0.0022	0.72
		October		262	0.0036	52	124	0.2	23	0.16	0.12	0.11	0.33	0.0002	0.006	0.066	0.000065	0.000075	0.23	0.000062	36	0.0093	0.0014	0.0027	0.73
		November		414	0.00043	81	198	0.3	37	0.26	0.18	0.17	0.33	0.00027	0.0065	0.1	0.000092	0.00010	0.36	0.000097	57	0.0096	0.0019	0.0037	0.73
		December		429	0.000088	84	205	0.31	38	0.27	0.15	0.17	0.33	0.00027	0.0066	0.1	0.000094	0.0001	0.37	0.00010	59	0.0096	0.002	0.0038	0.73
		January	2020	183	0.00031	38	84	0.15	17	0.12	0.11	0.071	0.33	0.00023	0.0053	0.048	0.000064	0.000097	0.16	0.000046	26	0.0091	0.0012	0.0024	0.72
		February		171	0.00032	36	79	0.15	16	0.11	0.11	0.066	0.33	0.00023	0.0052	0.045	0.000062	0.000097	0.15	0.000044	25	0.0091	0.0012	0.0023	0.72
		March		174	0.00032	37	80	0.15	16	0.11	0.11	0.067	0.33	0.00023	0.0052	0.046	0.000063	0.000097	0.15	0.000044	25	0.0091	0.0012	0.0023	0.72
		April		180	0.00031	38	83	0.15	16	0.12	0.13	0.071	0.33	0.00023	0.0052	0.047	0.000063	0.000097	0.16	0.000046	26	0.0091	0.0012	0.0023	0.72
		May		188	0.0003	39	87	0.16	17	0.12	0.16	0.077	0.33	0.00023	0.0053	0.049	0.000064	0.000097	0.16	0.000047	27	0.0091	0.0012	0.0024	0.72
		June		99	0.0043	21	44	0.09	9.7	0.062	0.1	0.05	0.33	0.00017	0.0088	0.029	0.000036	0.00005	0.096	0.000028	14	0.009	0.0011	0.0018	0.74
		July		155	2.5	37	51	0.14	23	0.11	2.5	0.06	0.33	0.0019	**0.12**	0.04	0.000046	0.000053	0.23	0.000039	20	0.01	0.0019	0.0031	0.95
		August		161	2.5	38	51	0.13	24	0.12	3.0	0.06	0.33	0.002	**0.13**	0.04	0.000046	0.000053	0.24	0.00004	21	0.01	0.0019	0.0032	0.98
		September		143	1.3	31	51	0.11	18	0.12	3.0	0.056	0.33	0.0012	0.074	0.035	0.000042	0.00005	0.18	0.000034	18	0.0097	0.0014	0.0024	0.88
		October		198	0.059	40	87	0.15	18	0.14	1.7	0.08	0.33	0.00035	0.014	0.049	0.000061	0.000087	0.18	0.000048	27	0.0093	0.0013	0.0024	0.74
		November		215	0.0012	43	97	0.17	19	0.15	1.7	0.087	0.33	0.00023	0.0056	0.054	0.000064	0.000091	0.18	0.000051	29	0.0092	0.0013	0.0025	0.72
		December		214	0.00087	43	97	0.17	19	0.15	1.6	0.087	0.33	0.00022	0.0055	0.053	0.000064	0.000091	0.18	0.000051	29	0.0092	0.0013	0.0025	0.72
		January	2021	134	0.0011	28	58	0.12	12	0.11	1.3	0.057	0.33	0.00021	0.0051	0.035	0.000054	0.000089	0.11	0.000034	19	0.009	0.001	0.002	0.72
		February		122	0.0011	26	52	0.11	11	0.11	1.3	0.052	0.33	0.00021	0.005	0.033	0.000053	0.000089	0.1	0.000032	17	0.009	0.00099	0.0019	0.72
		March		122	0.0011	26	52	0.11	11	0.11	1.3	0.052	0.33	0.00021	0.005	0.033	0.000053	0.000089	0.1	0.000031	17	0.009	0.00099	0.0019	0.72
		April		121	0.0011	26	52	0.11	11	0.11	1.3	0.052	0.33	0.00021	0.005	0.032	0.000052	0.000089	0.1	0.000031	17	0.009	0.00098	0.0019	0.72
		May		123	0.0011	26	52	0.11	11	0.12	1.4	0.052	0.33	0.00021	0.005	0.033	0.000053	0.000089	0.1	0.000032	17	0.009	0.00099	0.0019	0.72
		June		73	0.86	15	19	0.06	8.8	0.12	3.9	0.028	0.33	0.00073	0.045	0.018	0.000029	0.000042	0.084	0.000017	8.2	0.0092	0.001	0.0016	0.81
		July		102	2.8	27	22	0.097	20	0.10	3.1	0.038	0.33	0.0022	**0.14**	0.026	0.000037	0.000046	0.19	0.000027	13	0.01	0.0018	0.0028	0.97
		August		105	2.8	28	22	0.098	21	0.099	3.1	0.038	0.33	0.0023	**0.15**	0.027	0.000038	0.000046	0.21	0.000027	13	0.01	0.0018	0.003	0.98
		September		84	1.4	21	21	0.073	13	0.099	3.0	0.034	0.33	0.0013	0.085	0.021	0.000032	0.000043	0.14	0.000021	10	0.0097	0.0013	0.0021	0.9
		October		103	0.08	23	41	0.093	9.8	0.11	1.7	0.045	0.33	0.00037	0.017	0.027	0.000048	0.000082	0.10	0.000027	14	0.0091	0.00097	0.0019	0.75
		November		110	0.0037	23	46	0.1	9.8	0.11	1.5	0.049	0.33	0.00021	0.0055	0.029	0.000051	0.000087	0.091	0.000029	15	0.009	0.00094	0.0018	0.72
		December		113	0.002	24	47	0.1	10.0	0.12	1.7	0.05	0.33	0.0002	0.005	0.03	0.000051	0.000087	0.093	0.000029	16	0.009	0.00095	0.0018	0.71
		January	2022	106	0.0019	23	44	0.097	9.4	0.12	1.6	0.047	0.33	0.0002	0.0049	0.028	0.00005	0.000087	0.087	0.000028	15	0.0089	0.00093	0.0018	0.71
		February		104	0.0019	22	43	0.096	9.2	0.12	1.6	0.047	0.33	0.0002	0.0049	0.028	0.00005	0.000087	0.085	0.000027	14	0.0089	0.00092	0.0018	0.71
		March		104	0.0019	22	43	0.096	9.2	0.12	1.6	0.047	0.33	0.0002	0.0049	0.028	0.00005	0.000087	0.085	0.000027	14	0.0089	0.00092	0.0018	0.71
		April		105	0.0019	22	43	0.097	9.2	0.12	1.7	0.047	0.33	0.0002	0.0049	0.028	0.00005	0.000087	0.085	0.000027	14	0.0089	0.00092	0.0018	0.71
		May		105	0.0019	22	43	0.097	9.3	0.13	1.7	0.047	0.33	0.0002	0.0049	0.028	0.00005	0.000087	0.086	0.000027	14	0.0089	0.00093	0.0018	0.71
		June		68	1.1	14	16	0.058	8.7	0.12	4.1	0.027	0.33	0.0008	0.049	0.016	0.000028	0.000042	0.081	0.000016	7.5	0.0092	0.001	0.0016	0.82
		July		88	3.4	23	18	0.089	17	0.094	2.7	0.033	0.33	0.0019	**0.11**	0.023	0.000035	0.000046	0.17	0.000023	11	0.01	0.0016	0.0026	0.95
			MINIMUM	10	0.000056	4.2	2.3	0.027	1.3	0.0054	0.0072	0.012	0.33	0.00011	0.0043	0.0069	0.000025	0.000042	0.0091	0.0000063	2.2	0.0087	0.0006	0.00097	0.7
			MAXIMUM	429	3.4	84	205	0.31	38	0.27	4.1	0.17	0.33	0.0023	**0.15**	0.1	0.000094	0.0001	0.37	0.00010	59	0.01	0.002	0.0038	0.98
			AVERAGE	105	0.38	23	43	0.094	11	0.084	1.0	0.047	0.33	0.00041	0.021	0.029	0.000043	0.000068	0.1	0.000028	15	0.0091	0.001	0.0018	0.75

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				0.05				0.004		0.25										0.1
CCME (CEQG-PAL [chronic])[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	0.00019	0.0013	1.1	0.013	0.0000051	0.00007	0.0046	0.57	0.000055	0.000021	0.55	0.016	0.000016	0.00011	0.000047	0.0013	0.0018
		February		0.00019	0.0013	1.1	0.013	0.0000051	0.00007	0.0046	0.57	0.000055	0.000021	0.55	0.016	0.000016	0.00011	0.000047	0.0013	0.0018
		March		0.00019	0.0013	1.1	0.013	0.0000051	0.00007	0.0046	0.57	0.000055	0.000021	0.55	0.016	0.000016	0.00011	0.000047	0.0013	0.0018
		April		0.00019	0.0013	1.1	0.013	0.0000051	0.00007	0.0046	0.57	0.000055	0.000021	0.55	0.016	0.000016	0.00011	0.000047	0.0013	0.0018
		May		0.00019	0.0013	1.1	0.013	0.0000051	0.00007	0.0046	0.57	0.000055	0.000021	0.55	0.016	0.000016	0.00011	0.000047	0.0013	0.0018
		June		0.00019	0.0013	1.2	0.013	0.0000052	0.000071	0.0047	0.58	0.000056	0.000021	0.58	0.016	0.000016	0.00011	0.000053	0.0014	0.0018
		July		0.00018	0.0012	1.1	0.013	0.0000046	0.000065	0.0046	0.53	0.00005	0.00002	0.52	0.014	0.000015	0.000098	0.000051	0.0013	0.0017
		August		0.00019	0.0012	1.1	0.013	0.0000047	0.000066	0.0047	0.54	0.000051	0.00002	0.53	0.014	0.000015	0.00010	0.000053	0.0013	0.0017
		September		0.00019	0.0012	1.1	0.013	0.0000047	0.000067	0.0047	0.55	0.000051	0.00002	0.54	0.014	0.000015	0.0001	0.000056	0.0013	0.0017
		October		0.00019	0.0012	1.1	0.013	0.0000047	0.000068	0.0047	0.55	0.000051	0.00002	0.55	0.014	0.000015	0.0001	0.000058	0.0013	0.0018
		November		0.00019	0.0012	1.1	0.013	0.0000047	0.000068	0.0047	0.55	0.000051	0.00002	0.55	0.014	0.000015	0.0001	0.000058	0.0013	0.0018
		December		0.00019	0.0012	1.1	0.013	0.0000047	0.000068	0.0047	0.55	0.000051	0.00002	0.55	0.014	0.000015	0.0001	0.000058	0.0013	0.0018
		January	2019	0.00019	0.0012	1.1	0.013	0.0000047	0.000068	0.0047	0.55	0.000051	0.00002	0.55	0.014	0.000015	0.0001	0.000058	0.0013	0.0018
		February		0.00019	0.0012	1.1	0.013	0.0000047	0.000068	0.0047	0.55	0.000051	0.00002	0.55	0.014	0.000015	0.0001	0.000058	0.0013	0.0018
		March		0.00019	0.0012	1.1	0.013	0.0000047	0.000068	0.0047	0.55	0.000051	0.00002	0.55	0.014	0.000015	0.0001	0.000058	0.0013	0.0018
		April		0.00019	0.0012	1.1	0.013	0.0000047	0.000068	0.0047	0.55	0.000051	0.00002	0.55	0.014	0.000015	0.0001	0.000058	0.0013	0.0018
		May		0.00019	0.0012	1.1	0.013	0.0000047	0.000068	0.0047	0.55	0.000051	0.00002	0.55	0.014	0.000015	0.0001	0.000058	0.0013	0.0018
		June		0.00024	0.0021	2.7	0.031	0.0000046	0.0015	0.005	0.87	0.000089	0.000021	3.6	0.046	0.000015	0.0001	0.00048	0.0013	0.0023
		July		0.00032	0.0034	5.1	0.056	0.0000047	0.0037	0.0054	1.4	0.00015	0.000022	8.1	0.096	0.000015	0.0001	0.0011	0.0013	0.0032
		August		0.00042	0.005	7.9	0.087	0.0000047	0.0061	0.0059	1.9	0.00021	0.000024	13	0.15	0.000015	0.0001	0.0018	0.0013	0.0043
		September		0.00052	0.0067	11	0.12	0.0000046	0.0089	0.0066	2.5	0.00029	0.000025	19	0.22	0.000015	0.0001	0.0026	0.0013	0.0054
		October		0.00067	0.0092	15	0.17	0.0000049	0.013	0.0074	3.4	0.00039	0.000028	27	0.31	0.000015	0.00011	0.0038	0.0013	0.0071
		November		0.00095	0.014	24	0.26	0.0000059	0.021	0.0087	5.2	0.0006	0.000035	43	0.49	0.000017	0.00012	0.006	0.0014	0.01
		December		0.00097	0.015	25	0.27	0.0000058	0.021	0.0089	5.4	0.00062	0.000035	45	0.51	0.000017	0.00012	0.0063	0.0014	0.011
		January	2020	0.00053	0.0071	11	0.12	0.0000079	0.0085	0.0067	2.7	0.00031	0.000032	18	0.22	0.000021	0.00016	0.0025	0.0016	0.0059
		February		0.00051	0.0067	10	0.11	0.000008	0.0079	0.0065	2.6	0.00029	0.000032	17	0.2	0.000021	0.00017	0.0024	0.0016	0.0057
		March		0.00051	0.0068	10	0.11	0.000008	0.0081	0.0066	2.6	0.00029	0.000032	18	0.21	0.000021	0.00017	0.0024	0.0016	0.0057
		April		0.00052	0.007	11	0.11	0.0000079	0.0083	0.0066	2.7	0.0003	0.000032	18	0.21	0.000021	0.00017	0.0025	0.0016	0.0059
		May		0.00054	0.0073	11	0.12	0.0000078	0.0088	0.0067	2.8	0.00031	0.000032	19	0.22	0.000021	0.00016	0.0026	0.0016	0.006
		June		0.00042	0.0039	5.9	0.14	0.0000041	0.0045	0.0082	1.5	0.00019	0.000023	11	0.11	0.000014	0.000089	0.0014	0.0012	0.0035
		July		0.0008	0.0052	7.4	0.25	0.000011	0.0059	0.018	4.4	0.00065	0.000046	16	0.14	0.000024	0.00016	0.0019	0.002	0.0054
		August		0.00084	0.0052	7.5	0.24	0.000011	0.006	0.018	4.6	0.00071	0.000048	16	0.14	0.000025	0.00016	0.0019	0.0021	0.0055
		September		0.00063	0.0047	7.1	0.16	0.0000076	0.0056	0.012	3.3	0.00048	0.000036	14	0.14	0.000019	0.00012	0.0018	0.0017	0.0047
		October		0.00057	0.0072	11	0.13	0.0000072	0.0089	0.007	2.9	0.00035	0.000031	20	0.22	0.00002	0.00015	0.0027	0.0016	0.006
		November		0.00057	0.0078	12	0.13	0.0000071	0.0099	0.0069	2.9	0.00034	0.000031	21	0.25	0.00002	0.00015	0.0029	0.0016	0.0063
		December		0.00057	0.0078	12	0.13	0.0000071	0.0098	0.0069	2.9	0.00033	0.000031	21	0.25	0.00002	0.00015	0.0029	0.0016	0.0063
		January	2021	0.00043	0.0053	7.9	0.084	0.0000076	0.0058	0.0061	2.1	0.00023	0.00003	13	0.15	0.000021	0.00016	0.0017	0.0016	0.0047
		February		0.00041	0.005	7.2	0.077	0.0000077	0.0052	0.006	1.9	0.00022	0.000029	11	0.14	0.000021	0.00016	0.0016	0.0016	0.0045
		March		0.00041	0.005	7.2	0.076	0.0000077	0.0052	0.006	1.9	0.00022	0.000029	11	0.14	0.000021	0.00016	0.0015	0.0016	0.0045
		April		0.0004	0.0049	7.1	0.076	0.0000077	0.0051	0.006	1.9	0.00021	0.000029	11	0.14	0.000021	0.00016	0.0015	0.0016	0.0045
		May		0.00041	0.005	7.2	0.077	0.0000077	0.0052	0.006	1.9	0.00022	0.000029	11	0.14	0.000021	0.00016	0.0016	0.0016	0.0045
		June		0.00039	0.0024	3.2	0.09	0.0000058	0.0021	0.009	1.8	0.00026	0.000028	5.8	0.056	0.000016	0.0001	0.00069	0.0015	0.0028
		July		0.00074	0.0033	4.1	0.22	0.000011	0.0029	0.018	4.1	0.00065	0.000048	10.0	0.074	0.000026	0.00016	0.001	0.0022	0.0043
		August		0.00078	0.0034	4.1	0.22	0.000012	0.003	0.018	4.3	0.0007	0.00005	10	0.075	0.000026	0.00017	0.0011	0.0022	0.0045
		September		0.00055	0.0028	3.6	0.14	0.000008	0.0025	0.012	2.8	0.00044	0.000036	7.8	0.065	0.00002	0.00012	0.00085	0.0018	0.0035
		October		0.00041	0.0042	5.8	0.069	0.0000079	0.004	0.0062	1.9	0.00024	0.00003	9.5	0.11	0.000021	0.00016	0.0012	0.0017	0.0041
		November		0.00038	0.0045	6.4	0.068	0.0000078	0.0045	0.0059	1.8	0.0002	0.000029	10	0.12	0.000021	0.00016	0.0013	0.0016	0.0042
		December		0.00039	0.0046	6.6	0.069	0.0000077	0.0046	0.0059	1.8	0.0002	0.000029	10	0.13	0.000021	0.00016	0.0014	0.0016	0.0043
		January	2022	0.00037	0.0044	6.2	0.065	0.0000078	0.0043	0.0059	1.7	0.00019	0.000029	9.6	0.12	0.000021	0.00016	0.0013	0.0016	0.0041
		February		0.00037	0.0044	6.1	0.064	0.0000078	0.0042	0.0058	1.7	0.00019	0.000029	9.4	0.12	0.000021	0.00016	0.0013	0.0016	0.0041
		March		0.00037	0.0044	6.1	0.064	0.0000078	0.0042	0.0058	1.7	0.00019	0.000029	9.4	0.12	0.000021	0.00016	0.0013	0.0016	0.0041
		April		0.00037	0.0044	6.1	0.064	0.0000078	0.0042	0.0058	1.7	0.00019	0.000029	9.4	0.12	0.000021	0.00016	0.0013	0.0016	0.0041
		May		0.00037	0.0044	6.1	0.064	0.0000078	0.0042	0.0058	1.7	0.00019	0.000029	9.4	0.12	0.000021	0.00016	0.0013	0.0016	0.0041
		June		0.00039	0.0022	2.9	0.088	0.0000062	0.0018	0.0097	1.9	0.00026	0.000029	5.1	0.049	0.000017	0.00011	0.0006	0.0015	0.0028
		July		0.00066	0.003	3.5	0.19	0.000011	0.0025	0.019	3.7	0.00056	0.000048	8.3	0.062	0.000026	0.00016	0.00083	0.002	0.004
			MINIMUM	0.00018	0.0012	1.1	0.013	0.0000041	0.000065	0.0046	0.53	0.00005	0.00002	0.52	0.014	0.000014	0.000089	0.000047	0.0012	0.0017
			MAXIMUM	0.00097	0.015	25	0.27	0.0000012	0.021	0.019	5.4	0.00071	0.00005	45	0.51	0.000026	0.00017	0.0063	0.0022	0.011
			AVERAGE	0.00042	0.0042	6.1	0.088	0.0000067	0.0044	0.0073	2.0	0.00024	0.000028	10	0.12	0.000018	0.00013	0.0013	0.0015	0.004

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
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12			2.93	0.01	0.1		*0.025*				1.5	0.00004				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	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	*Closure*	August	2022	61	1.2	20	12	0.11	13	0.036	0.7	0.045	0.33	0.00089	0.049	0.028	0.000027	0.000032	0.12	0.000028	7.5	0.0096	0.0021	0.0028	0.93
		September		53	1.0	17	11	0.11	12	0.023	0.26	0.044	0.33	0.00067	0.036	0.027	0.000024	0.000027	0.099	0.000027	6.6	0.0094	0.002	0.0025	0.9
		October		53	0.84	16	13	0.098	10	0.026	0.21	0.042	0.33	0.00056	0.03	0.025	0.000024	0.000029	0.088	0.000025	6.8	0.0093	0.0018	0.0023	0.87
		November		59	0.75	17	17	0.099	10	0.035	0.21	0.044	0.33	0.00052	0.027	0.026	0.000027	0.000035	0.09	0.000025	7.9	0.0092	0.0017	0.0022	0.85
		December		65	0.66	18	21	0.099	10	0.043	0.21	0.045	0.33	0.00049	0.025	0.026	0.00003	0.00004	0.09	0.000026	8.8	0.0092	0.0016	0.0022	0.83
		January	2023	70	0.59	19	24	0.10	10	0.049	0.22	0.047	0.33	0.00045	0.023	0.027	0.000032	0.000045	0.091	0.000026	9.6	0.0092	0.0015	0.0021	0.82
		February		75	0.53	19	27	0.1	10	0.055	0.22	0.048	0.33	0.00043	0.021	0.027	0.000034	0.000049	0.092	0.000027	10	0.0091	0.0015	0.0021	0.81
		March		79	0.48	20	29	0.1	10	0.06	0.22	0.049	0.33	0.0004	0.019	0.028	0.000035	0.000052	0.093	0.000027	11	0.0091	0.0014	0.0021	0.8
		April		82	0.43	20	31	0.1	10	0.064	0.22	0.05	0.33	0.00038	0.018	0.028	0.000037	0.000055	0.093	0.000027	11	0.0091	0.0014	0.0021	0.79
		May		85	0.39	21	33	0.1	10	0.068	0.22	0.05	0.33	0.00036	0.016	0.028	0.000038	0.000058	0.094	0.000028	12	0.0091	0.0013	0.002	0.78
		June		68	0.36	17	26	0.085	8.6	0.053	0.17	0.043	0.33	0.00032	0.015	0.024	0.000032	0.000047	0.077	0.000023	9.6	0.009	0.0012	0.0018	0.77
		July		56	0.45	15	20	0.078	8.0	0.039	0.14	0.038	0.33	0.00034	0.017	0.021	0.000027	0.000038	0.068	0.00002	7.8	0.009	0.0012	0.0017	0.78
		August		57	0.63	16	19	0.088	9.0	0.036	0.14	0.04	0.33	0.00042	0.02	0.023	0.000027	0.000037	0.074	0.000022	7.8	0.0091	0.0014	0.0019	0.8
		September		56	0.7	16	17	0.09	9.3	0.033	0.13	0.04	0.33	0.00045	0.021	0.023	0.000026	0.000035	0.075	0.000022	7.6	0.0091	0.0014	0.0019	0.81
		October		55	0.67	15	17	0.088	9.1	0.032	0.13	0.04	0.33	0.00043	0.021	0.023	0.000026	0.000034	0.073	0.000022	7.6	0.0091	0.0014	0.0019	0.81
		November		57	0.65	16	19	0.089	9.1	0.035	0.13	0.04	0.33	0.00042	0.02	0.023	0.000027	0.000036	0.074	0.000022	7.9	0.0091	0.0014	0.0019	0.8
		December		60	0.62	16	20	0.089	9.2	0.037	0.13	0.041	0.33	0.00041	0.02	0.023	0.000028	0.000038	0.075	0.000023	8.3	0.0091	0.0014	0.0019	0.8
		January	2024	62	0.59	16	21	0.09	9.2	0.039	0.14	0.042	0.33	0.0004	0.019	0.024	0.000029	0.000039	0.076	0.000023	8.6	0.0091	0.0014	0.0019	0.8
		February		64	0.57	17	22	0.09	9.3	0.041	0.14	0.043	0.33	0.00039	0.018	0.024	0.000029	0.000041	0.077	0.000023	8.9	0.0091	0.0013	0.0019	0.79
		March		66	0.55	17	24	0.091	9.3	0.043	0.14	0.043	0.33	0.00039	0.018	0.024	0.00003	0.000042	0.078	0.000023	9.2	0.0091	0.0013	0.0019	0.79
		April		68	0.52	17	25	0.091	9.3	0.045	0.14	0.044	0.33	0.00038	0.017	0.025	0.000031	0.000044	0.078	0.000024	9.5	0.0091	0.0013	0.0019	0.79
		May		69	0.5	17	26	0.091	9.4	0.047	0.15	0.045	0.33	0.00037	0.017	0.025	0.000031	0.000045	0.079	0.000024	9.7	0.009	0.0013	0.0019	0.78
		June		61	0.46	16	23	0.082	8.4	0.04	0.13	0.041	0.33	0.00034	0.016	0.022	0.000029	0.00004	0.07	0.000021	8.6	0.009	0.0012	0.0017	0.77
		July		54	0.52	14	19	0.078	8.0	0.033	0.11	0.038	0.33	0.00035	0.017	0.021	0.000026	0.000035	0.065	0.00002	7.5	0.009	0.0012	0.0017	0.78
		August		55	0.69	15	18	0.088	9.1	0.03	0.12	0.04	0.33	0.00043	0.02	0.023	0.000026	0.000034	0.072	0.000022	7.6	0.0091	0.0014	0.0019	0.8
		September		54	0.75	15	16	0.09	9.3	0.028	0.11	0.04	0.33	0.00046	0.022	0.023	0.000025	0.000033	0.072	0.000022	7.4	0.0091	0.0014	0.0019	0.81
		October		52	0.73	15	16	0.088	9.0	0.027	0.11	0.039	0.33	0.00044	0.021	0.022	0.000025	0.000033	0.071	0.000021	7.2	0.0091	0.0014	0.0019	0.81
		November		54	0.7	15	17	0.087	9.0	0.028	0.11	0.039	0.33	0.00043	0.02	0.022	0.000026	0.000034	0.071	0.000021	7.4	0.0091	0.0014	0.0019	0.8
		December		55	0.67	15	18	0.087	8.9	0.03	0.12	0.04	0.33	0.00042	0.02	0.022	0.000026	0.000036	0.071	0.000021	7.6	0.0091	0.0014	0.0019	0.8
		January	2025	56	0.64	15	18	0.087	8.9	0.031	0.12	0.04	0.33	0.00041	0.019	0.022	0.000027	0.000037	0.071	0.000022	7.8	0.0091	0.0014	0.0018	0.8
		February		57	0.62	15	19	0.087	8.8	0.032	0.12	0.041	0.33	0.0004	0.019	0.023	0.000028	0.000038	0.071	0.000022	8.0	0.009	0.0013	0.0018	0.79
		March		58	0.59	16	20	0.086	8.8	0.033	0.12	0.041	0.33	0.00039	0.018	0.023	0.000028	0.00004	0.071	0.000022	8.1	0.009	0.0013	0.0018	0.79
		April		59	0.57	16	20	0.086	8.7	0.034	0.13	0.041	0.33	0.00038	0.018	0.023	0.000029	0.000041	0.071	0.000022	8.3	0.009	0.0013	0.0018	0.79
		May		60	0.55	16	21	0.086	8.7	0.035	0.13	0.042	0.33	0.00038	0.017	0.023	0.000029	0.000042	0.071	0.000022	8.4	0.009	0.0013	0.0018	0.78
		June		53	0.5	14	18	0.077	7.8	0.031	0.11	0.038	0.33	0.00034	0.016	0.021	0.000027	0.000038	0.063	0.00002	7.4	0.009	0.0012	0.0017	0.77
		July		46	0.55	13	15	0.074	7.4	0.025	0.10	0.035	0.33	0.00036	0.017	0.019	0.000024	0.000033	0.059	0.000018	6.5	0.009	0.0012	0.0016	0.78
		August		47	0.71	14	14	0.083	8.4	0.022	0.1	0.037	0.33	0.00043	0.02	0.021	0.000024	0.000033	0.065	0.00002	6.5	0.009	0.0014	0.0018	0.8
		September		46	0.76	14	13	0.085	8.6	0.02	0.1	0.037	0.33	0.00046	0.022	0.021	0.000024	0.000031	0.065	0.00002	6.3	0.0091	0.0014	0.0019	0.81
		October		44	0.73	13	12	0.082	8.3	0.019	0.10	0.036	0.33	0.00044	0.021	0.02	0.000024	0.000031	0.063	0.000019	6.1	0.0091	0.0014	0.0018	0.81
		November		45	0.7	13	13	0.082	8.2	0.02	0.1	0.036	0.33	0.00043	0.02	0.02	0.000024	0.000033	0.063	0.000019	6.2	0.009	0.0014	0.0018	0.8
		December		45	0.68	13	13	0.081	8.1	0.021	0.1	0.037	0.33	0.00042	0.02	0.02	0.000025	0.000035	0.062	0.000019	6.3	0.009	0.0013	0.0018	0.8
		January	2026	46	0.65	13	13	0.08	8.0	0.022	0.11	0.037	0.33	0.00041	0.019	0.02	0.000026	0.000036	0.061	0.000019	6.4	0.009	0.0013	0.0018	0.79
		February		46	0.62	13	14	0.08	7.9	0.022	0.11	0.037	0.33	0.0004	0.018	0.02	0.000026	0.000038	0.061	0.000019	6.5	0.009	0.0013	0.0018	0.79
		March		47	0.6	13	14	0.079	7.8	0.023	0.11	0.037	0.33	0.00039	0.018	0.02	0.000027	0.000039	0.06	0.000019	6.6	0.009	0.0013	0.0017	0.79
		April		47	0.57	13	14	0.078	7.7	0.023	0.11	0.037	0.33	0.00038	0.017	0.02	0.000027	0.00004	0.06	0.000019	6.6	0.009	0.0013	0.0017	0.78
		May		47	0.55	13	15	0.078	7.6	0.024	0.11	0.037	0.33	0.00037	0.017	0.02	0.000028	0.000042	0.06	0.000019	6.7	0.009	0.0012	0.0017	0.78
		June		40	0.48	12	12	0.068	6.5	0.02	0.097	0.033	0.33	0.00033	0.015	0.017	0.000025	0.000038	0.051	0.000017	5.8	0.009	0.0011	0.0016	0.77
		July		21	0.19	6.9	5.6	0.043	3.1	0.012	0.035	0.018	0.33	0.0002	0.0076	0.01	0.000027	0.000049	0.022	0.0000097	3.5	0.0088	0.00076	0.0012	0.72
		August		16	0.14	5.9	4.1	0.038	2.4	0.0098	0.02	0.014	0.33	0.00017	0.0058	0.0088	0.000027	0.000052	0.015	0.0000082	3.0	0.0088	0.00067	0.0011	0.71
		September		15	0.1	5.5	3.6	0.036	2.1	0.0091	0.015	0.013	0.33	0.00016	0.0052	0.0082	0.000027	0.000053	0.013	0.0000077	2.8	0.0088	0.00064	0.0011	0.71
		October		14	0.081	5.3	3.5	0.034	1.9	0.0088	0.015	0.013	0.33	0.00015	0.005	0.0081	0.000027	0.000053	0.012	0.0000075	2.8	0.0087	0.00063	0.0011	0.71
		November		14	0.081	5.4	3.5	0.034	2.0	0.0088	0.016	0.013	0.33	0.00015	0.005	0.0081	0.000027	0.000053	0.012	0.0000075	2.8	0.0087	0.00064	0.0011	0.71
		December		14	0.081	5.4	3.5	0.035	2.0	0.0088	0.017	0.013	0.33	0.00015	0.005	0.0081	0.000027	0.000053	0.012	0.0000075	2.8	0.0087	0.00064	0.0011	0.71
		January	2027	14	0.081	5.4	3.5	0.035	2.0	0.0089	0.019	0.014	0.33	0.00015	0.005	0.0081	0.000027	0.000053	0.012	0.0000075	2.8	0.0087	0.00064	0.0011	0.71
		February		14	0.081	5.4	3.5	0.035	2.0	0.0089	0.02	0.014	0.33	0.00015	0.005	0.0081	0.000027	0.000053	0.012	0.0000075	2.8	0.0087	0.00064	0.0011	0.71
		March		14	0.08	5.4	3.5	0.035	2.0	0.0089	0.021	0.014	0.33	0.00015	0.005	0.0081	0.000027	0.000053	0.013	0.0000076	2.8	0.0087	0.00064	0.0011	0.71
		April		15	0.08	5.4	3.6	0.035	2.0	0.0089	0.022	0.014	0.33	0.00015	0.005	0.0081	0.000027	0.000054	0.013	0.0000076	2.8	0.0087	0.00064	0.0011	0.71
		May		15	0.08	5.4	3.6	0.035	2.0	0.0089	0.024	0.014	0.33	0.00015	0.005	0.0081	0.000027	0.000054	0.013	0.0000076	2.8	0.0087	0.00064	0.0011	0.71
		June		14	0.05	5.6	3.6	0.035	1.9	0.0092	0.018	0.01	0.23	0.00014	0.0034	0.0073	0.000027	0.000057	0.013	0.0000073	2.8	0.0061	0.00048	0.00093	0.5
			MINIMUM	14	0.05	5.3	3.5	0.034	1.9	0.0088	0.015	0.01	0.23	0.00014	0.0034	0.0073	0.000024	0.000027	0.012	0.0000073	2.8	0.0061	0.00048	0.00093	0.5
			MAXIMUM	85	1.2	21	33	0.11	13	0.068	0.7	0.05	0.33	0.00089	0.049	0.028	0.000038	0.000058	0.12	0.000028	12	0.0096	0.0021	0.0028	0.93
			AVERAGE	49	0.52	14	16	0.077	7.6	0.029	0.13	0.035	0.32	0.00037	0.017	0.02	0.000028	0.000041	0.062	0.000019	6.9	0.009	0.0012	0.0017	0.78

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				0.05				0.004		0.25										0.1
CCME (CEQG-PAL [chronic])[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*	August	2022	0.00072	0.0026	2.5	0.41	0.0000089	0.0021	0.021	2.7	0.00039	0.00003	8.0	0.048	0.000018	0.00015	0.0011	0.0017	0.0036
		September		0.00065	0.0023	2.3	0.41	0.0000077	0.002	0.02	2.4	0.00031	0.000026	7.2	0.044	0.000016	0.00014	0.001	0.0015	0.0033
		October		0.00058	0.0023	2.5	0.34	0.0000069	0.0021	0.017	2.1	0.00027	0.000025	6.8	0.047	0.000015	0.00012	0.00099	0.0014	0.0031
		November		0.00056	0.0026	3.0	0.31	0.000007	0.0024	0.016	2.1	0.00026	0.000025	7.3	0.057	0.000016	0.00013	0.001	0.0015	0.0033
		December		0.00054	0.0028	3.4	0.29	0.000007	0.0027	0.015	2.0	0.00026	0.000025	7.7	0.065	0.000016	0.00013	0.0011	0.0015	0.0034
		January	2023	0.00052	0.0031	3.8	0.26	0.000007	0.0029	0.014	2.0	0.00025	0.000026	8.1	0.073	0.000016	0.00013	0.0011	0.0015	0.0035
		February		0.00051	0.0032	4.1	0.24	0.000007	0.0031	0.013	2.0	0.00025	0.000026	8.4	0.079	0.000017	0.00013	0.0012	0.0015	0.0036
		March		0.0005	0.0034	4.4	0.23	0.0000071	0.0033	0.012	2.0	0.00024	0.000026	8.6	0.085	0.000017	0.00014	0.0012	0.0015	0.0036
		April		0.00049	0.0035	4.6	0.21	0.0000071	0.0035	0.012	2.0	0.00024	0.000026	8.9	0.089	0.000017	0.00014	0.0012	0.0015	0.0037
		May		0.00048	0.0036	4.9	0.2	0.0000071	0.0036	0.011	2.0	0.00024	0.000027	9.1	0.094	0.000018	0.00014	0.0013	0.0015	0.0038
		June		0.00042	0.003	3.9	0.17	0.000006	0.0029	0.01	1.7	0.0002	0.000024	7.3	0.075	0.000016	0.00012	0.001	0.0014	0.0032
		July		0.00042	0.0025	3.2	0.19	0.0000056	0.0024	0.011	1.6	0.00019	0.000022	6.2	0.059	0.000014	0.00011	0.00091	0.0013	0.0029
		August		0.00047	0.0026	3.1	0.23	0.0000064	0.0024	0.013	1.9	0.00022	0.000023	6.5	0.058	0.000015	0.00012	0.001	0.0014	0.0031
		September		0.00048	0.0025	2.9	0.25	0.0000066	0.0024	0.013	2.0	0.00022	0.000023	6.4	0.056	0.000015	0.00012	0.001	0.0014	0.0031
		October		0.00047	0.0025	2.9	0.24	0.0000065	0.0024	0.013	1.9	0.00022	0.000023	6.4	0.056	0.000015	0.00012	0.001	0.0014	0.0031
		November		0.00046	0.0026	3.1	0.23	0.0000065	0.0025	0.013	1.9	0.00022	0.000023	6.5	0.059	0.000015	0.00012	0.001	0.0014	0.0031
		December		0.00046	0.0027	3.3	0.23	0.0000065	0.0026	0.012	1.9	0.00022	0.000023	6.7	0.062	0.000015	0.00012	0.001	0.0014	0.0031
		January	2024	0.00046	0.0027	3.4	0.22	0.0000065	0.0027	0.012	1.9	0.00022	0.000023	6.9	0.065	0.000015	0.00012	0.0011	0.0014	0.0032
		February		0.00046	0.0028	3.5	0.21	0.0000065	0.0028	0.012	1.9	0.00022	0.000024	7.1	0.067	0.000015	0.00012	0.0011	0.0014	0.0032
		March		0.00045	0.0029	3.7	0.21	0.0000065	0.0028	0.012	1.9	0.00022	0.000024	7.2	0.07	0.000016	0.00012	0.0011	0.0014	0.0033
		April		0.00045	0.003	3.8	0.2	0.0000065	0.0029	0.011	1.9	0.00021	0.000024	7.4	0.073	0.000016	0.00012	0.0011	0.0014	0.0033
		May		0.00045	0.003	3.9	0.2	0.0000065	0.003	0.011	1.9	0.00021	0.000024	7.5	0.075	0.000016	0.00012	0.0011	0.0014	0.0033
		June		0.00041	0.0027	3.5	0.18	0.0000058	0.0027	0.011	1.7	0.00019	0.000023	6.7	0.066	0.000015	0.00011	0.001	0.0014	0.003
		July		0.00041	0.0024	3.0	0.19	0.0000057	0.0023	0.011	1.7	0.00019	0.000022	6.0	0.057	0.000014	0.00011	0.00093	0.0013	0.0029
		August		0.00046	0.0025	3.0	0.23	0.0000065	0.0024	0.013	1.9	0.00022	0.000023	6.3	0.056	0.000015	0.00012	0.001	0.0014	0.0031
		September		0.00047	0.0024	2.8	0.25	0.0000067	0.0023	0.013	2.0	0.00022	0.000023	6.2	0.053	0.000015	0.00012	0.001	0.0014	0.0031
		October		0.00046	0.0024	2.8	0.24	0.0000066	0.0023	0.013	2.0	0.00022	0.000023	6.1	0.052	0.000015	0.00012	0.0010	0.0014	0.003
		November		0.00046	0.0024	2.9	0.23	0.0000065	0.0023	0.013	1.9	0.00022	0.000023	6.1	0.054	0.000015	0.00012	0.0010	0.0014	0.003
		December		0.00045	0.0025	3.0	0.23	0.0000065	0.0024	0.012	1.9	0.00021	0.000023	6.2	0.056	0.000015	0.00012	0.001	0.0014	0.0031
		January	2025	0.00045	0.0025	3.1	0.22	0.0000065	0.0024	0.012	1.9	0.00021	0.000023	6.3	0.058	0.000015	0.00012	0.001	0.0014	0.0031
		February		0.00044	0.0026	3.1	0.21	0.0000065	0.0025	0.012	1.9	0.00021	0.000023	6.3	0.059	0.000015	0.00012	0.001	0.0014	0.0031
		March		0.00044	0.0026	3.2	0.21	0.0000065	0.0025	0.012	1.9	0.00021	0.000023	6.4	0.061	0.000015	0.00012	0.001	0.0014	0.0031
		April		0.00043	0.0027	3.3	0.2	0.0000065	0.0025	0.011	1.9	0.00021	0.000023	6.5	0.062	0.000015	0.00012	0.001	0.0014	0.0031
		May		0.00043	0.0027	3.4	0.19	0.0000065	0.0026	0.011	1.8	0.0002	0.000023	6.5	0.064	0.000016	0.00012	0.001	0.0014	0.0031
		June		0.0004	0.0024	3.0	0.18	0.0000059	0.0023	0.011	1.7	0.00018	0.000022	5.7	0.056	0.000015	0.00011	0.0009	0.0014	0.0029
		July		0.0004	0.0022	2.6	0.19	0.0000057	0.002	0.011	1.6	0.00018	0.000021	5.2	0.048	0.000014	0.00011	0.00083	0.0013	0.0027
		August		0.00044	0.0022	2.5	0.23	0.0000065	0.002	0.013	1.9	0.00021	0.000022	5.4	0.047	0.000015	0.00012	0.00091	0.0014	0.0029
		September		0.00046	0.0022	2.4	0.24	0.0000067	0.0019	0.013	1.9	0.00021	0.000023	5.4	0.044	0.000015	0.00012	0.00092	0.0014	0.0029
		October		0.00045	0.0021	2.3	0.23	0.0000065	0.0019	0.013	1.9	0.00021	0.000022	5.2	0.043	0.000015	0.00012	0.00088	0.0014	0.0028
		November		0.00044	0.0022	2.4	0.23	0.0000066	0.0019	0.013	1.8	0.0002	0.000022	5.2	0.044	0.000015	0.00012	0.00087	0.0014	0.0028
		December		0.00043	0.0022	2.4	0.22	0.0000066	0.0019	0.012	1.8	0.0002	0.000023	5.2	0.045	0.000015	0.00012	0.00087	0.0014	0.0029
		January	2026	0.00043	0.0022	2.5	0.21	0.0000066	0.0019	0.012	1.8	0.0002	0.000023	5.2	0.046	0.000015	0.00012	0.00086	0.0014	0.0029
		February		0.00042	0.0022	2.5	0.2	0.0000066	0.0019	0.012	1.8	0.00019	0.000023	5.2	0.047	0.000015	0.00012	0.00085	0.0014	0.0029
		March		0.00042	0.0023	2.6	0.2	0.0000066	0.0019	0.012	1.7	0.00019	0.000023	5.2	0.047	0.000015	0.00012	0.00084	0.0014	0.0029
		April		0.00041	0.0023	2.6	0.19	0.0000066	0.0019	0.011	1.7	0.00019	0.000023	5.2	0.048	0.000016	0.00012	0.00083	0.0014	0.0029
		May		0.00041	0.0023	2.7	0.19	0.0000066	0.0019	0.011	1.7	0.00019	0.000023	5.1	0.049	0.000016	0.00012	0.00083	0.0014	0.0029
		June		0.00037	0.002	2.3	0.16	0.0000058	0.0016	0.01	1.5	0.00016	0.000022	4.4	0.042	0.000015	0.00011	0.00071	0.0014	0.0026
		July		0.00024	0.0015	1.5	0.054	0.0000056	0.00059	0.0062	0.93	0.000091	0.000022	1.7	0.024	0.000016	0.00011	0.00028	0.0014	0.0021
		August		0.00021	0.0015	1.4	0.027	0.0000057	0.00037	0.0052	0.83	0.000076	0.000022	1.1	0.02	0.000016	0.00012	0.0002	0.0014	0.002
		September		0.0002	0.0014	1.3	0.019	0.0000056	0.00027	0.0049	0.76	0.000069	0.000022	0.86	0.018	0.000016	0.00012	0.00015	0.0014	0.002
		October		0.0002	0.0014	1.3	0.017	0.0000055	0.00024	0.0049	0.72	0.000066	0.000022	0.81	0.018	0.000016	0.00011	0.00014	0.0014	0.002
		November		0.0002	0.0014	1.3	0.017	0.0000055	0.00024	0.0049	0.72	0.000066	0.000022	0.82	0.018	0.000016	0.00011	0.00014	0.0014	0.002
		December		0.0002	0.0014	1.3	0.017	0.0000055	0.00024	0.0049	0.72	0.000066	0.000022	0.82	0.018	0.000016	0.00011	0.00014	0.0014	0.002
		January	2027	0.0002	0.0014	1.3	0.017	0.0000055	0.00024	0.0049	0.72	0.000066	0.000022	0.82	0.018	0.000016	0.00011	0.00014	0.0014	0.002
		February		0.0002	0.0014	1.3	0.017	0.0000055	0.00024	0.0049	0.72	0.000067	0.000022	0.83	0.018	0.000016	0.00011	0.00014	0.0014	0.002
		March		0.0002	0.0014	1.3	0.017	0.0000055	0.00024	0.0049	0.72	0.000067	0.000022	0.83	0.018	0.000016	0.00011	0.00014	0.0014	0.002
		April		0.0002	0.0014	1.3	0.017	0.0000055	0.00025	0.0049	0.72	0.000067	0.000022	0.83	0.018	0.000016	0.00011	0.00014	0.0014	0.002
		May		0.0002	0.0014	1.3	0.017	0.0000055	0.00025	0.0049	0.72	0.000067	0.000022	0.83	0.018	0.000016	0.00011	0.00014	0.0014	0.002
		June		0.00016	0.0014	1.2	0.012	0.0000058	0.0002	0.0036	0.66	0.000066	0.000019	0.82	0.018	0.000015	0.00012	0.00011	0.0012	0.0018
			MINIMUM	0.00016	0.0014	1.2	0.012	0.0000055	0.0002	0.0036	0.66	0.000066	0.000019	0.81	0.018	0.000014	0.00011	0.00011	0.0012	0.0018
			MAXIMUM	0.00072	0.0036	4.9	0.41	0.0000089	0.0036	0.021	2.7	0.00039	0.00003	9.1	0.094	0.000018	0.00015	0.0013	0.0017	0.0038
			AVERAGE	0.00041	0.0023	2.7	0.19	0.0000064	0.002	0.011	1.7	0.00019	0.000023	5.4	0.051	0.000016	0.00012	0.00083	0.0014	0.0029

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
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12			2.93	0.01	0.1		*0.025*				1.5	0.00004				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	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
		July		13	0.025	5.3	3.3	0.031	1.7	0.0084	0.013	0.0036	0.022	0.00012	0.00064	0.0051	0.000022	0.000054	0.012	0.0000058	2.4	0.0007	0.00015	0.0006	0.071
		August		13	0.018	5.2	3.2	0.031	1.6	0.0081	0.012	0.0035	0.022	0.00011	0.00059	0.005	0.000022	0.000054	0.012	0.0000058	2.4	0.0007	0.00015	0.0006	0.071
		September	2027	12	0.012	5.1	3.1	0.03	1.6	0.0078	0.01	0.0033	0.022	0.00011	0.00054	0.005	0.000022	0.000053	0.011	0.0000057	2.3	0.0007	0.00015	0.00059	0.071
		October		12	0.0096	5.0	3.1	0.03	1.6	0.0076	0.0097	0.0032	0.022	0.00011	0.00052	0.0049	0.000022	0.000053	0.011	0.0000056	2.3	0.0007	0.00014	0.00059	0.07
		November		12	0.0096	5.0	3.1	0.03	1.6	0.0076	0.0097	0.0032	0.022	0.00011	0.00052	0.0049	0.000022	0.000053	0.011	0.0000056	2.3	0.0007	0.00014	0.00059	0.07
		December		12	0.0096	5.0	3.1	0.03	1.6	0.0076	0.0097	0.0032	0.022	0.00011	0.00052	0.0049	0.000022	0.000053	0.011	0.0000056	2.3	0.0007	0.00014	0.00059	0.07
		January		12	0.0096	5.0	3.1	0.03	1.6	0.0076	0.0097	0.0032	0.022	0.00011	0.00052	0.0049	0.000022	0.000053	0.011	0.0000056	2.3	0.0007	0.00014	0.00059	0.07
		February		12	0.0096	5.0	3.1	0.03	1.6	0.0076	0.0097	0.0032	0.022	0.00011	0.00052	0.0049	0.000022	0.000053	0.011	0.0000056	2.3	0.0007	0.00014	0.00059	0.07
		March		12	0.0096	5.0	3.1	0.03	1.6	0.0076	0.0097	0.0032	0.022	0.00011	0.00052	0.0049	0.000022	0.000053	0.011	0.0000056	2.3	0.0007	0.00014	0.00059	0.07
		April		12	0.0096	5.0	3.1	0.03	1.6	0.0076	0.0097	0.0032	0.022	0.00011	0.00052	0.0049	0.000022	0.000053	0.011	0.0000056	2.3	0.0007	0.00014	0.00059	0.07
		May		12	0.0096	5.0	3.1	0.03	1.6	0.0076	0.0097	0.0032	0.022	0.00011	0.00052	0.0049	0.000022	0.000053	0.011	0.0000056	2.3	0.0007	0.00014	0.00059	0.07
		June		13	0.0058	5.3	3.2	0.031	1.6	0.0078	0.0091	0.0033	0.022	0.00012	0.0005	0.0051	0.000023	0.000056	0.012	0.0000059	2.4	0.00071	0.00015	0.00062	0.071
		July	2028	12	0.0026	5.1	3.0	0.03	1.5	0.0073	0.008	0.0031	0.022	0.00011	0.00047	0.0049	0.000022	0.000055	0.011	0.0000057	2.3	0.0007	0.00014	0.0006	0.071
		August		12	0.0019	5.1	2.9	0.03	1.5	0.0072	0.0076	0.0031	0.022	0.00011	0.00046	0.0049	0.000022	0.000054	0.011	0.0000056	2.3	0.0007	0.00014	0.0006	0.071
		September		12	0.0013	5.0	2.9	0.03	1.5	0.007	0.0073	0.003	0.022	0.00011	0.00045	0.0048	0.000022	0.000054	0.011	0.0000055	2.3	0.0007	0.00014	0.00059	0.071
		October		12	0.001	4.9	2.9	0.029	1.5	0.0069	0.0071	0.003	0.022	0.00011	0.00045	0.0048	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		November		12	0.001	4.9	2.9	0.029	1.5	0.0069	0.0071	0.003	0.022	0.00011	0.00045	0.0048	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		December		12	0.001	4.9	2.9	0.029	1.5	0.0069	0.0071	0.003	0.022	0.00011	0.00045	0.0048	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		January		12	0.001	4.9	2.9	0.029	1.5	0.0069	0.0071	0.003	0.022	0.00011	0.00045	0.0048	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		February		12	0.001	4.9	2.9	0.029	1.5	0.0069	0.0071	0.003	0.022	0.00011	0.00045	0.0048	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		March		12	0.001	4.9	2.9	0.029	1.5	0.0069	0.0071	0.003	0.022	0.00011	0.00045	0.0048	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		April		12	0.001	4.9	2.9	0.029	1.5	0.0069	0.0071	0.003	0.022	0.00011	0.00045	0.0048	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		May		12	0.001	4.9	2.9	0.029	1.5	0.0069	0.0071	0.003	0.022	0.00011	0.00045	0.0048	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		June		12	0.00064	5.2	3.0	0.031	1.6	0.0072	0.0072	0.0031	0.022	0.00011	0.00046	0.005	0.000023	0.000056	0.011	0.0000058	2.4	0.00071	0.00015	0.00062	0.071
		July	2029	12	0.00029	5.1	2.9	0.03	1.5	0.0068	0.0067	0.003	0.022	0.00011	0.00045	0.0049	0.000022	0.000055	0.011	0.0000056	2.3	0.0007	0.00014	0.0006	0.071
		August		12	0.00022	5.0	2.8	0.03	1.5	0.0067	0.0066	0.003	0.022	0.00011	0.00045	0.0048	0.000022	0.000054	0.011	0.0000056	2.3	0.0007	0.00014	0.0006	0.071
		September		11	0.00015	5.0	2.8	0.029	1.5	0.0066	0.0065	0.003	0.022	0.00011	0.00044	0.0048	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.071
		October		11	0.00012	4.9	2.8	0.029	1.5	0.0066	0.0064	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		November		11	0.00012	4.9	2.8	0.029	1.5	0.0066	0.0064	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		December		11	0.00012	4.9	2.8	0.029	1.5	0.0066	0.0064	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		January		11	0.00012	4.9	2.8	0.029	1.5	0.0066	0.0064	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		February		11	0.00012	4.9	2.8	0.029	1.5	0.0066	0.0064	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		March		11	0.00012	4.9	2.8	0.029	1.5	0.0066	0.0064	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
Whale Tail Attenuation Pond	*Closure, fully flooded pit*	April		11	0.00012	4.9	2.8	0.029	1.5	0.0066	0.0064	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		May		11	0.00012	4.9	2.8	0.029	1.5	0.0066	0.0064	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.07
		June		12	0.000075	5.2	2.9	0.031	1.6	0.0069	0.0066	0.0031	0.022	0.00011	0.00045	0.005	0.000023	0.000056	0.011	0.0000058	2.3	0.00071	0.00015	0.00062	0.071
		July	2030	12	0.000036	5.0	2.8	0.03	1.5	0.0067	0.0064	0.003	0.022	0.00011	0.00044	0.0048	0.000022	0.000055	0.011	0.0000056	2.3	0.0007	0.00014	0.0006	0.071
		August		12	0.000027	5.0	2.8	0.03	1.5	0.0066	0.0063	0.003	0.022	0.00011	0.00044	0.0048	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.0006	0.071
		September		11	0.00002	4.9	2.8	0.029	1.5	0.0065	0.0062	0.0029	0.022	0.00011	0.00044	0.0048	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.071
		October		11	0.000016	4.9	2.7	0.029	1.5	0.0064	0.0062	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		November		11	0.000016	4.9	2.7	0.029	1.5	0.0064	0.0062	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		December		11	0.000016	4.9	2.7	0.029	1.5	0.0064	0.0062	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		January		11	0.000016	4.9	2.7	0.029	1.5	0.0064	0.0062	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		February		11	0.000016	4.9	2.7	0.029	1.5	0.0064	0.0062	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		March		11	0.000016	4.9	2.7	0.029	1.5	0.0064	0.0062	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		April		11	0.000016	4.9	2.7	0.029	1.5	0.0064	0.0062	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		May		11	0.000016	4.9	2.7	0.029	1.5	0.0064	0.0062	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		June		12	0.000011	5.2	2.9	0.031	1.6	0.0068	0.0064	0.003	0.022	0.00011	0.00045	0.005	0.000023	0.000056	0.011	0.0000058	2.3	0.00071	0.00015	0.00062	0.071
		July	2031	12	0.0000058	5.0	2.8	0.03	1.5	0.0066	0.0062	0.003	0.022	0.00011	0.00044	0.0048	0.000022	0.000055	0.011	0.0000056	2.3	0.0007	0.00014	0.0006	0.071
		August		11	0.0000046	5.0	2.8	0.03	1.5	0.0065	0.0062	0.003	0.022	0.00011	0.00044	0.0048	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.0006	0.071
		September		11	0.0000035	4.9	2.7	0.029	1.5	0.0064	0.0061	0.0029	0.022	0.00011	0.00044	0.0048	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.071
		October		11	0.000003	4.9	2.7	0.029	1.5	0.0064	0.0061	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		November		11	0.000003	4.9	2.7	0.029	1.5	0.0064	0.0061	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		December		11	0.000003	4.9	2.7	0.029	1.5	0.0064	0.0061	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		January		11	0.000003	4.9	2.7	0.029	1.5	0.0064	0.0061	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		February		11	0.000003	4.9	2.7	0.029	1.5	0.0064	0.0061	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		March		11	0.000003	4.9	2.7	0.029	1.5	0.0064	0.0061	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		April		11	0.000003	4.9	2.7	0.029	1.5	0.0064	0.0061	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		May		11	0.000003	4.9	2.7	0.029	1.5	0.0064	0.0061	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		June		12	0.0000022	5.2	2.9	0.031	1.5	0.0068	0.0064	0.003	0.022	0.00011	0.00045	0.005	0.000023	0.000056	0.011	0.0000058	2.3	0.00071	0.00015	0.00062	0.071
		July	2032	12	0.0000014	5.0	2.8	0.03	1.5	0.0066	0.0062	0.003	0.022	0.00011	0.00044	0.0048	0.000022	0.000055	0.011	0.0000056	2.3	0.0007	0.00014	0.0006	0.071
		August		11	0.0000011	5.0	2.8	0.03	1.5	0.0065	0.0062	0.0029	0.022	0.00011	0.00044	0.0048	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.0006	0.071
		September		11	0.0000009	4.9	2.7	0.029	1.5	0.0064	0.0061	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.071
		October		11	0.00000079	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		November		11	0.00000079	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		December		11	0.00000079	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				0.05				0.004		0.25										0.1
CCME (CEQG-PAL [chronic])[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*	July	2027	0.000076	0.0011	0.9	0.0039	0.0000055	0.00014	0.001	0.5	0.000058	0.000012	0.74	0.016	0.000011	0.00011	0.000076	0.0006	0.0013
		August		0.000075	0.0011	0.88	0.0037	0.0000055	0.00012	0.001	0.48	0.000057	0.000012	0.72	0.016	0.000011	0.00011	0.000069	0.0006	0.0013
		September		0.000074	0.0011	0.87	0.0034	0.0000054	0.00011	0.001	0.47	0.000056	0.000011	0.7	0.016	0.000011	0.00011	0.000063	0.00059	0.0013
		October		0.000073	0.0011	0.86	0.0032	0.0000054	0.0001	0.001	0.46	0.000055	0.000011	0.68	0.015	0.000011	0.00011	0.00006	0.00059	0.0013
		November		0.000073	0.0011	0.86	0.0032	0.0000054	0.0001	0.001	0.46	0.000055	0.000011	0.68	0.015	0.000011	0.00011	0.00006	0.00059	0.0013
		December		0.000073	0.0011	0.86	0.0032	0.0000054	0.0001	0.001	0.46	0.000055	0.000011	0.68	0.015	0.000011	0.00011	0.00006	0.00059	0.0013
		January	2028	0.000073	0.0011	0.86	0.0032	0.0000054	0.0001	0.001	0.46	0.000055	0.000011	0.68	0.015	0.000011	0.00011	0.00006	0.00059	0.0013
		February		0.000073	0.0011	0.86	0.0032	0.0000054	0.0001	0.001	0.46	0.000055	0.000011	0.68	0.015	0.000011	0.00011	0.00006	0.00059	0.0013
		March		0.000073	0.0011	0.86	0.0032	0.0000054	0.0001	0.001	0.46	0.000055	0.000011	0.68	0.015	0.000011	0.00011	0.00006	0.00059	0.0013
		April		0.000073	0.0011	0.86	0.0032	0.0000054	0.0001	0.001	0.46	0.000055	0.000011	0.68	0.015	0.000011	0.00011	0.00006	0.00059	0.0013
		May		0.000073	0.0011	0.86	0.0032	0.0000054	0.0001	0.001	0.46	0.000055	0.000011	0.68	0.015	0.000011	0.00011	0.00006	0.00059	0.0013
		June		0.000076	0.0012	0.9	0.0032	0.0000057	0.000094	0.001	0.48	0.000058	0.000012	0.71	0.016	0.000012	0.00011	0.000057	0.00062	0.0013
		July		0.000074	0.0011	0.86	0.0029	0.0000055	0.00008	0.001	0.46	0.000056	0.000012	0.67	0.015	0.000011	0.00011	0.000052	0.0006	0.0013
		August		0.000074	0.0011	0.85	0.0028	0.0000054	0.000076	0.001	0.46	0.000055	0.000012	0.66	0.015	0.000011	0.00011	0.00005	0.0006	0.0013
		September		0.000073	0.0011	0.84	0.0028	0.0000054	0.000072	0.001	0.45	0.000054	0.000011	0.64	0.015	0.000011	0.00011	0.000049	0.00059	0.0013
		October		0.000072	0.0011	0.83	0.0027	0.0000053	0.000069	0.001	0.45	0.000054	0.000011	0.64	0.015	0.000011	0.00011	0.000048	0.00059	0.0012
		November		0.000072	0.0011	0.83	0.0027	0.0000053	0.000069	0.001	0.45	0.000054	0.000011	0.64	0.015	0.000011	0.00011	0.000048	0.00059	0.0012
		December		0.000072	0.0011	0.83	0.0027	0.0000053	0.000069	0.001	0.45	0.000054	0.000011	0.64	0.015	0.000011	0.00011	0.000048	0.00059	0.0012
		January	2029	0.000072	0.0011	0.83	0.0027	0.0000053	0.000069	0.001	0.45	0.000054	0.000011	0.64	0.015	0.000011	0.00011	0.000048	0.00059	0.0012
		February		0.000072	0.0011	0.83	0.0027	0.0000053	0.000069	0.001	0.45	0.000054	0.000011	0.64	0.015	0.000011	0.00011	0.000048	0.00059	0.0012
		March		0.000072	0.0011	0.83	0.0027	0.0000053	0.000069	0.001	0.45	0.000054	0.000011	0.64	0.015	0.000011	0.00011	0.000048	0.00059	0.0012
		April		0.000072	0.0011	0.83	0.0027	0.0000053	0.000069	0.001	0.45	0.000054	0.000011	0.64	0.015	0.000011	0.00011	0.000048	0.00059	0.0012
		May		0.000072	0.0011	0.83	0.0027	0.0000053	0.000069	0.001	0.45	0.000054	0.000011	0.64	0.015	0.000011	0.00011	0.000048	0.00059	0.0012
		June		0.000076	0.0012	0.87	0.0028	0.0000057	0.00007	0.001	0.47	0.000057	0.000012	0.67	0.016	0.000012	0.00011	0.000049	0.00062	0.0013
		July		0.000073	0.0011	0.85	0.0027	0.0000055	0.000064	0.001	0.46	0.000055	0.000012	0.64	0.015	0.000011	0.00011	0.000046	0.0006	0.0013
		August		0.000073	0.0011	0.84	0.0026	0.0000054	0.000063	0.001	0.45	0.000055	0.000012	0.63	0.015	0.000011	0.00011	0.000046	0.0006	0.0013
		September		0.000072	0.0011	0.83	0.0026	0.0000054	0.000061	0.001	0.45	0.000054	0.000011	0.62	0.015	0.000011	0.00011	0.000045	0.00059	0.0013
		October		0.000072	0.0011	0.82	0.0026	0.0000053	0.00006	0.001	0.44	0.000054	0.000011	0.62	0.015	0.000011	0.00011	0.000045	0.00059	0.0012
		November		0.000072	0.0011	0.82	0.0026	0.0000053	0.00006	0.001	0.44	0.000054	0.000011	0.62	0.015	0.000011	0.00011	0.000045	0.00059	0.0012
		December		0.000072	0.0011	0.82	0.0026	0.0000053	0.00006	0.001	0.44	0.000054	0.000011	0.62	0.015	0.000011	0.00011	0.000045	0.00059	0.0012
		January	2030	0.000072	0.0011	0.82	0.0026	0.0000053	0.00006	0.001	0.44	0.000054	0.000011	0.62	0.015	0.000011	0.00011	0.000045	0.00059	0.0012
		February		0.000072	0.0011	0.82	0.0026	0.0000053	0.00006	0.001	0.44	0.000054	0.000011	0.62	0.015	0.000011	0.00011	0.000045	0.00059	0.0012
		March		0.000072	0.0011	0.82	0.0026	0.0000053	0.00006	0.001	0.44	0.000054	0.000011	0.62	0.015	0.000011	0.00011	0.000045	0.00059	0.0012
		April		0.000072	0.0011	0.82	0.0026	0.0000053	0.00006	0.001	0.44	0.000054	0.000011	0.62	0.015	0.000011	0.00011	0.000045	0.00059	0.0012
		May		0.000072	0.0011	0.82	0.0026	0.0000053	0.00006	0.001	0.44	0.000054	0.000011	0.62	0.015	0.000011	0.00011	0.000045	0.00059	0.0012
		June		0.000075	0.0011	0.87	0.0027	0.0000057	0.000062	0.001	0.47	0.000057	0.000012	0.65	0.016	0.000012	0.00011	0.000046	0.00062	0.0013
		July		0.000073	0.0011	0.84	0.0026	0.0000055	0.000059	0.001	0.45	0.000055	0.000012	0.63	0.015	0.000011	0.00011	0.000044	0.0006	0.0013
		August		0.000073	0.0011	0.83	0.0026	0.0000054	0.000058	0.001	0.45	0.000055	0.000012	0.62	0.015	0.000011	0.00011	0.000044	0.0006	0.0013
		September		0.000072	0.0011	0.83	0.0026	0.0000054	0.000057	0.001	0.45	0.000054	0.000011	0.62	0.015	0.000011	0.00011	0.000044	0.00059	0.0013
		October		0.000072	0.0011	0.82	0.0025	0.0000053	0.000056	0.001	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		November		0.000072	0.0011	0.82	0.0025	0.0000053	0.000056	0.001	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		December		0.000072	0.0011	0.82	0.0025	0.0000053	0.000056	0.001	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		January	2031	0.000072	0.0011	0.82	0.0025	0.0000053	0.000056	0.001	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		February		0.000072	0.0011	0.82	0.0025	0.0000053	0.000056	0.001	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		March		0.000072	0.0011	0.82	0.0025	0.0000053	0.000056	0.001	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		April		0.000072	0.0011	0.82	0.0025	0.0000053	0.000056	0.001	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		May		0.000072	0.0011	0.82	0.0025	0.0000053	0.000056	0.001	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		June		0.000075	0.0011	0.86	0.0026	0.0000057	0.000059	0.001	0.47	0.000057	0.000012	0.64	0.015	0.000012	0.00011	0.000045	0.00062	0.0013
		July		0.000073	0.0011	0.84	0.0026	0.0000055	0.000057	0.001	0.45	0.000055	0.000012	0.62	0.015	0.000011	0.00011	0.000044	0.0006	0.0013
		August		0.000073	0.0011	0.83	0.0026	0.0000054	0.000057	0.001	0.45	0.000054	0.000012	0.62	0.015	0.000011	0.00011	0.000044	0.0006	0.0013
		September		0.000072	0.0011	0.82	0.0025	0.0000054	0.000056	0.001	0.45	0.000054	0.000011	0.61	0.015	0.000011	0.00011	0.000044	0.00059	0.0013
		October		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		November		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		December		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		January	2032	0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		February		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		March		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		April		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		May		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		June		0.000075	0.0011	0.86	0.0026	0.0000057	0.000058	0.001	0.47	0.000057	0.000012	0.64	0.015	0.000012	0.00011	0.000045	0.00062	0.0013
		July		0.000073	0.0011	0.84	0.0026	0.0000055	0.000056	0.001	0.45	0.000055	0.000012	0.62	0.015	0.000011	0.00011	0.000044	0.0006	0.0013
		August		0.000073	0.0011	0.83	0.0025	0.0000054	0.000056	0.001	0.45	0.000054	0.000012	0.62	0.015	0.000011	0.00011	0.000044	0.0006	0.0013
		September		0.000072	0.0011	0.82	0.0025	0.0000054	0.000055	0.001	0.45	0.000054	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0013
		October		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		November		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		December		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012

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
CCME (CEQG-PAL [chronic][2] (mg/L)							120	0.12			2.93	0.01	0.1		*0.025*				1.5	0.00004				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	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	*Closure, fully flooded pit*	January	2033	11	0.00000079	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		February		11	0.00000079	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		March		11	0.00000079	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		April		11	0.00000079	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		May		11	0.00000079	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		June		12	0.00000062	5.2	2.9	0.031	1.5	0.0068	0.0063	0.003	0.022	0.00011	0.00045	0.005	0.000023	0.000056	0.011	0.0000058	2.3	0.00071	0.00015	0.00061	0.071
		July		12	0.00000042	5.0	2.8	0.03	1.5	0.0066	0.0062	0.003	0.022	0.00011	0.00044	0.0048	0.000022	0.000055	0.011	0.0000056	2.3	0.0007	0.00014	0.0006	0.071
		August		11	0.00000036	5.0	2.8	0.03	1.5	0.0065	0.0061	0.0029	0.022	0.00011	0.00044	0.0048	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.0006	0.071
		September		11	0.00000029	4.9	2.7	0.029	1.5	0.0064	0.0061	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.071
		October		11	0.00000026	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		November		11	0.00000026	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		December		11	0.00000026	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		January	2034	11	0.00000026	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		February		11	0.00000026	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		March		11	0.00000026	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		April		11	0.00000026	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		May		11	0.00000026	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		June		12	0.00000021	5.2	2.9	0.031	1.5	0.0068	0.0063	0.003	0.022	0.00011	0.00045	0.005	0.000023	0.000056	0.011	0.0000057	2.3	0.00071	0.00015	0.00061	0.071
		July		12	0.00000015	5.0	2.8	0.03	1.5	0.0065	0.0062	0.003	0.022	0.00011	0.00044	0.0048	0.000022	0.000055	0.011	0.0000056	2.3	0.0007	0.00014	0.0006	0.071
		August		11	0.00000013	5.0	2.8	0.03	1.5	0.0065	0.0061	0.0029	0.022	0.00011	0.00044	0.0048	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.0006	0.071
		September		11	0.0000001	4.9	2.7	0.029	1.5	0.0064	0.0061	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.071
		October		11	9.4E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		November		11	9.4E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		December		11	9.4E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		January	2035	11	9.4E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		February		11	9.4E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		March		11	9.4E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		April		11	9.4E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		May		11	9.4E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		June		12	7.7E-08	5.2	2.9	0.031	1.5	0.0068	0.0063	0.003	0.022	0.00011	0.00045	0.005	0.000023	0.000056	0.011	0.0000057	2.3	0.00071	0.00015	0.00061	0.071
		July		12	5.4E-08	5.0	2.8	0.03	1.5	0.0065	0.0061	0.003	0.022	0.00011	0.00044	0.0048	0.000022	0.000055	0.011	0.0000056	2.3	0.0007	0.00014	0.0006	0.071
		August		11	4.7E-08	5.0	2.8	0.03	1.5	0.0065	0.0061	0.0029	0.022	0.00011	0.00044	0.0048	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.0006	0.071
		September		11	3.9E-08	4.9	2.7	0.029	1.5	0.0064	0.0061	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.071
		October		11	3.5E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		November		11	3.5E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		December		11	3.5E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		January	2036	11	3.5E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		February		11	3.5E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		March		11	3.5E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		April		11	3.5E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		May		11	3.5E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		June		12	2.9E-08	5.2	2.9	0.031	1.5	0.0068	0.0063	0.003	0.022	0.00011	0.00045	0.005	0.000023	0.000056	0.011	0.0000057	2.3	0.00071	0.00015	0.00061	0.071
		July		12	2.0E-08	5.0	2.8	0.03	1.5	0.0065	0.0061	0.003	0.022	0.00011	0.00044	0.0048	0.000022	0.000055	0.011	0.0000056	2.3	0.0007	0.00014	0.0006	0.071
		August		11	1.7E-08	5.0	2.8	0.03	1.5	0.0065	0.0061	0.0029	0.022	0.00011	0.00044	0.0048	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.0006	0.071
		September		11	1.4E-08	4.9	2.7	0.029	1.5	0.0064	0.0061	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.071
		October		11	1.3E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		November		11	1.3E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		December		11	1.3E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		January	2037	11	1.3E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		February		11	1.3E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		March		11	1.3E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		April		11	1.3E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		May		11	1.3E-08	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		June		12	1.1E-08	5.2	2.9	0.031	1.5	0.0068	0.0063	0.003	0.022	0.00011	0.00045	0.005	0.000023	0.000056	0.011	0.0000057	2.3	0.00071	0.00015	0.00061	0.071
		July		12	0	5.0	2.8	0.03	1.5	0.0065	0.0061	0.003	0.022	0.00011	0.00044	0.0048	0.000022	0.000055	0.011	0.0000056	2.3	0.0007	0.00014	0.0006	0.071
		August		11	0	5.0	2.8	0.03	1.5	0.0065	0.0061	0.0029	0.022	0.00011	0.00044	0.0048	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.0006	0.071
		September		11	0	4.9	2.7	0.029	1.5	0.0064	0.0061	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.071
		October		11	0	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		November		11	0	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		December		11	0	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				0.05				0.004		0.25										0.1
CCME (CEQG-PAL [chronic])[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	2033	0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		February		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		March		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		April		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		May		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		June		0.000075	0.0011	0.86	0.0026	0.0000057	0.000058	0.001	0.47	0.000057	0.000012	0.64	0.015	0.000012	0.00011	0.000045	0.00062	0.0013
		July		0.000073	0.0011	0.84	0.0026	0.0000055	0.000056	0.001	0.45	0.000055	0.000012	0.62	0.015	0.000011	0.00011	0.000044	0.0006	0.0013
		August		0.000073	0.0011	0.83	0.0025	0.0000054	0.000056	0.001	0.45	0.000054	0.000012	0.62	0.015	0.000011	0.00011	0.000044	0.0006	0.0013
		September		0.000072	0.0011	0.82	0.0025	0.0000054	0.000055	0.001	0.45	0.000054	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0013
		October		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		November		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		December		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		January	2034	0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		February		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		March		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		April		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		May		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		June		0.000075	0.0011	0.86	0.0026	0.0000057	0.000058	0.001	0.47	0.000057	0.000012	0.64	0.015	0.000012	0.00011	0.000045	0.00062	0.0013
		July		0.000073	0.0011	0.84	0.0026	0.0000055	0.000056	0.001	0.45	0.000055	0.000012	0.62	0.015	0.000011	0.00011	0.000044	0.0006	0.0013
		August		0.000073	0.0011	0.83	0.0025	0.0000054	0.000056	0.001	0.45	0.000054	0.000012	0.62	0.015	0.000011	0.00011	0.000044	0.0006	0.0013
		September		0.000072	0.0011	0.82	0.0025	0.0000054	0.000055	0.001	0.45	0.000054	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0013
		October		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		November		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		December		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		January	2035	0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		February		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		March		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		April		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		May		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		June		0.000075	0.0011	0.86	0.0026	0.0000057	0.000058	0.001	0.47	0.000057	0.000012	0.64	0.015	0.000012	0.00011	0.000045	0.00062	0.0013
		July		0.000073	0.0011	0.84	0.0025	0.0000055	0.000056	0.001	0.45	0.000055	0.000012	0.62	0.015	0.000011	0.00011	0.000044	0.0006	0.0013
		August		0.000073	0.0011	0.83	0.0025	0.0000054	0.000056	0.001	0.45	0.000054	0.000012	0.62	0.015	0.000011	0.00011	0.000044	0.0006	0.0013
		September		0.000072	0.0011	0.82	0.0025	0.0000054	0.000055	0.001	0.45	0.000054	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0013
		October		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		November		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		December		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		January	2036	0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		February		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		March		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		April		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		May		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		June		0.000075	0.0011	0.86	0.0026	0.0000057	0.000058	0.001	0.47	0.000057	0.000012	0.64	0.015	0.000012	0.00011	0.000045	0.00062	0.0013
		July		0.000073	0.0011	0.84	0.0025	0.0000055	0.000056	0.001	0.45	0.000055	0.000012	0.62	0.015	0.000011	0.00011	0.000044	0.0006	0.0013
		August		0.000073	0.0011	0.83	0.0025	0.0000054	0.000056	0.001	0.45	0.000054	0.000012	0.62	0.015	0.000011	0.00011	0.000044	0.0006	0.0013
		September		0.000072	0.0011	0.82	0.0025	0.0000054	0.000055	0.001	0.45	0.000054	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0013
		October		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		November		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		December		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		January	2037	0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		February		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		March		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		April		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		May		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		June		0.000075	0.0011	0.86	0.0026	0.0000057	0.000058	0.001	0.47	0.000057	0.000012	0.64	0.015	0.000012	0.00011	0.000045	0.00062	0.0013
		July		0.000073	0.0011	0.84	0.0025	0.0000055	0.000056	0.001	0.45	0.000055	0.000012	0.62	0.015	0.000011	0.00011	0.000044	0.0006	0.0013
		August		0.000073	0.0011	0.83	0.0025	0.0000054	0.000056	0.001	0.45	0.000054	0.000012	0.62	0.015	0.000011	0.00011	0.000044	0.0006	0.0013
		September		0.000072	0.0011	0.82	0.0025	0.0000054	0.000055	0.001	0.45	0.000054	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0013
		October		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		November		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		December		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012

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
CCME (CEQG-PAL [chronic][2] (mg/L)							120	0.12			2.93	0.01	0.1		*0.025*				1.5	0.00004				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	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	*Closure, fully flooded pit, and Post Closure*	January	2038	11	0	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		February		11	0	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		March		11	0	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		April		11	0	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		May		11	0	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		June		12	0	5.2	2.9	0.031	1.5	0.0068	0.0063	0.003	0.022	0.00011	0.00045	0.005	0.000023	0.000056	0.011	0.0000057	2.3	0.00071	0.00015	0.00061	0.071
		July		12	0	5.0	2.8	0.03	1.5	0.0065	0.0061	0.003	0.022	0.00011	0.00044	0.0048	0.000022	0.000055	0.011	0.0000056	2.3	0.0007	0.00014	0.0006	0.071
		August		11	0	5.0	2.8	0.03	1.5	0.0065	0.0061	0.0029	0.022	0.00011	0.00044	0.0048	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.0006	0.071
		September		11	0	4.9	2.7	0.029	1.5	0.0064	0.0061	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000054	0.011	0.0000055	2.2	0.0007	0.00014	0.00059	0.071
		October		11	0	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		November		11	0	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		December		11	0	4.9	2.7	0.029	1.5	0.0064	0.006	0.0029	0.022	0.00011	0.00044	0.0047	0.000022	0.000053	0.011	0.0000054	2.2	0.0007	0.00014	0.00059	0.07
		January	≥2039	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	0.00059	0.07
		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	0.00059	0.07
		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	0.00059	0.07
		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	0.00059	0.07
		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	0.00059	0.07
		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	0.00061	0.071
		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	0.0006	0.071
		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	0.0006	0.071
		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	0.00059	0.071
		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	0.00059	0.07
		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	0.00059	0.07
		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	0.00059	0.07
			MINIMUM	11	0	4.9	2.7	0.029	1.5	0.0064	0.0056	0.0024	0.0001	0.00011	0.00044	0.0046	0.000021	0.000053	0.011	0.0000054	2.2	0.00011	0.00011	0.00059	0.07
			MAXIMUM	13	0.17	5.3	3.3	0.034	1.8	0.0084	0.013	0.0036	0.022	0.00015	0.00076	0.0051	0.000023	0.000056	0.012	0.0000059	2.4	0.00071	0.00015	0.00062	0.071
			AVERAGE	12	0.013	5.0	2.8	0.03	1.5	0.0066	0.0065	0.0029	0.02	0.00011	0.00047	0.0048	0.000022	0.000054	0.011	0.0000055	2.2	0.00066	0.00014	0.00059	0.071

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.

[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
CCME (CEQG-PAL [chronic])[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, and Post Closure*	January	2038	0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		February		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		March		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		April		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		May		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		June		0.000075	0.0011	0.86	0.0026	0.0000057	0.000058	0.001	0.47	0.000057	0.000012	0.64	0.015	0.000012	0.00011	0.000045	0.00062	0.0013
		July		0.000073	0.0011	0.84	0.0025	0.0000055	0.000056	0.001	0.45	0.000055	0.000012	0.62	0.015	0.000011	0.00011	0.000044	0.0006	0.0013
		August		0.000073	0.0011	0.83	0.0025	0.0000054	0.000056	0.001	0.45	0.000054	0.000012	0.62	0.015	0.000011	0.00011	0.000044	0.0006	0.0013
		September		0.000072	0.0011	0.82	0.0025	0.0000054	0.000055	0.001	0.45	0.000054	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0013
		October		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		November		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		December		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		January	≥2039	0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		February		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		March		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		April		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		May		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		June		0.000075	0.0011	0.86	0.0026	0.0000057	0.000058	0.001	0.47	0.000057	0.000012	0.64	0.015	0.000012	0.00011	0.000045	0.00062	0.0013
		July		0.000073	0.0011	0.84	0.0025	0.0000055	0.000056	0.001	0.45	0.000055	0.000012	0.62	0.015	0.000011	0.00011	0.000044	0.0006	0.0013
		August		0.000073	0.0011	0.83	0.0025	0.0000054	0.000056	0.001	0.45	0.000054	0.000012	0.62	0.015	0.000011	0.00011	0.000044	0.0006	0.0013
		September		0.000072	0.0011	0.82	0.0025	0.0000054	0.000055	0.001	0.45	0.000054	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0013
		October		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		November		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
		December		0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
			MINIMUM	0.000072	0.0011	0.82	0.0025	0.0000053	0.000055	0.0010	0.44	0.000053	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00059	0.0012
			MAXIMUM	0.000076	0.0012	0.9	0.0039	0.0000057	0.00014	0.001	0.5	0.000058	0.000012	0.74	0.016	0.000012	0.00011	0.000076	0.00062	0.0013
			AVERAGE	0.000072	0.0011	0.83	0.0026	0.0000054	0.000061	0.001	0.45	0.000054	0.000011	0.62	0.015	0.000011	0.00011	0.000045	0.00059	0.0013

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.

[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 Approved 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	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu
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	2018	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	2019	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		16	0.00051	5.4	5.2	0.026	2.1	0.0093	0.015	0.0091	0.12	0.00008	0.0017	0.0068	0.000018	0.000037	0.015	0.0000062	2.7	0.0032	0.00028	0.00065
		July		65	0.66	13	25	0.059	6.4	0.076	1.8	0.026	0.13	0.00021	0.0068	0.016	0.000025	0.000042	0.048	0.000015	8.5	0.0037	0.00048	0.00098
		August		125	0.063	26	58	0.1	11	0.08	0.19	0.047	0.16	0.00015	0.0034	0.032	0.000039	0.000057	0.11	0.000031	18	0.0045	0.00071	0.0015
		September		169	0.0041	34	80	0.13	15	0.11	0.075	0.047	0.15	0.00015	0.0032	0.042	0.000045	0.000059	0.15	0.000041	24	0.0045	0.00085	0.0018
		October		198	0.0032	39	94	0.15	18	0.12	0.086	0.041	0.27	0.00016	0.005	0.05	0.000051	0.00006	0.17	0.000048	28	0.0077	0.0011	0.0021
		November		83	3.4	9.6	3.3	0.064	9.7	0.3	12	0.014	0.33	0.00079	0.035	0.011	0.000032	0.000058	0.015	0.0000091	5.7	0.0089	0.00089	0.0014
		December		68	0.21	7.7	0.73	0.029	3.8	0.3	12	0.012	0.33	0.00016	0.0063	0.0074	0.000027	0.000053	0.01	0.000007	2.8	0.0087	0.00063	0.0008
		January	2020	67	0.0088	7.5	0.57	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0045	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087	0.00061	0.00076
		February		67	0.0004	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087	0.00061	0.00076
		March		67	0.00002	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087	0.00061	0.00076
		April		67	0.00000086	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087	0.00061	0.00076
		May		67	3.9E-08	7.5	0.56	0.027	3.4	0.3	12	0.012	0.33	0.00012	0.0044	0.0072	0.000027	0.000053	0.01	0.0000068	2.6	0.0087	0.00061	0.00076
		June		44	0.77	6.8	2.1	0.047	4.6	0.15	6.1	0.0083	0.17	0.00046	0.02	0.0077	0.000025	0.000051	0.012	0.0000068	3.2	0.0046	0.00045	0.0011
		July		122	1.9	29	40	0.11	18	0.084	1.9	0.044	0.16	0.0015	0.089	0.031	0.000038	0.000051	0.18	0.000031	16	0.0055	0.0013	0.0024
		August		124	1.9	30	39	0.11	19	0.091	2.3	0.043	0.16	0.0016	0.095	0.031	0.000038	0.000052	0.19	0.000031	16	0.0056	0.0013	0.0024
		September		109	0.97	25	38	0.09	14	0.089	2.2	0.04	0.16	0.00091	0.054	0.027	0.000035	0.00005	0.14	0.000026	14	0.0052	0.00097	0.0019
		October		198	0.059	40	87	0.15	18	0.14	1.7	0.05	0.33	0.00035	0.014	0.049	0.000061	0.000087	0.18	0.000048	27	0.0093	0.0013	0.0024
		November		215	0.0012	43	97	0.17	19	0.15	1.7	0.05	0.33	0.00023	0.0056	0.054	0.000064	0.000091	0.18	0.000051	29	0.0092	0.0013	0.0025
		December		214	0.00087	43	97	0.17	19	0.15	1.6	0.05	0.33	0.00022	0.0055	0.053	0.000064	0.000091	0.18	0.000051	29	0.0092	0.0013	0.0025
		January	2021	134	0.0011	28	58	0.12	12	0.11	1.3	0.05	0.33	0.00021	0.0051	0.035	0.000054	0.000089	0.11	0.000034	19	0.009	0.001	0.002
		February		122	0.0011	26	52	0.11	11	0.11	1.3	0.05	0.33	0.00021	0.005	0.033	0.000053	0.000089	0.1	0.000032	17	0.009	0.00099	0.0019
		March		122	0.0011	26	52	0.11	11	0.11	1.3	0.05	0.33	0.00021	0.005	0.033	0.000053	0.000089	0.1	0.000031	17	0.009	0.00099	0.0019
		April		121	0.0011	26	52	0.11	11	0.11	1.3	0.05	0.33	0.00021	0.005	0.032	0.000052	0.000089	0.1	0.000031	17	0.009	0.00098	0.0019
		May		123	0.0011	26	52	0.11	11	0.12	1.4	0.05	0.33	0.00021	0.005	0.033	0.000053	0.000089	0.1	0.000032	17	0.009	0.00099	0.0019
		June		51	0.57	12	13	0.048	6.5	0.08	2.6	0.018	0.16	0.00051	0.029	0.013	0.000025	0.000044	0.059	0.000013	6.0	0.0047	0.00062	0.0012
		July		80	2.2	22	17	0.08	16	0.077	2.3	0.027	0.16	0.0017	0.094	0.021	0.000031	0.000046	0.15	0.000021	10	0.0056	0.0012	0.0022
		August		81	2.1	23	17	0.079	16	0.076	2.3	0.027	0.16	0.0017	0.1	0.021	0.000032	0.000047	0.16	0.000021	10	0.0057	0.0013	0.0022
		September		64	1.1	17	16	0.06	10	0.074	2.2	0.023	0.16	0.001	0.062	0.016	0.000028	0.000044	0.1	0.000016	7.9	0.0051	0.00087	0.0016
		October		103	0.08	23	41	0.093	9.8	0.11	1.7	0.045	0.33	0.00037	0.017	0.027	0.000048	0.000082	0.10	0.000027	14	0.0091	0.00097	0.0019
		November		110	0.0037	23	46	0.1	9.8	0.11	1.5	0.049	0.33	0.00021	0.0055	0.029	0.000051	0.000087	0.091	0.000029	15	0.009	0.00094	0.0018
		December		113	0.002	24	47	0.1	10.0	0.12	1.7	0.05	0.33	0.0002	0.005	0.03	0.000051	0.000087	0.093	0.000029	16	0.009	0.00095	0.0018
		January	2022	106	0.0019	23	44	0.097	9.4	0.12	1.6	0.047	0.33	0.0002	0.0049	0.028	0.00005	0.000087	0.087	0.000028	15	0.0089	0.00093	0.0018
		February		104	0.0019	22	43	0.096	9.2	0.12	1.6	0.047	0.33	0.0002	0.0049	0.028	0.00005	0.000087	0.085	0.000027	14	0.0089	0.00092	0.0018
		March		104	0.0019	22	43	0.096	9.2	0.12	1.6	0.047	0.33	0.0002	0.0049	0.028	0.00005	0.000087	0.085	0.000027	14	0.0089	0.00092	0.0018
		April		105	0.0019	22	43	0.097	9.2	0.12	1.7	0.047	0.33	0.0002	0.0049	0.028	0.00005	0.000087	0.085	0.000027	14	0.0089	0.00092	0.0018
		May		105	0.0019	22	43	0.097	9.3	0.13	1.7	0.047	0.33	0.0002	0.0049	0.028	0.00005	0.000087	0.086	0.000027	14	0.0089	0.00093	0.0018
		June		48	0.75	11	11	0.047	6.4	0.084	2.7	0.017	0.16	0.00055	0.031	0.012	0.000024	0.000044	0.056	0.000012	5.5	0.0048	0.00062	0.0012
		July		72	2.7	20	14	0.075	14	0.076	2.2	0.024	0.16	0.0015	0.086	0.019	0.00003	0.000046	0.13	0.000019	9.2	0.0055	0.0012	0.0021
			MINIMUM	16	3.9E-08	5.4	0.56	0.026	2.1	0.0093	0.015	0.0083	0.12	0.00008	0.0017	0.0068	0.000018	0.000037	0.01	0.0000062	2.6	0.0032	0.00028	0.00065
			MAXIMUM	215	3.4	43	97	0.17	19	0.3	12	0.05	0.33	0.0017	0.1	0.054	0.000064	0.000091	0.19	0.000051	29	0.0093	0.0013	0.0025
			AVERAGE	104	0.51	21	36	0.086	10	0.14	3.6	0.034	0.26	0.00046	0.022	0.025	0.00004	0.000066	0.093	0.000024	13	0.0074	0.0009	0.0016

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 Approved 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	Li	Mg	Mn	Hg	Mo	Ni	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
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
		July		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
		September		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
		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	2019	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		0.26	0.00011	0.0011	1.1	0.01	0.0000035	0.00048	0.002	0.49	0.000049	0.000011	1.4	0.017	0.0000091	0.000092	0.00016	0.00066	0.0012
		July		0.32	0.00019	0.0024	3.4	0.04	0.0000045	0.0025	0.0043	1.2	0.00012	0.000016	5.5	0.066	0.000011	0.000088	0.00078	0.00074	0.0022
		August		0.37	0.00034	0.0047	7.4	0.078	0.0000046	0.0059	0.0039	1.8	0.0002	0.000018	13	0.15	0.000012	0.000096	0.0018	0.00087	0.0038
		September		0.36	0.00042	0.0061	9.9	0.11	0.0000043	0.0082	0.0043	2.3	0.00026	0.000018	18	0.2	0.000011	0.00009	0.0024	0.00083	0.0047
		October		0.61	0.00052	0.007	12	0.13	0.000004	0.0097	0.006	2.6	0.0003	0.000023	21	0.23	0.000013	0.000088	0.0029	0.0011	0.0055
		November		0.78	0.00025	0.0019	1.8	0.041	0.0000095	0.0007	0.014	2.3	0.00014	0.000037	1.2	0.022	0.000025	0.00017	0.00025	0.0016	0.0027
		December		0.7	0.00022	0.0013	1.5	0.015	0.0000053	0.00011	0.0051	0.87	0.00006	0.000022	0.56	0.012	0.000016	0.00012	0.00004	0.0014	0.0018
		January	2020	0.69	0.00022	0.0013	1.5	0.013	0.000005	0.000073	0.0046	0.78	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000027	0.0013	0.0018
		February		0.69	0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018
		March		0.69	0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018
		April		0.69	0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018
		May		0.69	0.00022	0.0013	1.5	0.013	0.000005	0.000072	0.0046	0.77	0.000055	0.000021	0.52	0.011	0.000016	0.00012	0.000026	0.0013	0.0018
		June		0.38	0.00016	0.0013	1.1	0.016	0.0000065	0.00028	0.0047	1.2	0.000093	0.000019	1.1	0.014	0.000015	0.00014	0.00017	0.0011	0.0017
		July		0.55	0.0006	0.0041	5.7	0.19	0.0000093	0.0046	0.013	3.5	0.00051	0.000035	12	0.11	0.00002	0.00015	0.0015	0.0015	0.0042
		August		0.57	0.00062	0.0041	5.7	0.18	0.0000095	0.0046	0.012	3.6	0.00055	0.000036	13	0.11	0.00002	0.00015	0.0015	0.0015	0.0043
		September		0.49	0.00045	0.0037	5.3	0.12	0.0000069	0.0042	0.008	2.5	0.00037	0.000027	11	0.1	0.000016	0.00012	0.0013	0.0012	0.0036
		October		0.74	0.00057	0.0072	11	0.13	0.0000072	0.0089	0.007	2.9	0.00035	0.000031	20	0.22	0.00002	0.00015	0.0027	0.0016	0.006
		November		0.72	0.00057	0.0078	12	0.13	0.0000071	0.0099	0.0069	2.9	0.00034	0.000031	21	0.25	0.00002	0.00015	0.0029	0.0016	0.0063
		December		0.72	0.00057	0.0078	12	0.13	0.0000071	0.0098	0.0069	2.9	0.00033	0.000031	21	0.25	0.00002	0.00015	0.0029	0.0016	0.0063
		January	2021	0.72	0.00043	0.0053	7.9	0.084	0.0000076	0.0058	0.0061	2.1	0.00023	0.00003	13	0.15	0.000021	0.00016	0.0017	0.0016	0.0047
		February		0.72	0.00041	0.005	7.2	0.077	0.0000077	0.0052	0.006	1.9	0.00022	0.000029	11	0.14	0.000021	0.00016	0.0016	0.0016	0.0045
		March		0.72	0.00041	0.005	7.2	0.076	0.0000077	0.0052	0.006	1.9	0.00022	0.000029	11	0.14	0.000021	0.00016	0.0015	0.0016	0.0045
		April		0.72	0.0004	0.0049	7.1	0.076	0.0000077	0.0051	0.006	1.9	0.00021	0.000029	11	0.14	0.000021	0.00016	0.0015	0.0016	0.0045
		May		0.72	0.00041	0.005	7.2	0.077	0.0000077	0.0052	0.006	1.9	0.00022	0.000029	11	0.14	0.000021	0.00016	0.0016	0.0016	0.0045
		June		0.43	0.00026	0.0019	2.2	0.057	0.0000055	0.0014	0.0054	1.3	0.00018	0.00002	4.0	0.04	0.000013	0.00011	0.00046	0.001	0.0021
		July		0.56	0.00055	0.0027	3.1	0.17	0.0000097	0.0023	0.013	3.2	0.0005	0.000036	7.7	0.058	0.00002	0.00015	0.00079	0.0015	0.0034
		August		0.57	0.00057	0.0027	3.1	0.16	0.000010	0.0022	0.013	3.3	0.00053	0.000037	7.9	0.058	0.000021	0.00016	0.00079	0.0016	0.0034
		September		0.5	0.00039	0.0023	2.7	0.097	0.0000072	0.0019	0.008	2.1	0.00033	0.000026	5.9	0.05	0.000016	0.00013	0.00063	0.0013	0.0027
		October		0.75	0.00041	0.0042	5.8	0.069	0.0000079	0.004	0.0062	1.9	0.00024	0.00003	9.5	0.11	0.000021	0.00016	0.0012	0.0017	0.0041
		November		0.72	0.00038	0.0045	6.4	0.068	0.0000078	0.0045	0.0059	1.8	0.0002	0.000029	10	0.12	0.000021	0.00016	0.0013	0.0016	0.0042
		December		0.71	0.00039	0.0046	6.6	0.069	0.0000077	0.0046	0.0059	1.8	0.0002	0.000029	10	0.13	0.000021	0.00016	0.0014	0.0016	0.0043
		January	2022	0.71	0.00037	0.0044	6.2	0.065	0.0000078	0.0043	0.0059	1.7	0.00019	0.000029	9.6	0.12	0.000021	0.00016	0.0013	0.0016	0.0041
		February		0.71	0.00037	0.0044	6.1	0.064	0.0000078	0.0042	0.0058	1.7	0.00019	0.000029	9.4	0.12	0.000021	0.00016	0.0013	0.0016	0.0041
		March		0.71	0.00037	0.0044	6.1	0.064	0.0000078	0.0042	0.0058	1.7	0.00019	0.000029	9.4	0.12	0.000021	0.00016	0.0013	0.0016	0.0041
		April		0.71	0.00037	0.0044	6.1	0.064	0.0000078	0.0042	0.0058	1.7	0.00019	0.000029	9.4	0.12	0.000021	0.00016	0.0013	0.0016	0.0041
		May		0.71	0.00037	0.0044	6.1	0.064	0.0000078	0.0042	0.0058	1.7	0.00019	0.000029	9.4	0.12	0.000021	0.00016	0.0013	0.0016	0.0041
		June		0.43	0.00025	0.0018	2.0	0.056	0.0000058	0.0012	0.0059	1.4	0.00019	0.000021	3.6	0.035	0.000014	0.00012	0.0004	0.001	0.0021
		July		0.56	0.0005	0.0025	2.8	0.15	0.0000098	0.002	0.014	3.0	0.00046	0.000037	6.7	0.051	0.000021	0.00015	0.00066	0.0015	0.0032
			MINIMUM	0.26	0.00011	0.0011	1.1	0.01	0.0000035	0.000072	0.002	0.49	0.000049	0.000011	0.52	0.011	0.0000091	0.000088	0.000026	0.00066	0.0012
			MAXIMUM	0.78	0.00062	0.0078	12	0.19	0.000010	0.0099	0.014	3.6	0.00055	0.000037	21	0.25	0.000025	0.00017	0.0029	0.0017	0.0063
			AVERAGE	0.62	0.00038	0.0037	5.3	0.079	0.0000069	0.0037	0.0068	1.9	0.00023	0.000027	8.7	0.099	0.000018	0.00014	0.0011	0.0014	0.0036

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 Approved 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
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12			2.93	0.01	0.1		*0.025*				1.5	0.00004				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	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	25	0	8.8	7.1	0.044	3.9	0.011	0.0087	0.0042	0.013	0.00017	0.00066	0.01	0.000034	0.000085	0.017	0.0000086	5.3	0.00021	0.00017	0.00088
		February		25	0	8.8	7.1	0.044	3.9	0.011	0.0087	0.0042	0.013	0.00017	0.00066	0.01	0.000034	0.000085	0.017	0.0000086	5.3	0.00021	0.00017	0.00088
		March		25	0	8.8	7.1	0.044	3.9	0.011	0.0087	0.0042	0.013	0.00017	0.00066	0.01	0.000034	0.000085	0.017	0.0000086	5.3	0.00021	0.00017	0.00088
		April		25	0	8.8	7.1	0.044	3.9	0.011	0.0087	0.0042	0.013	0.00017	0.00066	0.01	0.000034	0.000085	0.017	0.0000086	5.3	0.00021	0.00017	0.00088
		May		25	0	8.8	7.1	0.044	3.9	0.011	0.0087	0.0042	0.013	0.00017	0.00066	0.01	0.000034	0.000085	0.017	0.0000086	5.3	0.00021	0.00017	0.00088
		June		14	0.000025	5.3	3.6	0.031	2.0	0.0069	0.010	0.0088	**0.2**	0.00012	0.0028	0.0073	0.000026	0.000056	0.011	0.0000066	3.0	0.0053	0.00042	0.00086
		July		10	0.000065	4.0	2.4	0.025	1.3	0.0058	0.03	0.0098	**0.26**	0.0001	0.0034	0.0062	0.000022	0.000045	0.0086	0.0000057	2.1	0.0069	0.00049	0.00083
		August		11	0.000096	4.1	2.5	0.026	1.4	0.0059	0.03	0.0099	**0.26**	0.0001	0.0035	0.0063	0.000023	0.000046	0.0088	0.0000058	2.2	0.0069	0.00049	0.00084
		September		11	0.00016	4.2	2.5	0.026	1.4	0.0059	0.029	0.0099	**0.26**	0.0001	0.0035	0.0064	0.000023	0.000046	0.0089	0.0000058	2.2	0.0069	0.00049	0.00085
		October		18	0.00033	7.1	4.3	0.044	2.4	0.01	0.048	**0.017**	**0.43**	0.00018	0.0059	0.011	0.000039	0.000079	0.015	0.0000099	3.8	0.012	0.00083	0.0014
		November		18	0.00033	7.1	4.3	0.044	2.4	0.01	0.048	**0.017**	**0.43**	0.00018	0.0059	0.011	0.000039	0.000079	0.015	0.0000099	3.8	0.012	0.00083	0.0014
		December		18	0.00033	7.1	4.3	0.044	2.4	0.01	0.048	**0.017**	**0.43**	0.00018	0.0059	0.011	0.000039	0.000079	0.015	0.0000099	3.8	0.012	0.00083	0.0014
		January	2019	18	0.00033	7.1	4.3	0.044	2.4	0.01	0.048	**0.017**	**0.43**	0.00018	0.0059	0.011	0.000039	0.000079	0.015	0.0000099	3.8	0.012	0.00083	0.0014
		February		18	0.00033	7.1	4.3	0.044	2.4	0.01	0.048	**0.017**	**0.43**	0.00018	0.0059	0.011	0.000039	0.000079	0.015	0.0000099	3.8	0.012	0.00083	0.0014
		March		71	0.000032	10	33	0.045	6.2	0.023	0.051	0.0039	0.054	0.00011	0.001	0.032	0.000094	0.000053	0.01	0.0000055	19	0.0012	0.00017	0.00064
		April		77	0	11	36	0.045	6.6	0.024	0.051	0.0025	0.013	0.00010	0.00049	0.034	0.00010	0.00005	0.010	0.000005	20	0.00010	0.00010	0.00055
		May		77	0	11	36	0.045	6.6	0.024	0.051	0.0025	0.013	0.00010	0.00049	0.034	0.00010	0.00005	0.010	0.000005	20	0.00010	0.00010	0.00055
		June		55	0.000010	7.9	25	0.034	4.8	0.018	0.036	0.0021	0.013	0.000078	0.0004	0.025	0.000072	0.000039	0.0079	0.0000039	14	0.00015	0.000082	0.00043
		July		41	0.016	6.4	19	0.028	3.7	0.015	0.071	0.0035	0.022	0.000069	0.0006	0.018	0.00005	0.000033	0.0093	0.000004	10	0.00047	0.000099	0.0004
		August		48	0.1	8.0	21	0.035	4.4	0.026	0.3	0.0076	0.04	0.000096	0.0017	0.018	0.000048	0.000036	0.018	0.0000064	11	0.00099	0.00017	0.00052
		September		63	0.23	11	27	0.048	5.9	0.041	0.53	**0.013**	0.063	0.00014	0.0037	0.021	0.000047	0.00004	0.033	0.0000011	12	0.0017	0.00028	0.00072
		October		130	0.57	24	56	0.1	12	0.095	1.3	**0.028**	**0.15**	0.00028	0.0084	0.039	0.000075	0.000071	0.081	0.000025	22	0.0041	0.00065	0.0015
		November		117	0.54	22	50	0.097	11	0.089	1.2	**0.027**	**0.16**	0.00028	0.0079	0.034	0.000067	0.000075	0.078	0.000024	19	0.0043	0.00065	0.0015
		December		104	0.43	21	44	0.092	10.0	0.079	1.0	**0.024**	**0.15**	0.00026	0.0067	0.031	0.000062	0.000079	0.071	0.000023	17	0.004	0.00061	0.0015
		January	2020	102	0.42	21	43	0.091	9.8	0.078	0.99	**0.024**	**0.15**	0.00026	0.0066	0.03	0.000061	0.000079	0.071	0.000022	17	0.004	0.0006	0.0015
		February		102	0.42	21	43	0.091	9.8	0.078	1.0	**0.024**	**0.15**	0.00026	0.0066	0.03	0.000061	0.000079	0.071	0.000022	17	0.004	0.0006	0.0015
		March		102	0.42	21	43	0.091	9.8	0.079	1.0	**0.024**	**0.15**	0.00026	0.0066	0.03	0.000061	0.000079	0.071	0.000022	17	0.004	0.0006	0.0015
		April		102	0.42	21	43	0.091	9.8	0.079	1.0	**0.024**	**0.15**	0.00026	0.0066	0.03	0.000061	0.000079	0.071	0.000022	17	0.004	0.0006	0.0015
		May		102	0.42	21	43	0.091	9.8	0.079	1.0	**0.024**	**0.15**	0.00026	0.0066	0.03	0.000061	0.000079	0.071	0.000022	17	0.004	0.0006	0.0015
		June		70	0.25	15	29	0.065	6.8	0.057	0.79	**0.017**	**0.11**	0.00019	0.0047	0.02	0.000042	0.00006	0.05	0.000016	11	0.0029	0.00043	0.0011
		July		49	0.17	11	20	0.048	4.9	0.042	0.54	**0.013**	0.081	0.00017	0.0052	0.014	0.000027	0.000046	0.04	0.000012	7.5	0.0022	0.00034	0.00082
		August		53	0.26	12	21	0.052	5.8	0.044	0.61	**0.015**	0.085	0.00025	0.01	0.015	0.000028	0.000047	0.049	0.000013	7.9	0.0024	0.0004	0.00092
		September		55	0.3	13	21	0.054	6.2	0.045	0.64	**0.016**	0.086	0.00029	0.013	0.015	0.000028	0.000047	0.054	0.000014	8.1	0.0024	0.00043	0.00097
		October		96	0.49	22	37	0.092	11	0.077	1.1	**0.028**	**0.15**	0.00049	0.023	0.026	0.000047	0.00008	0.094	0.000024	14	0.0042	0.00073	0.0017
		November		100	0.46	23	40	0.095	11	0.08	1.1	**0.029**	**0.16**	0.00047	0.021	0.027	0.000048	0.00008	0.097	0.000025	15	0.0044	0.00075	0.0017
		December		105	0.43	23	42	0.098	11	0.082	1.1	**0.03**	**0.16**	0.00046	0.02	0.028	0.000048	0.000081	0.10	0.000026	15	0.0046	0.00077	0.0017
		January	2021	107	0.4	24	43	0.099	11	0.084	1.1	**0.03**	**0.17**	0.00044	0.019	0.029	0.000049	0.000082	0.1	0.000027	15	0.0047	0.00078	0.0017
		February		107	0.37	24	44	0.10	11	0.085	1.1	**0.031**	**0.17**	0.00042	0.018	0.029	0.000049	0.000082	0.1	0.000027	15	0.0048	0.00078	0.0017
		March		107	0.35	24	44	0.10	11	0.086	1.0	**0.031**	**0.18**	0.00041	0.017	0.029	0.000049	0.000082	0.1	0.000027	15	0.0049	0.00078	0.0017
		April		107	0.32	24	44	0.10	11	0.087	1.0	**0.032**	**0.18**	0.00039	0.016	0.029	0.000049	0.000083	0.099	0.000027	15	0.005	0.00078	0.0017
		May		107	0.3	24	44	0.10	11	0.088	1.0	**0.032**	**0.19**	0.00038	0.015	0.029	0.000049	0.000083	0.099	0.000027	15	0.0051	0.00078	0.0017
		June		72	0.19	16	29	0.069	7.3	0.063	0.7	**0.022**	**0.13**	0.00026	0.010	0.019	0.000034	0.000061	0.066	0.000019	10	0.0035	0.00053	0.0012
		July		49	0.18	11	19	0.049	5.2	0.047	0.57	**0.015**	0.087	0.00022	0.0092	0.013	0.000025	0.000046	0.047	0.000013	7.0	0.0024	0.00038	0.00088
		August		50	0.28	12	19	0.05	5.8	0.048	0.63	**0.015**	0.088	0.0003	0.014	0.014	0.000025	0.000046	0.053	0.000013	7.1	0.0025	0.00043	0.00095
		September		49	0.32	12	18	0.05	5.9	0.048	0.65	**0.015**	0.087	0.00034	0.016	0.013	0.000025	0.000046	0.054	0.000013	7.0	0.0025	0.00044	0.00098
		October		82	0.53	20	30	0.083	9.8	0.081	1.1	**0.025**	**0.15**	0.00057	**0.027**	0.022	0.000042	0.000078	0.09	0.000022	12	0.0042	0.00073	0.0016
		November		82	0.49	20	30	0.084	9.7	0.082	1.1	**0.026**	**0.15**	0.00055	**0.026**	0.022	0.000042	0.000079	0.09	0.000022	12	0.0044	0.00073	0.0016
		December		83	0.46	20	31	0.084	9.6	0.084	1.1	**0.027**	**0.16**	0.00052	0.024	0.023	0.000043	0.000079	0.089	0.000022	12	0.0045	0.00073	0.0016
		January	2022	84	0.43	20	31	0.084	9.5	0.085	1.1	**0.028**	**0.16**	0.0005	0.023	0.023	0.000043	0.00008	0.088	0.000023	12	0.0046	0.00073	0.0016
		February		84	0.4	20	32	0.085	9.5	0.087	1.1	**0.028**	**0.17**	0.00048	0.022	0.023	0.000043	0.00008	0.087	0.000023	12	0.0047	0.00073	0.0016
		March		84	0.37	20	32	0.085	9.4	0.088	1.1	**0.029**	**0.17**	0.00046	0.02	0.023	0.000043	0.000081	0.087	0.000023	12	0.0048	0.00073	0.0016
		April		85	0.35	20	32	0.085	9.3	0.09	1.1	**0.029**	**0.18**	0.00044	0.019	0.023	0.000044	0.000081	0.086	0.000023	12	0.0049	0.00073	0.0016
		May		85	0.33	20	33	0.085	9.2	0.091	1.1	**0.03**	**0.18**	0.00043	0.018	0.023	0.000044	0.000081	0.085	0.000023	12	0.005	0.00073	0.0016
		June		58	0.21	14	22	0.06	6.3	0.067	0.75	**0.02**	**0.12**	0.00029	0.011	0.016	0.000031	0.00006	0.057	0.000016	8.3	0.0033	0.00049	0.0011
		July		40	0.23	9.8	15	0.043	4.6	0.05	0.6	**0.013**	0.081	0.00024	0.01	0.011	0.000023	0.000045	0.041	0.000011	5.8	0.0022	0.00036	0.00084
			MINIMUM	10	0.000010	4.0	2.4	0.025	1.3	0.0058	0.0087	0.0021	0.013	0.000069	0.0004	0.0062	0.000022	0.000033	0.0079	0.0000039	2.1	0.00010	0.000082	0.0004
			MAXIMUM	130	0.57	24	56	0.1	12	0.095	1.3	**0.032**	**0.43**	0.00057	**0.027**	0.039	0.00010	0.000085	0.1	0.000027	22	0.012	0.00083	0.0017
			AVERAGE	66	0.27	15	26	0.065	6.9	0.051	0.61	**0.018**	**0.15**	0.00027	0.0099	0.02	0.000045	0.000068	0.052	0.000016	11	0.0041	0.00053	0.0012

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1.0	0.05				0.004		0.25										0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	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	2018	0.028	0.00013	0.0018	1.6	0.0041	0.0000085	0.000095	0.0014	1.0	0.000085	0.000017	1.0	0.034	0.000017	0.00017	0.000041	0.00085	0.0051
		February		0.028	0.00013	0.0018	1.6	0.0041	0.0000085	0.000095	0.0014	1.0	0.000085	0.000017	1.0	0.034	0.000017	0.00017	0.000041	0.00085	0.0051
		March		0.028	0.00013	0.0018	1.6	0.0041	0.0000085	0.000095	0.0014	1.0	0.000085	0.000017	1.0	0.034	0.000017	0.00017	0.000041	0.00085	0.0051
		April		0.028	0.00013	0.0018	1.6	0.0041	0.0000085	0.000095	0.0014	1.0	0.000085	0.000017	1.0	0.034	0.000017	0.00017	0.000041	0.00085	0.0051
		May		0.028	0.00013	0.0018	1.6	0.0041	0.0000085	0.000095	0.0014	1.0	0.000085	0.000017	1.0	0.034	0.000017	0.00017	0.000041	0.00085	0.0051
		June		0.43	0.00015	0.0013	1.1	0.009	0.0000055	0.00007	0.0032	0.64	0.000058	0.000018	0.64	0.019	0.000014	0.00011	0.000043	0.0011	0.0025
		July		0.55	0.00015	0.0011	0.98	0.011	0.0000043	0.000059	0.0038	0.5	0.000047	0.000017	0.49	0.014	0.000013	0.000092	0.000043	0.0011	0.0017
		August		0.56	0.00016	0.0011	0.99	0.011	0.0000044	0.00006	0.0038	0.51	0.000048	0.000018	0.5	0.014	0.000013	0.000093	0.000044	0.0011	0.0017
		September		0.55	0.00016	0.0011	1.0	0.011	0.0000045	0.000061	0.0038	0.52	0.000048	0.000018	0.51	0.014	0.000013	0.000094	0.000045	0.0011	0.0018
		October		0.93	0.00027	0.0019	1.7	0.018	0.0000076	0.0001	0.0064	0.89	0.000082	0.00003	0.88	0.024	0.000022	0.00016	0.000076	0.0019	0.003
		November		0.93	0.00027	0.0019	1.7	0.018	0.0000076	0.0001	0.0064	0.89	0.000082	0.00003	0.88	0.024	0.000022	0.00016	0.000076	0.0019	0.003
		December		0.93	0.00027	0.0019	1.7	0.018	0.0000076	0.0001	0.0064	0.89	0.000082	0.00003	0.88	0.024	0.000022	0.00016	0.000076	0.0019	0.003
		January	2019	0.93	0.00027	0.0019	1.7	0.018	0.0000076	0.0001	0.0064	0.89	0.000082	0.00003	0.88	0.024	0.000022	0.00016	0.000076	0.0019	0.003
		February		0.93	0.00027	0.0019	1.7	0.018	0.0000076	0.0001	0.0064	0.89	0.000082	0.00003	0.88	0.024	0.000022	0.00016	0.000076	0.0019	0.003
		March		0.099	0.000071	0.007	3.1	0.0033	0.0000053	0.00038	0.0024	2.4	0.000053	0.000012	1.7	0.17	0.000011	0.00011	0.000045	0.00063	0.003
		April		0.010	0.00005	0.0076	3.3	0.0018	0.000005	0.00041	0.002	2.6	0.00005	0.000010	1.8	0.18	0.000010	0.00010	0.000042	0.0005	0.003
		May		0.010	0.00005	0.0076	3.3	0.0018	0.000005	0.00041	0.002	2.6	0.00005	0.000010	1.8	0.18	0.000010	0.00010	0.000042	0.0005	0.003
		June		0.014	0.000042	0.0054	2.4	0.0016	0.0000039	0.0003	0.0015	1.9	0.000039	0.0000079	1.3	0.13	0.0000078	0.000078	0.000034	0.00039	0.0023
		July		0.04	0.000048	0.0038	1.9	0.0038	0.0000032	0.00037	0.0013	1.3	0.000037	0.0000071	1.3	0.091	0.0000067	0.000066	0.000075	0.00036	0.0019
		August		0.084	0.000077	0.0038	2.3	0.011	0.0000036	0.00082	0.0018	1.4	0.000054	0.0000088	2.2	0.093	0.0000077	0.000072	0.00022	0.00044	0.0021
		September		0.14	0.00012	0.0039	3.2	0.023	0.000004	0.0017	0.0026	1.5	0.000083	0.000011	3.9	0.1	0.0000089	0.00008	0.00048	0.00053	0.0024
		October		0.34	0.00029	0.0068	6.8	0.062	0.000007	0.0043	0.0056	2.7	0.00018	0.000022	9.7	0.19	0.000016	0.00014	0.0013	0.001	0.0047
		November		0.36	0.00029	0.006	6.2	0.059	0.0000073	0.004	0.0054	2.4	0.00018	0.000023	9.1	0.16	0.000017	0.00015	0.0012	0.0011	0.0049
		December		0.34	0.00028	0.0053	5.6	0.053	0.0000077	0.0036	0.0049	2.2	0.00017	0.000023	8.1	0.14	0.000018	0.00015	0.0011	0.0011	0.005
		January	2020	0.34	0.00027	0.0053	5.6	0.052	0.0000077	0.0035	0.0048	2.1	0.00017	0.000023	8.0	0.14	0.000018	0.00015	0.001	0.0011	0.0051
		February		0.34	0.00027	0.0053	5.6	0.052	0.0000077	0.0035	0.0048	2.1	0.00017	0.000023	8.0	0.14	0.000018	0.00015	0.001	0.0011	0.0051
		March		0.34	0.00027	0.0053	5.5	0.052	0.0000077	0.0035	0.0048	2.1	0.00017	0.000023	8.0	0.14	0.000018	0.00015	0.001	0.0011	0.0051
		April		0.34	0.00027	0.0053	5.5	0.052	0.0000077	0.0035	0.0048	2.1	0.00017	0.000023	8.0	0.14	0.000018	0.00015	0.001	0.0011	0.005
		May		0.34	0.00027	0.0053	5.5	0.052	0.0000077	0.0035	0.0048	2.1	0.00017	0.000023	8.0	0.14	0.000018	0.00015	0.001	0.0011	0.005
		June		0.24	0.0002	0.0035	3.8	0.036	0.0000058	0.0024	0.0033	1.4	0.00012	0.000017	5.6	0.091	0.000013	0.00012	0.00073	0.00083	0.0037
		July		0.18	0.00016	0.0023	2.7	0.03	0.0000045	0.0018	0.0025	1.0	0.0001	0.000013	4.2	0.06	0.00001	0.00009	0.00054	0.00064	0.0028
		August		0.21	0.00019	0.0024	2.9	0.039	0.0000048	0.002	0.003	1.1	0.00013	0.000014	4.7	0.062	0.000011	0.000095	0.0006	0.00069	0.003
		September		0.22	0.0002	0.0024	3.0	0.044	0.000005	0.002	0.0033	1.2	0.00014	0.000015	5.0	0.063	0.000011	0.000097	0.00063	0.00072	0.003
		October		0.37	0.00035	0.0041	5.2	0.076	0.0000084	0.0036	0.0056	2.1	0.00025	0.000026	8.7	0.11	0.000019	0.00016	0.0011	0.0012	0.0051
		November		0.38	0.00036	0.0043	5.5	0.078	0.0000084	0.0038	0.0056	2.1	0.00025	0.000026	9.1	0.11	0.000019	0.00016	0.0012	0.0012	0.0052
		December		0.4	0.00036	0.0044	5.8	0.079	0.0000083	0.0041	0.0056	2.1	0.00025	0.000026	9.6	0.12	0.000019	0.00016	0.0012	0.0012	0.0052
		January	2021	0.41	0.00037	0.0045	5.9	0.08	0.0000083	0.0042	0.0055	2.1	0.00025	0.000026	9.9	0.12	0.000019	0.00016	0.0013	0.0013	0.0053
		February		0.41	0.00037	0.0045	6.0	0.079	0.0000082	0.0042	0.0055	2.1	0.00025	0.000026	9.9	0.12	0.000019	0.00016	0.0013	0.0013	0.0053
		March		0.42	0.00036	0.0045	6.0	0.078	0.0000082	0.0043	0.0055	2.1	0.00024	0.000026	9.9	0.12	0.000019	0.00016	0.0013	0.0013	0.0052
		April		0.43	0.00036	0.0045	6.0	0.077	0.0000082	0.0043	0.0054	2.0	0.00024	0.000026	9.9	0.12	0.000019	0.00016	0.0013	0.0013	0.0052
		May		0.43	0.00036	0.0045	6.0	0.076	0.0000082	0.0043	0.0054	2.0	0.00024	0.000026	9.9	0.12	0.000019	0.00016	0.0013	0.0013	0.0052
		June		0.29	0.00025	0.0031	4.1	0.051	0.000006	0.0028	0.0036	1.4	0.00016	0.000018	6.6	0.082	0.000014	0.00012	0.00086	0.00092	0.0038
		July		0.21	0.00018	0.0021	2.7	0.037	0.0000046	0.0018	0.0028	1.0	0.00012	0.000014	4.4	0.055	0.00001	0.000092	0.00057	0.00068	0.0028
		August		0.22	0.0002	0.0021	2.7	0.043	0.000005	0.0018	0.0033	1.1	0.00014	0.000015	4.6	0.054	0.000011	0.000096	0.00057	0.00073	0.0029
		September		0.22	0.00021	0.0021	2.7	0.046	0.0000051	0.0018	0.0035	1.2	0.00015	0.000015	4.5	0.053	0.000011	0.000098	0.00056	0.00075	0.0029
		October		0.38	0.00035	0.0035	4.4	0.075	0.0000086	0.0029	0.0058	1.9	0.00025	0.000026	7.5	0.087	0.000019	0.00017	0.00092	0.0013	0.0048
		November		0.39	0.00035	0.0035	4.5	0.074	0.0000086	0.003	0.0057	1.9	0.00025	0.000026	7.5	0.088	0.000019	0.00017	0.00093	0.0013	0.0048
		December		0.4	0.00034	0.0036	4.5	0.073	0.0000085	0.003	0.0056	1.9	0.00024	0.000026	7.6	0.089	0.000019	0.00016	0.00094	0.0013	0.0048
		January	2022	0.41	0.00034	0.0036	4.6	0.071	0.0000085	0.0031	0.0055	1.9	0.00024	0.000026	7.7	0.09	0.000019	0.00016	0.00096	0.0013	0.0048
		February		0.41	0.00034	0.0036	4.6	0.07	0.0000084	0.0031	0.0055	1.8	0.00024	0.000026	7.7	0.091	0.000019	0.00016	0.00096	0.0013	0.0048
		March		0.42	0.00034	0.0036	4.7	0.069	0.0000084	0.0031	0.0054	1.8	0.00023	0.000026	7.7	0.092	0.000019	0.00016	0.00097	0.0013	0.0048
		April		0.42	0.00034	0.0036	4.7	0.068	0.0000084	0.0032	0.0053	1.8	0.00023	0.000026	7.7	0.093	0.000019	0.00016	0.00098	0.0013	0.0048
		May		0.43	0.00034	0.0037	4.8	0.067	0.0000083	0.0032	0.0053	1.8	0.00022	0.000026	7.8	0.093	0.000019	0.00016	0.00098	0.0013	0.0048
		June		0.28	0.00023	0.0026	3.3	0.044	0.0000061	0.0021	0.0035	1.2	0.00015	0.000018	5.2	0.064	0.000014	0.00012	0.00066	0.00092	0.0035
		July		0.2	0.00017	0.0018	2.2	0.033	0.0000047	0.0014	0.0028	0.92	0.00012	0.000014	3.5	0.043	0.000011	0.000093	0.00044	0.00068	0.0026
			MINIMUM	0.010	0.000042	0.0011	0.98	0.0016	0.0000032	0.000059	0.0013	0.5	0.000037	0.0000071	0.49	0.014	0.0000067	0.000066	0.000034	0.00036	0.0017
			MAXIMUM	0.93	0.00037	0.0076	6.8	0.08	0.0000086	0.0043	0.0064	2.7	0.00025	0.00003	9.9	0.19	0.000022	0.00017	0.0013	0.0019	0.0053
			AVERAGE	0.34	0.00023	0.0035	3.6	0.04	0.0000068	0.002	0.0041	1.6	0.00015	0.00002	5.1	0.087	0.000016	0.00014	0.00062	0.0011	0.0039

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1400							16		0.3	0.5		0.1					0.002		0.02		0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12				2.93	0.01	0.1		*0.025*				1.5	0.00004				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	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*	August	2022	41	0.31	10	15	0.044	4.9	0.051	0.64	0.013	0.083	0.00028	0.013	0.011	0.000023	0.000045	0.044	0.000011	5.9	0.0023	0.00039	0.00088
		September		41	0.31	10	14	0.044	4.9	0.05	0.63	0.013	0.082	0.00028	0.012	0.011	0.000023	0.000046	0.044	0.000011	5.9	0.0023	0.00038	0.00088
		October		69	0.51	17	24	0.074	8.2	0.083	1.0	0.022	0.14	0.00047	0.021	0.019	0.00004	0.000078	0.073	0.000019	9.9	0.0038	0.00064	0.0015
		November		69	0.51	17	24	0.074	8.2	0.083	1.0	0.022	0.14	0.00047	0.021	0.019	0.00004	0.000078	0.073	0.000019	9.9	0.0038	0.00064	0.0015
		December		69	0.51	17	24	0.074	8.2	0.083	1.0	0.022	0.14	0.00047	0.021	0.019	0.00004	0.000078	0.073	0.000019	9.9	0.0038	0.00064	0.0015
		January	2023	69	0.51	17	24	0.074	8.2	0.083	1.0	0.022	0.14	0.00047	0.021	0.019	0.00004	0.000078	0.073	0.000019	9.9	0.0038	0.00064	0.0015
		February		69	0.51	17	24	0.074	8.2	0.083	1.0	0.022	0.14	0.00047	0.021	0.019	0.00004	0.000078	0.073	0.000019	9.9	0.0038	0.00064	0.0015
		March		69	0.51	17	24	0.074	8.2	0.083	1.0	0.022	0.14	0.00047	0.021	0.019	0.00004	0.000078	0.073	0.000019	9.9	0.0038	0.00064	0.0015
		April		69	0.51	17	24	0.074	8.2	0.083	1.0	0.022	0.14	0.00047	0.021	0.019	0.00004	0.000078	0.073	0.000019	9.9	0.0038	0.00064	0.0015
		May		69	0.51	17	24	0.074	8.2	0.083	1.0	0.022	0.14	0.00047	0.021	0.019	0.00004	0.000078	0.073	0.000019	9.9	0.0038	0.00064	0.0015
		June		50	0.37	12	17	0.054	6.0	0.06	0.75	0.016	0.097	0.00034	0.015	0.014	0.000029	0.000058	0.053	0.000014	7.2	0.0027	0.00046	0.0011
		July		36	0.26	9.2	13	0.04	4.4	0.043	0.53	0.011	0.07	0.00025	0.011	0.01	0.000022	0.000045	0.038	0.00001	5.3	0.0019	0.00033	0.00081
		August		37	0.26	9.3	13	0.041	4.4	0.043	0.53	0.012	0.07	0.00025	0.011	0.01	0.000022	0.000046	0.038	0.00001	5.4	0.0019	0.00033	0.00081
		September		36	0.25	9.2	13	0.041	4.4	0.042	0.52	0.011	0.069	0.00025	0.01	0.01	0.000023	0.000046	0.038	0.00001	5.3	0.0019	0.00033	0.00081
		October		61	0.42	16	21	0.068	7.4	0.07	0.87	0.019	0.11	0.00042	0.017	0.017	0.000038	0.000078	0.063	0.000017	9.0	0.0032	0.00055	0.0014
		November		61	0.42	16	21	0.068	7.4	0.07	0.87	0.019	0.11	0.00042	0.017	0.017	0.000038	0.000078	0.063	0.000017	9.0	0.0032	0.00055	0.0014
		December		61	0.42	16	21	0.068	7.4	0.07	0.87	0.019	0.11	0.00042	0.017	0.017	0.000038	0.000078	0.063	0.000017	9.0	0.0032	0.00055	0.0014
		January	2024	61	0.42	16	21	0.068	7.4	0.07	0.87	0.019	0.11	0.00042	0.017	0.017	0.000038	0.000078	0.063	0.000017	9.0	0.0032	0.00055	0.0014
		February		61	0.42	16	21	0.068	7.4	0.07	0.87	0.019	0.11	0.00042	0.017	0.017	0.000038	0.000078	0.063	0.000017	9.0	0.0032	0.00055	0.0014
		March		61	0.42	16	21	0.068	7.4	0.07	0.87	0.019	0.11	0.00042	0.017	0.017	0.000038	0.000078	0.063	0.000017	9.0	0.0032	0.00055	0.0014
		April		61	0.42	16	21	0.068	7.4	0.07	0.87	0.019	0.11	0.00042	0.017	0.017	0.000038	0.000078	0.063	0.000017	9.0	0.0032	0.00055	0.0014
		May		61	0.42	16	21	0.068	7.4	0.07	0.87	0.019	0.11	0.00042	0.017	0.017	0.000038	0.000078	0.063	0.000017	9.0	0.0032	0.00055	0.0014
		June		44	0.3	11	15	0.05	5.4	0.051	0.62	0.014	0.082	0.0003	0.012	0.013	0.000028	0.000058	0.046	0.000012	6.6	0.0023	0.0004	0.001
		July		32	0.21	8.4	11	0.037	4.0	0.036	0.44	0.0099	0.059	0.00022	0.0088	0.0095	0.000021	0.000045	0.033	0.0000092	4.9	0.0016	0.00029	0.00075
		August		33	0.21	8.5	11	0.038	4.0	0.036	0.44	0.0099	0.059	0.00022	0.0088	0.0095	0.000022	0.000046	0.033	0.0000092	4.9	0.0016	0.00029	0.00075
		September		32	0.21	8.5	11	0.038	4.0	0.036	0.43	0.0098	0.058	0.00022	0.0086	0.0095	0.000022	0.000046	0.033	0.0000092	4.9	0.0016	0.00029	0.00075
		October		54	0.35	14	19	0.064	6.8	0.06	0.72	0.016	0.097	0.00037	0.014	0.016	0.000037	0.000078	0.055	0.000015	8.3	0.0027	0.00048	0.0013
		November		54	0.35	14	19	0.064	6.8	0.06	0.72	0.016	0.097	0.00037	0.014	0.016	0.000037	0.000078	0.055	0.000015	8.3	0.0027	0.00048	0.0013
		December		54	0.35	14	19	0.064	6.8	0.06	0.72	0.016	0.097	0.00037	0.014	0.016	0.000037	0.000078	0.055	0.000015	8.3	0.0027	0.00048	0.0013
		January	2025	54	0.35	14	19	0.064	6.8	0.06	0.72	0.016	0.097	0.00037	0.014	0.016	0.000037	0.000078	0.055	0.000015	8.3	0.0027	0.00048	0.0013
		February		54	0.35	14	19	0.064	6.8	0.06	0.72	0.016	0.097	0.00037	0.014	0.016	0.000037	0.000078	0.055	0.000015	8.3	0.0027	0.00048	0.0013
		March		54	0.35	14	19	0.064	6.8	0.06	0.72	0.016	0.097	0.00037	0.014	0.016	0.000037	0.000078	0.055	0.000015	8.3	0.0027	0.00048	0.0013
		April		54	0.35	14	19	0.064	6.8	0.06	0.72	0.016	0.097	0.00037	0.014	0.016	0.000037	0.000078	0.055	0.000015	8.3	0.0027	0.00048	0.0013
		May		54	0.35	14	19	0.064	6.8	0.06	0.72	0.016	0.097	0.00037	0.014	0.016	0.000037	0.000078	0.055	0.000015	8.3	0.0027	0.00048	0.0013
		June		39	0.25	10	13	0.047	4.9	0.043	0.51	0.012	0.069	0.00027	0.01	0.012	0.000027	0.000058	0.04	0.000011	6.1	0.0019	0.00035	0.00093
		July		29	0.18	7.8	9.8	0.035	3.7	0.031	0.36	0.0085	0.05	0.0002	0.0073	0.0087	0.000021	0.000045	0.029	0.0000084	4.5	0.0014	0.00026	0.0007
		August		29	0.18	7.8	9.9	0.035	3.7	0.031	0.36	0.0086	0.05	0.0002	0.0073	0.0088	0.000021	0.000046	0.029	0.0000084	4.6	0.0014	0.00026	0.0007
		September		29	0.17	7.8	9.8	0.035	3.7	0.031	0.36	0.0085	0.049	0.0002	0.0072	0.0088	0.000021	0.000046	0.029	0.0000084	4.6	0.0013	0.00025	0.0007
		October		49	0.29	13	16	0.06	6.2	0.051	0.59	0.014	0.082	0.00033	0.012	0.015	0.000036	0.000078	0.048	0.000014	7.7	0.0022	0.00043	0.0012
		November		49	0.29	13	16	0.06	6.2	0.051	0.59	0.014	0.082	0.00033	0.012	0.015	0.000036	0.000078	0.048	0.000014	7.7	0.0022	0.00043	0.0012
		December		49	0.29	13	16	0.06	6.2	0.051	0.59	0.014	0.082	0.00033	0.012	0.015	0.000036	0.000078	0.048	0.000014	7.7	0.0022	0.00043	0.0012
		January	2026	49	0.29	13	16	0.06	6.2	0.051	0.59	0.014	0.082	0.00033	0.012	0.015	0.000036	0.000078	0.048	0.000014	7.7	0.0022	0.00043	0.0012
		February		49	0.29	13	16	0.06	6.2	0.051	0.59	0.014	0.082	0.00033	0.012	0.015	0.000036	0.000078	0.048	0.000014	7.7	0.0022	0.00043	0.0012
		March		49	0.29	13	16	0.06	6.2	0.051	0.59	0.014	0.082	0.00033	0.012	0.015	0.000036	0.000078	0.048	0.000014	7.7	0.0022	0.00043	0.0012
		April		49	0.29	13	16	0.06	6.2	0.051	0.59	0.014	0.082	0.00033	0.012	0.015	0.000036	0.000078	0.048	0.000014	7.7	0.0022	0.00043	0.0012
		May		49	0.29	13	16	0.06	6.2	0.051	0.59	0.014	0.082	0.00033	0.012	0.015	0.000036	0.000078	0.048	0.000014	7.7	0.0022	0.00043	0.0012
		June		36	0.21	9.7	12	0.044	4.5	0.037	0.42	0.01	0.059	0.00024	0.0085	0.011	0.000027	0.000058	0.035	0.00001	5.7	0.0016	0.00031	0.00088
		July		26	0.15	7.2	8.8	0.033	3.4	0.027	0.3	0.0075	0.042	0.00018	0.0061	0.0082	0.00002	0.000045	0.025	0.0000077	4.2	0.0011	0.00023	0.00066
		August		27	0.15	7.3	8.8	0.033	3.4	0.027	0.3	0.0075	0.042	0.00018	0.0061	0.0082	0.000021	0.000046	0.026	0.0000078	4.3	0.0011	0.00023	0.00066
		September		26	0.14	7.3	8.8	0.033	3.4	0.026	0.3	0.0074	0.042	0.00018	0.006	0.0082	0.000021	0.000046	0.025	0.0000077	4.3	0.0011	0.00023	0.00066
		October		44	0.24	12	15	0.056	5.7	0.044	0.49	0.012	0.07	0.0003	0.01	0.014	0.000035	0.000078	0.043	0.000013	7.2	0.0019	0.00038	0.0011
		November		44	0.24	12	15	0.056	5.7	0.044	0.49	0.012	0.07	0.0003	0.01	0.014	0.000035	0.000078	0.043	0.000013	7.2	0.0019	0.00038	0.0011
		December		44	0.24	12	15	0.056	5.7	0.044	0.49	0.012	0.07	0.0003	0.01	0.014	0.000035	0.000078	0.043	0.000013	7.2	0.0019	0.00038	0.0011
		January	2027	44	0.24	12	15	0.056	5.7	0.044	0.49	0.012	0.07	0.0003	0.01	0.014	0.000035	0.000078	0.043	0.000013	7.2	0.0019	0.00038	0.0011
		February		44	0.24	12	15	0.056	5.7	0.044	0.49	0.012	0.07	0.0003	0.01	0.014	0.000035	0.000078	0.043	0.000013	7.2	0.0019	0.00038	0.0011
		March		44	0.24	12	15	0.056	5.7	0.044	0.49	0.012	0.07	0.0003	0.01	0.014	0.000035	0.000078	0.043	0.000013	7.2	0.0019	0.00038	0.0011
		April		44	0.24	12	15	0.056	5.7	0.044	0.49	0.012	0.07	0.0003	0.01	0.014	0.000035	0.000078	0.043	0.000013	7.2	0.0019	0.00038	0.0011
		May		44	0.24	12	15	0.056	5.7	0.044	0.49	0.012	0.07	0.0003	0.01	0.014	0.000035	0.000078	0.043	0.000013	7.2	0.0019	0.00038	0.0011
		June		32	0.17	9.0	11	0.041	4.2	0.032	0.34	0.0089	0.049	0.00022	0.0071	0.01	0.000026	0.000058	0.031	0.0000095	5.3	0.0013	0.00027	0.00082
			MINIMUM	26	0.14	7.2	8.8	0.033	3.4	0.026	0.3	0.0074	0.042	0.00018	0.006	0.0082	0.00002	0.000045	0.025	0.0000077	4.2	0.0011	0.00023	0.00066
			MAXIMUM	69	0.51	17	24	0.074	8.2	0.083	1.0	0.022	0.14	0.00047	0.021	0.019	0.00004	0.000078	0.073	0.000019	9.9	0.0038	0.00064	0.0015
			AVERAGE	49	0.32	13	17	0.057	6.0	0.054	0.65	0.015	0.088	0.00033	0.013	0.014	0.000033	0.000069	0.05	0.000014	7.4	0.0024	0.00044	0.0011

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1.0	0.05				0.004		0.25										0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	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*	August	2022	0.21	0.00018	0.0018	2.2	0.037	0.000005	0.0014	0.0032	1.0	0.00013	0.000015	3.7	0.044	0.000011	0.000096	0.00044	0.00071	0.0027
		September		0.21	0.00018	0.0018	2.2	0.036	0.000005	0.0014	0.0031	0.99	0.00013	0.000015	3.6	0.043	0.000011	0.000097	0.00044	0.00071	0.0027
		October		0.34	0.0003	0.0031	3.7	0.06	0.0000085	0.0023	0.0052	1.7	0.00021	0.000025	6.0	0.073	0.000019	0.00016	0.00073	0.0012	0.0046
		November		0.34	0.0003	0.0031	3.7	0.06	0.0000085	0.0023	0.0052	1.7	0.00021	0.000025	6.0	0.073	0.000019	0.00016	0.00073	0.0012	0.0046
		December		0.34	0.0003	0.0031	3.7	0.06	0.0000085	0.0023	0.0052	1.7	0.00021	0.000025	6.0	0.073	0.000019	0.00016	0.00073	0.0012	0.0046
		January	2023	0.34	0.0003	0.0031	3.7	0.06	0.0000085	0.0023	0.0052	1.7	0.00021	0.000025	6.0	0.073	0.000019	0.00016	0.00073	0.0012	0.0046
		February		0.34	0.0003	0.0031	3.7	0.06	0.0000085	0.0023	0.0052	1.7	0.00021	0.000025	6.0	0.073	0.000019	0.00016	0.00073	0.0012	0.0046
		March		0.34	0.0003	0.0031	3.7	0.06	0.0000085	0.0023	0.0052	1.7	0.00021	0.000025	6.0	0.073	0.000019	0.00016	0.00073	0.0012	0.0046
		April		0.34	0.0003	0.0031	3.7	0.06	0.0000085	0.0023	0.0052	1.7	0.00021	0.000025	6.0	0.073	0.000019	0.00016	0.00073	0.0012	0.0046
		May		0.34	0.0003	0.0031	3.7	0.06	0.0000085	0.0023	0.0052	1.7	0.00021	0.000025	6.0	0.073	0.000019	0.00016	0.00073	0.0012	0.0046
		June		0.24	0.00022	0.0022	2.7	0.043	0.0000063	0.0017	0.0038	1.2	0.00015	0.000018	4.3	0.053	0.000014	0.00012	0.00052	0.00088	0.0035
		July		0.18	0.00016	0.0017	2.0	0.031	0.0000048	0.0012	0.0027	0.91	0.00011	0.000014	3.1	0.039	0.000011	0.000094	0.00037	0.00066	0.0027
		August		0.18	0.00016	0.0017	2.0	0.031	0.0000049	0.0012	0.0027	0.92	0.00011	0.000014	3.1	0.039	0.000011	0.000095	0.00037	0.00067	0.0027
		September		0.17	0.00016	0.0017	2.0	0.03	0.0000049	0.0012	0.0027	0.92	0.00011	0.000014	3.1	0.039	0.000011	0.000096	0.00036	0.00066	0.0027
		October		0.29	0.00027	0.0028	3.3	0.051	0.0000084	0.0019	0.0045	1.5	0.00019	0.000023	5.1	0.066	0.000018	0.00016	0.00061	0.0011	0.0046
		November		0.29	0.00027	0.0028	3.3	0.051	0.0000084	0.0019	0.0045	1.5	0.00019	0.000023	5.1	0.066	0.000018	0.00016	0.00061	0.0011	0.0046
		December		0.29	0.00027	0.0028	3.3	0.051	0.0000084	0.0019	0.0045	1.5	0.00019	0.000023	5.1	0.066	0.000018	0.00016	0.00061	0.0011	0.0046
		January	2024	0.29	0.00027	0.0028	3.3	0.051	0.0000084	0.0019	0.0045	1.5	0.00019	0.000023	5.1	0.066	0.000018	0.00016	0.00061	0.0011	0.0046
		February		0.29	0.00027	0.0028	3.3	0.051	0.0000084	0.0019	0.0045	1.5	0.00019	0.000023	5.1	0.066	0.000018	0.00016	0.00061	0.0011	0.0046
		March		0.29	0.00027	0.0028	3.3	0.051	0.0000084	0.0019	0.0045	1.5	0.00019	0.000023	5.1	0.066	0.000018	0.00016	0.00061	0.0011	0.0046
		April		0.29	0.00027	0.0028	3.3	0.051	0.0000084	0.0019	0.0045	1.5	0.00019	0.000023	5.1	0.066	0.000018	0.00016	0.00061	0.0011	0.0046
		May		0.29	0.00027	0.0028	3.3	0.051	0.0000084	0.0019	0.0045	1.5	0.00019	0.000023	5.1	0.066	0.000018	0.00016	0.00061	0.0011	0.0046
		June		0.21	0.00019	0.0021	2.4	0.036	0.0000062	0.0014	0.0033	1.1	0.00014	0.000017	3.7	0.048	0.000014	0.00012	0.00043	0.00083	0.0035
		July		0.15	0.00014	0.0015	1.8	0.026	0.0000048	0.00098	0.0024	0.85	0.0001	0.000013	2.7	0.035	0.00001	0.000093	0.00031	0.00062	0.0027
		August		0.15	0.00014	0.0016	1.8	0.026	0.0000048	0.00098	0.0024	0.86	0.0001	0.000013	2.7	0.036	0.00001	0.000095	0.00031	0.00063	0.0027
		September		0.14	0.00014	0.0016	1.8	0.025	0.0000049	0.00097	0.0024	0.85	0.0001	0.000013	2.6	0.035	0.00001	0.000095	0.0003	0.00063	0.0027
		October		0.24	0.00024	0.0026	3.0	0.042	0.0000083	0.0016	0.004	1.4	0.00017	0.000022	4.4	0.06	0.000018	0.00016	0.00051	0.0011	0.0046
		November		0.24	0.00024	0.0026	3.0	0.042	0.0000083	0.0016	0.004	1.4	0.00017	0.000022	4.4	0.06	0.000018	0.00016	0.00051	0.0011	0.0046
		December		0.24	0.00024	0.0026	3.0	0.042	0.0000083	0.0016	0.004	1.4	0.00017	0.000022	4.4	0.06	0.000018	0.00016	0.00051	0.0011	0.0046
		January	2025	0.24	0.00024	0.0026	3.0	0.042	0.0000083	0.0016	0.004	1.4	0.00017	0.000022	4.4	0.06	0.000018	0.00016	0.00051	0.0011	0.0046
		February		0.24	0.00024	0.0026	3.0	0.042	0.0000083	0.0016	0.004	1.4	0.00017	0.000022	4.4	0.06	0.000018	0.00016	0.00051	0.0011	0.0046
		March		0.24	0.00024	0.0026	3.0	0.042	0.0000083	0.0016	0.004	1.4	0.00017	0.000022	4.4	0.06	0.000018	0.00016	0.00051	0.0011	0.0046
		April		0.24	0.00024	0.0026	3.0	0.042	0.0000083	0.0016	0.004	1.4	0.00017	0.000022	4.4	0.06	0.000018	0.00016	0.00051	0.0011	0.0046
		May		0.24	0.00024	0.0026	3.0	0.042	0.0000083	0.0016	0.004	1.4	0.00017	0.000022	4.4	0.06	0.000018	0.00016	0.00051	0.0011	0.0046
		June		0.17	0.00018	0.0019	2.2	0.03	0.0000062	0.0011	0.0029	1.1	0.00012	0.000016	3.2	0.044	0.000013	0.00012	0.00036	0.00079	0.0035
		July		0.12	0.00013	0.0014	1.6	0.022	0.0000047	0.00082	0.0021	0.79	0.000092	0.000012	2.3	0.032	0.00001	0.000093	0.00026	0.00059	0.0027
		August		0.12	0.00013	0.0015	1.6	0.022	0.0000048	0.00082	0.0021	0.8	0.000092	0.000012	2.3	0.033	0.00001	0.000094	0.00026	0.0006	0.0027
		September		0.12	0.00013	0.0015	1.6	0.021	0.0000048	0.00081	0.0021	0.8	0.000092	0.000012	2.3	0.032	0.00001	0.000095	0.00026	0.0006	0.0027
		October		0.2	0.00022	0.0025	2.7	0.036	0.0000082	0.0013	0.0035	1.4	0.00015	0.000021	3.8	0.055	0.000017	0.00016	0.00043	0.001	0.0047
		November		0.2	0.00022	0.0025	2.7	0.036	0.0000082	0.0013	0.0035	1.4	0.00015	0.000021	3.8	0.055	0.000017	0.00016	0.00043	0.001	0.0047
		December		0.2	0.00022	0.0025	2.7	0.036	0.0000082	0.0013	0.0035	1.4	0.00015	0.000021	3.8	0.055	0.000017	0.00016	0.00043	0.001	0.0047
		January	2026	0.2	0.00022	0.0025	2.7	0.036	0.0000082	0.0013	0.0035	1.4	0.00015	0.000021	3.8	0.055	0.000017	0.00016	0.00043	0.001	0.0047
		February		0.2	0.00022	0.0025	2.7	0.036	0.0000082	0.0013	0.0035	1.4	0.00015	0.000021	3.8	0.055	0.000017	0.00016	0.00043	0.001	0.0047
		March		0.2	0.00022	0.0025	2.7	0.036	0.0000082	0.0013	0.0035	1.4	0.00015	0.000021	3.8	0.055	0.000017	0.00016	0.00043	0.001	0.0047
		April		0.2	0.00022	0.0025	2.7	0.036	0.0000082	0.0013	0.0035	1.4	0.00015	0.000021	3.8	0.055	0.000017	0.00016	0.00043	0.001	0.0047
		May		0.2	0.00022	0.0025	2.7	0.036	0.0000082	0.0013	0.0035	1.4	0.00015	0.000021	3.8	0.055	0.000017	0.00016	0.00043	0.001	0.0047
		June		0.15	0.00016	0.0018	2.0	0.025	0.0000061	0.00096	0.0025	1.0	0.00011	0.000015	2.7	0.04	0.000013	0.00012	0.0003	0.00075	0.0035
		July		0.11	0.00012	0.0014	1.5	0.018	0.0000047	0.00069	0.0019	0.75	0.0000083	0.000012	2.0	0.03	0.0000099	0.000092	0.00022	0.00057	0.0027
		August		0.11	0.00012	0.0014	1.5	0.018	0.0000048	0.00069	0.0019	0.76	0.000084	0.000012	2.0	0.03	0.00001	0.000094	0.00022	0.00057	0.0027
		September		0.1	0.00012	0.0014	1.5	0.018	0.0000048	0.00067	0.0019	0.76	0.000084	0.000012	2.0	0.03	0.00001	0.000094	0.00021	0.00058	0.0027
		October		0.17	0.0002	0.0023	2.5	0.03	0.0000081	0.0011	0.0031	1.3	0.00014	0.00002	3.3	0.051	0.000017	0.00016	0.00036	0.00097	0.0047
		November		0.17	0.0002	0.0023	2.5	0.03	0.0000081	0.0011	0.0031	1.3	0.00014	0.00002	3.3	0.051	0.000017	0.00016	0.00036	0.00097	0.0047
		December		0.17	0.0002	0.0023	2.5	0.03	0.0000081	0.0011	0.0031	1.3	0.00014	0.00002	3.3	0.051	0.000017	0.00016	0.00036	0.00097	0.0047
		January	2027	0.17	0.0002	0.0023	2.5	0.03	0.0000081	0.0011	0.0031	1.3	0.00014	0.00002	3.3	0.051	0.000017	0.00016	0.00036	0.00097	0.0047
		February		0.17	0.0002	0.0023	2.5	0.03	0.0000081	0.0011	0.0031	1.3	0.00014	0.00002	3.3	0.051	0.000017	0.00016	0.00036	0.00097	0.0047
		March		0.17	0.0002	0.0023	2.5	0.03	0.0000081	0.0011	0.0031	1.3	0.00014	0.00002	3.3	0.051	0.000017	0.00016	0.00036	0.00097	0.0047
		April		0.17	0.0002	0.0023	2.5	0.03	0.0000081	0.0011	0.0031	1.3	0.00014	0.00002	3.3	0.051	0.000017	0.00016	0.00036	0.00097	0.0047
		May		0.17	0.0002	0.0023	2.5	0.03	0.0000081	0.0011	0.0031	1.3	0.00014	0.00002	3.3	0.051	0.000017	0.00016	0.00036	0.00097	0.0047
		June		0.12	0.00015	0.0017	1.8	0.021	0.000006	0.0008	0.0022	0.94	0.0001	0.000015	2.4	0.037	0.000013	0.00012	0.00026	0.00072	0.0034
			MINIMUM	0.1	0.00012	0.0014	1.5	0.018	0.0000047	0.00067	0.0019	0.75	0.0000083	0.000012	2.0	0.03	0.0000099	0.000092	0.00021	0.00057	0.0027
			MAXIMUM	0.34	0.0003	0.0031	3.7	0.06	0.0000085	0.0023	0.0052	1.7	0.00021	0.000025	6.0	0.073	0.000019	0.00016	0.00073	0.0012	0.0047
			AVERAGE	0.22	0.00022	0.0023	2.7	0.038	0.0000073	0.0015	0.0036	1.3	0.00015	0.000019	4.0	0.053	0.000016	0.00014	0.00046	0.00094	0.0041

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1400							16		0.3	0.5		0.1					0.002		0.02		0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12				2.93	0.01	0.1		*0.025*				1.5	0.00004				0.002
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	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*	July	2027	24	0.11	6.8	8.0	0.032	3.1	0.023	0.2	0.0067	0.033	0.00017	0.0053	0.0076	0.00002	0.000045	0.022	0.0000073	3.9	0.00092	0.0002	0.00063
		August		24	0.11	7.0	8.1	0.034	3.2	0.023	0.18	0.0069	0.032	0.00017	0.0055	0.0077	0.00002	0.000046	0.023	0.0000075	4.0	0.00091	0.00021	0.00064
		September		24	0.11	7.0	8.1	0.034	3.2	0.023	0.16	0.0069	0.031	0.00017	0.0056	0.0077	0.000021	0.000047	0.022	0.0000076	4.0	0.00087	0.0002	0.00064
		October		41	0.17	12	14	0.059	5.3	0.038	0.24	**0.012**	0.05	0.00029	0.0094	0.013	0.000035	0.000079	0.037	0.000013	6.7	0.0014	0.00034	0.0011
		November		41	0.17	12	14	0.059	5.3	0.038	0.24	**0.012**	0.05	0.00029	0.0094	0.013	0.000035	0.000079	0.037	0.000013	6.7	0.0014	0.00034	0.0011
		December		41	0.17	12	14	0.059	5.3	0.038	0.24	**0.012**	0.05	0.00029	0.0094	0.013	0.000035	0.000079	0.037	0.000013	6.7	0.0014	0.00034	0.0011
		January	2028	41	0.17	12	14	0.059	5.3	0.038	0.24	**0.012**	0.05	0.00029	0.0094	0.013	0.000035	0.000079	0.037	0.000013	6.7	0.0014	0.00034	0.0011
		February		41	0.17	12	14	0.059	5.3	0.038	0.24	**0.012**	0.05	0.00029	0.0094	0.013	0.000035	0.000079	0.037	0.000013	6.7	0.0014	0.00034	0.0011
		March		41	0.17	12	14	0.059	5.3	0.038	0.24	**0.012**	0.05	0.00029	0.0094	0.013	0.000035	0.000079	0.037	0.000013	6.7	0.0014	0.00034	0.0011
		April		41	0.17	12	14	0.059	5.3	0.038	0.24	**0.012**	0.05	0.00029	0.0094	0.013	0.000035	0.000079	0.037	0.000013	6.7	0.0014	0.00034	0.0011
		May		41	0.17	12	14	0.059	5.3	0.038	0.24	**0.012**	0.05	0.00029	0.0094	0.013	0.000035	0.000079	0.037	0.000013	6.7	0.0014	0.00034	0.0011
		June		28	0.11	8.1	9.3	0.041	3.6	0.025	0.13	0.008	0.033	0.0002	0.0064	0.0089	0.000024	0.000056	0.025	0.0000089	4.6	0.00095	0.00023	0.00075
		July		20	0.07	6.1	6.9	0.031	2.7	0.018	0.072	0.0059	0.023	0.00015	0.0047	0.0067	0.000019	0.000043	0.018	0.0000067	3.4	0.00068	0.00017	0.00057
		August		21	0.073	6.3	7.0	0.033	2.7	0.019	0.066	0.0061	0.023	0.00015	0.0048	0.0068	0.000019	0.000044	0.019	0.0000069	3.5	0.0007	0.00018	0.00059
		September		21	0.073	6.4	7.0	0.033	2.8	0.019	0.06	0.0061	0.023	0.00015	0.0049	0.0069	0.00002	0.000045	0.019	0.0000007	3.5	0.00071	0.00018	0.0006
		October		35	0.12	11	12	0.057	4.7	0.031	0.095	**0.01**	0.039	0.00026	0.0082	0.012	0.000034	0.000078	0.032	0.000012	5.9	0.0012	0.00031	0.001
		November		35	0.12	11	12	0.057	4.7	0.031	0.095	**0.01**	0.039	0.00026	0.0082	0.012	0.000034	0.000078	0.032	0.000012	5.9	0.0012	0.00031	0.001
		December		35	0.12	11	12	0.057	4.7	0.031	0.095	**0.01**	0.039	0.00026	0.0082	0.012	0.000034	0.000078	0.032	0.000012	5.9	0.0012	0.00031	0.001
		January	2029	35	0.12	11	12	0.057	4.7	0.031	0.095	**0.01**	0.039	0.00026	0.0082	0.012	0.000034	0.000078	0.032	0.000012	5.9	0.0012	0.00031	0.001
		February		35	0.12	11	12	0.057	4.7	0.031	0.095	**0.01**	0.039	0.00026	0.0082	0.012	0.000034	0.000078	0.032	0.000012	5.9	0.0012	0.00031	0.001
		March		35	0.12	11	12	0.057	4.7	0.031	0.095	**0.01**	0.039	0.00026	0.0082	0.012	0.000034	0.000078	0.032	0.000012	5.9	0.0012	0.00031	0.001
		April		35	0.12	11	12	0.057	4.7	0.031	0.095	**0.01**	0.039	0.00026	0.0082	0.012	0.000034	0.000078	0.032	0.000012	5.9	0.0012	0.00031	0.001
		May		35	0.12	11	12	0.057	4.7	0.031	0.095	**0.01**	0.039	0.00026	0.0082	0.012	0.000034	0.000078	0.032	0.000012	5.9	0.0012	0.00031	0.001
		June		24	0.076	7.5	8.1	0.04	3.2	0.021	0.057	0.0071	0.027	0.00018	0.0055	0.0081	0.000024	0.000055	0.022	0.0000083	4.1	0.00082	0.00021	0.00071
		July		18	0.053	5.7	6.0	0.031	2.4	0.016	0.035	0.0053	0.02	0.00014	0.0041	0.0061	0.000018	0.000043	0.016	0.0000063	3.1	0.00062	0.00016	0.00055
		August		19	0.058	5.9	6.2	0.032	2.5	0.016	0.034	0.0055	0.021	0.00014	0.0042	0.0063	0.000019	0.000044	0.017	0.0000065	3.2	0.00065	0.00017	0.00057
		September		19	0.059	6.0	6.2	0.032	2.5	0.016	0.033	0.0055	0.021	0.00015	0.0042	0.0064	0.00002	0.000046	0.017	0.0000067	3.2	0.00066	0.00017	0.00059
		October		32	0.098	10	11	0.055	4.3	0.027	0.054	0.0093	0.036	0.00025	0.0071	0.011	0.000034	0.000078	0.029	0.000011	5.5	0.0011	0.00029	0.0010
		November		32	0.098	10	11	0.055	4.3	0.027	0.054	0.0093	0.036	0.00025	0.0071	0.011	0.000034	0.000078	0.029	0.000011	5.5	0.0011	0.00029	0.0010
		December		32	0.098	10	11	0.055	4.3	0.027	0.054	0.0093	0.036	0.00025	0.0071	0.011	0.000034	0.000078	0.029	0.000011	5.5	0.0011	0.00029	0.0010
		January	2030	32	0.098	10	11	0.055	4.3	0.027	0.054	0.0093	0.036	0.00025	0.0071	0.011	0.000034	0.000078	0.029	0.000011	5.5	0.0011	0.00029	0.0010
		February		32	0.098	10	11	0.055	4.3	0.027	0.054	0.0093	0.036	0.00025	0.0071	0.011	0.000034	0.000078	0.029	0.000011	5.5	0.0011	0.00029	0.0010
		March		32	0.098	10	11	0.055	4.3	0.027	0.054	0.0093	0.036	0.00025	0.0071	0.011	0.000034	0.000078	0.029	0.000011	5.5	0.0011	0.00029	0.0010
		April		32	0.098	10	11	0.055	4.3	0.027	0.054	0.0093	0.036	0.00025	0.0071	0.011	0.000034	0.000078	0.029	0.000011	5.5	0.0011	0.00029	0.0010
		May		32	0.098	10	11	0.055	4.3	0.027	0.054	0.0093	0.036	0.00025	0.0071	0.011	0.000034	0.000078	0.029	0.000011	5.5	0.0011	0.00029	0.0010
		June		22	0.062	7.2	7.2	0.039	3.0	0.018	0.035	0.0064	0.025	0.00017	0.0048	0.0076	0.000024	0.000055	0.02	0.0000079	3.8	0.00078	0.0002	0.0007
		July		17	0.045	5.5	5.4	0.03	2.2	0.014	0.024	0.0048	0.019	0.00013	0.0036	0.0058	0.000019	0.000043	0.015	0.000006	2.9	0.00061	0.00015	0.00054
		August		17	0.049	5.7	5.5	0.031	2.3	0.014	0.024	0.0049	0.02	0.00014	0.0037	0.006	0.000019	0.000045	0.015	0.0000063	3.0	0.00063	0.00016	0.00056
		September		18	0.05	5.8	5.6	0.032	2.3	0.014	0.023	0.005	0.021	0.00014	0.0037	0.0061	0.00002	0.000046	0.016	0.0000064	3.0	0.00065	0.00016	0.00058
		October		30	0.084	9.8	9.4	0.054	4.0	0.024	0.039	0.0085	0.035	0.00024	0.0063	0.01	0.000034	0.000079	0.026	0.000011	5.1	0.0011	0.00028	0.00099
		November		30	0.084	9.8	9.4	0.054	4.0	0.024	0.039	0.0085	0.035	0.00024	0.0063	0.01	0.000034	0.000079	0.026	0.000011	5.1	0.0011	0.00028	0.00099
		December		30	0.084	9.8	9.4	0.054	4.0	0.024	0.039	0.0085	0.035	0.00024	0.0063	0.01	0.000034	0.000079	0.026	0.000011	5.1	0.0011	0.00028	0.00099
		January	2031	30	0.084	9.8	9.4	0.054	4.0	0.024	0.039	0.0085	0.035	0.00024	0.0063	0.01	0.000034	0.000079	0.026	0.000011	5.1	0.0011	0.00028	0.00099
		February		30	0.084	9.8	9.4	0.054	4.0	0.024	0.039	0.0085	0.035	0.00024	0.0063	0.01	0.000034	0.000079	0.026	0.000011	5.1	0.0011	0.00028	0.00099
		March		30	0.084	9.8	9.4	0.054	4.0	0.024	0.039	0.0085	0.035	0.00024	0.0063	0.01	0.000034	0.000079	0.026	0.000011	5.1	0.0011	0.00028	0.00099
		April		30	0.084	9.8	9.4	0.054	4.0	0.024	0.039	0.0085	0.035	0.00024	0.0063	0.01	0.000034	0.000079	0.026	0.000011	5.1	0.0011	0.00028	0.00099
		May		30	0.084	9.8	9.4	0.054	4.0	0.024	0.039	0.0085	0.035	0.00024	0.0063	0.01	0.000034	0.000079	0.026	0.000011	5.1	0.0011	0.00028	0.00099
		June		21	0.053	6.9	6.5	0.038	2.8	0.016	0.026	0.0058	0.025	0.00016	0.0042	0.0072	0.000024	0.000056	0.018	0.0000076	3.6	0.00077	0.00019	0.0007
		July		16	0.038	5.3	4.9	0.029	2.1	0.012	0.019	0.0044	0.019	0.00013	0.0031	0.0056	0.000019	0.000044	0.014	0.0000058	2.7	0.0006	0.00015	0.00054
		August		16	0.043	5.5	5.0	0.03	2.2	0.012	0.019	0.0045	0.02	0.00013	0.0032	0.0057	0.000019	0.000046	0.014	0.000006	2.8	0.00063	0.00015	0.00056
		September		16	0.044	5.6	5.0	0.031	2.2	0.013	0.019	0.0046	0.02	0.00013	0.0033	0.0058	0.00002	0.000047	0.015	0.0000061	2.9	0.00064	0.00016	0.00058
		October		28	0.074	9.5	8.6	0.053	3.8	0.021	0.032	0.0078	0.035	0.00023	0.0055	0.0099	0.000034	0.00008	0.025	0.00001	4.9	0.0011	0.00027	0.00098
		November		28	0.074	9.5	8.6	0.053	3.8	0.021	0.032	0.0078	0.035	0.00023	0.0055	0.0099	0.000034	0.00008	0.025	0.00001	4.9	0.0011	0.00027	0.00098
		December		28	0.074	9.5	8.6	0.053	3.8	0.021	0.032	0.0078	0.035	0.00023	0.0055	0.0099	0.000034	0.00008	0.025	0.00001	4.9	0.0011	0.00027	0.00098

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1.0	0.05				0.004		0.25										0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	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*	July	2027	0.087	0.00011	0.0013	1.4	0.016	0.0000047	0.00062	0.0016	0.71	0.000077	0.000011	1.8	0.028	0.0000097	0.000093	0.0002	0.00055	0.0024
		August		0.086	0.00011	0.0013	1.4	0.017	0.0000048	0.00064	0.0016	0.72	0.000078	0.000011	1.8	0.028	0.0000099	0.000095	0.00022	0.00056	0.0023
		September		0.084	0.00011	0.0013	1.4	0.017	0.0000049	0.00065	0.0016	0.72	0.000078	0.000011	1.8	0.028	0.000010	0.000096	0.00023	0.00056	0.0022
		October		0.14	0.00018	0.0023	2.4	0.029	0.0000083	0.0011	0.0026	1.2	0.00013	0.000019	3.1	0.047	0.000017	0.00016	0.00039	0.00095	0.0036
		November		0.14	0.00018	0.0023	2.4	0.029	0.0000083	0.0011	0.0026	1.2	0.00013	0.000019	3.1	0.047	0.000017	0.00016	0.00039	0.00095	0.0036
		December		0.14	0.00018	0.0023	2.4	0.029	0.0000083	0.0011	0.0026	1.2	0.00013	0.000019	3.1	0.047	0.000017	0.00016	0.00039	0.00095	0.0036
		January	2028	0.14	0.00018	0.0023	2.4	0.029	0.0000083	0.0011	0.0026	1.2	0.00013	0.000019	3.1	0.047	0.000017	0.00016	0.00039	0.00095	0.0036
		February		0.14	0.00018	0.0023	2.4	0.029	0.0000083	0.0011	0.0026	1.2	0.00013	0.000019	3.1	0.047	0.000017	0.00016	0.00039	0.00095	0.0036
		March		0.14	0.00018	0.0023	2.4	0.029	0.0000083	0.0011	0.0026	1.2	0.00013	0.000019	3.1	0.047	0.000017	0.00016	0.00039	0.00095	0.0036
		April		0.14	0.00018	0.0023	2.4	0.029	0.0000083	0.0011	0.0026	1.2	0.00013	0.000019	3.1	0.047	0.000017	0.00016	0.00039	0.00095	0.0036
		May		0.14	0.00018	0.0023	2.4	0.029	0.0000083	0.0011	0.0026	1.2	0.00013	0.000019	3.1	0.047	0.000017	0.00016	0.00039	0.00095	0.0036
		June		0.093	0.00012	0.0016	1.6	0.02	0.0000058	0.00075	0.0018	0.83	0.000089	0.000013	2.1	0.032	0.000012	0.00011	0.00027	0.00066	0.0024
		July		0.068	0.000089	0.0012	1.2	0.015	0.0000045	0.00055	0.0013	0.62	0.000066	0.0000098	1.6	0.024	0.000009	0.000089	0.0002	0.0005	0.0017
		August		0.07	0.000091	0.0012	1.3	0.015	0.0000046	0.00057	0.0013	0.64	0.000069	0.00001	1.6	0.025	0.0000093	0.000092	0.00021	0.00052	0.0017
		September		0.071	0.000092	0.0013	1.3	0.015	0.0000048	0.00057	0.0013	0.65	0.00007	0.00001	1.6	0.025	0.0000096	0.000094	0.00021	0.00053	0.0017
		October		0.12	0.00016	0.0021	2.2	0.025	0.0000081	0.00097	0.0022	1.1	0.00012	0.000017	2.7	0.042	0.000016	0.00016	0.00036	0.0009	0.0029
		November		0.12	0.00016	0.0021	2.2	0.025	0.0000081	0.00097	0.0022	1.1	0.00012	0.000017	2.7	0.042	0.000016	0.00016	0.00036	0.0009	0.0029
		December		0.12	0.00016	0.0021	2.2	0.025	0.0000081	0.00097	0.0022	1.1	0.00012	0.000017	2.7	0.042	0.000016	0.00016	0.00036	0.0009	0.0029
		January	2029	0.12	0.00016	0.0021	2.2	0.025	0.0000081	0.00097	0.0022	1.1	0.00012	0.000017	2.7	0.042	0.000016	0.00016	0.00036	0.0009	0.0029
		February		0.12	0.00016	0.0021	2.2	0.025	0.0000081	0.00097	0.0022	1.1	0.00012	0.000017	2.7	0.042	0.000016	0.00016	0.00036	0.0009	0.0029
		March		0.12	0.00016	0.0021	2.2	0.025	0.0000081	0.00097	0.0022	1.1	0.00012	0.000017	2.7	0.042	0.000016	0.00016	0.00036	0.0009	0.0029
		April		0.12	0.00016	0.0021	2.2	0.025	0.0000081	0.00097	0.0022	1.1	0.00012	0.000017	2.7	0.042	0.000016	0.00016	0.00036	0.0009	0.0029
		May		0.12	0.00016	0.0021	2.2	0.025	0.0000081	0.00097	0.0022	1.1	0.00012	0.000017	2.7	0.042	0.000016	0.00016	0.00036	0.0009	0.0029
		June		0.083	0.00011	0.0015	1.5	0.017	0.0000057	0.00065	0.0015	0.76	0.000082	0.000012	1.8	0.029	0.000012	0.00011	0.00024	0.00064	0.002
		July		0.063	0.000082	0.0011	1.1	0.013	0.0000045	0.00047	0.0012	0.58	0.000062	0.0000095	1.4	0.022	0.000009	0.000089	0.00018	0.00049	0.0015
		August		0.066	0.000085	0.0012	1.2	0.013	0.0000046	0.00049	0.0012	0.6	0.000064	0.0000099	1.4	0.022	0.0000093	0.000092	0.00019	0.00051	0.0015
		September		0.067	0.000086	0.0012	1.2	0.013	0.0000048	0.00049	0.0012	0.61	0.000065	0.00001	1.4	0.023	0.0000096	0.000095	0.00019	0.00053	0.0016
		October		0.11	0.00015	0.0021	2.0	0.022	0.0000082	0.00082	0.0021	1.0	0.00011	0.000017	2.4	0.039	0.000016	0.00016	0.00032	0.0009	0.0026
		November		0.11	0.00015	0.0021	2.0	0.022	0.0000082	0.00082	0.0021	1.0	0.00011	0.000017	2.4	0.039	0.000016	0.00016	0.00032	0.0009	0.0026
		December		0.11	0.00015	0.0021	2.0	0.022	0.0000082	0.00082	0.0021	1.0	0.00011	0.000017	2.4	0.039	0.000016	0.00016	0.00032	0.0009	0.0026
		January	2030	0.11	0.00015	0.0021	2.0	0.022	0.0000082	0.00082	0.0021	1.0	0.00011	0.000017	2.4	0.039	0.000016	0.00016	0.00032	0.0009	0.0026
		February		0.11	0.00015	0.0021	2.0	0.022	0.0000082	0.00082	0.0021	1.0	0.00011	0.000017	2.4	0.039	0.000016	0.00016	0.00032	0.0009	0.0026
		March		0.11	0.00015	0.0021	2.0	0.022	0.0000082	0.00082	0.0021	1.0	0.00011	0.000017	2.4	0.039	0.000016	0.00016	0.00032	0.0009	0.0026
		April		0.11	0.00015	0.0021	2.0	0.022	0.0000082	0.00082	0.0021	1.0	0.00011	0.000017	2.4	0.039	0.000016	0.00016	0.00032	0.0009	0.0026
		May		0.11	0.00015	0.0021	2.0	0.022	0.0000082	0.00082	0.0021	1.0	0.00011	0.000017	2.4	0.039	0.000016	0.00016	0.00032	0.0009	0.0026
		June		0.08	0.0001	0.0014	1.4	0.015	0.0000058	0.00055	0.0014	0.72	0.000077	0.000012	1.6	0.027	0.000012	0.00011	0.00021	0.00064	0.0019
		July		0.062	0.000078	0.0011	1.1	0.011	0.0000045	0.0004	0.0011	0.55	0.000059	0.0000095	1.2	0.02	0.0000091	0.00009	0.00016	0.0005	0.0014
		August		0.065	0.000081	0.0011	1.1	0.011	0.0000047	0.00041	0.0011	0.57	0.000061	0.0000099	1.3	0.021	0.0000094	0.000093	0.00016	0.00052	0.0015
		September		0.066	0.000083	0.0012	1.1	0.011	0.0000048	0.00041	0.0012	0.58	0.000063	0.00001	1.3	0.021	0.0000097	0.000096	0.00017	0.00053	0.0015
		October		0.11	0.00014	0.002	1.9	0.019	0.0000082	0.0007	0.002	0.99	0.00011	0.000017	2.1	0.036	0.000017	0.00016	0.00028	0.00091	0.0026
		November		0.11	0.00014	0.002	1.9	0.019	0.0000082	0.0007	0.002	0.99	0.00011	0.000017	2.1	0.036	0.000017	0.00016	0.00028	0.00091	0.0026
		December		0.11	0.00014	0.002	1.9	0.019	0.0000082	0.0007	0.002	0.99	0.00011	0.000017	2.1	0.036	0.000017	0.00016	0.00028	0.00091	0.0026
		January	2031	0.11	0.00014	0.002	1.9	0.019	0.0000082	0.0007	0.002	0.99	0.00011	0.000017	2.1	0.036	0.000017	0.00016	0.00028	0.00091	0.0026
		February		0.11	0.00014	0.002	1.9	0.019	0.0000082	0.0007	0.002	0.99	0.00011	0.000017	2.1	0.036	0.000017	0.00016	0.00028	0.00091	0.0026
		March		0.11	0.00014	0.002	1.9	0.019	0.0000082	0.0007	0.002	0.99	0.00011	0.000017	2.1	0.036	0.000017	0.00016	0.00028	0.00091	0.0026
		April		0.11	0.00014	0.002	1.9	0.019	0.0000082	0.0007	0.002	0.99	0.00011	0.000017	2.1	0.036	0.000017	0.00016	0.00028	0.00091	0.0026
		May		0.11	0.00014	0.002	1.9	0.019	0.0000082	0.0007	0.002	0.99	0.00011	0.000017	2.1	0.036	0.000017	0.00016	0.00028	0.00091	0.0026
		June		0.079	0.000099	0.0014	1.3	0.013	0.0000058	0.00047	0.0014	0.69	0.000074	0.000012	1.5	0.025	0.000012	0.00012	0.00019	0.00064	0.0018
		July		0.062	0.000076	0.0011	1.0	0.0093	0.0000045	0.00034	0.0011	0.53	0.000057	0.0000096	1.1	0.019	0.0000092	0.00009	0.00014	0.0005	0.0014
		August		0.064	0.000079	0.0011	1.0	0.0095	0.0000047	0.00035	0.0011	0.55	0.000059	0.000010	1.1	0.02	0.0000095	0.000094	0.00014	0.00052	0.0014
		September		0.066	0.00008	0.0011	1.1	0.0095	0.0000049	0.00035	0.0011	0.56	0.000061	0.00001	1.1	0.02	0.0000098	0.000097	0.00015	0.00053	0.0015
		October		0.11	0.00014	0.0019	1.8	0.016	0.0000083	0.00059	0.0019	0.96	0.0001	0.000018	1.9	0.034	0.000017	0.00017	0.00024	0.00091	0.0025
		November		0.11	0.00014	0.0019	1.8	0.016	0.0000083	0.00059	0.0019	0.96	0.0001	0.000018	1.9	0.034	0.000017	0.00017	0.00024	0.00091	0.0025
		December		0.11	0.00014	0.0019	1.8	0.016	0.0000083	0.00059	0.0019	0.96	0.0001	0.000018	1.9	0.034	0.000017	0.00017	0.00024	0.00091	0.0025

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12			2.93	0.01	0.1		*0.025*				1.5	0.00004				0.002
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	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	2032	28	0.074	9.5	8.6	0.053	3.8	0.021	0.032	0.0078	0.035	0.00023	0.0055	0.0099	0.000034	0.00008	0.025	0.00001	4.9	0.0011	0.00027	0.00098
		February		28	0.074	9.5	8.6	0.053	3.8	0.021	0.032	0.0078	0.035	0.00023	0.0055	0.0099	0.000034	0.00008	0.025	0.00001	4.9	0.0011	0.00027	0.00098
		March		28	0.074	9.5	8.6	0.053	3.8	0.021	0.032	0.0078	0.035	0.00023	0.0055	0.0099	0.000034	0.00008	0.025	0.00001	4.9	0.0011	0.00027	0.00098
		April		28	0.074	9.5	8.6	0.053	3.8	0.021	0.032	0.0078	0.035	0.00023	0.0055	0.0099	0.000034	0.00008	0.025	0.00001	4.9	0.0011	0.00027	0.00098
		May		28	0.074	9.5	8.6	0.053	3.8	0.021	0.032	0.0078	0.035	0.00023	0.0055	0.0099	0.000034	0.00008	0.025	0.00001	4.9	0.0011	0.00027	0.00098
		June		19	0.047	6.7	5.9	0.037	2.6	0.015	0.022	0.0054	0.025	0.00016	0.0038	0.007	0.000024	0.000057	0.017	0.0000073	3.4	0.00077	0.00019	0.00069
		July		15	0.034	5.1	4.5	0.029	2.0	0.011	0.016	0.0041	0.019	0.00012	0.0028	0.0053	0.000019	0.000044	0.013	0.0000056	2.6	0.0006	0.00014	0.00054
		August		15	0.038	5.3	4.6	0.03	2.1	0.011	0.016	0.0042	0.02	0.00013	0.0029	0.0055	0.000019	0.000046	0.013	0.0000058	2.7	0.00063	0.00015	0.00056
		September		15	0.04	5.4	4.6	0.03	2.1	0.011	0.016	0.0042	0.02	0.00013	0.0029	0.0056	0.00002	0.000047	0.014	0.0000059	2.8	0.00064	0.00015	0.00057
		October		26	0.066	9.3	7.8	0.052	3.6	0.019	0.027	0.0072	0.035	0.00022	0.005	0.0096	0.000034	0.000081	0.023	0.00001	4.7	0.0011	0.00026	0.00098
		November		26	0.066	9.3	7.8	0.052	3.6	0.019	0.027	0.0072	0.035	0.00022	0.005	0.0096	0.000034	0.000081	0.023	0.00001	4.7	0.0011	0.00026	0.00098
		December		26	0.066	9.3	7.8	0.052	3.6	0.019	0.027	0.0072	0.035	0.00022	0.005	0.0096	0.000034	0.000081	0.023	0.00001	4.7	0.0011	0.00026	0.00098
		January	2033	26	0.066	9.3	7.8	0.052	3.6	0.019	0.027	0.0072	0.035	0.00022	0.005	0.0096	0.000034	0.000081	0.023	0.00001	4.7	0.0011	0.00026	0.00098
		February		26	0.066	9.3	7.8	0.052	3.6	0.019	0.027	0.0072	0.035	0.00022	0.005	0.0096	0.000034	0.000081	0.023	0.00001	4.7	0.0011	0.00026	0.00098
		March		26	0.066	9.3	7.8	0.052	3.6	0.019	0.027	0.0072	0.035	0.00022	0.005	0.0096	0.000034	0.000081	0.023	0.00001	4.7	0.0011	0.00026	0.00098
		April		26	0.066	9.3	7.8	0.052	3.6	0.019	0.027	0.0072	0.035	0.00022	0.005	0.0096	0.000034	0.000081	0.023	0.00001	4.7	0.0011	0.00026	0.00098
		May		26	0.066	9.3	7.8	0.052	3.6	0.019	0.027	0.0072	0.035	0.00022	0.005	0.0096	0.000034	0.000081	0.023	0.00001	4.7	0.0011	0.00026	0.00098
		June		18	0.042	6.5	5.4	0.036	2.5	0.013	0.019	0.005	0.025	0.00016	0.0034	0.0067	0.000024	0.000057	0.016	0.0000071	3.3	0.00077	0.00018	0.00069
		July		14	0.03	5.0	4.1	0.028	1.9	0.010	0.014	0.0038	0.019	0.00012	0.0025	0.0052	0.000019	0.000045	0.012	0.0000055	2.5	0.0006	0.00014	0.00054
		August		14	0.034	5.2	4.2	0.029	2.0	0.01	0.014	0.0039	0.02	0.00013	0.0026	0.0053	0.000019	0.000047	0.013	0.0000057	2.6	0.00062	0.00014	0.00056
		September		15	0.036	5.3	4.3	0.03	2.0	0.01	0.014	0.004	0.02	0.00013	0.0026	0.0055	0.00002	0.000048	0.013	0.0000058	2.7	0.00064	0.00015	0.00057
		October		25	0.06	9.0	7.2	0.051	3.4	0.018	0.024	0.0067	0.035	0.00022	0.0045	0.0093	0.000034	0.000082	0.022	0.0000099	4.5	0.0011	0.00025	0.00098
		November		25	0.06	9.0	7.2	0.051	3.4	0.018	0.024	0.0067	0.035	0.00022	0.0045	0.0093	0.000034	0.000082	0.022	0.0000099	4.5	0.0011	0.00025	0.00098
		December		25	0.06	9.0	7.2	0.051	3.4	0.018	0.024	0.0067	0.035	0.00022	0.0045	0.0093	0.000034	0.000082	0.022	0.0000099	4.5	0.0011	0.00025	0.00098
		January	2034	25	0.06	9.0	7.2	0.051	3.4	0.018	0.024	0.0067	0.035	0.00022	0.0045	0.0093	0.000034	0.000082	0.022	0.0000099	4.5	0.0011	0.00025	0.00098
		February		25	0.06	9.0	7.2	0.051	3.4	0.018	0.024	0.0067	0.035	0.00022	0.0045	0.0093	0.000034	0.000082	0.022	0.0000099	4.5	0.0011	0.00025	0.00098
		March		25	0.06	9.0	7.2	0.051	3.4	0.018	0.024	0.0067	0.035	0.00022	0.0045	0.0093	0.000034	0.000082	0.022	0.0000099	4.5	0.0011	0.00025	0.00098
		April		25	0.06	9.0	7.2	0.051	3.4	0.018	0.024	0.0067	0.035	0.00022	0.0045	0.0093	0.000034	0.000082	0.022	0.0000099	4.5	0.0011	0.00025	0.00098
		May		25	0.06	9.0	7.2	0.051	3.4	0.018	0.024	0.0067	0.035	0.00022	0.0045	0.0093	0.000034	0.000082	0.022	0.0000099	4.5	0.0011	0.00025	0.00098
		June		17	0.037	6.3	5.0	0.036	2.4	0.012	0.016	0.0047	0.025	0.00015	0.0031	0.0065	0.000024	0.000058	0.015	0.0000069	3.2	0.00077	0.00018	0.00069
		July		13	0.027	4.9	3.8	0.028	1.8	0.0092	0.012	0.0036	0.019	0.00012	0.0023	0.005	0.000019	0.000045	0.012	0.0000053	2.4	0.0006	0.00014	0.00053
		August		14	0.031	5.1	3.9	0.029	1.9	0.0094	0.013	0.0037	0.02	0.00012	0.0024	0.0052	0.000019	0.000047	0.012	0.0000055	2.5	0.00062	0.00014	0.00055
		September		14	0.033	5.2	4.0	0.03	1.9	0.0095	0.013	0.0037	0.02	0.00013	0.0024	0.0053	0.00002	0.000048	0.012	0.0000057	2.6	0.00064	0.00014	0.00057
		October		24	0.054	8.9	6.8	0.051	3.3	0.016	0.021	0.0063	0.035	0.00021	0.0041	0.0091	0.000034	0.000082	0.021	0.0000097	4.4	0.0011	0.00025	0.00097
		November		24	0.054	8.9	6.8	0.051	3.3	0.016	0.021	0.0063	0.035	0.00021	0.0041	0.0091	0.000034	0.000082	0.021	0.0000097	4.4	0.0011	0.00025	0.00097
		December		24	0.054	8.9	6.8	0.051	3.3	0.016	0.021	0.0063	0.035	0.00021	0.0041	0.0091	0.000034	0.000082	0.021	0.0000097	4.4	0.0011	0.00025	0.00097
		January	2035	24	0.054	8.9	6.8	0.051	3.3	0.016	0.021	0.0063	0.035	0.00021	0.0041	0.0091	0.000034	0.000082	0.021	0.0000097	4.4	0.0011	0.00025	0.00097
		February		24	0.054	8.9	6.8	0.051	3.3	0.016	0.021	0.0063	0.035	0.00021	0.0041	0.0091	0.000034	0.000082	0.021	0.0000097	4.4	0.0011	0.00025	0.00097
		March		24	0.054	8.9	6.8	0.051	3.3	0.016	0.021	0.0063	0.035	0.00021	0.0041	0.0091	0.000034	0.000082	0.021	0.0000097	4.4	0.0011	0.00025	0.00097
		April		24	0.054	8.9	6.8	0.051	3.3	0.016	0.021	0.0063	0.035	0.00021	0.0041	0.0091	0.000034	0.000082	0.021	0.0000097	4.4	0.0011	0.00025	0.00097
		May		24	0.054	8.9	6.8	0.051	3.3	0.016	0.021	0.0063	0.035	0.00021	0.0041	0.0091	0.000034	0.000082	0.021	0.0000097	4.4	0.0011	0.00025	0.00097
		June		17	0.034	6.2	4.7	0.036	2.3	0.011	0.015	0.0044	0.025	0.00015	0.0028	0.0064	0.000024	0.000058	0.015	0.0000068	3.1	0.00076	0.00017	0.00069
		July		13	0.025	4.8	3.6	0.028	1.8	0.0085	0.011	0.0034	0.019	0.00012	0.0021	0.0049	0.000019	0.000045	0.011	0.0000052	2.4	0.0006	0.00013	0.00053
		August		13	0.029	5.0	3.7	0.029	1.8	0.0087	0.011	0.0035	0.02	0.00012	0.0022	0.0051	0.00002	0.000047	0.012	0.0000054	2.5	0.00062	0.00014	0.00055
		September		14	0.03	5.1	3.7	0.029	1.9	0.0089	0.011	0.0035	0.02	0.00012	0.0022	0.0052	0.00002	0.000048	0.012	0.0000056	2.5	0.00064	0.00014	0.00057
		October		23	0.05	8.7	6.4	0.05	3.2	0.015	0.019	0.006	0.035	0.00021	0.0038	0.0089	0.000034	0.000083	0.02	0.0000095	4.3	0.0011	0.00024	0.00097
		November		23	0.05	8.7	6.4	0.05	3.2	0.015	0.019	0.006	0.035	0.00021	0.0038	0.0089	0.000034	0.000083	0.02	0.0000095	4.3	0.0011	0.00024	0.00097
		December		23	0.05	8.7	6.4	0.05	3.2	0.015	0.019	0.006	0.035	0.00021	0.0038	0.0089	0.000034	0.000083	0.02	0.0000095	4.3	0.0011	0.00024	0.00097
		January	2036	23	0.05	8.7	6.4	0.05	3.2	0.015	0.019	0.006	0.035	0.00021	0.0038	0.0089	0.000034	0.000083	0.02	0.0000095	4.3	0.0011	0.00024	0.00097
		February		23	0.05	8.7	6.4	0.05	3.2	0.015	0.019	0.006	0.035	0.00021	0.0038	0.0089	0.000034	0.000083	0.02	0.0000095	4.3	0.0011	0.00024	0.00097
		March		23	0.05	8.7	6.4	0.05	3.2	0.015	0.019	0.006	0.035	0.00021	0.0038	0.0089	0.000034	0.000083	0.02	0.0000095	4.3	0.0011	0.00024	0.00097
		April		23	0.05	8.7	6.4	0.05	3.2	0.015	0.019	0.006	0.035	0.00021	0.0038	0.0089	0.000034	0.000083	0.02	0.0000095	4.3	0.0011	0.00024	0.00097
		May		23	0.05	8.7	6.4	0.05	3.2	0.015	0.019	0.006	0.035	0.00021	0.0038	0.0089	0.000034	0.000083	0.02	0.0000095	4.3	0.0011	0.00024	0.00097
		June		16	0.031	6.1	4.4	0.035	2.2	0.01	0.013	0.0042	0.024	0.00015	0.0026	0.0063	0.000024	0.000059	0.014	0.0000067	3.0	0.00076	0.00017	0.00068
		July		12	0.023	4.7	3.4	0.027	1.7	0.008	0.0099	0.0032	0.019	0.00011	0.0019	0.0048	0.000019	0.000046	0.011	0.0000052	2.3	0.00059	0.00013	0.00053
		August		13	0.027	4.9	3.5	0.028	1.8	0.0082	0.01	0.0033	0.02	0.00012	0.002	0.005	0.00002	0.000047	0.011	0.0000053	2.4	0.00062	0.00014	0.00055
		September		13	0.028	5.0	3.6	0.029	1.8	0.0083	0.01	0.0034	0.02	0.00012	0.0021	0.0051	0.00002	0.000049	0.012	0.0000055	2.5	0.00064	0.00014	0.00057
		October		22	0.047	8.6	6.0	0.05	3.1	0.014	0.018	0.0058	0.035	0.00021	0.0035	0.0087	0.000034	0.000083	0.02	0.0000093	4.2	0.0011	0.00024	0.00097
		November		22	0.047	8.6	6.0	0.05	3.1	0.014	0.018	0.0058	0.035	0.00021	0.0035	0.0087	0.000034	0.000083	0.02	0.0000093	4.2	0.0011	0.00024	0.00097
		December		22	0.047	8.6	6.0	0.05	3.1	0.014	0.018	0.0058	0.035	0.00021	0.0035	0.0087	0.000034	0.000083	0.02	0.0000093	4.2	0.0011	0.00024	0.00097

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1.0	0.05				0.004		0.25										0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	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	2032	0.11	0.00014	0.0019	1.8	0.016	0.0000083	0.00059	0.0019	0.96	0.0001	0.000018	1.9	0.034	0.000017	0.00017	0.00024	0.00091	0.0025
		February		0.11	0.00014	0.0019	1.8	0.016	0.0000083	0.00059	0.0019	0.96	0.0001	0.000018	1.9	0.034	0.000017	0.00017	0.00024	0.00091	0.0025
		March		0.11	0.00014	0.0019	1.8	0.016	0.0000083	0.00059	0.0019	0.96	0.0001	0.000018	1.9	0.034	0.000017	0.00017	0.00024	0.00091	0.0025
		April		0.11	0.00014	0.0019	1.8	0.016	0.0000083	0.00059	0.0019	0.96	0.0001	0.000018	1.9	0.034	0.000017	0.00017	0.00024	0.00091	0.0025
		May		0.11	0.00014	0.0019	1.8	0.016	0.0000083	0.00059	0.0019	0.96	0.0001	0.000018	1.9	0.034	0.000017	0.00017	0.00024	0.00091	0.0025
		June		0.079	0.000096	0.0014	1.3	0.011	0.0000059	0.0004	0.0013	0.67	0.000072	0.000012	1.3	0.024	0.000012	0.00012	0.00016	0.00064	0.0018
		July		0.061	0.000074	0.0011	0.96	0.008	0.0000046	0.00029	0.001	0.51	0.000056	0.0000097	1.0	0.018	0.0000093	0.000091	0.00012	0.0005	0.0014
		August		0.064	0.000077	0.0011	0.99	0.0082	0.0000048	0.0003	0.0011	0.53	0.000058	0.00001	1.0	0.019	0.0000096	0.000095	0.00013	0.00052	0.0014
		September		0.066	0.000079	0.0011	1.0	0.0083	0.0000049	0.0003	0.0011	0.55	0.000059	0.00001	1.0	0.019	0.0000099	0.000098	0.00013	0.00054	0.0015
		October		0.11	0.00013	0.0019	1.7	0.014	0.0000084	0.0005	0.0019	0.93	0.0001	0.000018	1.8	0.032	0.000017	0.00017	0.00022	0.00092	0.0025
		November		0.11	0.00013	0.0019	1.7	0.014	0.0000084	0.0005	0.0019	0.93	0.0001	0.000018	1.8	0.032	0.000017	0.00017	0.00022	0.00092	0.0025
		December		0.11	0.00013	0.0019	1.7	0.014	0.0000084	0.0005	0.0019	0.93	0.0001	0.000018	1.8	0.032	0.000017	0.00017	0.00022	0.00092	0.0025
		January	2033	0.11	0.00013	0.0019	1.7	0.014	0.0000084	0.0005	0.0019	0.93	0.0001	0.000018	1.8	0.032	0.000017	0.00017	0.00022	0.00092	0.0025
		February		0.11	0.00013	0.0019	1.7	0.014	0.0000084	0.0005	0.0019	0.93	0.0001	0.000018	1.8	0.032	0.000017	0.00017	0.00022	0.00092	0.0025
		March		0.11	0.00013	0.0019	1.7	0.014	0.0000084	0.0005	0.0019	0.93	0.0001	0.000018	1.8	0.032	0.000017	0.00017	0.00022	0.00092	0.0025
		April		0.11	0.00013	0.0019	1.7	0.014	0.0000084	0.0005	0.0019	0.93	0.0001	0.000018	1.8	0.032	0.000017	0.00017	0.00022	0.00092	0.0025
		May		0.11	0.00013	0.0019	1.7	0.014	0.0000084	0.0005	0.0019	0.93	0.0001	0.000018	1.8	0.032	0.000017	0.00017	0.00022	0.00092	0.0025
		June		0.079	0.000094	0.0013	1.2	0.0095	0.0000059	0.00034	0.0013	0.65	0.00007	0.000012	1.2	0.022	0.000012	0.00012	0.00015	0.00065	0.0018
		July		0.061	0.000073	0.001	0.92	0.007	0.0000046	0.00025	0.001	0.5	0.000054	0.0000097	0.91	0.017	0.0000093	0.000092	0.00011	0.00051	0.0014
		August		0.064	0.000075	0.0011	0.95	0.0072	0.0000048	0.00026	0.001	0.52	0.000056	0.00001	0.94	0.018	0.0000097	0.000096	0.00011	0.00053	0.0014
		September		0.066	0.000077	0.0011	0.97	0.0072	0.0000049	0.00026	0.0011	0.53	0.000058	0.00001	0.95	0.018	0.000010	0.000098	0.00011	0.00054	0.0015
		October		0.11	0.00013	0.0019	1.7	0.012	0.0000084	0.00043	0.0018	0.91	0.000099	0.000018	1.6	0.031	0.000017	0.00017	0.00019	0.00092	0.0025
		November		0.11	0.00013	0.0019	1.7	0.012	0.0000084	0.00043	0.0018	0.91	0.000099	0.000018	1.6	0.031	0.000017	0.00017	0.00019	0.00092	0.0025
		December		0.11	0.00013	0.0019	1.7	0.012	0.0000084	0.00043	0.0018	0.91	0.000099	0.000018	1.6	0.031	0.000017	0.00017	0.00019	0.00092	0.0025
		January	2034	0.11	0.00013	0.0019	1.7	0.012	0.0000084	0.00043	0.0018	0.91	0.000099	0.000018	1.6	0.031	0.000017	0.00017	0.00019	0.00092	0.0025
		February		0.11	0.00013	0.0019	1.7	0.012	0.0000084	0.00043	0.0018	0.91	0.000099	0.000018	1.6	0.031	0.000017	0.00017	0.00019	0.00092	0.0025
		March		0.11	0.00013	0.0019	1.7	0.012	0.0000084	0.00043	0.0018	0.91	0.000099	0.000018	1.6	0.031	0.000017	0.00017	0.00019	0.00092	0.0025
		April		0.11	0.00013	0.0019	1.7	0.012	0.0000084	0.00043	0.0018	0.91	0.000099	0.000018	1.6	0.031	0.000017	0.00017	0.00019	0.00092	0.0025
		May		0.11	0.00013	0.0019	1.7	0.012	0.0000084	0.00043	0.0018	0.91	0.000099	0.000018	1.6	0.031	0.000017	0.00017	0.00019	0.00092	0.0025
		June		0.079	0.000092	0.0013	1.2	0.0083	0.0000059	0.00029	0.0013	0.64	0.000069	0.000013	1.1	0.021	0.000012	0.00012	0.00013	0.00065	0.0018
		July		0.061	0.000072	0.001	0.89	0.0062	0.0000046	0.00021	0.00099	0.49	0.000053	0.0000098	0.84	0.016	0.0000094	0.000093	0.000097	0.00051	0.0014
		August		0.064	0.000074	0.0011	0.92	0.0063	0.0000048	0.00022	0.001	0.51	0.000055	0.00001	0.87	0.017	0.0000098	0.000096	0.0001	0.00053	0.0014
		September		0.066	0.000076	0.0011	0.94	0.0064	0.0000049	0.00022	0.0011	0.52	0.000057	0.00001	0.88	0.017	0.00001	0.000099	0.0001	0.00054	0.0014
		October		0.11	0.00013	0.0019	1.6	0.011	0.0000085	0.00037	0.0018	0.89	0.000097	0.000018	1.5	0.03	0.000017	0.00017	0.00017	0.00093	0.0025
		November		0.11	0.00013	0.0019	1.6	0.011	0.0000085	0.00037	0.0018	0.89	0.000097	0.000018	1.5	0.03	0.000017	0.00017	0.00017	0.00093	0.0025
		December		0.11	0.00013	0.0019	1.6	0.011	0.0000085	0.00037	0.0018	0.89	0.000097	0.000018	1.5	0.03	0.000017	0.00017	0.00017	0.00093	0.0025
		January	2035	0.11	0.00013	0.0019	1.6	0.011	0.0000085	0.00037	0.0018	0.89	0.000097	0.000018	1.5	0.03	0.000017	0.00017	0.00017	0.00093	0.0025
		February		0.11	0.00013	0.0019	1.6	0.011	0.0000085	0.00037	0.0018	0.89	0.000097	0.000018	1.5	0.03	0.000017	0.00017	0.00017	0.00093	0.0025
		March		0.11	0.00013	0.0019	1.6	0.011	0.0000085	0.00037	0.0018	0.89	0.000097	0.000018	1.5	0.03	0.000017	0.00017	0.00017	0.00093	0.0025
		April		0.11	0.00013	0.0019	1.6	0.011	0.0000085	0.00037	0.0018	0.89	0.000097	0.000018	1.5	0.03	0.000017	0.00017	0.00017	0.00093	0.0025
		May		0.11	0.00013	0.0019	1.6	0.011	0.0000085	0.00037	0.0018	0.89	0.000097	0.000018	1.5	0.03	0.000017	0.00017	0.00017	0.00093	0.0025
		June		0.079	0.000091	0.0013	1.1	0.0074	0.000006	0.00025	0.0013	0.62	0.000068	0.000013	1.0	0.021	0.000012	0.00012	0.00012	0.00065	0.0018
		July		0.061	0.000071	0.001	0.87	0.0055	0.0000046	0.00018	0.00098	0.48	0.000052	0.0000098	0.79	0.016	0.0000094	0.000093	0.000088	0.00051	0.0014
		August		0.064	0.000073	0.0011	0.89	0.0056	0.0000048	0.00019	0.001	0.5	0.000055	0.00001	0.81	0.016	0.0000098	0.000097	0.000093	0.00053	0.0014
		September		0.066	0.000075	0.0011	0.91	0.0057	0.000005	0.00019	0.001	0.51	0.000056	0.00001	0.83	0.017	0.00001	0.000099	0.000095	0.00054	0.0014
		October		0.11	0.00013	0.0018	1.6	0.0096	0.0000085	0.00033	0.0018	0.88	0.000095	0.000018	1.4	0.029	0.000017	0.00017	0.00016	0.00093	0.0025
		November		0.11	0.00013	0.0018	1.6	0.0096	0.0000085	0.00033	0.0018	0.88	0.000095	0.000018	1.4	0.029	0.000017	0.00017	0.00016	0.00093	0.0025
		December		0.11	0.00013	0.0018	1.6	0.0096	0.0000085	0.00033	0.0018	0.88	0.000095	0.000018	1.4	0.029	0.000017	0.00017	0.00016	0.00093	0.0025
		January	2036	0.11	0.00013	0.0018	1.6	0.0096	0.0000085	0.00033	0.0018	0.88	0.000095	0.000018	1.4	0.029	0.000017	0.00017	0.00016	0.00093	0.0025
		February		0.11	0.00013	0.0018	1.6	0.0096	0.0000085	0.00033	0.0018	0.88	0.000095	0.000018	1.4	0.029	0.000017	0.00017	0.00016	0.00093	0.0025
		March		0.11	0.00013	0.0018	1.6	0.0096	0.0000085	0.00033	0.0018	0.88	0.000095	0.000018	1.4	0.029	0.000017	0.00017	0.00016	0.00093	0.0025
		April		0.11	0.00013	0.0018	1.6	0.0096	0.0000085	0.00033	0.0018	0.88	0.000095	0.000018	1.4	0.029	0.000017	0.00017	0.00016	0.00093	0.0025
		May		0.11	0.00013	0.0018	1.6	0.0096	0.0000085	0.00033	0.0018	0.88	0.000095	0.000018	1.4	0.029	0.000017	0.00017	0.00016	0.00093	0.0025
		June		0.079	0.00009	0.0013	1.1	0.0066	0.000006	0.00022	0.0012	0.61	0.000067	0.000013	0.98	0.02	0.000012	0.00012	0.00011	0.00066	0.0018
		July		0.061	0.00007	0.001	0.84	0.0049	0.0000047	0.00016	0.00097	0.47	0.000052	0.0000098	0.74	0.015	0.0000095	0.000093	0.00008	0.00051	0.0014
		August		0.064	0.000072	0.001	0.87	0.0051	0.0000048	0.00017	0.001	0.49	0.000054	0.00001	0.77	0.016	0.0000099	0.000097	0.000085	0.00053	0.0014
		September		0.066	0.000074	0.0011	0.89	0.0051	0.000005	0.00017	0.001	0.51	0.000055	0.00001	0.78	0.016	0.00001	0.00010	0.000087	0.00055	0.0014
		October		0.11	0.00013	0.0018	1.5	0.0087	0.0000085	0.00029	0.0017	0.87	0.000094	0.000018	1.3	0.028	0.000017	0.00017	0.00015	0.00093	0.0025
		November		0.11	0.00013	0.0018	1.5	0.0087	0.0000085	0.00029	0.0017	0.87	0.000094	0.000018	1.3	0.028	0.000017	0.00017	0.00015	0.00093	0.0025
		December		0.11	0.00013	0.0018	1.5	0.0087	0.0000085	0.00029	0.0017	0.87	0.000094	0.000018	1.3	0.028	0.000017	0.00017	0.00015	0.00093	0.0025

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12			2.93	0.01	0.1		*0.025*				1.5	0.00004				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	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	2037	22	0.047	8.6	6.0	0.05	3.1	0.014	0.018	0.0058	0.035	0.00021	0.0035	0.0087	0.000034	0.000083	0.02	0.0000093	4.2	0.0011	0.00024	0.00097
		February		22	0.047	8.6	6.0	0.05	3.1	0.014	0.018	0.0058	0.035	0.00021	0.0035	0.0087	0.000034	0.000083	0.02	0.0000093	4.2	0.0011	0.00024	0.00097
		March		22	0.047	8.6	6.0	0.05	3.1	0.014	0.018	0.0058	0.035	0.00021	0.0035	0.0087	0.000034	0.000083	0.02	0.0000093	4.2	0.0011	0.00024	0.00097
		April		22	0.047	8.6	6.0	0.05	3.1	0.014	0.018	0.0058	0.035	0.00021	0.0035	0.0087	0.000034	0.000083	0.02	0.0000093	4.2	0.0011	0.00024	0.00097
		May		22	0.047	8.6	6.0	0.05	3.1	0.014	0.018	0.0058	0.035	0.00021	0.0035	0.0087	0.000034	0.000083	0.02	0.0000093	4.2	0.0011	0.00024	0.00097
		June		16	0.029	6.1	4.2	0.035	2.2	0.0099	0.012	0.004	0.025	0.00015	0.0024	0.0061	0.000024	0.000059	0.014	0.0000066	2.9	0.00076	0.00017	0.00068
		July		12	0.021	4.7	3.2	0.027	1.7	0.0075	0.0091	0.0031	0.019	0.00011	0.0018	0.0048	0.000019	0.000046	0.011	0.0000051	2.3	0.00059	0.00013	0.00053
		August		13	0.025	4.9	3.3	0.028	1.7	0.0078	0.0094	0.0032	0.02	0.00012	0.0019	0.0049	0.00002	0.000048	0.011	0.0000053	2.4	0.00062	0.00014	0.00055
		September		13	0.027	5.0	3.4	0.029	1.8	0.0079	0.0095	0.0033	0.02	0.00012	0.0019	0.005	0.00002	0.000049	0.011	0.0000054	2.4	0.00064	0.00014	0.00057
		October		22	0.044	8.5	5.8	0.05	3.0	0.013	0.016	0.0056	0.035	0.00021	0.0033	0.0086	0.000034	0.000083	0.019	0.0000092	4.1	0.0011	0.00024	0.00097
		November		22	0.044	8.5	5.8	0.05	3.0	0.013	0.016	0.0056	0.035	0.00021	0.0033	0.0086	0.000034	0.000083	0.019	0.0000092	4.1	0.0011	0.00024	0.00097
		December		22	0.044	8.5	5.8	0.05	3.0	0.013	0.016	0.0056	0.035	0.00021	0.0033	0.0086	0.000034	0.000083	0.019	0.0000092	4.1	0.0011	0.00024	0.00097
		January	2038	22	0.044	8.5	5.8	0.05	3.0	0.013	0.016	0.0056	0.035	0.00021	0.0033	0.0086	0.000034	0.000083	0.019	0.0000092	4.1	0.0011	0.00024	0.00097
		February		22	0.044	8.5	5.8	0.05	3.0	0.013	0.016	0.0056	0.035	0.00021	0.0033	0.0086	0.000034	0.000083	0.019	0.0000092	4.1	0.0011	0.00024	0.00097
		March		22	0.044	8.5	5.8	0.05	3.0	0.013	0.016	0.0056	0.035	0.00021	0.0033	0.0086	0.000034	0.000083	0.019	0.0000092	4.1	0.0011	0.00024	0.00097
		April		22	0.044	8.5	5.8	0.05	3.0	0.013	0.016	0.0056	0.035	0.00021	0.0033	0.0086	0.000034	0.000083	0.019	0.0000092	4.1	0.0011	0.00024	0.00097
		May		22	0.044	8.5	5.8	0.05	3.0	0.013	0.016	0.0056	0.035	0.00021	0.0033	0.0086	0.000034	0.000083	0.019	0.0000092	4.1	0.0011	0.00024	0.00097
		June		15	0.027	6.0	4.1	0.035	2.1	0.0094	0.011	0.0039	0.025	0.00014	0.0023	0.0061	0.000024	0.000059	0.013	0.0000065	2.9	0.00076	0.00017	0.00068
		July		12	0.02	4.6	3.1	0.027	1.7	0.0072	0.0084	0.003	0.019	0.00011	0.0017	0.0047	0.000019	0.000046	0.01	0.000005	2.2	0.00059	0.00013	0.00053
		August		12	0.024	4.8	3.2	0.028	1.7	0.0074	0.0087	0.0031	0.02	0.00012	0.0018	0.0049	0.00002	0.000048	0.011	0.0000052	2.3	0.00062	0.00013	0.00055
		September		13	0.025	4.9	3.3	0.029	1.8	0.0075	0.0088	0.0032	0.02	0.00012	0.0018	0.005	0.00002	0.000049	0.011	0.0000054	2.4	0.00064	0.00014	0.00057
		October		21	0.042	8.4	5.6	0.049	3.0	0.013	0.015	0.0054	0.035	0.00021	0.0031	0.0085	0.000034	0.000084	0.019	0.0000091	4.0	0.0011	0.00023	0.00097
		November		21	0.042	8.4	5.6	0.049	3.0	0.013	0.015	0.0054	0.035	0.00021	0.0031	0.0085	0.000034	0.000084	0.019	0.0000091	4.0	0.0011	0.00023	0.00097
		December		21	0.042	8.4	5.6	0.049	3.0	0.013	0.015	0.0054	0.035	0.00021	0.0031	0.0085	0.000034	0.000084	0.019	0.0000091	4.0	0.0011	0.00023	0.00097
		January	2039	21	0.042	8.4	5.6	0.049	3.0	0.013	0.015	0.0054	0.035	0.00021	0.0031	0.0085	0.000034	0.000084	0.019	0.0000091	4.0	0.0011	0.00023	0.00097
		February		21	0.042	8.4	5.6	0.049	3.0	0.013	0.015	0.0054	0.035	0.00021	0.0031	0.0085	0.000034	0.000084	0.019	0.0000091	4.0	0.0011	0.00023	0.00097
		March		21	0.042	8.4	5.6	0.049	3.0	0.013	0.015	0.0054	0.035	0.00021	0.0031	0.0085	0.000034	0.000084	0.019	0.0000091	4.0	0.0011	0.00023	0.00097
		April		21	0.042	8.4	5.6	0.049	3.0	0.013	0.015	0.0054	0.035	0.00021	0.0031	0.0085	0.000034	0.000084	0.019	0.0000091	4.0	0.0011	0.00023	0.00097
		May		21	0.042	8.4	5.6	0.049	3.0	0.013	0.015	0.0054	0.035	0.00021	0.0031	0.0085	0.000034	0.000084	0.019	0.0000091	4.0	0.0011	0.00023	0.00097
		June		15	0.026	5.9	3.9	0.035	2.1	0.009	0.01	0.0038	0.024	0.00014	0.0022	0.006	0.000024	0.000059	0.013	0.0000064	2.9	0.00076	0.00016	0.00068
		July		12	0.019	4.6	3.0	0.027	1.6	0.0069	0.0079	0.0029	0.019	0.00011	0.0016	0.0047	0.000019	0.000046	0.01	0.000005	2.2	0.00059	0.00013	0.00053
		August		12	0.023	4.8	3.1	0.028	1.7	0.0071	0.0081	0.003	0.02	0.00012	0.0017	0.0048	0.00002	0.000048	0.011	0.0000052	2.3	0.00062	0.00013	0.00055
		September		12	0.024	4.9	3.2	0.029	1.7	0.0072	0.0082	0.0031	0.02	0.00012	0.0018	0.0049	0.00002	0.000049	0.011	0.0000053	2.3	0.00064	0.00014	0.00056
		October		21	0.04	8.4	5.4	0.049	3.0	0.012	0.014	0.0053	0.035	0.0002	0.003	0.0084	0.000034	0.000084	0.018	0.0000091	4.0	0.0011	0.00023	0.00096
		November		21	0.04	8.4	5.4	0.049	3.0	0.012	0.014	0.0053	0.035	0.0002	0.003	0.0084	0.000034	0.000084	0.018	0.0000091	4.0	0.0011	0.00023	0.00096
		December		21	0.04	8.4	5.4	0.049	3.0	0.012	0.014	0.0053	0.035	0.0002	0.003	0.0084	0.000034	0.000084	0.018	0.0000091	4.0	0.0011	0.00023	0.00096
			MINIMUM	12	0.019	4.6	3.0	0.027	1.6	0.0069	0.0079	0.0029	0.019	0.00011	0.0016	0.0047	0.000018	0.000043	0.01	0.000005	2.2	0.00059	0.00013	0.00053
			MAXIMUM	41	0.17	12	14	0.059	5.3	0.038	0.24	**0.012**	0.05	0.00029	0.0094	0.013	0.000035	0.000084	0.037	0.000013	6.7	0.0014	0.00034	0.0011
			AVERAGE	24	0.064	8.2	7.1	0.045	3.2	0.018	0.043	0.0065	0.032	0.0002	0.0045	0.0085	0.000029	0.00007	0.021	0.0000089	4.2	0.00098	0.00023	0.00085

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.
[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)

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1.0	0.05				0.004		0.25										0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	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	2037	0.11	0.00013	0.0018	1.5	0.0087	0.0000085	0.00029	0.0017	0.87	0.000094	0.000018	1.3	0.028	0.000017	0.00017	0.00015	0.00093	0.0025
		February		0.11	0.00013	0.0018	1.5	0.0087	0.0000085	0.00029	0.0017	0.87	0.000094	0.000018	1.3	0.028	0.000017	0.00017	0.00015	0.00093	0.0025
		March		0.11	0.00013	0.0018	1.5	0.0087	0.0000085	0.00029	0.0017	0.87	0.000094	0.000018	1.3	0.028	0.000017	0.00017	0.00015	0.00093	0.0025
		April		0.11	0.00013	0.0018	1.5	0.0087	0.0000085	0.00029	0.0017	0.87	0.000094	0.000018	1.3	0.028	0.000017	0.00017	0.00015	0.00093	0.0025
		May		0.11	0.00013	0.0018	1.5	0.0087	0.0000085	0.00029	0.0017	0.87	0.000094	0.000018	1.3	0.028	0.000017	0.00017	0.00015	0.00093	0.0025
		June		0.079	0.000089	0.0013	1.1	0.006	0.000006	0.00019	0.0012	0.61	0.000066	0.000013	0.93	0.02	0.000012	0.00012	0.000099	0.00066	0.0017
		July		0.061	0.000069	0.0010	0.83	0.0045	0.0000047	0.00014	0.00096	0.47	0.000051	0.0000098	0.71	0.015	0.0000095	0.000094	0.000074	0.00051	0.0014
		August		0.064	0.000072	0.001	0.86	0.0046	0.0000049	0.00015	0.00099	0.49	0.000053	0.00001	0.73	0.016	0.0000099	0.000097	0.000079	0.00053	0.0014
		September		0.066	0.000073	0.0011	0.88	0.0047	0.000005	0.00015	0.001	0.5	0.000055	0.00001	0.75	0.016	0.00001	0.00010	0.000081	0.00055	0.0014
		October		0.11	0.00013	0.0018	1.5	0.0079	0.0000085	0.00026	0.0017	0.86	0.000093	0.000018	1.3	0.027	0.000017	0.00017	0.00014	0.00093	0.0024
		November		0.11	0.00013	0.0018	1.5	0.0079	0.0000085	0.00026	0.0017	0.86	0.000093	0.000018	1.3	0.027	0.000017	0.00017	0.00014	0.00093	0.0024
		December		0.11	0.00013	0.0018	1.5	0.0079	0.0000085	0.00026	0.0017	0.86	0.000093	0.000018	1.3	0.027	0.000017	0.00017	0.00014	0.00093	0.0024
		January	2038	0.11	0.00013	0.0018	1.5	0.0079	0.0000085	0.00026	0.0017	0.86	0.000093	0.000018	1.3	0.027	0.000017	0.00017	0.00014	0.00093	0.0024
		February		0.11	0.00013	0.0018	1.5	0.0079	0.0000085	0.00026	0.0017	0.86	0.000093	0.000018	1.3	0.027	0.000017	0.00017	0.00014	0.00093	0.0024
		March		0.11	0.00013	0.0018	1.5	0.0079	0.0000085	0.00026	0.0017	0.86	0.000093	0.000018	1.3	0.027	0.000017	0.00017	0.00014	0.00093	0.0024
		April		0.11	0.00013	0.0018	1.5	0.0079	0.0000085	0.00026	0.0017	0.86	0.000093	0.000018	1.3	0.027	0.000017	0.00017	0.00014	0.00093	0.0024
		May		0.11	0.00013	0.0018	1.5	0.0079	0.0000085	0.00026	0.0017	0.86	0.000093	0.000018	1.3	0.027	0.000017	0.00017	0.00014	0.00093	0.0024
		June		0.079	0.000088	0.0013	1.1	0.0054	0.000006	0.00017	0.0012	0.6	0.000065	0.000013	0.89	0.019	0.000012	0.00012	0.000093	0.00066	0.0017
		July		0.061	0.000069	0.00099	0.81	0.0041	0.0000047	0.00013	0.00095	0.46	0.000051	0.0000099	0.68	0.015	0.0000095	0.000094	0.00007	0.00051	0.0014
		August		0.064	0.000071	0.001	0.84	0.0042	0.0000049	0.00013	0.00098	0.48	0.000053	0.00001	0.7	0.015	0.0000099	0.000098	0.000074	0.00053	0.0014
		September		0.066	0.000073	0.0011	0.86	0.0043	0.000005	0.00014	0.001	0.5	0.000054	0.000011	0.72	0.016	0.00001	0.0001	0.000076	0.00055	0.0014
		October		0.11	0.00012	0.0018	1.5	0.0073	0.0000086	0.00023	0.0017	0.85	0.000093	0.000018	1.2	0.027	0.000017	0.00017	0.00013	0.00094	0.0024
		November		0.11	0.00012	0.0018	1.5	0.0073	0.0000086	0.00023	0.0017	0.85	0.000093	0.000018	1.2	0.027	0.000017	0.00017	0.00013	0.00094	0.0024
		December		0.11	0.00012	0.0018	1.5	0.0073	0.0000086	0.00023	0.0017	0.85	0.000093	0.000018	1.2	0.027	0.000017	0.00017	0.00013	0.00094	0.0024
		January	2039	0.11	0.00012	0.0018	1.5	0.0073	0.0000086	0.00023	0.0017	0.85	0.000093	0.000018	1.2	0.027	0.000017	0.00017	0.00013	0.00094	0.0024
		February		0.11	0.00012	0.0018	1.5	0.0073	0.0000086	0.00023	0.0017	0.85	0.000093	0.000018	1.2	0.027	0.000017	0.00017	0.00013	0.00094	0.0024
		March		0.11	0.00012	0.0018	1.5	0.0073	0.0000086	0.00023	0.0017	0.85	0.000093	0.000018	1.2	0.027	0.000017	0.00017	0.00013	0.00094	0.0024
		April		0.11	0.00012	0.0018	1.5	0.0073	0.0000086	0.00023	0.0017	0.85	0.000093	0.000018	1.2	0.027	0.000017	0.00017	0.00013	0.00094	0.0024
		May		0.11	0.00012	0.0018	1.5	0.0073	0.0000086	0.00023	0.0017	0.85	0.000093	0.000018	1.2	0.027	0.000017	0.00017	0.00013	0.00094	0.0024
		June		0.079	0.000088	0.0013	1.0	0.005	0.000006	0.00016	0.0012	0.59	0.000065	0.000013	0.85	0.019	0.000012	0.00012	0.000087	0.00066	0.0017
		July		0.061	0.000068	0.00099	0.8	0.0038	0.0000047	0.00012	0.00094	0.46	0.00005	0.0000099	0.65	0.015	0.0000096	0.000094	0.000066	0.00051	0.0014
		August		0.064	0.000071	0.001	0.83	0.0039	0.0000049	0.00012	0.00098	0.48	0.000052	0.00001	0.68	0.015	0.0000099	0.000098	0.00007	0.00053	0.0014
		September		0.066	0.000072	0.001	0.85	0.004	0.000005	0.00012	0.001	0.49	0.000054	0.000011	0.69	0.015	0.00001	0.0001	0.000072	0.00055	0.0014
		October		0.11	0.00012	0.0018	1.5	0.0068	0.0000086	0.00021	0.0017	0.84	0.000092	0.000018	1.2	0.026	0.000017	0.00017	0.00012	0.00094	0.0024
		November		0.11	0.00012	0.0018	1.5	0.0068	0.0000086	0.00021	0.0017	0.84	0.000092	0.000018	1.2	0.026	0.000017	0.00017	0.00012	0.00094	0.0024
		December		0.11	0.00012	0.0018	1.5	0.0068	0.0000086	0.00021	0.0017	0.84	0.000092	0.000018	1.2	0.026	0.000017	0.00017	0.00012	0.00094	0.0024
			MINIMUM	0.061	0.000068	0.00099	0.8	0.0038	0.0000045	0.00012	0.00094	0.46	0.00005	0.0000095	0.65	0.015	0.000009	0.000089	0.000066	0.00049	0.0014
			MAXIMUM	0.14	0.00018	0.0023	2.4	0.029	0.0000086	0.0011	0.0026	1.2	0.00013	0.000019	3.1	0.047	0.000017	0.00017	0.00039	0.00095	0.0036
			AVERAGE	0.10	0.00012	0.0017	1.5	0.013	0.0000072	0.00046	0.0017	0.82	0.000089	0.000015	1.6	0.029	0.000015	0.00014	0.00019	0.0008	0.0023

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.
[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)

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12			2.93	0.01	0.1		*0.025*				1.5	0.00004				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	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 Outlet	*Construction and Operations*	January	2018	15	0	5.2	4.2	0.026	2.3	0.0065	0.0051	0.0025	0.0078	0.0001	0.00039	0.006	0.00002	0.00005	0.01	0.000005	3.1	0.00012	0.0001	0.00052
		February		15	0	5.2	4.2	0.026	2.3	0.0065	0.0051	0.0025	0.0078	0.0001	0.00039	0.006	0.00002	0.00005	0.01	0.0000051	3.1	0.00012	0.0001	0.00052
		March		15	0	5.2	4.2	0.026	2.3	0.0065	0.0051	0.0025	0.0078	0.0001	0.00039	0.006	0.00002	0.00005	0.01	0.0000051	3.1	0.00012	0.0001	0.00052
		April		15	0	5.2	4.2	0.026	2.3	0.0066	0.0051	0.0025	0.0078	0.0001	0.00039	0.006	0.00002	0.00005	0.01	0.0000051	3.1	0.00012	0.0001	0.00052
		May		15	0	5.2	4.2	0.026	2.3	0.0066	0.0051	0.0025	0.0078	0.0001	0.00039	0.006	0.00002	0.00005	0.01	0.0000051	3.1	0.00012	0.0001	0.00052
		June		14	0.000024	5.3	3.6	0.03	2.0	0.0068	0.0098	0.0086	**0.19**	0.00012	0.0027	0.0072	0.000026	0.000056	0.011	0.0000065	2.9	0.0051	0.00041	0.00084
		July		11	0.000056	4.2	2.6	0.026	1.5	0.0055	0.0076	0.0093	**0.24**	0.0001	0.0032	0.0063	0.000023	0.000047	0.009	0.0000058	2.3	0.0064	0.00046	0.00082
		August		12	0.000068	4.4	2.8	0.026	1.5	0.006	0.019	0.009	**0.23**	0.0001	0.0031	0.0064	0.000023	0.000048	0.0092	0.0000058	2.4	0.0061	0.00045	0.00081
		September		11	0.00012	4.3	2.8	0.026	1.5	0.006	0.025	0.0087	**0.22**	0.0001	0.003	0.0063	0.000023	0.000047	0.0091	0.0000057	2.4	0.0058	0.00043	0.00079
		October		12	0.00016	4.6	2.9	0.027	1.6	0.0063	0.026	0.0091	**0.23**	0.00011	0.0031	0.0066	0.000024	0.000049	0.0095	0.000006	2.5	0.0061	0.00045	0.00083
		November		12	0.00016	4.6	2.9	0.027	1.6	0.0063	0.026	0.0091	**0.23**	0.00011	0.0031	0.0066	0.000024	0.000049	0.0096	0.000006	2.5	0.0061	0.00045	0.00083
		December		12	0.00016	4.6	2.9	0.027	1.6	0.0063	0.026	0.0091	**0.23**	0.00011	0.0031	0.0067	0.000024	0.000049	0.0096	0.000006	2.5	0.0061	0.00045	0.00084
		January	2019	12	0.00016	4.6	2.9	0.027	1.6	0.0063	0.026	0.0091	**0.23**	0.00011	0.0031	0.0067	0.000024	0.000049	0.0096	0.000006	2.5	0.0061	0.00045	0.00084
		February		12	0.00016	4.6	2.9	0.027	1.6	0.0064	0.026	0.0092	**0.23**	0.00011	0.0031	0.0067	0.000024	0.00005	0.0096	0.000006	2.5	0.0061	0.00045	0.00084
		March		12	0.00016	4.6	3.0	0.027	1.6	0.0064	0.026	0.0092	**0.23**	0.00011	0.0031	0.0067	0.000024	0.00005	0.0096	0.000006	2.5	0.0061	0.00045	0.00084
		April		12	0.00016	4.6	3.0	0.027	1.6	0.0064	0.026	0.0092	**0.23**	0.00011	0.0031	0.0067	0.000024	0.00005	0.0096	0.000006	2.5	0.0061	0.00045	0.00084
		May		12	0.00016	4.6	3.0	0.028	1.6	0.0064	0.026	0.0092	**0.23**	0.00011	0.0031	0.0067	0.000024	0.00005	0.0096	0.000006	2.5	0.0061	0.00045	0.00084
		June		39	0.000026	6.7	17	0.031	3.8	0.013	0.027	0.0031	0.039	0.000087	0.00075	0.018	0.000052	0.000043	0.0086	0.0000045	10	0.00091	0.00013	0.0005
		July		39	0.0078	6.3	17	0.028	3.6	0.014	0.046	0.003	0.019	0.00007	0.00051	0.017	0.000049	0.000034	0.0088	0.000004	9.8	0.00039	0.000094	0.0004
		August		46	0.093	7.7	20	0.034	4.3	0.024	0.27	0.0068	0.036	0.000093	0.0015	0.018	0.000048	0.000036	0.016	0.000006	10	0.00088	0.00016	0.00051
		September		58	0.2	10	25	0.045	5.5	0.036	0.46	**0.012**	0.057	0.00013	0.0032	0.019	0.000045	0.00004	0.03	0.0000097	11	0.0015	0.00025	0.00068
		October		120	0.53	22	52	0.094	11	0.087	1.2	**0.026**	**0.14**	0.00026	0.0078	0.036	0.000071	0.000067	0.075	0.000023	20	0.0037	0.0006	0.0014
		November		120	0.54	23	51	0.099	11	0.091	1.2	**0.027**	**0.16**	0.00028	0.0081	0.035	0.000068	0.000074	0.08	0.000024	20	0.0043	0.00066	0.0015
		December		105	0.45	21	45	0.092	10	0.08	1.0	**0.025**	**0.15**	0.00027	0.0069	0.031	0.000063	0.000078	0.072	0.000023	17	0.004	0.00061	0.0015
		January	2020	104	0.43	21	44	0.092	10.0	0.079	1.0	**0.025**	**0.15**	0.00026	0.0068	0.031	0.000062	0.000079	0.072	0.000023	17	0.004	0.00061	0.0015
		February		104	0.43	21	44	0.092	10.0	0.079	1.0	**0.025**	**0.15**	0.00026	0.0068	0.031	0.000062	0.000079	0.072	0.000023	17	0.004	0.00061	0.0015
		March		104	0.43	21	44	0.092	10.0	0.079	1.0	**0.025**	**0.15**	0.00026	0.0068	0.031	0.000062	0.000079	0.072	0.000023	17	0.004	0.00061	0.0015
		April		104	0.43	21	44	0.092	10.0	0.079	1.0	**0.025**	**0.15**	0.00026	0.0068	0.031	0.000062	0.000079	0.072	0.000023	17	0.004	0.00061	0.0015
		May		104	0.43	21	44	0.092	10.0	0.079	1.0	**0.025**	**0.15**	0.00026	0.0068	0.031	0.000062	0.000079	0.072	0.000023	17	0.004	0.00061	0.0015
		June		66	0.23	14	27	0.062	6.4	0.053	0.7	**0.016**	0.10	0.00018	0.0043	0.019	0.00004	0.000059	0.047	0.000015	11	0.0026	0.00041	0.001
		July		48	0.15	11	19	0.047	4.8	0.04	0.52	**0.013**	0.078	0.00015	0.0043	0.014	0.000027	0.000046	0.038	0.000012	7.3	0.0021	0.00032	0.0008
		August		52	0.24	12	20	0.051	5.6	0.043	0.59	**0.014**	0.082	0.00023	0.0095	0.014	0.000028	0.000047	0.047	0.000013	7.8	0.0023	0.00038	0.0009
		September		52	0.28	12	20	0.051	5.9	0.042	0.59	**0.015**	0.08	0.00027	0.012	0.014	0.000027	0.000047	0.05	0.000013	7.7	0.0023	0.0004	0.00093
		October		79	0.41	18	31	0.077	8.8	0.064	0.91	**0.023**	**0.12**	0.00041	0.019	0.022	0.00004	0.000068	0.077	0.00002	12	0.0035	0.00061	0.0014
		November		96	0.46	22	38	0.092	11	0.077	1.1	**0.028**	**0.15**	0.00047	0.021	0.026	0.000047	0.000079	0.094	0.000024	14	0.0042	0.00073	0.0016
		December		102	0.44	23	41	0.096	11	0.081	1.1	**0.029**	**0.16**	0.00046	0.021	0.028	0.000048	0.000081	0.098	0.000026	15	0.0045	0.00076	0.0017
		January	2021	106	0.41	24	43	0.099	11	0.083	1.1	**0.03**	**0.17**	0.00045	0.02	0.028	0.000049	0.000081	0.1	0.000027	15	0.0046	0.00077	0.0017
		February		107	0.38	24	43	0.099	11	0.084	1.1	**0.031**	**0.17**	0.00043	0.019	0.029	0.000049	0.000082	0.1	0.000027	15	0.0048	0.00078	0.0017
		March		107	0.36	24	44	0.10	11	0.085	1.1	**0.031**	**0.17**	0.00042	0.018	0.029	0.000049	0.000082	0.1	0.000027	15	0.0049	0.00078	0.0017
		April		107	0.34	24	44	0.10	11	0.086	1.0	**0.032**	**0.18**	0.0004	0.017	0.029	0.000049	0.000083	0.10	0.000027	15	0.005	0.00078	0.0017
		May		107	0.31	24	44	0.10	11	0.087	1.0	**0.032**	**0.18**	0.00039	0.016	0.029	0.000049	0.000083	0.099	0.000027	15	0.0051	0.00078	0.0017
		June		68	0.18	15	27	0.066	7.0	0.059	0.64	**0.02**	**0.12**	0.00025	0.0092	0.019	0.000034	0.000061	0.062	0.000018	9.9	0.0032	0.0005	0.0012
		July		48	0.16	11	19	0.048	5.1	0.046	0.54	**0.015**	0.084	0.00021	0.0085	0.013	0.000025	0.000046	0.046	0.000013	6.9	0.0023	0.00037	0.00087
		August		49	0.26	12	18	0.049	5.6	0.047	0.6	**0.015**	0.086	0.00029	0.013	0.013	0.000025	0.000046	0.051	0.000013	7.0	0.0024	0.00041	0.00094
		September		47	0.3	11	17	0.048	5.6	0.045	0.6	**0.014**	0.081	0.00032	0.015	0.013	0.000025	0.000046	0.051	0.000013	6.7	0.0023	0.00041	0.00094
		October		68	0.44	17	25	0.069	8.2	0.067	0.91	**0.021**	**0.12**	0.00048	0.023	0.019	0.000035	0.000066	0.075	0.000018	9.7	0.0035	0.00061	0.0014
		November		80	0.49	19	29	0.082	9.5	0.08	1.1	**0.025**	**0.15**	0.00055	**0.026**	0.022	0.000041	0.000077	0.088	0.000022	11	0.0042	0.00072	0.0016
		December		83	0.47	20	30	0.084	9.6	0.083	1.1	**0.026**	**0.16**	0.00053	0.025	0.022	0.000042	0.000079	0.089	0.000022	12	0.0044	0.00073	0.0016
		January	2022	84	0.44	20	31	0.084	9.6	0.085	1.1	**0.027**	**0.16**	0.00051	0.023	0.023	0.000043	0.000079	0.089	0.000022	12	0.0046	0.00073	0.0016
		February		84	0.41	20	31	0.085	9.5	0.086	1.1	**0.028**	**0.17**	0.00049	0.022	0.023	0.000043	0.00008	0.088	0.000023	12	0.0047	0.00073	0.0016
		March		84	0.39	20	32	0.085	9.4	0.087	1.1	**0.028**	**0.17**	0.00047	0.021	0.023	0.000043	0.00008	0.087	0.000023	12	0.0048	0.00073	0.0016
		April		85	0.36	20	32	0.085	9.3	0.089	1.1	**0.029**	**0.17**	0.00045	0.02	0.023	0.000043	0.000081	0.086	0.000023	12	0.0049	0.00073	0.0016
		May		85	0.34	20	32	0.085	9.3	0.09	1.1	**0.029**	**0.18**	0.00044	0.019	0.023	0.000044	0.000081	0.085	0.000023	12	0.005	0.00073	0.0016
		June		55	0.19	13	21	0.058	6.0	0.062	0.69	**0.018**	**0.11**	0.00027	0.011	0.015	0.000031	0.00006	0.053	0.000015	7.9	0.003	0.00046	0.0011
		July		40	0.2	9.7	14	0.043	4.5	0.048	0.58	**0.013**	0.079	0.00023	0.0094	0.011	0.000023	0.000045	0.04	0.000011	5.7	0.0022	0.00035	0.00082
			MINIMUM	11	0.000024	4.2	2.6	0.026	1.5	0.0055	0.0051	0.0025	0.0078	0.00007	0.00039	0.006	0.00002	0.000034	0.0086	0.000004	2.3	0.00012	0.000094	0.0004
			MAXIMUM	120	0.54	24	52	0.10	11	0.091	1.2	**0.032**	**0.24**	0.00055	**0.026**	0.036	0.000071	0.000083	0.1	0.000027	20	0.0064	0.00078	0.0017
			AVERAGE	59	0.25	13	23	0.06	6.3	0.048	0.59	**0.017**	**0.14**	0.00026	0.0095	0.018	0.000038	0.000061	0.05	0.000015	9.4	0.0037	0.00049	0.0011

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1.0	0.05				0.004		0.25										0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	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	0.016	0.000074	0.0011	0.93	0.0024	0.000005	0.000056	0.00083	0.6	0.00005	0.00001	0.6	0.02	0.00001	0.0001	0.000024	0.0005	0.003
		February		0.016	0.000074	0.0011	0.94	0.0024	0.000005	0.000056	0.00083	0.6	0.00005	0.00001	0.6	0.02	0.00001	0.0001	0.000024	0.0005	0.003
		March		0.016	0.000074	0.0011	0.94	0.0024	0.000005	0.000056	0.00083	0.6	0.00005	0.00001	0.6	0.02	0.00001	0.0001	0.000024	0.0005	0.003
		April		0.016	0.000074	0.0011	0.94	0.0024	0.000005	0.000056	0.00083	0.6	0.00005	0.00001	0.6	0.02	0.00001	0.0001	0.000024	0.0005	0.003
		May		0.016	0.000074	0.0011	0.94	0.0024	0.000005	0.000056	0.00084	0.6	0.00005	0.00001	0.6	0.02	0.00001	0.0001	0.000024	0.0005	0.003
		June		0.41	0.00015	0.0013	1.1	0.0088	0.0000055	0.000068	0.0031	0.63	0.000057	0.000017	0.63	0.019	0.000014	0.00011	0.000042	0.001	0.0025
		July		0.51	0.00015	0.0011	1.0	0.010	0.0000045	0.00006	0.0036	0.52	0.000048	0.000017	0.51	0.015	0.000013	0.000095	0.000042	0.0011	0.0019
		August		0.49	0.00015	0.0011	1.0	0.0096	0.0000046	0.000061	0.0034	0.54	0.000049	0.000017	0.53	0.015	0.000013	0.000097	0.000042	0.001	0.002
		September		0.47	0.00014	0.0011	1.0	0.0093	0.0000046	0.00006	0.0033	0.53	0.000049	0.000016	0.53	0.015	0.000013	0.000095	0.000041	0.001	0.002
		October		0.49	0.00015	0.0012	1.0	0.0097	0.0000048	0.000063	0.0035	0.56	0.000051	0.000017	0.55	0.016	0.000013	0.0001	0.000044	0.0011	0.0021
		November		0.49	0.00015	0.0012	1.0	0.0097	0.0000048	0.000063	0.0035	0.56	0.000051	0.000017	0.56	0.016	0.000013	0.0001	0.000044	0.0011	0.0021
		December		0.49	0.00015	0.0012	1.0	0.0097	0.0000048	0.000063	0.0035	0.56	0.000051	0.000017	0.56	0.016	0.000013	0.0001	0.000044	0.0011	0.0021
		January	2019	0.49	0.00015	0.0012	1.0	0.0097	0.0000048	0.000063	0.0035	0.56	0.000051	0.000017	0.56	0.016	0.000013	0.0001	0.000044	0.0011	0.0021
		February		0.49	0.00015	0.0012	1.0	0.0097	0.0000048	0.000063	0.0035	0.56	0.000051	0.000017	0.56	0.016	0.000013	0.0001	0.000044	0.0011	0.0021
		March		0.49	0.00015	0.0012	1.1	0.0098	0.0000048	0.000064	0.0035	0.56	0.000051	0.000017	0.56	0.016	0.000013	0.0001	0.000044	0.0011	0.0021
		April		0.49	0.00015	0.0012	1.1	0.0098	0.0000048	0.000064	0.0035	0.57	0.000051	0.000017	0.56	0.016	0.000013	0.0001	0.000044	0.0011	0.0021
		May		0.49	0.00015	0.0012	1.1	0.0098	0.0000048	0.000064	0.0035	0.57	0.000051	0.000017	0.56	0.016	0.000013	0.0001	0.000044	0.0011	0.0021
		June		0.076	0.000064	0.0038	1.8	0.0028	0.0000043	0.00021	0.0016	1.4	0.000043	0.0000096	1.0	0.088	0.000009	0.000086	0.000032	0.0005	0.0024
		July		0.033	0.000048	0.0036	1.8	0.0032	0.0000034	0.00031	0.0012	1.3	0.000037	0.0000073	1.1	0.087	0.000007	0.000069	0.00006	0.00037	0.002
		August		0.075	0.000072	0.0037	2.2	0.0093	0.0000036	0.00072	0.0017	1.4	0.000051	0.0000087	2.0	0.09	0.0000077	0.000073	0.00019	0.00043	0.0021
		September		0.13	0.00012	0.0037	2.9	0.021	0.000004	0.0015	0.0024	1.4	0.000078	0.000011	3.5	0.095	0.0000089	0.000081	0.00042	0.00052	0.0024
		October		0.31	0.00026	0.0064	6.2	0.056	0.0000066	0.0039	0.0052	2.6	0.00017	0.000021	8.9	0.17	0.000015	0.00013	0.0012	0.00096	0.0044
		November		0.36	0.00029	0.0061	6.4	0.06	0.0000073	0.0041	0.0055	2.5	0.00018	0.000023	9.3	0.17	0.000017	0.00015	0.0012	0.0011	0.0049
		December		0.34	0.00028	0.0054	5.7	0.053	0.0000077	0.0036	0.005	2.2	0.00017	0.000023	8.2	0.14	0.000018	0.00015	0.0011	0.0011	0.005
		January	2020	0.34	0.00028	0.0054	5.6	0.053	0.0000077	0.0036	0.0049	2.2	0.00017	0.000023	8.1	0.14	0.000018	0.00015	0.0011	0.0011	0.005
		February		0.34	0.00028	0.0054	5.6	0.053	0.0000077	0.0036	0.0049	2.2	0.00017	0.000023	8.1	0.14	0.000018	0.00015	0.0011	0.0011	0.005
		March		0.34	0.00028	0.0054	5.6	0.053	0.0000077	0.0036	0.0049	2.2	0.00017	0.000023	8.1	0.14	0.000018	0.00015	0.0011	0.0011	0.005
		April		0.34	0.00028	0.0054	5.6	0.053	0.0000077	0.0036	0.0049	2.2	0.00017	0.000023	8.1	0.14	0.000018	0.00015	0.0011	0.0011	0.0051
		May		0.34	0.00028	0.0054	5.6	0.053	0.0000077	0.0036	0.0049	2.2	0.00017	0.000023	8.1	0.14	0.000018	0.00015	0.0011	0.0011	0.0051
		June		0.22	0.00019	0.0033	3.6	0.033	0.0000058	0.0022	0.0031	1.4	0.00012	0.000016	5.2	0.086	0.000013	0.00012	0.00067	0.0008	0.0037
		July		0.18	0.00015	0.0023	2.7	0.028	0.0000045	0.0017	0.0023	0.97	0.000096	0.000013	4.0	0.058	0.00001	0.000091	0.00052	0.00063	0.0029
		August		0.2	0.00018	0.0024	2.8	0.037	0.0000048	0.0019	0.0029	1.1	0.00012	0.000014	4.5	0.061	0.000011	0.000095	0.00058	0.00069	0.003
		September		0.2	0.00019	0.0023	2.8	0.041	0.000005	0.0019	0.0031	1.2	0.00013	0.000015	4.6	0.06	0.000011	0.000097	0.00058	0.0007	0.003
		October		0.31	0.00029	0.0034	4.3	0.063	0.0000072	0.0029	0.0047	1.7	0.0002	0.000021	7.1	0.09	0.000016	0.00014	0.0009	0.001	0.0044
		November		0.37	0.00034	0.0041	5.3	0.075	0.0000083	0.0036	0.0055	2.0	0.00024	0.000025	8.7	0.11	0.000018	0.00016	0.0011	0.0012	0.0051
		December		0.39	0.00036	0.0043	5.6	0.078	0.0000083	0.0039	0.0056	2.1	0.00025	0.000026	9.4	0.12	0.000019	0.00016	0.0012	0.0012	0.0052
		January	2021	0.4	0.00036	0.0045	5.9	0.08	0.0000083	0.0042	0.0056	2.1	0.00025	0.000026	9.8	0.12	0.000019	0.00016	0.0013	0.0013	0.0053
		February		0.41	0.00037	0.0045	6.0	0.079	0.0000083	0.0042	0.0055	2.1	0.00025	0.000026	9.9	0.12	0.000019	0.00016	0.0013	0.0013	0.0053
		March		0.42	0.00036	0.0045	6.0	0.078	0.0000082	0.0043	0.0055	2.1	0.00024	0.000026	9.9	0.12	0.000019	0.00016	0.0013	0.0013	0.0052
		April		0.42	0.00036	0.0045	6.0	0.078	0.0000082	0.0043	0.0054	2.1	0.00024	0.000026	9.9	0.12	0.000019	0.00016	0.0013	0.0013	0.0052
		May		0.43	0.00036	0.0045	6.0	0.077	0.0000082	0.0043	0.0054	2.0	0.00024	0.000026	9.9	0.12	0.000019	0.00016	0.0013	0.0013	0.0052
		June		0.27	0.00024	0.0029	3.8	0.047	0.000006	0.0026	0.0034	1.3	0.00015	0.000018	6.2	0.078	0.000014	0.00012	0.0008	0.00089	0.0038
		July		0.2	0.00018	0.0021	2.7	0.035	0.0000046	0.0018	0.0027	0.99	0.00012	0.000014	4.3	0.054	0.00001	0.000092	0.00055	0.00068	0.0028
		August		0.21	0.00019	0.0021	2.7	0.042	0.0000049	0.0018	0.0031	1.1	0.00014	0.000015	4.4	0.053	0.000011	0.000096	0.00056	0.00072	0.0029
		September		0.21	0.0002	0.002	2.5	0.042	0.0000051	0.0016	0.0033	1.1	0.00014	0.000015	4.2	0.05	0.000011	0.000098	0.00052	0.00073	0.0029
		October		0.31	0.00029	0.0029	3.7	0.062	0.0000073	0.0024	0.0048	1.6	0.00021	0.000022	6.2	0.072	0.000016	0.00014	0.00076	0.0011	0.0041
		November		0.38	0.00034	0.0034	4.3	0.073	0.0000084	0.0029	0.0056	1.9	0.00025	0.000025	7.3	0.086	0.000019	0.00016	0.0009	0.0012	0.0047
		December		0.39	0.00034	0.0035	4.5	0.073	0.0000085	0.003	0.0056	1.9	0.00025	0.000026	7.5	0.088	0.000019	0.00016	0.00093	0.0013	0.0048
		January	2022	0.4	0.00034	0.0036	4.6	0.072	0.0000085	0.0031	0.0056	1.9	0.00024	0.000026	7.6	0.09	0.000019	0.00016	0.00095	0.0013	0.0048
		February		0.41	0.00034	0.0036	4.6	0.071	0.0000085	0.0031	0.0055	1.9	0.00024	0.000026	7.7	0.091	0.000019	0.00016	0.00096	0.0013	0.0048
		March		0.41	0.00034	0.0036	4.7	0.07	0.0000084	0.0031	0.0054	1.8	0.00023	0.000026	7.7	0.092	0.000019	0.00016	0.00097	0.0013	0.0048
		April		0.42	0.00034	0.0036	4.7	0.069	0.0000084	0.0031	0.0054	1.8	0.00023	0.000026	7.7	0.092	0.000019	0.00016	0.00097	0.0013	0.0048
		May		0.43	0.00034	0.0037	4.7	0.068	0.0000084	0.0032	0.0053	1.8	0.00023	0.000026	7.7	0.093	0.000019	0.00016	0.00098	0.0013	0.0048
		June		0.26	0.00022	0.0025	3.1	0.041	0.0000061	0.002	0.0033	1.2	0.00014	0.000018	4.8	0.061	0.000014	0.00012	0.00061	0.00089	0.0035
		July		0.19	0.00016	0.0018	2.2	0.031	0.0000047	0.0014	0.0027	0.9	0.00011	0.000014	3.4	0.043	0.000011	0.000093	0.00043	0.00067	0.0027
			MINIMUM	0.016	0.000048	0.0011	0.93	0.0024	0.0000034	0.000056	0.00083	0.52	0.000037	0.0000073	0.51	0.015	0.000007	0.000069	0.000024	0.00037	0.0019
			MAXIMUM	0.51	0.00037	0.0064	6.4	0.08	0.0000085	0.0043	0.0056	2.6	0.00025	0.000026	9.9	0.17	0.000019	0.00016	0.0013	0.0013	0.0053
			AVERAGE	0.32	0.00022	0.003	3.3	0.039	0.0000062	0.002	0.0038	1.4	0.00014	0.000019	4.8	0.074	0.000014	0.00012	0.0006	0.00096	0.0036

Site and Downstream Water Quality Model Predictions
Whale Tail Approved 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
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12				2.93	0.01	0.1		*0.025*				1.5	0.00004				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	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 Outlet	*Closure, no mine contact water discharge*	August	2022	38	0.26	9.7	13	0.042	4.6	0.045	0.56	0.012	0.074	0.00025	0.011	0.011	0.000023	0.000047	0.04	0.000011	5.6	0.002	0.00035	0.00084
		September		33	0.21	8.7	11	0.039	4.1	0.036	0.43	0.010	0.059	0.00022	0.0086	0.0097	0.000023	0.000048	0.033	0.0000094	5.1	0.0016	0.00029	0.00077
		October		32	0.2	8.5	11	0.038	4.0	0.035	0.41	0.0096	0.056	0.00022	0.0083	0.0096	0.000023	0.000048	0.032	0.0000092	5.0	0.0015	0.00029	0.00076
		November		32	0.2	8.6	11	0.038	4.0	0.035	0.41	0.0096	0.056	0.00022	0.0083	0.0096	0.000023	0.000048	0.032	0.0000092	5.0	0.0015	0.00029	0.00077
		December		32	0.2	8.6	11	0.038	4.1	0.035	0.42	0.0096	0.057	0.00022	0.0083	0.0096	0.000023	0.000048	0.032	0.0000093	5.0	0.0016	0.00029	0.00077
		January	2023	32	0.2	8.6	11	0.039	4.1	0.035	0.42	0.0097	0.057	0.00022	0.0084	0.0097	0.000023	0.000048	0.033	0.0000093	5.0	0.0016	0.00029	0.00077
		February		32	0.2	8.6	11	0.039	4.1	0.035	0.42	0.0097	0.057	0.00022	0.0084	0.0097	0.000023	0.000048	0.033	0.0000093	5.0	0.0016	0.00029	0.00077
		March		32	0.2	8.6	11	0.039	4.1	0.035	0.42	0.0097	0.057	0.00022	0.0084	0.0097	0.000023	0.000048	0.033	0.0000093	5.0	0.0016	0.00029	0.00077
		April		33	0.2	8.6	11	0.039	4.1	0.035	0.42	0.0097	0.057	0.00022	0.0084	0.0097	0.000023	0.000049	0.033	0.0000093	5.0	0.0016	0.00029	0.00077
		May		33	0.2	8.6	11	0.039	4.1	0.035	0.42	0.0097	0.057	0.00022	0.0084	0.0097	0.000023	0.000049	0.033	0.0000093	5.0	0.0016	0.00029	0.00077
		June		37	0.24	9.8	13	0.044	4.7	0.041	0.48	0.011	0.065	0.00025	0.0097	0.011	0.000026	0.000055	0.037	0.000011	5.7	0.0018	0.00033	0.00088
		July		30	0.17	8.1	9.9	0.037	3.8	0.031	0.35	0.0085	0.049	0.0002	0.0071	0.0091	0.000022	0.000049	0.029	0.0000086	4.7	0.0013	0.00026	0.00073
		August		28	0.14	7.9	9.2	0.036	3.7	0.027	0.3	0.0077	0.043	0.00019	0.006	0.0089	0.000023	0.000052	0.026	0.0000083	4.6	0.0011	0.00024	0.00072
		September		28	0.15	7.7	9.3	0.035	3.6	0.028	0.31	0.0078	0.044	0.00019	0.0063	0.0087	0.000022	0.000049	0.027	0.0000082	4.5	0.0012	0.00024	0.00071
		October		29	0.16	7.9	9.6	0.036	3.7	0.029	0.33	0.0082	0.047	0.0002	0.0068	0.0089	0.000022	0.000048	0.028	0.0000084	4.6	0.0013	0.00025	0.00072
		November		29	0.16	7.9	9.6	0.036	3.7	0.029	0.33	0.0082	0.047	0.0002	0.0068	0.0089	0.000022	0.000049	0.028	0.0000084	4.6	0.0013	0.00025	0.00072
		December		29	0.16	7.9	9.7	0.036	3.7	0.03	0.34	0.0082	0.047	0.0002	0.0068	0.0089	0.000022	0.000049	0.028	0.0000084	4.6	0.0013	0.00025	0.00072
		January	2024	29	0.16	7.9	9.7	0.036	3.7	0.03	0.34	0.0082	0.047	0.0002	0.0068	0.0089	0.000022	0.000049	0.028	0.0000084	4.6	0.0013	0.00025	0.00072
		February		29	0.16	7.9	9.7	0.036	3.7	0.03	0.34	0.0083	0.047	0.0002	0.0068	0.0089	0.000022	0.000049	0.028	0.0000084	4.6	0.0013	0.00025	0.00072
		March		29	0.16	7.9	9.7	0.036	3.7	0.03	0.34	0.0083	0.047	0.0002	0.0068	0.0089	0.000022	0.000049	0.028	0.0000085	4.6	0.0013	0.00025	0.00072
		April		29	0.16	7.9	9.7	0.036	3.7	0.03	0.34	0.0083	0.047	0.0002	0.0068	0.009	0.000022	0.000049	0.028	0.0000085	4.7	0.0013	0.00025	0.00072
		May		29	0.16	8.0	9.7	0.036	3.7	0.03	0.34	0.0083	0.047	0.0002	0.0069	0.009	0.000022	0.000049	0.028	0.0000085	4.7	0.0013	0.00025	0.00072
		June		34	0.19	9.1	11	0.041	4.3	0.035	0.4	0.0097	0.055	0.00023	0.0081	0.01	0.000025	0.000055	0.033	0.0000097	5.3	0.0015	0.00029	0.00082
		July		27	0.14	7.6	8.9	0.035	3.5	0.026	0.29	0.0074	0.042	0.00018	0.0059	0.0085	0.000022	0.000049	0.026	0.000008	4.4	0.0011	0.00023	0.00069
		August		26	0.12	7.4	8.4	0.035	3.4	0.024	0.24	0.0068	0.037	0.00018	0.0051	0.0084	0.000023	0.000052	0.024	0.0000078	4.4	0.00096	0.00021	0.00069
		September		26	0.12	7.3	8.4	0.034	3.4	0.024	0.26	0.0069	0.038	0.00017	0.0053	0.0082	0.000022	0.000049	0.024	0.0000076	4.3	0.0010	0.00021	0.00067
		October		26	0.13	7.3	8.5	0.033	3.4	0.025	0.27	0.0071	0.039	0.00018	0.0055	0.0082	0.000021	0.000048	0.024	0.0000077	4.3	0.001	0.00022	0.00067
		November		26	0.13	7.3	8.5	0.033	3.4	0.025	0.27	0.0071	0.039	0.00018	0.0055	0.0082	0.000021	0.000048	0.024	0.0000077	4.3	0.001	0.00022	0.00067
		December		26	0.13	7.3	8.5	0.034	3.4	0.025	0.27	0.0071	0.039	0.00018	0.0056	0.0082	0.000021	0.000048	0.024	0.0000077	4.3	0.001	0.00022	0.00067
		January	2025	26	0.13	7.3	8.5	0.034	3.4	0.025	0.27	0.0071	0.039	0.00018	0.0056	0.0082	0.000021	0.000048	0.024	0.0000077	4.3	0.0011	0.00022	0.00067
		February		26	0.13	7.3	8.6	0.034	3.4	0.025	0.27	0.0071	0.039	0.00018	0.0056	0.0083	0.000021	0.000048	0.024	0.0000077	4.3	0.0011	0.00022	0.00067
		March		26	0.13	7.3	8.6	0.034	3.4	0.025	0.27	0.0071	0.039	0.00018	0.0056	0.0083	0.000021	0.000048	0.025	0.0000077	4.3	0.0011	0.00022	0.00067
		April		26	0.13	7.3	8.6	0.034	3.4	0.025	0.27	0.0071	0.04	0.00018	0.0056	0.0083	0.000021	0.000048	0.025	0.0000077	4.3	0.0011	0.00022	0.00067
		May		26	0.13	7.3	8.6	0.034	3.4	0.025	0.27	0.0071	0.04	0.00018	0.0056	0.0083	0.000021	0.000048	0.025	0.0000077	4.3	0.0011	0.00022	0.00067
		June		30	0.16	8.5	10	0.039	4.0	0.03	0.33	0.0084	0.047	0.00021	0.0067	0.0096	0.000025	0.000055	0.029	0.000009	5.0	0.0013	0.00026	0.00078
		July		25	0.12	7.1	8.1	0.033	3.3	0.023	0.24	0.0066	0.036	0.00017	0.0049	0.0081	0.000022	0.000049	0.023	0.0000075	4.2	0.00094	0.00021	0.00066
		August		24	0.098	7.1	7.7	0.033	3.3	0.021	0.2	0.006	0.032	0.00016	0.0042	0.008	0.000022	0.000052	0.021	0.0000073	4.2	0.00082	0.00019	0.00066
		September		24	0.1	6.9	7.6	0.032	3.2	0.021	0.21	0.0061	0.032	0.00016	0.0044	0.0078	0.000021	0.000049	0.021	0.0000072	4.1	0.00084	0.00019	0.00064
		October		24	0.11	7.0	7.9	0.032	3.2	0.022	0.23	0.0064	0.034	0.00017	0.0047	0.0079	0.000021	0.000048	0.022	0.0000073	4.1	0.0009	0.0002	0.00065
		November		24	0.11	7.0	7.9	0.032	3.2	0.022	0.23	0.0064	0.034	0.00017	0.0047	0.0079	0.000021	0.000049	0.022	0.0000073	4.1	0.0009	0.0002	0.00065
		December		24	0.11	7.0	7.9	0.033	3.2	0.022	0.23	0.0064	0.034	0.00017	0.0048	0.0079	0.000021	0.000049	0.022	0.0000073	4.1	0.00091	0.0002	0.00065
		January	2026	24	0.11	7.0	7.9	0.033	3.2	0.022	0.23	0.0064	0.034	0.00017	0.0048	0.0079	0.000021	0.000049	0.022	0.0000073	4.1	0.00091	0.0002	0.00065
		February		24	0.11	7.0	7.9	0.033	3.2	0.022	0.23	0.0064	0.035	0.00017	0.0048	0.0079	0.000021	0.000049	0.022	0.0000073	4.1	0.00091	0.0002	0.00065
		March		24	0.11	7.0	7.9	0.033	3.2	0.022	0.23	0.0064	0.035	0.00017	0.0048	0.008	0.000021	0.000049	0.022	0.0000073	4.1	0.00091	0.0002	0.00065
		April		24	0.11	7.0	7.9	0.033	3.3	0.022	0.23	0.0064	0.035	0.00017	0.0048	0.008	0.000021	0.000049	0.022	0.0000073	4.1	0.00091	0.0002	0.00065
		May		24	0.11	7.0	7.9	0.033	3.3	0.022	0.23	0.0064	0.035	0.00017	0.0048	0.008	0.000021	0.000049	0.022	0.0000074	4.1	0.00091	0.0002	0.00065
		June		28	0.13	8.0	9.1	0.037	3.7	0.026	0.27	0.0075	0.041	0.00019	0.0056	0.0091	0.000024	0.000055	0.026	0.0000084	4.7	0.0011	0.00023	0.00074
		July		23	0.096	6.8	7.4	0.032	3.1	0.02	0.2	0.0059	0.031	0.00016	0.0041	0.0077	0.000021	0.000049	0.021	0.000007	4.0	0.0008	0.00019	0.00064
		August		22	0.08	6.8	7.1	0.032	3.1	0.018	0.17	0.0054	0.027	0.00015	0.0036	0.0077	0.000022	0.000052	0.019	0.0000069	4.0	0.00069	0.00018	0.00064
		September		22	0.084	6.6	7.0	0.031	3.0	0.018	0.18	0.0054	0.028	0.00015	0.0037	0.0075	0.000021	0.000049	0.019	0.0000068	3.9	0.00072	0.00018	0.00062
		October		22	0.09	6.5	7.1	0.031	3.0	0.019	0.19	0.0056	0.029	0.00015	0.0039	0.0074	0.000021	0.000048	0.02	0.0000068	3.9	0.00075	0.00018	0.00062
		November		22	0.09	6.6	7.1	0.031	3.0	0.019	0.19	0.0056	0.029	0.00015	0.0039	0.0074	0.000021	0.000048	0.02	0.0000068	3.9	0.00075	0.00018	0.00062
		December		22	0.09	6.6	7.1	0.031	3.0	0.019	0.19	0.0056	0.029	0.00015	0.0039	0.0075	0.000021	0.000048	0.02	0.0000068	3.9	0.00075	0.00018	0.00062
		January	2027	22	0.09	6.6	7.1	0.031	3.0	0.019	0.19	0.0056	0.029	0.00015	0.0039	0.0075	0.000021	0.000048	0.02	0.0000068	3.9	0.00076	0.00018	0.00062
		February		22	0.091	6.6	7.1	0.031	3.0	0.019	0.19	0.0056	0.029	0.00015	0.0039	0.0075	0.000021	0.000048	0.02	0.0000068	3.9	0.00076	0.00018	0.00062
		March		22	0.091	6.6	7.1	0.031	3.0	0.019	0.19	0.0056	0.029	0.00015	0.0039	0.0075	0.000021	0.000048	0.02	0.0000068	3.9	0.00076	0.00018	0.00062
		April		22	0.091	6.6	7.1	0.031	3.0	0.019	0.19	0.0056	0.029	0.00015	0.0039	0.0075	0.000021	0.000048	0.02	0.0000068	3.9	0.00076	0.00018	0.00062
		May		22	0.091	6.6	7.2	0.031	3.0	0.019	0.19	0.0056	0.029	0.00015	0.004	0.0075	0.000021	0.000048	0.02	0.0000068	3.9	0.00076	0.00018	0.00062
		June		27	0.12	7.7	8.6	0.036	3.6	0.024	0.24	0.0069	0.037	0.00018	0.0051	0.0088	0.000024	0.000055	0.024	0.0000081	4.6	0.00096	0.00022	0.00072
			MINIMUM	22	0.08	6.5	7.0	0.031	3.0	0.018	0.17	0.0054	0.027	0.00015	0.0036	0.0074	0.000021	0.000047	0.019	0.0000068	3.9	0.00069	0.00018	0.00062
			MAXIMUM	38	0.26	9.8	13	0.044	4.7	0.045	0.56	0.012	0.074	0.00025	0.011	0.011	0.000026	0.000055	0.04	0.000011	5.7	0.002	0.00035	0.00088
			AVERAGE	27	0.14	7.6	9.0	0.035	3.5	0.027	0.29	0.0075	0.042	0.00019	0.0059	0.0086	0.000022	0.000049	0.026	0.000008	4.5	0.0011	0.00023	0.0007

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1.0	0.05				0.004		0.25										0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	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*	August	2022	0.18	0.00017	0.0018	2.1	0.032	0.000005	0.0012	0.0028	0.95	0.00012	0.000014	3.3	0.041	0.000011	0.000098	0.00039	0.00069	0.0028
		September		0.15	0.00015	0.0016	1.8	0.026	0.000005	0.00098	0.0024	0.88	0.0001	0.000013	2.7	0.036	0.000011	0.000099	0.00031	0.00065	0.0028
		October		0.14	0.00014	0.0016	1.8	0.025	0.0000051	0.00093	0.0023	0.87	0.0001	0.000013	2.6	0.036	0.000011	0.00010	0.00029	0.00065	0.0029
		November		0.14	0.00014	0.0016	1.8	0.025	0.0000051	0.00093	0.0023	0.87	0.0001	0.000013	2.6	0.036	0.000011	0.00010	0.0003	0.00065	0.0029
		December		0.14	0.00014	0.0016	1.8	0.025	0.0000051	0.00094	0.0024	0.87	0.0001	0.000013	2.6	0.036	0.000011	0.00010	0.0003	0.00065	0.0029
		January	2023	0.14	0.00014	0.0016	1.8	0.025	0.0000051	0.00094	0.0024	0.87	0.0001	0.000013	2.6	0.036	0.000011	0.0001	0.0003	0.00065	0.0029
		February		0.14	0.00014	0.0016	1.8	0.025	0.0000051	0.00094	0.0024	0.87	0.0001	0.000013	2.6	0.036	0.000011	0.0001	0.0003	0.00065	0.0029
		March		0.14	0.00014	0.0016	1.8	0.025	0.0000051	0.00094	0.0024	0.88	0.0001	0.000013	2.6	0.036	0.000011	0.0001	0.0003	0.00065	0.0029
		April		0.14	0.00014	0.0016	1.8	0.025	0.0000051	0.00094	0.0024	0.88	0.0001	0.000013	2.6	0.036	0.000011	0.0001	0.0003	0.00065	0.0029
		May		0.14	0.00015	0.0016	1.8	0.025	0.0000051	0.00095	0.0024	0.88	0.0001	0.000013	2.6	0.036	0.000011	0.0001	0.0003	0.00065	0.0029
		June		0.16	0.00017	0.0018	2.1	0.029	0.0000058	0.0011	0.0027	1.0	0.00012	0.000015	3.0	0.041	0.000012	0.00011	0.00034	0.00074	0.0033
		July		0.12	0.00013	0.0015	1.7	0.021	0.0000051	0.00079	0.0021	0.84	0.000094	0.000013	2.3	0.033	0.000011	0.0001	0.00025	0.00063	0.0029
		August		0.11	0.00013	0.0015	1.6	0.018	0.0000053	0.00068	0.002	0.83	0.000089	0.000013	2.0	0.032	0.000011	0.00011	0.00022	0.00063	0.0031
		September		0.11	0.00013	0.0015	1.6	0.019	0.0000051	0.00071	0.002	0.81	0.000089	0.000012	2.1	0.032	0.000011	0.0001	0.00023	0.00061	0.0029
		October		0.12	0.00013	0.0015	1.6	0.02	0.0000051	0.00076	0.002	0.82	0.000091	0.000013	2.2	0.033	0.000011	0.00010	0.00024	0.00062	0.0029
		November		0.12	0.00013	0.0015	1.6	0.02	0.0000051	0.00076	0.0021	0.82	0.000091	0.000013	2.2	0.033	0.000011	0.00010	0.00024	0.00062	0.0029
		December		0.12	0.00013	0.0015	1.6	0.02	0.0000051	0.00076	0.0021	0.82	0.000092	0.000013	2.2	0.033	0.000011	0.00010	0.00024	0.00062	0.0029
		January	2024	0.12	0.00013	0.0015	1.6	0.02	0.0000051	0.00076	0.0021	0.82	0.000092	0.000013	2.2	0.033	0.000011	0.00010	0.00024	0.00062	0.0029
		February		0.12	0.00013	0.0015	1.6	0.02	0.0000051	0.00077	0.0021	0.82	0.000092	0.000013	2.2	0.033	0.000011	0.0001	0.00024	0.00062	0.0029
		March		0.12	0.00013	0.0015	1.6	0.02	0.0000051	0.00077	0.0021	0.82	0.000092	0.000013	2.2	0.033	0.000011	0.0001	0.00024	0.00062	0.0029
		April		0.12	0.00013	0.0015	1.6	0.02	0.0000051	0.00077	0.0021	0.82	0.000092	0.000013	2.2	0.033	0.000011	0.0001	0.00024	0.00062	0.0029
		May		0.12	0.00013	0.0015	1.6	0.02	0.0000051	0.00077	0.0021	0.82	0.000092	0.000013	2.2	0.033	0.000011	0.0001	0.00024	0.00062	0.0029
		June		0.14	0.00015	0.0017	1.9	0.024	0.0000058	0.0009	0.0024	0.94	0.00011	0.000014	2.6	0.038	0.000012	0.00011	0.00029	0.00071	0.0033
		July		0.1	0.00012	0.0014	1.5	0.018	0.0000051	0.00066	0.0019	0.79	0.000086	0.000012	2.0	0.031	0.000011	0.0001	0.00021	0.00061	0.0029
		August		0.09	0.00012	0.0014	1.5	0.016	0.0000053	0.00057	0.0018	0.79	0.000083	0.000012	1.8	0.03	0.000011	0.00011	0.00018	0.00061	0.0031
		September		0.093	0.00012	0.0014	1.5	0.016	0.0000051	0.00059	0.0018	0.77	0.000082	0.000012	1.8	0.03	0.000011	0.0001	0.00019	0.00059	0.0029
		October		0.097	0.00012	0.0014	1.5	0.017	0.000005	0.00062	0.0018	0.76	0.000082	0.000012	1.9	0.03	0.00001	0.000098	0.0002	0.00058	0.0029
		November		0.097	0.00012	0.0014	1.5	0.017	0.000005	0.00062	0.0018	0.76	0.000083	0.000012	1.9	0.03	0.00001	0.000098	0.0002	0.00059	0.0029
		December		0.097	0.00012	0.0014	1.5	0.017	0.000005	0.00063	0.0018	0.77	0.000083	0.000012	1.9	0.03	0.00001	0.000098	0.0002	0.00059	0.0029
		January	2025	0.097	0.00012	0.0014	1.5	0.017	0.000005	0.00063	0.0018	0.77	0.000083	0.000012	1.9	0.03	0.00001	0.000098	0.0002	0.00059	0.0029
		February		0.097	0.00012	0.0014	1.5	0.017	0.000005	0.00063	0.0018	0.77	0.000083	0.000012	1.9	0.03	0.00001	0.000098	0.0002	0.00059	0.0029
		March		0.098	0.00012	0.0014	1.5	0.017	0.000005	0.00063	0.0018	0.77	0.000083	0.000012	1.9	0.03	0.00001	0.000098	0.0002	0.00059	0.0029
		April		0.098	0.00012	0.0014	1.5	0.017	0.000005	0.00063	0.0018	0.77	0.000083	0.000012	1.9	0.03	0.00001	0.000098	0.0002	0.00059	0.0029
		May		0.098	0.00012	0.0014	1.5	0.017	0.000005	0.00063	0.0018	0.77	0.000083	0.000012	1.9	0.03	0.00001	0.000099	0.0002	0.00059	0.0029
		June		0.12	0.00014	0.0016	1.7	0.02	0.0000057	0.00075	0.0021	0.89	0.000097	0.000014	2.2	0.035	0.000012	0.00011	0.00024	0.00068	0.0033
		July		0.088	0.00011	0.0014	1.4	0.015	0.0000051	0.00056	0.0017	0.76	0.00008	0.000012	1.7	0.029	0.000011	0.0001	0.00018	0.00059	0.0029
		August		0.077	0.00011	0.0014	1.4	0.013	0.0000053	0.00048	0.0016	0.76	0.000077	0.000012	1.6	0.029	0.000011	0.0001	0.00016	0.0006	0.0031
		September		0.079	0.00011	0.0013	1.4	0.014	0.000005	0.0005	0.0016	0.74	0.000076	0.000012	1.6	0.028	0.00001	0.00010	0.00016	0.00057	0.0029
		October		0.084	0.00011	0.0013	1.4	0.015	0.000005	0.00054	0.0017	0.74	0.000078	0.000012	1.7	0.028	0.00001	0.000099	0.00017	0.00057	0.0029
		November		0.084	0.00011	0.0013	1.4	0.015	0.000005	0.00054	0.0017	0.74	0.000078	0.000012	1.7	0.028	0.00001	0.000099	0.00017	0.00058	0.0029
		December		0.085	0.00011	0.0013	1.4	0.015	0.000005	0.00054	0.0017	0.74	0.000078	0.000012	1.7	0.028	0.00001	0.000099	0.00017	0.00058	0.0029
		January	2026	0.085	0.00011	0.0013	1.4	0.015	0.000005	0.00054	0.0017	0.75	0.000078	0.000012	1.7	0.028	0.00001	0.000099	0.00017	0.00058	0.0029
		February		0.085	0.00011	0.0013	1.4	0.015	0.000005	0.00054	0.0017	0.75	0.000078	0.000012	1.7	0.029	0.00001	0.000099	0.00017	0.00058	0.0029
		March		0.085	0.00011	0.0013	1.4	0.015	0.000005	0.00054	0.0017	0.75	0.000078	0.000012	1.7	0.029	0.00001	0.000099	0.00017	0.00058	0.0029
		April		0.085	0.00011	0.0014	1.4	0.015	0.000005	0.00054	0.0017	0.75	0.000078	0.000012	1.7	0.029	0.00001	0.000099	0.00017	0.00058	0.0029
		May		0.085	0.00011	0.0014	1.4	0.015	0.000005	0.00054	0.0017	0.75	0.000078	0.000012	1.7	0.029	0.00001	0.00010	0.00017	0.00058	0.0029
		June		0.10	0.00013	0.0015	1.6	0.017	0.0000057	0.00064	0.0019	0.85	0.00009	0.000013	2.0	0.033	0.000012	0.00011	0.0002	0.00066	0.0033
		July		0.075	0.00011	0.0013	1.3	0.013	0.000005	0.00047	0.0015	0.73	0.000074	0.000012	1.5	0.027	0.00001	0.00010	0.00015	0.00057	0.0029
		August		0.066	0.00011	0.0013	1.3	0.011	0.0000053	0.00041	0.0015	0.74	0.000073	0.000012	1.4	0.027	0.000011	0.0001	0.00013	0.00058	0.0031
		September		0.068	0.0001	0.0013	1.3	0.012	0.000005	0.00042	0.0015	0.71	0.000071	0.000011	1.4	0.026	0.00001	0.00010	0.00014	0.00056	0.0029
		October		0.071	0.0001	0.0013	1.3	0.012	0.0000049	0.00044	0.0015	0.71	0.000072	0.000011	1.5	0.026	0.00001	0.000097	0.00014	0.00055	0.0029
		November		0.071	0.0001	0.0013	1.3	0.012	0.0000049	0.00044	0.0015	0.71	0.000072	0.000011	1.5	0.026	0.00001	0.000097	0.00014	0.00055	0.0029
		December		0.071	0.0001	0.0013	1.3	0.012	0.0000049	0.00045	0.0015	0.71	0.000072	0.000011	1.5	0.027	0.00001	0.000098	0.00014	0.00055	0.0029
		January	2027	0.071	0.0001	0.0013	1.3	0.012	0.0000049	0.00045	0.0015	0.71	0.000072	0.000011	1.5	0.027	0.00001	0.000098	0.00014	0.00055	0.0029
		February		0.072	0.0001	0.0013	1.3	0.012	0.0000049	0.00045	0.0015	0.71	0.000072	0.000011	1.5	0.027	0.00001	0.000098	0.00014	0.00055	0.0029
		March		0.072	0.0001	0.0013	1.3	0.012	0.0000049	0.00045	0.0015	0.71	0.000072	0.000011	1.5	0.027	0.00001	0.000098	0.00014	0.00056	0.0029
		April		0.072	0.0001	0.0013	1.3	0.012	0.0000049	0.00045	0.0015	0.71	0.000072	0.000011	1.5	0.027	0.00001	0.000098	0.00015	0.00056	0.0029
		May		0.072	0.0001	0.0013	1.3	0.012	0.000005	0.00045	0.0015	0.71	0.000072	0.000011	1.5	0.027	0.00001	0.000098	0.00015	0.00056	0.0029
		June		0.09	0.00012	0.0015	1.5	0.016	0.0000056	0.00058	0.0018	0.83	0.000086	0.000013	1.8	0.031	0.000012	0.00011	0.00019	0.00064	0.0032
			MINIMUM	0.066	0.0001	0.0013	1.3	0.011	0.0000049	0.00041	0.0015	0.71	0.000071	0.000011	1.4	0.026	0.00001	0.000097	0.00013	0.00055	0.0028
			MAXIMUM	0.18	0.00017	0.0018	2.1	0.032	0.0000058	0.0012	0.0028	1.0	0.00012	0.000015	3.3	0.041	0.000012	0.00011	0.00039	0.00074	0.0033
			AVERAGE	0.1	0.00012	0.0014	1.5	0.018	0.0000051	0.00067	0.0019	0.8	0.000086	0.000012	2.0	0.031	0.000011	0.0001	0.00021	0.00061	0.0029

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12			2.93	0.01	0.1		*0.025*				1.5	0.00004				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	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 Outlet	*Closure, controlled discharge from pit lake*	July	2027	24	0.11	6.8	7.9	0.032	3.1	0.022	0.2	0.0066	0.033	0.00016	0.0052	0.0076	0.00002	0.000045	0.022	0.0000073	3.9	0.0009	0.0002	0.00063
		August		24	0.11	6.9	8.0	0.033	3.2	0.023	0.18	0.0068	0.032	0.00017	0.0054	0.0077	0.00002	0.000046	0.022	0.0000074	4.0	0.00089	0.0002	0.00064
		September		23	0.098	6.9	7.8	0.034	3.1	0.021	0.15	0.0066	0.029	0.00016	0.0052	0.0076	0.000021	0.000047	0.021	0.0000074	3.9	0.00082	0.0002	0.00063
		October		26	0.1	7.5	8.6	0.037	3.4	0.023	0.15	0.0072	0.031	0.00018	0.0057	0.0083	0.000023	0.000052	0.023	0.0000082	4.3	0.00088	0.00022	0.0007
		November		26	0.1	7.5	8.6	0.037	3.4	0.023	0.15	0.0073	0.031	0.00018	0.0057	0.0084	0.000023	0.000052	0.023	0.0000082	4.3	0.00088	0.00022	0.0007
		December		26	0.1	7.6	8.6	0.037	3.4	0.023	0.15	0.0073	0.031	0.00018	0.0057	0.0084	0.000023	0.000052	0.023	0.0000082	4.3	0.00089	0.00022	0.0007
		January	2028	26	0.1	7.6	8.6	0.038	3.4	0.023	0.15	0.0073	0.031	0.00018	0.0057	0.0084	0.000023	0.000052	0.023	0.0000082	4.3	0.00089	0.00022	0.0007
		February		26	0.1	7.6	8.6	0.038	3.4	0.023	0.15	0.0073	0.031	0.00018	0.0057	0.0084	0.000023	0.000052	0.023	0.0000082	4.3	0.00089	0.00022	0.0007
		March		26	0.1	7.6	8.6	0.038	3.4	0.023	0.15	0.0073	0.031	0.00018	0.0057	0.0084	0.000023	0.000052	0.023	0.0000082	4.3	0.00089	0.00022	0.0007
		April		26	0.1	7.6	8.7	0.038	3.4	0.024	0.15	0.0073	0.031	0.00018	0.0057	0.0084	0.000023	0.000052	0.024	0.0000082	4.3	0.00089	0.00022	0.0007
		May		26	0.1	7.6	8.7	0.038	3.4	0.024	0.15	0.0073	0.031	0.00018	0.0057	0.0084	0.000023	0.000052	0.024	0.0000082	4.3	0.00089	0.00022	0.0007
		June		26	0.096	7.8	8.8	0.039	3.5	0.023	0.12	0.0074	0.03	0.00019	0.0058	0.0086	0.000024	0.000055	0.024	0.0000085	4.4	0.00088	0.00022	0.00073
		July		20	0.067	6.1	6.8	0.031	2.7	0.018	0.071	0.0058	0.022	0.00014	0.0045	0.0067	0.000019	0.000043	0.018	0.0000067	3.4	0.00067	0.00017	0.00057
		August		21	0.071	6.3	6.9	0.032	2.7	0.018	0.065	0.006	0.023	0.00015	0.0047	0.0068	0.000019	0.000045	0.019	0.0000069	3.5	0.00068	0.00018	0.00059
		September		20	0.067	6.3	6.8	0.033	2.7	0.018	0.056	0.0059	0.022	0.00015	0.0045	0.0068	0.00002	0.000046	0.018	0.0000069	3.5	0.00066	0.00018	0.00059
		October		23	0.073	6.9	7.5	0.036	3.0	0.019	0.058	0.0065	0.024	0.00017	0.005	0.0075	0.000022	0.000051	0.02	0.0000076	3.8	0.00073	0.00019	0.00066
		November		23	0.073	7.0	7.5	0.036	3.0	0.019	0.058	0.0065	0.024	0.00017	0.005	0.0075	0.000022	0.000051	0.02	0.0000076	3.8	0.00073	0.00019	0.00066
		December		23	0.073	7.0	7.5	0.036	3.0	0.019	0.058	0.0065	0.024	0.00017	0.005	0.0076	0.000022	0.000051	0.02	0.0000076	3.8	0.00073	0.00019	0.00066
		January	2029	23	0.073	7.0	7.5	0.036	3.0	0.019	0.058	0.0065	0.024	0.00017	0.005	0.0076	0.000022	0.000051	0.02	0.0000076	3.8	0.00073	0.00019	0.00066
		February		23	0.073	7.0	7.5	0.036	3.0	0.019	0.059	0.0065	0.024	0.00017	0.005	0.0076	0.000022	0.000051	0.02	0.0000077	3.8	0.00073	0.00019	0.00066
		March		23	0.073	7.0	7.5	0.037	3.0	0.019	0.059	0.0065	0.024	0.00017	0.005	0.0076	0.000022	0.000051	0.02	0.0000077	3.8	0.00073	0.00019	0.00066
		April		23	0.073	7.0	7.6	0.037	3.0	0.019	0.059	0.0065	0.024	0.00017	0.005	0.0076	0.000022	0.000051	0.02	0.0000077	3.8	0.00073	0.00019	0.00066
		May		23	0.073	7.0	7.6	0.037	3.0	0.02	0.059	0.0065	0.024	0.00017	0.005	0.0076	0.000022	0.000051	0.02	0.0000077	3.9	0.00073	0.00019	0.00066
		June		23	0.069	7.3	7.7	0.038	3.1	0.02	0.053	0.0067	0.025	0.00017	0.005	0.0079	0.000023	0.000054	0.021	0.000008	4.0	0.00075	0.0002	0.00069
		July		18	0.051	5.7	6.0	0.03	2.4	0.015	0.035	0.0052	0.02	0.00014	0.004	0.0062	0.000019	0.000043	0.016	0.0000063	3.1	0.00061	0.00016	0.00055
		August		19	0.056	5.9	6.1	0.032	2.5	0.016	0.034	0.0054	0.02	0.00014	0.0041	0.0063	0.000019	0.000045	0.017	0.0000065	3.2	0.00063	0.00016	0.00057
		September		19	0.054	6.0	6.1	0.032	2.5	0.015	0.031	0.0053	0.02	0.00014	0.0039	0.0064	0.00002	0.000046	0.016	0.0000065	3.2	0.00062	0.00016	0.00058
		October		21	0.059	6.6	6.7	0.035	2.8	0.017	0.033	0.0058	0.022	0.00016	0.0043	0.0071	0.000022	0.000051	0.018	0.0000072	3.5	0.00069	0.00018	0.00064
		November		21	0.059	6.6	6.7	0.035	2.8	0.017	0.033	0.0058	0.022	0.00016	0.0043	0.0071	0.000022	0.000051	0.018	0.0000073	3.6	0.00069	0.00018	0.00064
		December		21	0.059	6.6	6.7	0.035	2.8	0.017	0.033	0.0058	0.022	0.00016	0.0043	0.0071	0.000022	0.000051	0.018	0.0000073	3.6	0.00069	0.00018	0.00064
		January	2030	21	0.059	6.6	6.7	0.036	2.8	0.017	0.033	0.0058	0.022	0.00016	0.0043	0.0071	0.000022	0.000051	0.018	0.0000073	3.6	0.00069	0.00018	0.00065
		February		21	0.059	6.6	6.7	0.036	2.8	0.017	0.033	0.0058	0.022	0.00016	0.0044	0.0071	0.000022	0.000051	0.018	0.0000073	3.6	0.00069	0.00018	0.00065
		March		21	0.059	6.6	6.7	0.036	2.8	0.017	0.033	0.0059	0.022	0.00016	0.0044	0.0071	0.000022	0.000051	0.018	0.0000073	3.6	0.00069	0.00018	0.00065
		April		21	0.059	6.6	6.7	0.036	2.8	0.017	0.033	0.0059	0.022	0.00016	0.0044	0.0071	0.000022	0.000051	0.018	0.0000073	3.6	0.00069	0.00018	0.00065
		May		21	0.059	6.7	6.7	0.036	2.8	0.017	0.033	0.0059	0.022	0.00016	0.0044	0.0071	0.000022	0.000052	0.018	0.0000073	3.6	0.00069	0.00018	0.00065
		June		21	0.057	7.0	6.9	0.037	2.9	0.017	0.032	0.006	0.023	0.00016	0.0044	0.0074	0.000023	0.000055	0.019	0.0000076	3.7	0.00072	0.00019	0.00068
		July		17	0.043	5.5	5.4	0.03	2.2	0.013	0.023	0.0047	0.019	0.00013	0.0035	0.0058	0.000019	0.000044	0.015	0.000006	2.9	0.00059	0.00015	0.00055
		August		17	0.047	5.7	5.5	0.031	2.3	0.014	0.023	0.0049	0.02	0.00013	0.0036	0.006	0.000019	0.000045	0.015	0.0000062	3.0	0.00062	0.00016	0.00056
		September		17	0.046	5.7	5.5	0.031	2.3	0.014	0.022	0.0048	0.02	0.00014	0.0035	0.0061	0.00002	0.000047	0.015	0.0000063	3.0	0.00061	0.00016	0.00057
		October		19	0.051	6.3	6.0	0.035	2.6	0.015	0.024	0.0053	0.022	0.00015	0.0038	0.0067	0.000022	0.000052	0.017	0.0000069	3.4	0.00067	0.00017	0.00064
		November		19	0.051	6.4	6.0	0.035	2.6	0.015	0.024	0.0053	0.022	0.00015	0.0038	0.0067	0.000022	0.000052	0.017	0.000007	3.4	0.00068	0.00017	0.00064
		December		19	0.051	6.4	6.0	0.035	2.6	0.015	0.024	0.0053	0.022	0.00015	0.0038	0.0068	0.000022	0.000052	0.017	0.000007	3.4	0.00068	0.00017	0.00064
		January	2031	19	0.051	6.4	6.1	0.035	2.6	0.015	0.024	0.0053	0.022	0.00015	0.0038	0.0068	0.000022	0.000052	0.017	0.000007	3.4	0.00068	0.00017	0.00064
		February		19	0.051	6.4	6.1	0.035	2.6	0.015	0.024	0.0053	0.022	0.00015	0.0038	0.0068	0.000022	0.000052	0.017	0.000007	3.4	0.00068	0.00017	0.00064
		March		19	0.051	6.4	6.1	0.035	2.6	0.015	0.024	0.0053	0.022	0.00015	0.0038	0.0068	0.000022	0.000052	0.017	0.000007	3.4	0.00068	0.00017	0.00064
		April		19	0.051	6.4	6.1	0.035	2.6	0.015	0.024	0.0053	0.022	0.00015	0.0038	0.0068	0.000022	0.000052	0.017	0.000007	3.4	0.00068	0.00018	0.00064
		May		19	0.051	6.4	6.1	0.035	2.6	0.015	0.024	0.0053	0.022	0.00015	0.0038	0.0068	0.000022	0.000052	0.017	0.000007	3.4	0.00068	0.00018	0.00064
		June		20	0.049	6.7	6.3	0.037	2.7	0.015	0.024	0.0055	0.023	0.00016	0.0039	0.0071	0.000023	0.000055	0.018	0.0000073	3.5	0.00071	0.00018	0.00068
		July		16	0.037	5.3	4.9	0.029	2.1	0.012	0.018	0.0043	0.019	0.00013	0.003	0.0056	0.000019	0.000044	0.014	0.0000058	2.8	0.00058	0.00015	0.00054
		August		16	0.041	5.5	5.0	0.03	2.2	0.012	0.019	0.0045	0.02	0.00013	0.0031	0.0058	0.000019	0.000046	0.014	0.000006	2.8	0.00061	0.00015	0.00056
		September		16	0.041	5.5	5.0	0.031	2.2	0.012	0.018	0.0044	0.019	0.00013	0.0031	0.0058	0.00002	0.000047	0.014	0.000006	2.9	0.0006	0.00015	0.00057
		October		18	0.045	6.2	5.5	0.034	2.4	0.013	0.02	0.0049	0.022	0.00015	0.0034	0.0065	0.000022	0.000052	0.016	0.0000067	3.2	0.00067	0.00017	0.00063
		November		18	0.045	6.2	5.5	0.034	2.4	0.013	0.02	0.0049	0.022	0.00015	0.0034	0.0065	0.000022	0.000052	0.016	0.0000067	3.2	0.00067	0.00017	0.00063
		December		18	0.045	6.2	5.5	0.034	2.5	0.013	0.02	0.0049	0.022	0.00015	0.0034	0.0065	0.000022	0.000052	0.016	0.0000067	3.2	0.00067	0.00017	0.00064

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1.0	0.05				0.004		0.25										0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	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, controlled discharge from pit lake*	July	2027	0.085	0.00011	0.0013	1.4	0.016	0.0000047	0.0006	0.0016	0.71	0.000076	0.000011	1.8	0.028	0.0000098	0.000093	0.0002	0.00055	0.0025
		August		0.084	0.00011	0.0013	1.4	0.016	0.0000048	0.00062	0.0016	0.72	0.000077	0.000011	1.8	0.028	0.0000099	0.000095	0.00021	0.00056	0.0024
		September		0.079	0.0001	0.0013	1.4	0.016	0.0000049	0.00061	0.0015	0.71	0.000076	0.000011	1.7	0.028	0.000010	0.000097	0.00021	0.00055	0.0023
		October		0.085	0.00011	0.0015	1.5	0.018	0.0000054	0.00067	0.0017	0.78	0.000083	0.000012	1.9	0.03	0.000011	0.00011	0.00023	0.00061	0.0024
		November		0.086	0.00011	0.0015	1.5	0.018	0.0000054	0.00067	0.0017	0.78	0.000083	0.000012	1.9	0.03	0.000011	0.00011	0.00023	0.00061	0.0024
		December		0.086	0.00011	0.0015	1.5	0.018	0.0000054	0.00067	0.0017	0.78	0.000083	0.000012	1.9	0.03	0.000011	0.00011	0.00023	0.00061	0.0025
		January	2028	0.086	0.00011	0.0015	1.5	0.018	0.0000054	0.00067	0.0017	0.79	0.000083	0.000012	1.9	0.03	0.000011	0.00011	0.00024	0.00061	0.0025
		February		0.086	0.00011	0.0015	1.5	0.018	0.0000054	0.00067	0.0017	0.79	0.000083	0.000012	1.9	0.03	0.000011	0.00011	0.00024	0.00061	0.0025
		March		0.086	0.00011	0.0015	1.5	0.018	0.0000054	0.00067	0.0017	0.79	0.000083	0.000012	1.9	0.03	0.000011	0.00011	0.00024	0.00061	0.0025
		April		0.086	0.00011	0.0015	1.5	0.018	0.0000054	0.00067	0.0017	0.79	0.000084	0.000012	1.9	0.03	0.000011	0.00011	0.00024	0.00062	0.0025
		May		0.086	0.00011	0.0015	1.5	0.018	0.0000055	0.00067	0.0017	0.79	0.000084	0.000012	1.9	0.03	0.000011	0.00011	0.00024	0.00062	0.0025
		June		0.086	0.00012	0.0015	1.6	0.018	0.0000057	0.00068	0.0017	0.81	0.000085	0.000013	2.0	0.031	0.000012	0.00011	0.00024	0.00064	0.0025
		July		0.066	0.000089	0.0012	1.2	0.014	0.0000045	0.00054	0.0013	0.62	0.000066	0.0000098	1.5	0.024	0.0000091	0.000089	0.00019	0.0005	0.0018
		August		0.068	0.000091	0.0012	1.3	0.015	0.0000047	0.00055	0.0013	0.64	0.000068	0.00001	1.6	0.025	0.0000094	0.000092	0.0002	0.00052	0.0018
		September		0.066	0.000091	0.0012	1.3	0.014	0.0000048	0.00053	0.0013	0.65	0.000068	0.00001	1.5	0.024	0.0000096	0.000095	0.0002	0.00053	0.0018
		October		0.073	0.00010	0.0014	1.4	0.016	0.0000053	0.00059	0.0014	0.71	0.000075	0.000011	1.7	0.027	0.000011	0.00011	0.00022	0.00058	0.002
		November		0.073	0.00010	0.0014	1.4	0.016	0.0000053	0.00059	0.0014	0.71	0.000075	0.000011	1.7	0.027	0.000011	0.00011	0.00022	0.00059	0.002
		December		0.073	0.0001	0.0014	1.4	0.016	0.0000053	0.00059	0.0014	0.71	0.000075	0.000011	1.7	0.027	0.000011	0.00011	0.00022	0.00059	0.002
		January	2029	0.073	0.0001	0.0014	1.4	0.016	0.0000053	0.00059	0.0014	0.71	0.000075	0.000011	1.7	0.027	0.000011	0.00011	0.00022	0.00059	0.002
		February		0.074	0.0001	0.0014	1.4	0.016	0.0000053	0.00059	0.0014	0.72	0.000075	0.000011	1.7	0.027	0.000011	0.00011	0.00022	0.00059	0.002
		March		0.074	0.0001	0.0014	1.4	0.016	0.0000053	0.00059	0.0014	0.72	0.000076	0.000011	1.7	0.027	0.000011	0.00011	0.00022	0.00059	0.002
		April		0.074	0.0001	0.0014	1.4	0.016	0.0000053	0.00059	0.0014	0.72	0.000076	0.000011	1.7	0.027	0.000011	0.00011	0.00022	0.00059	0.002
		May		0.074	0.0001	0.0014	1.4	0.016	0.0000053	0.00059	0.0014	0.72	0.000076	0.000011	1.7	0.027	0.000011	0.00011	0.00022	0.00059	0.002
		June		0.076	0.0001	0.0014	1.4	0.016	0.0000056	0.00059	0.0015	0.74	0.000078	0.000012	1.7	0.028	0.000011	0.00011	0.00022	0.00062	0.0021
		July		0.062	0.000082	0.0011	1.1	0.012	0.0000045	0.00046	0.0012	0.58	0.000062	0.0000096	1.4	0.022	0.0000091	0.000089	0.00017	0.0005	0.0016
		August		0.064	0.000084	0.0012	1.2	0.013	0.0000047	0.00047	0.0012	0.6	0.000064	0.0000099	1.4	0.022	0.0000094	0.000093	0.00018	0.00051	0.0016
		September		0.063	0.000085	0.0012	1.2	0.012	0.0000048	0.00046	0.0012	0.61	0.000064	0.00001	1.4	0.023	0.0000096	0.000095	0.00018	0.00052	0.0017
		October		0.07	0.000094	0.0013	1.3	0.013	0.0000053	0.0005	0.0013	0.67	0.000071	0.000011	1.5	0.025	0.000011	0.00011	0.00019	0.00058	0.0018
		November		0.07	0.000094	0.0013	1.3	0.013	0.0000053	0.0005	0.0013	0.67	0.000071	0.000011	1.5	0.025	0.000011	0.00011	0.00019	0.00058	0.0018
		December		0.07	0.000094	0.0013	1.3	0.013	0.0000053	0.0005	0.0013	0.68	0.000071	0.000011	1.5	0.025	0.000011	0.00011	0.00019	0.00058	0.0018
		January	2030	0.07	0.000095	0.0013	1.3	0.013	0.0000053	0.0005	0.0013	0.68	0.000071	0.000011	1.5	0.025	0.000011	0.00011	0.00019	0.00058	0.0018
		February		0.07	0.000095	0.0013	1.3	0.013	0.0000053	0.0005	0.0013	0.68	0.000071	0.000011	1.5	0.025	0.000011	0.00011	0.00019	0.00059	0.0018
		March		0.071	0.000095	0.0013	1.3	0.013	0.0000053	0.0005	0.0013	0.68	0.000072	0.000011	1.5	0.025	0.000011	0.00011	0.00019	0.00059	0.0018
		April		0.071	0.000095	0.0013	1.3	0.013	0.0000054	0.0005	0.0013	0.68	0.000072	0.000011	1.5	0.025	0.000011	0.00011	0.00019	0.00059	0.0018
		May		0.071	0.000095	0.0013	1.3	0.013	0.0000054	0.00051	0.0013	0.68	0.000072	0.000011	1.5	0.025	0.000011	0.00011	0.0002	0.00059	0.0018
		June		0.074	0.000099	0.0014	1.4	0.014	0.0000057	0.0005	0.0014	0.71	0.000075	0.000012	1.5	0.026	0.000011	0.00011	0.0002	0.00062	0.002
		July		0.06	0.000079	0.0011	1.1	0.011	0.0000045	0.00039	0.0011	0.55	0.000059	0.0000096	1.2	0.02	0.0000091	0.00009	0.00015	0.0005	0.0015
		August		0.063	0.000081	0.0011	1.1	0.011	0.0000047	0.0004	0.0011	0.57	0.000061	0.0000099	1.2	0.021	0.0000095	0.000094	0.00016	0.00052	0.0015
		September		0.062	0.000082	0.0012	1.1	0.01	0.0000048	0.00039	0.0011	0.58	0.000062	0.00001	1.2	0.021	0.0000097	0.000096	0.00015	0.00053	0.0016
		October		0.069	0.000091	0.0013	1.2	0.011	0.0000054	0.00042	0.0013	0.65	0.000068	0.000011	1.3	0.023	0.000011	0.00011	0.00017	0.00059	0.0018
		November		0.069	0.000091	0.0013	1.2	0.011	0.0000054	0.00043	0.0013	0.65	0.000069	0.000011	1.3	0.023	0.000011	0.00011	0.00017	0.00059	0.0018
		December		0.069	0.000091	0.0013	1.2	0.011	0.0000054	0.00043	0.0013	0.65	0.000069	0.000011	1.3	0.023	0.000011	0.00011	0.00017	0.00059	0.0018
		January	2031	0.07	0.000091	0.0013	1.2	0.011	0.0000054	0.00043	0.0013	0.65	0.000069	0.000011	1.3	0.023	0.000011	0.00011	0.00017	0.00059	0.0018
		February		0.07	0.000091	0.0013	1.2	0.012	0.0000054	0.00043	0.0013	0.65	0.000069	0.000011	1.3	0.023	0.000011	0.00011	0.00017	0.00059	0.0018
		March		0.07	0.000091	0.0013	1.2	0.012	0.0000054	0.00043	0.0013	0.65	0.000069	0.000011	1.3	0.023	0.000011	0.00011	0.00017	0.00059	0.0018
		April		0.07	0.000092	0.0013	1.2	0.012	0.0000054	0.00043	0.0013	0.65	0.000069	0.000011	1.3	0.023	0.000011	0.00011	0.00017	0.00059	0.0018
		May		0.07	0.000092	0.0013	1.2	0.012	0.0000054	0.00043	0.0013	0.65	0.000069	0.000011	1.3	0.023	0.000011	0.00011	0.00017	0.00059	0.0018
		June		0.073	0.000096	0.0014	1.3	0.012	0.0000057	0.00043	0.0013	0.68	0.000072	0.000012	1.4	0.024	0.000012	0.00011	0.00017	0.00062	0.0019
		July		0.06	0.000076	0.0011	1.0	0.0091	0.0000046	0.00033	0.0011	0.53	0.000057	0.0000097	1.1	0.019	0.0000092	0.000091	0.00013	0.0005	0.0015
		August		0.063	0.000079	0.0011	1.0	0.0093	0.0000047	0.00034	0.0011	0.55	0.000059	0.000010	1.1	0.02	0.0000096	0.000094	0.00014	0.00052	0.0015
		September		0.062	0.00008	0.0011	1.0	0.009	0.0000049	0.00033	0.0011	0.57	0.00006	0.00001	1.1	0.02	0.0000098	0.000097	0.00014	0.00053	0.0016
		October		0.069	0.000089	0.0013	1.2	0.0099	0.0000054	0.00036	0.0012	0.63	0.000066	0.000011	1.2	0.022	0.000011	0.00011	0.00015	0.00059	0.0018
		November		0.069	0.000089	0.0013	1.2	0.0099	0.0000054	0.00036	0.0012	0.63	0.000066	0.000011	1.2	0.022	0.000011	0.00011	0.00015	0.00059	0.0018
		December		0.069	0.000089	0.0013	1.2	0.0099	0.0000054	0.00036	0.0012	0.63	0.000067	0.000011	1.2	0.022	0.000011	0.00011	0.00015	0.00059	0.0018

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12			2.93	0.01	0.1		*0.025*				1.5	0.00004				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	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 Outlet	*Closure, controlled discharge from pit lake*	January	2032	18	0.045	6.2	5.5	0.034	2.5	0.013	0.02	0.0049	0.022	0.00015	0.0034	0.0065	0.000022	0.000053	0.016	0.0000067	3.2	0.00067	0.00017	0.00064
		February		18	0.045	6.2	5.5	0.034	2.5	0.013	0.02	0.0049	0.022	0.00015	0.0034	0.0065	0.000022	0.000053	0.016	0.0000067	3.2	0.00067	0.00017	0.00064
		March		18	0.045	6.2	5.5	0.034	2.5	0.013	0.02	0.0049	0.022	0.00015	0.0034	0.0065	0.000022	0.000053	0.016	0.0000067	3.2	0.00067	0.00017	0.00064
		April		18	0.045	6.2	5.5	0.034	2.5	0.013	0.02	0.0049	0.022	0.00015	0.0034	0.0065	0.000022	0.000053	0.016	0.0000068	3.2	0.00068	0.00017	0.00064
		May		18	0.045	6.2	5.5	0.034	2.5	0.013	0.02	0.0049	0.022	0.00015	0.0034	0.0065	0.000022	0.000053	0.016	0.0000068	3.2	0.00068	0.00017	0.00064
		June		19	0.043	6.5	5.7	0.036	2.6	0.014	0.02	0.0051	0.023	0.00015	0.0034	0.0068	0.000023	0.000056	0.016	0.0000071	3.4	0.00071	0.00018	0.00067
		July		15	0.032	5.2	4.5	0.029	2.0	0.011	0.016	0.004	0.019	0.00012	0.0027	0.0054	0.000019	0.000045	0.013	0.0000056	2.6	0.00058	0.00014	0.00054
		August		15	0.037	5.3	4.6	0.03	2.1	0.011	0.016	0.0041	0.02	0.00013	0.0028	0.0055	0.000019	0.000046	0.013	0.0000058	2.7	0.00061	0.00015	0.00056
		September		15	0.037	5.4	4.6	0.03	2.1	0.011	0.015	0.0041	0.019	0.00013	0.0027	0.0057	0.00002	0.000047	0.013	0.0000059	2.8	0.0006	0.00015	0.00057
		October		17	0.04	6.0	5.1	0.033	2.3	0.012	0.017	0.0045	0.022	0.00014	0.003	0.0063	0.000022	0.000053	0.015	0.0000065	3.1	0.00067	0.00016	0.00063
		November		17	0.04	6.0	5.1	0.033	2.3	0.012	0.017	0.0045	0.022	0.00014	0.003	0.0063	0.000022	0.000053	0.015	0.0000065	3.1	0.00067	0.00016	0.00063
		December		17	0.04	6.0	5.1	0.033	2.3	0.012	0.017	0.0045	0.022	0.00014	0.003	0.0063	0.000022	0.000053	0.015	0.0000065	3.1	0.00067	0.00016	0.00063
		January	2033	17	0.04	6.0	5.1	0.034	2.3	0.012	0.017	0.0046	0.022	0.00014	0.003	0.0063	0.000022	0.000053	0.015	0.0000065	3.1	0.00067	0.00016	0.00063
		February		17	0.04	6.0	5.1	0.034	2.3	0.012	0.017	0.0046	0.022	0.00014	0.003	0.0063	0.000022	0.000053	0.015	0.0000065	3.1	0.00067	0.00016	0.00063
		March		17	0.04	6.0	5.1	0.034	2.3	0.012	0.017	0.0046	0.022	0.00014	0.003	0.0063	0.000022	0.000053	0.015	0.0000066	3.1	0.00067	0.00016	0.00063
		April		17	0.04	6.0	5.1	0.034	2.4	0.012	0.017	0.0046	0.022	0.00014	0.003	0.0063	0.000022	0.000053	0.015	0.0000066	3.1	0.00067	0.00016	0.00064
		May		17	0.04	6.0	5.1	0.034	2.4	0.012	0.017	0.0046	0.022	0.00014	0.003	0.0063	0.000022	0.000053	0.015	0.0000066	3.1	0.00067	0.00016	0.00064
		June		18	0.038	6.3	5.3	0.035	2.5	0.013	0.017	0.0047	0.023	0.00015	0.0031	0.0066	0.000024	0.000057	0.016	0.0000069	3.3	0.0007	0.00017	0.00067
		July		14	0.029	5.0	4.1	0.028	1.9	0.0099	0.014	0.0037	0.019	0.00012	0.0024	0.0052	0.000019	0.000045	0.012	0.0000055	2.6	0.00058	0.00014	0.00054
		August		14	0.033	5.2	4.2	0.029	2.0	0.01	0.014	0.0039	0.02	0.00012	0.0025	0.0054	0.000019	0.000047	0.013	0.0000057	2.6	0.00061	0.00014	0.00056
		September		15	0.033	5.3	4.3	0.03	2.0	0.01	0.014	0.0038	0.019	0.00013	0.0025	0.0055	0.00002	0.000048	0.013	0.0000057	2.7	0.0006	0.00014	0.00057
		October		16	0.036	5.9	4.7	0.033	2.2	0.011	0.015	0.0043	0.022	0.00014	0.0027	0.0061	0.000022	0.000053	0.014	0.0000064	3.0	0.00067	0.00016	0.00063
		November		16	0.036	5.9	4.7	0.033	2.2	0.011	0.015	0.0043	0.022	0.00014	0.0027	0.0061	0.000022	0.000053	0.014	0.0000064	3.0	0.00067	0.00016	0.00063
		December		16	0.036	5.9	4.7	0.033	2.2	0.011	0.015	0.0043	0.022	0.00014	0.0027	0.0061	0.000022	0.000053	0.014	0.0000064	3.0	0.00067	0.00016	0.00063
		January	2034	16	0.036	5.9	4.7	0.033	2.3	0.011	0.015	0.0043	0.022	0.00014	0.0027	0.0061	0.000022	0.000053	0.014	0.0000064	3.0	0.00067	0.00016	0.00063
		February		16	0.036	5.9	4.7	0.033	2.3	0.011	0.015	0.0043	0.022	0.00014	0.0027	0.0061	0.000022	0.000053	0.014	0.0000064	3.0	0.00067	0.00016	0.00063
		March		16	0.036	5.9	4.7	0.033	2.3	0.011	0.015	0.0043	0.022	0.00014	0.0027	0.0061	0.000022	0.000054	0.014	0.0000064	3.0	0.00067	0.00016	0.00063
		April		16	0.036	5.9	4.7	0.033	2.3	0.011	0.015	0.0043	0.022	0.00014	0.0028	0.0061	0.000022	0.000054	0.014	0.0000064	3.0	0.00067	0.00016	0.00063
		May		16	0.036	5.9	4.7	0.033	2.3	0.011	0.015	0.0043	0.022	0.00014	0.0028	0.0061	0.000022	0.000054	0.014	0.0000064	3.0	0.00067	0.00016	0.00063
		June		17	0.034	6.2	4.9	0.035	2.4	0.012	0.015	0.0045	0.023	0.00015	0.0028	0.0065	0.000024	0.000057	0.015	0.0000067	3.2	0.0007	0.00017	0.00067
		July		13	0.026	4.9	3.8	0.028	1.9	0.0091	0.012	0.0035	0.019	0.00012	0.0022	0.0051	0.000019	0.000046	0.012	0.0000054	2.5	0.00058	0.00014	0.00054
		August		14	0.03	5.1	3.9	0.029	1.9	0.0093	0.012	0.0036	0.02	0.00012	0.0023	0.0052	0.00002	0.000047	0.012	0.0000055	2.5	0.00061	0.00014	0.00055
		September		14	0.03	5.2	4.0	0.029	2.0	0.0093	0.012	0.0036	0.019	0.00012	0.0023	0.0054	0.00002	0.000048	0.012	0.0000056	2.6	0.0006	0.00014	0.00056
		October		16	0.033	5.8	4.4	0.033	2.2	0.01	0.013	0.004	0.022	0.00014	0.0025	0.0059	0.000022	0.000054	0.014	0.0000062	2.9	0.00067	0.00016	0.00063
		November		16	0.033	5.8	4.4	0.033	2.2	0.01	0.013	0.004	0.022	0.00014	0.0025	0.006	0.000022	0.000054	0.014	0.0000062	2.9	0.00067	0.00016	0.00063
		December		16	0.033	5.8	4.4	0.033	2.2	0.01	0.013	0.004	0.022	0.00014	0.0025	0.006	0.000022	0.000054	0.014	0.0000062	2.9	0.00067	0.00016	0.00063
		January	2035	16	0.033	5.8	4.4	0.033	2.2	0.01	0.013	0.004	0.022	0.00014	0.0025	0.006	0.000022	0.000054	0.014	0.0000062	2.9	0.00067	0.00016	0.00063
		February		16	0.033	5.8	4.4	0.033	2.2	0.01	0.013	0.004	0.022	0.00014	0.0025	0.006	0.000022	0.000054	0.014	0.0000063	2.9	0.00067	0.00016	0.00063
		March		16	0.033	5.8	4.4	0.033	2.2	0.01	0.013	0.004	0.022	0.00014	0.0025	0.006	0.000022	0.000054	0.014	0.0000063	2.9	0.00067	0.00016	0.00063
		April		16	0.033	5.8	4.4	0.033	2.2	0.01	0.013	0.0041	0.022	0.00014	0.0025	0.006	0.000022	0.000054	0.014	0.0000063	2.9	0.00067	0.00016	0.00063
		May		16	0.033	5.8	4.4	0.033	2.2	0.01	0.013	0.0041	0.022	0.00014	0.0025	0.006	0.000022	0.000054	0.014	0.0000063	2.9	0.00067	0.00016	0.00063
		June		16	0.031	6.1	4.6	0.035	2.3	0.011	0.014	0.0042	0.023	0.00014	0.0026	0.0063	0.000024	0.000057	0.014	0.0000066	3.1	0.0007	0.00017	0.00067
		July		13	0.023	4.8	3.6	0.028	1.8	0.0085	0.011	0.0034	0.019	0.00012	0.002	0.005	0.000019	0.000046	0.011	0.0000053	2.4	0.00058	0.00013	0.00053
		August		13	0.028	5.0	3.7	0.029	1.9	0.0087	0.011	0.0035	0.02	0.00012	0.0021	0.0051	0.00002	0.000047	0.012	0.0000054	2.5	0.00061	0.00014	0.00055
		September		14	0.028	5.1	3.8	0.029	1.9	0.0087	0.011	0.0035	0.019	0.00012	0.0021	0.0053	0.00002	0.000048	0.012	0.0000055	2.5	0.0006	0.00014	0.00056
		October		15	0.03	5.7	4.2	0.032	2.1	0.0096	0.012	0.0038	0.022	0.00014	0.0023	0.0058	0.000022	0.000054	0.013	0.0000061	2.8	0.00067	0.00015	0.00063
		November		15	0.03	5.7	4.2	0.032	2.1	0.0096	0.012	0.0038	0.022	0.00014	0.0023	0.0058	0.000022	0.000054	0.013	0.0000061	2.8	0.00067	0.00015	0.00063
		December		15	0.03	5.7	4.2	0.032	2.1	0.0096	0.012	0.0038	0.022	0.00014	0.0023	0.0058	0.000022	0.000054	0.013	0.0000061	2.8	0.00067	0.00015	0.00063
		January	2036	15	0.031	5.7	4.2	0.032	2.1	0.0096	0.012	0.0038	0.022	0.00014	0.0023	0.0059	0.000022	0.000054	0.013	0.0000061	2.8	0.00067	0.00015	0.00063
		February		15	0.031	5.7	4.2	0.032	2.1	0.0097	0.012	0.0039	0.022	0.00014	0.0023	0.0059	0.000022	0.000054	0.013	0.0000061	2.8	0.00067	0.00015	0.00063
		March		15	0.031	5.7	4.2	0.033	2.1	0.0097	0.012	0.0039	0.022	0.00014	0.0023	0.0059	0.000022	0.000054	0.013	0.0000062	2.8	0.00067	0.00015	0.00063
		April		15	0.031	5.7	4.2	0.033	2.1	0.0097	0.012	0.0039	0.022	0.00014	0.0023	0.0059	0.000022	0.000054	0.013	0.0000062	2.8	0.00067	0.00016	0.00063
		May		15	0.031	5.7	4.2	0.033	2.1	0.0097	0.012	0.0039	0.022	0.00014	0.0023	0.0059	0.000022	0.000054	0.013	0.0000062	2.8	0.00067	0.00016	0.00063
		June		16	0.028	6.0	4.4	0.034	2.2	0.01	0.012	0.004	0.023	0.00014	0.0024	0.0062	0.000024	0.000058	0.014	0.0000065	3.0	0.0007	0.00016	0.00067
		July		13	0.021	4.8	3.4	0.027	1.7	0.008	0.0098	0.0032	0.019	0.00011	0.0019	0.0049	0.000019	0.000046	0.011	0.0000052	2.4	0.00058	0.00013	0.00053
		August		13	0.026	4.9	3.5	0.028	1.8	0.0082	0.01	0.0033	0.02	0.00012	0.002	0.005	0.00002	0.000048	0.011	0.0000053	2.4	0.0006	0.00014	0.00055
		September		13	0.026	5.0	3.6	0.029	1.9	0.0082	0.0099	0.0033	0.019	0.00012	0.0019	0.0052	0.00002	0.000049	0.011	0.0000054	2.5	0.0006	0.00014	0.00056
		October		15	0.028	5.6	4.0	0.032	2.1	0.0091	0.011	0.0037	0.022	0.00013	0.0022	0.0057	0.000022	0.000054	0.013	0.000006	2.8	0.00066	0.00015	0.00063
		November		15	0.028	5.6	4.0	0.032	2.1	0.0091	0.011	0.0037	0.022	0.00013	0.0022	0.0057	0.000022	0.000054	0.013	0.000006	2.8	0.00067	0.00015	0.00063
		December		15	0.028	5.6	4.0	0.032	2.1	0.0091	0.011	0.0037	0.022	0.00013	0.0022	0.0058	0.000022	0.000054	0.013	0.000006	2.8	0.00067	0.00015	0.00063

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1.0	0.05				0.004		0.25										0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	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, controlled discharge from pit lake*	January	2032	0.069	0.000089	0.0013	1.2	0.0099	0.0000054	0.00036	0.0012	0.63	0.000067	0.000011	1.2	0.022	0.000011	0.00011	0.00015	0.00059	0.0018
		February		0.069	0.000089	0.0013	1.2	0.0099	0.0000054	0.00036	0.0012	0.63	0.000067	0.000011	1.2	0.022	0.000011	0.00011	0.00015	0.00059	0.0018
		March		0.07	0.000089	0.0013	1.2	0.0099	0.0000054	0.00036	0.0012	0.63	0.000067	0.000011	1.2	0.022	0.000011	0.00011	0.00015	0.00059	0.0018
		April		0.07	0.000089	0.0013	1.2	0.0099	0.0000054	0.00036	0.0012	0.63	0.000067	0.000011	1.2	0.022	0.000011	0.00011	0.00015	0.00059	0.0018
		May		0.07	0.000089	0.0013	1.2	0.010	0.0000054	0.00036	0.0012	0.63	0.000067	0.000011	1.2	0.022	0.000011	0.00011	0.00015	0.00059	0.0018
		June		0.073	0.000094	0.0013	1.2	0.01	0.0000058	0.00036	0.0013	0.66	0.00007	0.000012	1.3	0.023	0.000012	0.00011	0.00015	0.00063	0.0019
		July		0.06	0.000075	0.0011	0.96	0.0079	0.0000046	0.00028	0.001	0.52	0.000056	0.0000097	0.99	0.018	0.0000093	0.000092	0.00012	0.0005	0.0015
		August		0.063	0.000077	0.0011	0.99	0.008	0.0000048	0.00029	0.0011	0.54	0.000058	0.00001	1.0	0.019	0.0000097	0.000095	0.00012	0.00052	0.0015
		September		0.062	0.000078	0.0011	1.0	0.0078	0.0000049	0.00028	0.0011	0.55	0.000058	0.00001	1.0	0.019	0.0000099	0.000098	0.00012	0.00053	0.0016
		October		0.069	0.000087	0.0012	1.1	0.0086	0.0000054	0.00031	0.0012	0.61	0.000065	0.000011	1.1	0.021	0.000011	0.00011	0.00013	0.00059	0.0018
		November		0.069	0.000087	0.0012	1.1	0.0086	0.0000054	0.00031	0.0012	0.61	0.000065	0.000011	1.1	0.021	0.000011	0.00011	0.00013	0.00059	0.0018
		December		0.069	0.000087	0.0012	1.1	0.0086	0.0000055	0.00031	0.0012	0.61	0.000065	0.000011	1.1	0.021	0.000011	0.00011	0.00013	0.00059	0.0018
		January	2033	0.069	0.000087	0.0012	1.1	0.0086	0.0000055	0.00031	0.0012	0.61	0.000065	0.000011	1.1	0.021	0.000011	0.00011	0.00013	0.0006	0.0018
		February		0.069	0.000087	0.0012	1.1	0.0086	0.0000055	0.00031	0.0012	0.61	0.000065	0.000011	1.1	0.021	0.000011	0.00011	0.00013	0.0006	0.0018
		March		0.069	0.000087	0.0012	1.1	0.0086	0.0000055	0.00031	0.0012	0.61	0.000065	0.000011	1.1	0.021	0.000011	0.00011	0.00013	0.0006	0.0018
		April		0.07	0.000087	0.0012	1.1	0.0087	0.0000055	0.00031	0.0012	0.61	0.000065	0.000011	1.1	0.021	0.000011	0.00011	0.00013	0.0006	0.0018
		May		0.07	0.000087	0.0012	1.1	0.0087	0.0000055	0.00031	0.0012	0.61	0.000065	0.000012	1.1	0.021	0.000011	0.00011	0.00013	0.0006	0.0018
		June		0.073	0.000092	0.0013	1.2	0.0088	0.0000058	0.00031	0.0013	0.64	0.000068	0.000012	1.2	0.022	0.000012	0.00012	0.00013	0.00063	0.0019
		July		0.06	0.000073	0.001	0.93	0.0069	0.0000046	0.00024	0.001	0.51	0.000054	0.0000098	0.91	0.017	0.0000094	0.000093	0.0001	0.00051	0.0015
		August		0.063	0.000075	0.0011	0.95	0.007	0.0000048	0.00025	0.001	0.53	0.000056	0.00001	0.93	0.018	0.0000097	0.000096	0.00011	0.00053	0.0015
		September		0.062	0.000077	0.0011	0.97	0.0069	0.0000049	0.00024	0.0011	0.54	0.000057	0.00001	0.92	0.018	0.0000099	0.000098	0.00011	0.00054	0.0016
		October		0.069	0.000085	0.0012	1.1	0.0075	0.0000055	0.00027	0.0012	0.6	0.000063	0.000011	1.0	0.02	0.000011	0.00011	0.00012	0.0006	0.0017
		November		0.069	0.000085	0.0012	1.1	0.0075	0.0000055	0.00027	0.0012	0.6	0.000064	0.000011	1.0	0.02	0.000011	0.00011	0.00012	0.0006	0.0017
		December		0.069	0.000085	0.0012	1.1	0.0076	0.0000055	0.00027	0.0012	0.6	0.000064	0.000011	1.0	0.02	0.000011	0.00011	0.00012	0.0006	0.0017
		January	2034	0.069	0.000085	0.0012	1.1	0.0076	0.0000055	0.00027	0.0012	0.6	0.000064	0.000012	1.0	0.02	0.000011	0.00011	0.00012	0.0006	0.0017
		February		0.069	0.000086	0.0012	1.1	0.0076	0.0000055	0.00027	0.0012	0.6	0.000064	0.000012	1.0	0.02	0.000011	0.00011	0.00012	0.0006	0.0017
		March		0.069	0.000086	0.0012	1.1	0.0076	0.0000055	0.00027	0.0012	0.6	0.000064	0.000012	1.0	0.02	0.000011	0.00011	0.00012	0.0006	0.0017
		April		0.07	0.000086	0.0012	1.1	0.0076	0.0000055	0.00027	0.0012	0.6	0.000064	0.000012	1.0	0.02	0.000011	0.00011	0.00012	0.0006	0.0018
		May		0.07	0.000086	0.0012	1.1	0.0076	0.0000055	0.00027	0.0012	0.6	0.000064	0.000012	1.0	0.02	0.000011	0.00011	0.00012	0.0006	0.0018
		June		0.073	0.00009	0.0013	1.1	0.0077	0.0000058	0.00027	0.0012	0.63	0.000067	0.000012	1.1	0.021	0.000012	0.00012	0.00012	0.00063	0.0019
		July		0.06	0.000072	0.001	0.9	0.006	0.0000047	0.00021	0.00099	0.5	0.000053	0.0000098	0.84	0.017	0.0000095	0.000093	0.000094	0.00051	0.0014
		August		0.063	0.000074	0.0011	0.92	0.0062	0.0000048	0.00022	0.001	0.51	0.000055	0.00001	0.86	0.017	0.0000098	0.000097	0.000099	0.00053	0.0015
		September		0.062	0.000076	0.0011	0.94	0.0061	0.0000049	0.00021	0.001	0.53	0.000056	0.00001	0.86	0.018	0.00001	0.000099	0.000098	0.00054	0.0016
		October		0.069	0.000084	0.0012	1.0	0.0067	0.0000055	0.00023	0.0011	0.59	0.000062	0.000012	0.95	0.019	0.000011	0.00011	0.00011	0.0006	0.0017
		November		0.069	0.000084	0.0012	1.0	0.0067	0.0000055	0.00023	0.0012	0.59	0.000062	0.000012	0.95	0.019	0.000011	0.00011	0.00011	0.0006	0.0017
		December		0.069	0.000084	0.0012	1.0	0.0067	0.0000055	0.00023	0.0012	0.59	0.000063	0.000012	0.95	0.019	0.000011	0.00011	0.00011	0.0006	0.0017
		January	2035	0.069	0.000084	0.0012	1.0	0.0067	0.0000055	0.00023	0.0012	0.59	0.000063	0.000012	0.96	0.019	0.000011	0.00011	0.00011	0.0006	0.0017
		February		0.069	0.000084	0.0012	1.0	0.0067	0.0000055	0.00023	0.0012	0.59	0.000063	0.000012	0.96	0.019	0.000011	0.00011	0.00011	0.0006	0.0017
		March		0.069	0.000084	0.0012	1.0	0.0067	0.0000055	0.00023	0.0012	0.59	0.000063	0.000012	0.96	0.02	0.000011	0.00011	0.00011	0.0006	0.0017
		April		0.07	0.000084	0.0012	1.0	0.0067	0.0000055	0.00023	0.0012	0.59	0.000063	0.000012	0.96	0.02	0.000011	0.00011	0.00011	0.0006	0.0017
		May		0.07	0.000085	0.0012	1.0	0.0067	0.0000055	0.00023	0.0012	0.59	0.000063	0.000012	0.96	0.02	0.000011	0.00011	0.00011	0.0006	0.0017
		June		0.073	0.000089	0.0013	1.1	0.0069	0.0000059	0.00023	0.0012	0.62	0.000066	0.000012	1.0	0.021	0.000012	0.00012	0.00011	0.00064	0.0019
		July		0.06	0.000071	0.001	0.87	0.0054	0.0000047	0.00018	0.00098	0.49	0.000052	0.0000098	0.79	0.016	0.0000095	0.000094	0.000085	0.00051	0.0014
		August		0.063	0.000073	0.0011	0.9	0.0055	0.0000048	0.00019	0.001	0.51	0.000055	0.00001	0.81	0.017	0.0000098	0.000097	0.00009	0.00053	0.0015
		September		0.062	0.000075	0.0011	0.91	0.0054	0.000005	0.00018	0.001	0.52	0.000055	0.00001	0.81	0.017	0.00001	0.000099	0.000089	0.00054	0.0016
		October		0.069	0.000083	0.0012	1.0	0.006	0.0000055	0.0002	0.0011	0.58	0.000062	0.000012	0.9	0.019	0.000011	0.00011	0.000098	0.0006	0.0017
		November		0.069	0.000083	0.0012	1.0	0.006	0.0000055	0.0002	0.0011	0.58	0.000062	0.000012	0.9	0.019	0.000011	0.00011	0.000098	0.0006	0.0017
		December		0.069	0.000083	0.0012	1.0	0.006	0.0000055	0.0002	0.0011	0.58	0.000062	0.000012	0.9	0.019	0.000011	0.00011	0.000098	0.0006	0.0017
		January	2036	0.069	0.000083	0.0012	1.0	0.006	0.0000055	0.0002	0.0011	0.58	0.000062	0.000012	0.9	0.019	0.000011	0.00011	0.000099	0.0006	0.0017
		February		0.069	0.000083	0.0012	1.0	0.006	0.0000055	0.0002	0.0011	0.58	0.000062	0.000012	0.9	0.019	0.000011	0.00011	0.000099	0.0006	0.0017
		March		0.07	0.000083	0.0012	1.0	0.006	0.0000055	0.0002	0.0011	0.58	0.000062	0.000012	0.9	0.019	0.000011	0.00011	0.000099	0.0006	0.0017
		April		0.07	0.000084	0.0012	1.0	0.006	0.0000056	0.0002	0.0011	0.58	0.000062	0.000012	0.9	0.019	0.000011	0.00011	0.000099	0.0006	0.0017
		May		0.07	0.000084	0.0012	1.0	0.006	0.0000056	0.0002	0.0011	0.58	0.000062	0.000012	0.9	0.019	0.000011	0.00011	0.000099	0.00061	0.0017
		June		0.073	0.000088	0.0013	1.1	0.0062	0.0000059	0.0002	0.0012	0.61	0.000065	0.000012	0.94	0.02	0.000012	0.00012	0.00010	0.00064	0.0019
		July		0.06	0.00007	0.001	0.85	0.0048	0.0000047	0.00016	0.00096	0.48	0.000052	0.0000099	0.74	0.016	0.0000095	0.000094	0.000078	0.00051	0.0014
		August		0.063	0.000073	0.001	0.88	0.005	0.0000049	0.00017	0.0010	0.5	0.000054	0.00001	0.76	0.016	0.0000099	0.000097	0.000083	0.00053	0.0015
		September		0.062	0.000074	0.0011	0.9	0.0049	0.000005	0.00016	0.001	0.51	0.000055	0.00001	0.77	0.017	0.00001	0.00010	0.000082	0.00054	0.0016
		October		0.069	0.000082	0.0012	0.99	0.0054	0.0000055	0.00018	0.0011	0.57	0.000061	0.000012	0.85	0.018	0.000011	0.00011	0.000091	0.0006	0.0017
		November		0.069	0.000082	0.0012	0.99	0.0054	0.0000055	0.00018	0.0011	0.57	0.000061	0.000012	0.85	0.018	0.000011	0.00011	0.000091	0.0006	0.0017
		December		0.069	0.000082	0.0012	1.0	0.0054	0.0000055	0.00018	0.0011	0.57	0.000061	0.000012	0.85	0.018	0.000011	0.00011	0.000091	0.0006	0.0017

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1400							16		0.3	0.5		0.1					0.002		0.02		0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12				2.93	0.01	0.1		*0.025*				1.5	0.00004				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	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	*Closure, controlled discharge from pit lake*	January	2037	15	0.028	5.6	4.0	0.032	2.1	0.0091	0.011	0.0037	0.022	0.00013	0.0022	0.0058	0.000022	0.000054	0.013	0.0000061	2.8	0.00067	0.00015	0.00063
		February		15	0.028	5.6	4.0	0.032	2.1	0.0091	0.011	0.0037	0.022	0.00013	0.0022	0.0058	0.000022	0.000054	0.013	0.0000061	2.8	0.00067	0.00015	0.00063
		March		15	0.029	5.6	4.0	0.032	2.1	0.0091	0.011	0.0037	0.022	0.00013	0.0022	0.0058	0.000022	0.000054	0.013	0.0000061	2.8	0.00067	0.00015	0.00063
		April		15	0.029	5.6	4.0	0.032	2.1	0.0091	0.011	0.0037	0.022	0.00013	0.0022	0.0058	0.000022	0.000054	0.013	0.0000061	2.8	0.00067	0.00015	0.00063
		May		15	0.029	5.6	4.0	0.032	2.1	0.0091	0.011	0.0037	0.022	0.00013	0.0022	0.0058	0.000022	0.000055	0.013	0.0000061	2.8	0.00067	0.00015	0.00063
		June		16	0.026	6.0	4.2	0.034	2.2	0.0095	0.011	0.0039	0.023	0.00014	0.0022	0.0061	0.000024	0.000058	0.013	0.0000064	3.0	0.0007	0.00016	0.00067
		July		12	0.02	4.7	3.3	0.027	1.7	0.0075	0.009	0.0031	0.019	0.00011	0.0018	0.0048	0.000019	0.000046	0.011	0.0000051	2.3	0.00058	0.00013	0.00053
		August		13	0.024	4.9	3.4	0.028	1.8	0.0077	0.0092	0.0032	0.02	0.00012	0.0018	0.005	0.00002	0.000048	0.011	0.0000053	2.4	0.0006	0.00013	0.00055
		September		13	0.025	5.0	3.5	0.029	1.8	0.0078	0.0092	0.0032	0.019	0.00012	0.0018	0.0051	0.00002	0.000049	0.011	0.0000054	2.5	0.0006	0.00014	0.00056
		October		14	0.027	5.5	3.8	0.032	2.0	0.0086	0.01	0.0036	0.022	0.00013	0.002	0.0057	0.000022	0.000054	0.012	0.000006	2.7	0.00066	0.00015	0.00062
		November		14	0.027	5.6	3.8	0.032	2.0	0.0086	0.01	0.0036	0.022	0.00013	0.002	0.0057	0.000022	0.000054	0.012	0.000006	2.7	0.00067	0.00015	0.00062
		December		14	0.027	5.6	3.8	0.032	2.0	0.0086	0.01	0.0036	0.022	0.00013	0.002	0.0057	0.000022	0.000054	0.012	0.000006	2.7	0.00067	0.00015	0.00063
		January	2038	14	0.027	5.6	3.8	0.032	2.0	0.0086	0.01	0.0036	0.022	0.00013	0.002	0.0057	0.000022	0.000054	0.012	0.000006	2.7	0.00067	0.00015	0.00063
		February		14	0.027	5.6	3.8	0.032	2.0	0.0087	0.01	0.0036	0.022	0.00013	0.002	0.0057	0.000022	0.000055	0.012	0.000006	2.7	0.00067	0.00015	0.00063
		March		14	0.027	5.6	3.8	0.032	2.0	0.0087	0.01	0.0036	0.022	0.00013	0.002	0.0057	0.000022	0.000055	0.012	0.000006	2.7	0.00067	0.00015	0.00063
		April		14	0.027	5.6	3.8	0.032	2.0	0.0087	0.01	0.0036	0.022	0.00013	0.002	0.0057	0.000022	0.000055	0.012	0.000006	2.7	0.00067	0.00015	0.00063
		May		14	0.027	5.6	3.8	0.032	2.0	0.0087	0.01	0.0036	0.022	0.00013	0.002	0.0057	0.000022	0.000055	0.012	0.000006	2.7	0.00067	0.00015	0.00063
		June		15	0.025	5.9	4.1	0.034	2.1	0.0091	0.011	0.0038	0.023	0.00014	0.0021	0.006	0.000024	0.000058	0.013	0.0000063	2.9	0.0007	0.00016	0.00066
		July		12	0.019	4.7	3.2	0.027	1.7	0.0072	0.0083	0.003	0.019	0.00011	0.0017	0.0048	0.000019	0.000046	0.01	0.0000051	2.3	0.00058	0.00013	0.00053
		August		12	0.023	4.8	3.3	0.028	1.7	0.0074	0.0086	0.0031	0.02	0.00012	0.0017	0.0049	0.00002	0.000048	0.011	0.0000052	2.4	0.0006	0.00013	0.00055
		September		13	0.023	5.0	3.3	0.029	1.8	0.0074	0.0085	0.0031	0.019	0.00012	0.0017	0.005	0.00002	0.000049	0.011	0.0000053	2.4	0.0006	0.00013	0.00056
		October		14	0.025	5.5	3.7	0.032	2.0	0.0082	0.0094	0.0035	0.022	0.00013	0.0019	0.0056	0.000022	0.000054	0.012	0.0000059	2.7	0.00066	0.00015	0.00062
		November		14	0.025	5.5	3.7	0.032	2.0	0.0083	0.0094	0.0035	0.022	0.00013	0.0019	0.0056	0.000022	0.000054	0.012	0.0000059	2.7	0.00066	0.00015	0.00062
		December		14	0.025	5.5	3.7	0.032	2.0	0.0083	0.0094	0.0035	0.022	0.00013	0.0019	0.0056	0.000022	0.000055	0.012	0.0000059	2.7	0.00067	0.00015	0.00062
		January	2039	14	0.025	5.5	3.7	0.032	2.0	0.0083	0.0095	0.0035	0.022	0.00013	0.0019	0.0056	0.000022	0.000055	0.012	0.0000059	2.7	0.00067	0.00015	0.00063
		February		14	0.025	5.5	3.7	0.032	2.0	0.0083	0.0095	0.0035	0.022	0.00013	0.0019	0.0056	0.000022	0.000055	0.012	0.0000059	2.7	0.00067	0.00015	0.00063
		March		14	0.025	5.5	3.7	0.032	2.0	0.0083	0.0095	0.0035	0.022	0.00013	0.0019	0.0056	0.000022	0.000055	0.012	0.0000059	2.7	0.00067	0.00015	0.00063
		April		14	0.026	5.5	3.7	0.032	2.0	0.0083	0.0095	0.0035	0.022	0.00013	0.0019	0.0056	0.000022	0.000055	0.012	0.0000059	2.7	0.00067	0.00015	0.00063
		May		14	0.026	5.5	3.7	0.032	2.0	0.0083	0.0095	0.0035	0.022	0.00013	0.0019	0.0056	0.000022	0.000055	0.012	0.000006	2.7	0.00067	0.00015	0.00063
		June		15	0.023	5.9	3.9	0.034	2.1	0.0087	0.0099	0.0037	0.023	0.00014	0.002	0.006	0.000024	0.000058	0.013	0.0000063	2.9	0.0007	0.00016	0.00066
		July		12	0.017	4.7	3.1	0.027	1.7	0.0069	0.0078	0.0029	0.019	0.00011	0.0016	0.0047	0.000019	0.000046	0.01	0.000005	2.3	0.00058	0.00013	0.00053
		August		12	0.022	4.8	3.2	0.028	1.7	0.0071	0.008	0.003	0.02	0.00012	0.0017	0.0049	0.00002	0.000048	0.011	0.0000052	2.3	0.0006	0.00013	0.00055
		September		12	0.022	4.9	3.2	0.028	1.8	0.0072	0.008	0.003	0.019	0.00012	0.0017	0.005	0.00002	0.000049	0.011	0.0000053	2.4	0.0006	0.00013	0.00056
		October		14	0.024	5.5	3.6	0.032	2.0	0.008	0.0089	0.0034	0.022	0.00013	0.0018	0.0056	0.000022	0.000055	0.012	0.0000059	2.7	0.00066	0.00015	0.00062
		November		14	0.024	5.5	3.6	0.032	2.0	0.008	0.0089	0.0034	0.022	0.00013	0.0018	0.0056	0.000022	0.000055	0.012	0.0000059	2.7	0.00066	0.00015	0.00062
		December		14	0.024	5.5	3.6	0.032	2.0	0.008	0.0089	0.0034	0.022	0.00013	0.0018	0.0056	0.000022	0.000055	0.012	0.0000059	2.7	0.00067	0.00015	0.00062
			MINIMUM	12	0.017	4.7	3.1	0.027	1.7	0.0069	0.0078	0.0029	0.019	0.00011	0.0016	0.0047	0.000019	0.000043	0.01	0.000005	2.3	0.00058	0.00013	0.00053
			MAXIMUM	26	0.11	7.8	8.8	0.039	3.5	0.024	0.2	0.0074	0.033	0.00019	0.0058	0.0086	0.000024	0.000058	0.024	0.0000085	4.4	0.0009	0.00022	0.00073
			AVERAGE	17	0.044	6.0	5.2	0.033	2.4	0.013	0.03	0.0046	0.022	0.00014	0.0031	0.0063	0.000022	0.000052	0.015	0.0000065	3.1	0.00068	0.00016	0.00062

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.
[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)

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1.0	0.05				0.004		0.25										0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	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, controlled discharge from pit lake*	January	2037	0.069	0.000082	0.0012	1.0	0.0054	0.0000056	0.00018	0.0011	0.57	0.000061	0.000012	0.85	0.018	0.000011	0.00011	0.000091	0.0006	0.0017
		February		0.069	0.000083	0.0012	1.0	0.0054	0.0000056	0.00018	0.0011	0.57	0.000061	0.000012	0.85	0.018	0.000011	0.00011	0.000091	0.0006	0.0017
		March		0.07	0.000083	0.0012	1.0	0.0054	0.0000056	0.00018	0.0011	0.57	0.000061	0.000012	0.85	0.018	0.000011	0.00011	0.000091	0.00061	0.0017
		April		0.07	0.000083	0.0012	1.0	0.0055	0.0000056	0.00018	0.0011	0.57	0.000061	0.000012	0.86	0.019	0.000011	0.00011	0.000091	0.00061	0.0017
		May		0.07	0.000083	0.0012	1.0	0.0055	0.0000056	0.00018	0.0011	0.57	0.000061	0.000012	0.86	0.019	0.000011	0.00011	0.000091	0.00061	0.0017
		June		0.073	0.000087	0.0013	1.1	0.0056	0.0000059	0.00018	0.0012	0.6	0.000064	0.000012	0.89	0.02	0.000012	0.00012	0.000092	0.00064	0.0019
		July		0.06	0.00007	0.001	0.84	0.0044	0.0000047	0.00014	0.00095	0.47	0.000051	0.0000099	0.71	0.015	0.0000096	0.000094	0.000073	0.00051	0.0014
		August		0.063	0.000072	0.001	0.86	0.0045	0.0000049	0.00015	0.00099	0.49	0.000053	0.00001	0.73	0.016	0.0000099	0.000098	0.000077	0.00053	0.0015
		September		0.062	0.000073	0.0011	0.88	0.0045	0.000005	0.00015	0.001	0.51	0.000054	0.00001	0.73	0.016	0.00001	0.00010	0.000077	0.00054	0.0015
		October		0.069	0.000081	0.0012	0.98	0.005	0.0000055	0.00016	0.0011	0.56	0.00006	0.000012	0.81	0.018	0.000011	0.00011	0.000085	0.0006	0.0017
		November		0.069	0.000082	0.0012	0.98	0.005	0.0000056	0.00016	0.0011	0.56	0.00006	0.000012	0.81	0.018	0.000011	0.00011	0.000085	0.0006	0.0017
		December		0.069	0.000082	0.0012	0.98	0.005	0.0000056	0.00016	0.0011	0.57	0.00006	0.000012	0.81	0.018	0.000011	0.00011	0.000085	0.0006	0.0017
		January	2038	0.069	0.000082	0.0012	0.98	0.005	0.0000056	0.00016	0.0011	0.57	0.00006	0.000012	0.82	0.018	0.000011	0.00011	0.000085	0.00061	0.0017
		February		0.069	0.000082	0.0012	0.98	0.005	0.0000056	0.00016	0.0011	0.57	0.000061	0.000012	0.82	0.018	0.000011	0.00011	0.000085	0.00061	0.0017
		March		0.07	0.000082	0.0012	0.98	0.005	0.0000056	0.00016	0.0011	0.57	0.000061	0.000012	0.82	0.018	0.000011	0.00011	0.000085	0.00061	0.0017
		April		0.07	0.000082	0.0012	0.98	0.005	0.0000056	0.00016	0.0011	0.57	0.000061	0.000012	0.82	0.018	0.000011	0.00011	0.000085	0.00061	0.0017
		May		0.07	0.000082	0.0012	0.98	0.005	0.0000056	0.00016	0.0011	0.57	0.000061	0.000012	0.82	0.018	0.000011	0.00011	0.000085	0.00061	0.0017
		June		0.073	0.000087	0.0013	1.0	0.0051	0.0000059	0.00016	0.0012	0.6	0.000064	0.000012	0.86	0.019	0.000012	0.00012	0.000086	0.00064	0.0019
		July		0.06	0.000069	0.0010	0.82	0.0041	0.0000047	0.00013	0.00095	0.47	0.000051	0.0000099	0.68	0.015	0.0000096	0.000094	0.000068	0.00051	0.0014
		August		0.063	0.000071	0.001	0.85	0.0042	0.0000049	0.00013	0.00098	0.49	0.000053	0.00001	0.7	0.016	0.0000099	0.000098	0.000072	0.00053	0.0015
		September		0.062	0.000073	0.0011	0.87	0.0041	0.000005	0.00013	0.00099	0.5	0.000054	0.00001	0.71	0.016	0.00001	0.0001	0.000072	0.00054	0.0015
		October		0.069	0.000081	0.0012	0.96	0.0046	0.0000056	0.00014	0.0011	0.56	0.00006	0.000012	0.78	0.018	0.000011	0.00011	0.00008	0.0006	0.0017
		November		0.069	0.000081	0.0012	0.96	0.0046	0.0000056	0.00014	0.0011	0.56	0.00006	0.000012	0.78	0.018	0.000011	0.00011	0.00008	0.0006	0.0017
		December		0.069	0.000081	0.0012	0.96	0.0046	0.0000056	0.00014	0.0011	0.56	0.00006	0.000012	0.78	0.018	0.000011	0.00011	0.00008	0.00061	0.0017
		January	2039	0.069	0.000081	0.0012	0.97	0.0046	0.0000056	0.00014	0.0011	0.56	0.00006	0.000012	0.78	0.018	0.000011	0.00011	0.00008	0.00061	0.0017
		February		0.069	0.000081	0.0012	0.97	0.0046	0.0000056	0.00014	0.0011	0.56	0.00006	0.000012	0.79	0.018	0.000011	0.00011	0.00008	0.00061	0.0017
		March		0.07	0.000081	0.0012	0.97	0.0046	0.0000056	0.00014	0.0011	0.56	0.00006	0.000012	0.79	0.018	0.000011	0.00011	0.00008	0.00061	0.0017
		April		0.07	0.000081	0.0012	0.97	0.0046	0.0000056	0.00015	0.0011	0.56	0.00006	0.000012	0.79	0.018	0.000011	0.00011	0.00008	0.00061	0.0017
		May		0.07	0.000082	0.0012	0.97	0.0046	0.0000056	0.00015	0.0011	0.56	0.00006	0.000012	0.79	0.018	0.000011	0.00011	0.00008	0.00061	0.0017
		June		0.073	0.000086	0.0012	1.0	0.0048	0.0000059	0.00015	0.0012	0.59	0.000063	0.000012	0.83	0.019	0.000012	0.00012	0.000081	0.00064	0.0019
		July		0.06	0.000069	0.00099	0.81	0.0038	0.0000047	0.00011	0.00094	0.47	0.00005	0.0000099	0.65	0.015	0.0000096	0.000095	0.000064	0.00052	0.0014
		August		0.063	0.000071	0.001	0.84	0.0039	0.0000049	0.00012	0.00097	0.49	0.000052	0.00001	0.68	0.015	0.000010	0.000098	0.000068	0.00053	0.0015
		September		0.062	0.000072	0.001	0.86	0.0039	0.000005	0.00012	0.00099	0.5	0.000053	0.00001	0.68	0.016	0.00001	0.0001	0.000068	0.00054	0.0015
		October		0.069	0.000081	0.0012	0.95	0.0043	0.0000056	0.00013	0.0011	0.56	0.000059	0.000012	0.76	0.017	0.000011	0.00011	0.000076	0.00061	0.0017
		November		0.069	0.000081	0.0012	0.95	0.0043	0.0000056	0.00013	0.0011	0.56	0.000059	0.000012	0.76	0.017	0.000011	0.00011	0.000076	0.00061	0.0017
		December		0.069	0.000081	0.0012	0.95	0.0043	0.0000056	0.00013	0.0011	0.56	0.00006	0.000012	0.76	0.017	0.000011	0.00011	0.000076	0.00061	0.0017
			MINIMUM	0.06	0.000069	0.00099	0.81	0.0038	0.0000045	0.00011	0.00094	0.47	0.00005	0.0000096	0.65	0.015	0.0000091	0.000089	0.000064	0.0005	0.0014
			MAXIMUM	0.086	0.00012	0.0015	1.6	0.018	0.0000059	0.00068	0.0017	0.81	0.000085	0.000013	2.0	0.031	0.000012	0.00012	0.00024	0.00064	0.0025
			AVERAGE	0.069	0.000087	0.0012	1.1	0.0089	0.0000053	0.00032	0.0012	0.61	0.000065	0.000011	1.1	0.021	0.000011	0.00011	0.00013	0.00058	0.0018

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.
[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)

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12			2.93	0.01	0.1		*0.025*				1.5	0.00004				0.002
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	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
Whale Tail Lake (South Basin)	*Construction and Operations*	January	2018	16	0	6.9	4.0	0.04	2.1	0.0093	0.0078	0.0036	0.017	0.00015	0.00026	0.0063	0.00003	0.000076	0.015	0.0000076	3.2	0.00017	0.00015	0.00077
		February		16	0	6.9	4.0	0.04	2.1	0.0093	0.0078	0.0036	0.017	0.00015	0.00026	0.0063	0.00003	0.000076	0.015	0.0000076	3.2	0.00017	0.00015	0.00077
		March		16	0	6.9	4.0	0.04	2.1	0.0093	0.0078	0.0036	0.017	0.00015	0.00026	0.0063	0.00003	0.000076	0.015	0.0000076	3.2	0.00017	0.00015	0.00077
		April		16	0	6.9	4.0	0.04	2.1	0.0093	0.0078	0.0036	0.017	0.00015	0.00026	0.0063	0.00003	0.000076	0.015	0.0000076	3.2	0.00017	0.00015	0.00077
		May		16	0	6.9	4.0	0.04	2.1	0.0093	0.0078	0.0036	0.017	0.00015	0.00026	0.0063	0.00003	0.000076	0.015	0.0000076	3.2	0.00017	0.00015	0.00077
		June		11	0	4.7	2.7	0.027	1.4	0.0063	0.0053	0.0025	0.011	0.0001	0.00018	0.0043	0.000021	0.000052	0.01	0.0000052	2.2	0.00011	0.0001	0.00052
		July		9.2	0	4.0	2.3	0.023	1.2	0.0053	0.0045	0.0021	0.0097	0.000087	0.00015	0.0036	0.000017	0.000044	0.0087	0.0000044	1.8	0.000096	0.000087	0.00044
		August		9.4	0	4.1	2.3	0.023	1.2	0.0055	0.0046	0.0021	0.0099	0.000089	0.00015	0.0037	0.000018	0.000045	0.0089	0.0000045	1.9	0.000098	0.000089	0.00045
		September		9.6	0	4.1	2.4	0.024	1.2	0.0056	0.0047	0.0022	0.01	0.000091	0.00016	0.0038	0.000018	0.000046	0.0091	0.0000046	1.9	0.00010	0.000091	0.00046
		October		14	0	6.1	3.5	0.035	1.8	0.0082	0.0069	0.0032	0.015	0.00013	0.00023	0.0055	0.000027	0.000067	0.013	0.0000067	2.8	0.00015	0.00013	0.00068
		November		14	0	6.1	3.5	0.035	1.8	0.0082	0.0069	0.0032	0.015	0.00013	0.00023	0.0055	0.000027	0.000067	0.013	0.0000067	2.8	0.00015	0.00013	0.00068
		December		14	0	6.1	3.5	0.035	1.8	0.0082	0.0069	0.0032	0.015	0.00013	0.00023	0.0055	0.000027	0.000067	0.013	0.0000067	2.8	0.00015	0.00013	0.00068
		January	2019	14	0	6.1	3.5	0.035	1.8	0.0082	0.0069	0.0032	0.015	0.00013	0.00023	0.0055	0.000027	0.000067	0.013	0.0000067	2.8	0.00015	0.00013	0.00068
		February		14	0	6.1	3.5	0.035	1.8	0.0082	0.0069	0.0032	0.015	0.00013	0.00023	0.0055	0.000027	0.000067	0.013	0.0000067	2.8	0.00015	0.00013	0.00068
		March		14	0.000092	6.0	3.4	0.035	1.8	0.008	0.0093	0.0041	0.039	0.00013	0.00054	0.0057	0.000027	0.000066	0.013	0.0000067	2.8	0.0008	0.00017	0.0007
		April		13	0.00027	5.7	3.3	0.034	1.7	0.0076	0.014	0.0059	0.085	0.00013	0.0011	0.0059	0.000026	0.000063	0.012	0.0000067	2.7	0.0021	0.00024	0.00075
		May		13	0.00033	5.6	3.2	0.033	1.7	0.0075	0.016	0.0065	0.10	0.00013	0.0013	0.0059	0.000026	0.000062	0.012	0.0000066	2.6	0.0025	0.00026	0.00077
		June		11	0.00029	4.7	2.7	0.028	1.4	0.0063	0.014	0.0057	0.087	0.00011	0.0012	0.005	0.000022	0.000052	0.01	0.0000056	2.2	0.0022	0.00023	0.00065
		July		10	0.00024	4.2	2.7	0.025	1.3	0.0059	0.012	0.0048	0.067	0.000094	0.0009	0.0044	0.000019	0.000046	0.0096	0.000005	2.0	0.0017	0.00018	0.00056
		August		11	0.00025	4.4	3.0	0.025	1.4	0.0063	0.012	0.0049	0.064	0.000095	0.00086	0.0046	0.00002	0.000046	0.01	0.0000051	2.1	0.0016	0.00018	0.00056
		September		11	0.00023	4.4	2.9	0.025	1.4	0.0063	0.011	0.0047	0.06	0.000095	0.00082	0.0046	0.00002	0.000046	0.01	0.0000051	2.1	0.0015	0.00018	0.00056
		October		27	0.00045	9.8	8.2	0.054	3.2	0.017	0.027	**0.011**	**0.12**	0.00019	0.0016	0.01	0.00004	0.000094	0.025	0.000011	4.9	0.0028	0.00036	0.0011
		November		43	0.00044	13	16	0.065	4.6	0.031	0.039	**0.015**	**0.12**	0.0002	0.0017	0.014	0.000042	0.000094	0.039	0.000015	7.1	0.0029	0.00042	0.0012
		December		66	0.00042	17	28	0.079	6.6	0.046	0.048	**0.019**	**0.13**	0.0002	0.002	0.019	0.000045	0.000094	0.059	0.00002	10	0.0033	0.00051	0.0014
		January	2020	81	0.00041	20	35	0.088	7.8	0.055	0.052	**0.021**	**0.14**	0.0002	0.0022	0.023	0.000047	0.000095	0.072	0.000023	12	0.0036	0.00057	0.0015
		February		85	0.0004	20	37	0.091	8.2	0.057	0.055	**0.022**	**0.15**	0.0002	0.0023	0.024	0.000048	0.000095	0.075	0.000024	13	0.0039	0.00059	0.0015
		March		89	0.0004	21	39	0.093	8.5	0.059	0.057	**0.024**	**0.16**	0.00021	0.0025	0.025	0.000048	0.000095	0.078	0.000025	13	0.0041	0.00062	0.0016
		April		92	0.0004	22	40	0.096	8.8	0.062	0.061	**0.026**	**0.16**	0.00021	0.0026	0.026	0.000049	0.000095	0.081	0.000026	14	0.0043	0.00064	0.0016
		May		96	0.00039	22	42	0.098	9.1	0.066	0.068	**0.027**	**0.17**	0.00021	0.0026	0.027	0.00005	0.000095	0.084	0.000027	14	0.0044	0.00066	0.0016
		June		63	0.00035	15	28	0.065	6.0	0.045	0.048	**0.018**	**0.11**	0.00014	0.0018	0.018	0.000033	0.000063	0.056	0.000018	9.4	0.0028	0.00043	0.0011
		July		41	0.0004	9.8	18	0.043	3.9	0.031	0.034	**0.012**	0.068	0.000094	0.0012	0.012	0.000022	0.000043	0.037	0.000012	6.2	0.0018	0.00028	0.00072
		August		41	0.00049	9.9	18	0.044	4.0	0.032	0.037	**0.012**	0.066	0.000097	0.0011	0.012	0.000023	0.000044	0.037	0.000012	6.2	0.0017	0.00028	0.00073
		September		41	0.00061	9.8	18	0.044	3.9	0.033	0.039	**0.012**	0.064	0.000098	0.0011	0.011	0.000023	0.000045	0.036	0.000012	6.1	0.0017	0.00028	0.00073
		October		79	0.0013	19	34	0.085	7.6	0.066	0.081	**0.023**	**0.12**	0.00019	0.0021	0.022	0.000044	0.000088	0.07	0.000022	12	0.0031	0.00053	0.0014
		November		81	0.0013	19	35	0.086	7.8	0.069	0.088	**0.024**	**0.12**	0.00019	0.0021	0.023	0.000044	0.000088	0.072	0.000023	12	0.0031	0.00054	0.0014
		December		83	0.0013	20	36	0.087	7.9	0.073	0.095	**0.024**	**0.12**	0.00019	0.0021	0.023	0.000044	0.000088	0.073	0.000023	12	0.0031	0.00054	0.0014
		January	2021	84	0.0013	20	36	0.087	8.0	0.077	0.1	**0.025**	**0.12**	0.00019	0.0021	0.023	0.000045	0.000088	0.074	0.000023	12	0.0031	0.00054	0.0014
		February		84	0.0013	20	36	0.088	8.0	0.079	0.11	**0.025**	**0.12**	0.00019	0.0021	0.023	0.000045	0.000088	0.074	0.000023	12	0.0031	0.00054	0.0014
		March		84	0.0013	20	36	0.088	8.0	0.082	0.11	**0.025**	**0.12**	0.00019	0.0021	0.023	0.000045	0.000088	0.074	0.000023	13	0.0031	0.00054	0.0014
		April		84	0.0013	20	37	0.088	8.0	0.085	0.12	**0.025**	**0.12**	0.00019	0.0021	0.023	0.000045	0.000088	0.074	0.000023	13	0.0031	0.00054	0.0014
		May		84	0.0013	20	37	0.088	8.0	0.088	0.13	**0.025**	**0.12**	0.00019	0.0021	0.023	0.000045	0.000088	0.075	0.000024	13	0.0031	0.00054	0.0014
		June		55	0.001	13	24	0.058	5.3	0.059	0.086	**0.016**	0.078	0.00013	0.0014	0.015	0.00003	0.00006	0.049	0.000015	8.2	0.002	0.00036	0.00096
		July		36	0.00087	8.8	15	0.04	3.5	0.039	0.059	**0.011**	0.05	0.000092	0.00088	0.01	0.000021	0.000043	0.032	0.00001	5.4	0.0013	0.00024	0.00066
		August		36	0.00096	8.8	15	0.04	3.5	0.04	0.061	**0.01**	0.049	0.000094	0.00086	0.01	0.000021	0.000044	0.032	0.00001	5.4	0.0012	0.00023	0.00066
		September		35	0.0011	8.6	15	0.04	3.4	0.04	0.062	**0.01**	0.047	0.000095	0.00083	0.0098	0.000021	0.000044	0.031	0.00001	5.3	0.0012	0.00023	0.00066
		October		66	0.0022	17	28	0.076	6.5	0.079	0.12	**0.019**	0.09	0.00018	0.0016	0.019	0.000041	0.000086	0.059	0.000019	10	0.0023	0.00044	0.0013
		November		66	0.0022	17	28	0.076	6.5	0.081	0.13	**0.019**	0.09	0.00018	0.0016	0.019	0.000041	0.000086	0.059	0.000019	10	0.0023	0.00044	0.0013
		December		67	0.0022	17	28	0.076	6.5	0.084	0.14	**0.019**	0.09	0.00018	0.0016	0.019	0.000041	0.000086	0.059	0.000019	10	0.0023	0.00044	0.0013
		January	2022	67	0.0022	17	28	0.076	6.5	0.087	0.14	**0.019**	0.09	0.00018	0.0016	0.019	0.000041	0.000086	0.059	0.000019	10	0.0023	0.00044	0.0013
		February		67	0.0022	17	28	0.076	6.5	0.09	0.15	**0.02**	0.09	0.00018	0.0016	0.019	0.000041	0.000086	0.059	0.000019	10	0.0023	0.00044	0.0013
		March		67	0.0022	17	28	0.076	6.5	0.093	0.16	**0.02**	0.09	0.00018	0.0016	0.019	0.000041	0.000086	0.059	0.000019	10	0.0023	0.00044	0.0013
		April		67	0.0022	17	28	0.076	6.5	0.096	0.16	**0.02**	0.09	0.00018	0.0016	0.019	0.000041	0.000086	0.059	0.000019	10	0.0023	0.00044	0.0013
		May		67	0.0022	17	28	0.076	6.5	0.099	0.17	**0.02**	0.09	0.00018	0.0016	0.019	0.000041	0.000086	0.059	0.000019	10	0.0023	0.00044	0.0013
		June		44	0.0016	11	18	0.051	4.3	0.066	0.11	**0.013**	0.058	0.00013	0.001	0.013	0.000028	0.000059	0.039	0.000013	6.7	0.0015	0.00029	0.00086
		July		29	0.0013	7.5	12	0.035	2.9	0.044	0.075	0.0084	0.038	0.000089	0.00067	0.0083	0.00002	0.000042	0.026	0.0000087	4.4	0.00094	0.00019	0.00059
			MINIMUM	9.2	0.000092	4.0	2.3	0.023	1.2	0.0053	0.0045	0.0021	0.0097	0.000087	0.00015	0.0036	0.000017	0.000042	0.0087	0.0000044	1.8	0.000096	0.000087	0.00044
			MAXIMUM	96	0.0022	22	42	0.098	9.1	0.099	0.17	**0.027**	**0.17**	0.00021	0.0026	0.027	0.00005	0.000095	0.084	0.000027	14	0.0044	0.00066	0.0016
			AVERAGE	45	0.001	12	18	0.056	4.5	0.042	0.058	**0.013**	0.075	0.00015	0.0012	0.013	0.000033	0.000071	0.04	0.000014	7.0	0.0019	0.00033	0.00099

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1.0	0.05				0.004		0.25										0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	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
Whale Tail Lake (South Basin)	*Construction and Operations*	January	2018	0.035	0.00011	0.0015	1.1	0.0044	0.0000076	0.000089	0.001	0.62	0.000076	0.000015	0.83	0.022	0.000015	0.00015	0.000056	0.00076	0.0046
		February		0.035	0.00011	0.0015	1.1	0.0044	0.0000076	0.000089	0.001	0.62	0.000076	0.000015	0.83	0.022	0.000015	0.00015	0.000056	0.00076	0.0046
		March		0.035	0.00011	0.0015	1.1	0.0044	0.0000076	0.000089	0.001	0.62	0.000076	0.000015	0.83	0.022	0.000015	0.00015	0.000056	0.00076	0.0046
		April		0.035	0.00011	0.0015	1.1	0.0044	0.0000076	0.000089	0.001	0.62	0.000076	0.000015	0.83	0.022	0.000015	0.00015	0.000056	0.00076	0.0046
		May		0.035	0.00011	0.0015	1.1	0.0044	0.0000076	0.000089	0.001	0.62	0.000076	0.000015	0.83	0.022	0.000015	0.00015	0.000056	0.00076	0.0046
		June		0.024	0.000073	0.001	0.74	0.003	0.0000052	0.000061	0.0007	0.42	0.000052	0.00001	0.57	0.015	0.00001	0.0001	0.000038	0.00052	0.0031
		July		0.02	0.000061	0.00088	0.63	0.0025	0.0000044	0.000051	0.00059	0.35	0.000044	0.0000087	0.48	0.012	0.0000087	0.000087	0.000032	0.00044	0.0026
		August		0.02	0.000063	0.0009	0.64	0.0026	0.0000045	0.000052	0.0006	0.36	0.000045	0.0000089	0.49	0.013	0.0000089	0.000089	0.000033	0.00045	0.0027
		September		0.021	0.000064	0.00092	0.65	0.0027	0.0000046	0.000054	0.00062	0.37	0.000046	0.0000091	0.5	0.013	0.0000091	0.000091	0.000033	0.00046	0.0027
		October		0.031	0.000094	0.0014	0.96	0.0039	0.0000067	0.000079	0.00091	0.54	0.000067	0.000013	0.73	0.019	0.000013	0.00013	0.000049	0.00067	0.004
		November		0.031	0.000094	0.0014	0.96	0.0039	0.0000067	0.000079	0.00091	0.54	0.000067	0.000013	0.73	0.019	0.000013	0.00013	0.000049	0.00067	0.004
		December		0.031	0.000094	0.0014	0.96	0.0039	0.0000067	0.000079	0.00091	0.54	0.000067	0.000013	0.73	0.019	0.000013	0.00013	0.000049	0.00067	0.004
		January	2019	0.031	0.000094	0.0014	0.96	0.0039	0.0000067	0.000079	0.00091	0.54	0.000067	0.000013	0.73	0.019	0.000013	0.00013	0.000049	0.00067	0.004
		February		0.031	0.000094	0.0014	0.96	0.0039	0.0000067	0.000079	0.00091	0.54	0.000067	0.000013	0.73	0.019	0.000013	0.00013	0.000049	0.00067	0.004
		March		0.082	0.0001	0.0013	0.97	0.0046	0.0000066	0.000078	0.0012	0.54	0.000066	0.000014	0.72	0.019	0.000014	0.00013	0.00005	0.00072	0.0039
		April		0.18	0.00012	0.0013	1.0	0.006	0.0000063	0.000076	0.0018	0.54	0.000064	0.000015	0.69	0.018	0.000014	0.00013	0.000051	0.00081	0.0035
		May		0.22	0.00012	0.0013	1.0	0.0064	0.0000062	0.000076	0.0019	0.54	0.000063	0.000015	0.68	0.018	0.000014	0.00013	0.000052	0.00084	0.0034
		June		0.19	0.0001	0.0011	0.85	0.0055	0.0000052	0.000064	0.0017	0.46	0.000053	0.000013	0.58	0.015	0.000012	0.00011	0.000044	0.00072	0.0029
		July		0.14	0.000087	0.00098	0.76	0.0049	0.0000045	0.000088	0.0013	0.4	0.000047	0.000011	0.57	0.014	0.00001	0.000091	0.000047	0.0006	0.0025
		August		0.14	0.000087	0.001	0.8	0.0051	0.0000046	0.00012	0.0013	0.41	0.000048	0.000011	0.63	0.015	0.00001	0.000093	0.000055	0.0006	0.0026
		September		0.13	0.000086	0.001	0.79	0.005	0.0000046	0.00011	0.0013	0.41	0.000048	0.000011	0.63	0.015	0.00001	0.000093	0.000054	0.00059	0.0026
		October		0.25	0.00018	0.0022	1.9	0.013	0.0000093	0.00047	0.0026	0.88	0.0001	0.000022	1.8	0.035	0.00002	0.00019	0.00018	0.0012	0.0053
		November		0.26	0.00021	0.0027	2.8	0.023	0.0000091	0.0013	0.0027	1.1	0.00012	0.000022	3.6	0.054	0.00002	0.00018	0.00043	0.0012	0.0055
		December		0.28	0.00026	0.0034	4.1	0.038	0.0000089	0.0025	0.0031	1.3	0.00015	0.000023	6.0	0.081	0.00002	0.00018	0.00078	0.0012	0.0058
		January	2020	0.3	0.00028	0.0038	4.9	0.047	0.0000088	0.0033	0.0033	1.5	0.00017	0.000024	7.6	0.098	0.00002	0.00018	0.0010	0.0012	0.006
		February		0.32	0.00029	0.004	5.2	0.05	0.0000087	0.0035	0.0035	1.5	0.00018	0.000024	8.0	0.1	0.00002	0.00018	0.0011	0.0012	0.006
		March		0.34	0.0003	0.0041	5.4	0.052	0.0000087	0.0037	0.0036	1.6	0.00018	0.000024	8.4	0.11	0.00002	0.00018	0.0011	0.0012	0.006
		April		0.35	0.00031	0.0042	5.6	0.055	0.0000087	0.0039	0.0037	1.6	0.00019	0.000025	8.8	0.11	0.00002	0.00018	0.0012	0.0013	0.006
		May		0.36	0.00032	0.0043	5.8	0.057	0.0000087	0.004	0.0038	1.7	0.00019	0.000025	9.2	0.12	0.00002	0.00018	0.0012	0.0013	0.006
		June		0.23	0.00021	0.0029	3.8	0.038	0.0000058	0.0027	0.0025	1.1	0.00013	0.000016	6.1	0.076	0.000013	0.00012	0.00081	0.00083	0.004
		July		0.15	0.00014	0.0019	2.5	0.025	0.000004	0.0017	0.0017	0.73	0.000085	0.000011	3.9	0.05	0.000009	0.000081	0.00052	0.00056	0.0027
		August		0.15	0.00014	0.0019	2.5	0.025	0.0000041	0.0017	0.0016	0.73	0.000086	0.000011	3.9	0.05	0.0000092	0.000083	0.00052	0.00056	0.0028
		September		0.14	0.00014	0.0019	2.5	0.025	0.0000042	0.0017	0.0016	0.73	0.000086	0.000011	3.9	0.049	0.0000093	0.000085	0.00051	0.00056	0.0028
		October		0.26	0.00027	0.0037	4.8	0.048	0.0000081	0.0032	0.0031	1.4	0.00017	0.000022	7.5	0.096	0.000018	0.00016	0.00099	0.0011	0.0055
		November		0.26	0.00027	0.0037	4.9	0.049	0.0000081	0.0033	0.0031	1.4	0.00017	0.000022	7.7	0.098	0.000018	0.00016	0.001	0.0011	0.0055
		December		0.26	0.00027	0.0038	5.0	0.05	0.0000081	0.0034	0.0031	1.5	0.00017	0.000022	7.9	0.099	0.000018	0.00016	0.001	0.0011	0.0055
		January	2021	0.26	0.00028	0.0038	5.0	0.05	0.0000081	0.0035	0.0031	1.5	0.00017	0.000022	8.0	0.1	0.000018	0.00016	0.0011	0.0011	0.0055
		February		0.26	0.00028	0.0038	5.1	0.05	0.0000081	0.0035	0.0031	1.5	0.00017	0.000022	8.0	0.1	0.000018	0.00016	0.0011	0.0011	0.0056
		March		0.26	0.00028	0.0038	5.1	0.05	0.0000081	0.0035	0.0031	1.5	0.00017	0.000022	8.0	0.1	0.000018	0.00016	0.0011	0.0011	0.0056
		April		0.26	0.00028	0.0038	5.1	0.051	0.0000081	0.0035	0.0031	1.5	0.00017	0.000022	8.0	0.1	0.000018	0.00016	0.0011	0.0011	0.0056
		May		0.26	0.00028	0.0038	5.1	0.051	0.0000081	0.0035	0.0031	1.5	0.00017	0.000022	8.0	0.1	0.000018	0.00016	0.0011	0.0011	0.0056
		June		0.17	0.00018	0.0025	3.3	0.033	0.0000055	0.0023	0.0021	0.98	0.00011	0.000015	5.2	0.066	0.000012	0.00011	0.00069	0.00073	0.0038
		July		0.11	0.00012	0.0017	2.2	0.021	0.000004	0.0014	0.0014	0.66	0.000078	0.00001	3.4	0.044	0.0000087	0.000081	0.00044	0.00051	0.0027
		August		0.11	0.00012	0.0017	2.2	0.021	0.0000041	0.0014	0.0014	0.66	0.000078	0.00001	3.3	0.043	0.0000089	0.000083	0.00043	0.00052	0.0027
		September		0.1	0.00012	0.0017	2.1	0.02	0.0000042	0.0014	0.0013	0.65	0.000077	0.00001	3.2	0.042	0.000009	0.000084	0.00042	0.00052	0.0027
		October		0.2	0.00023	0.0032	4.0	0.038	0.0000081	0.0026	0.0026	1.3	0.00015	0.00002	6.1	0.08	0.000017	0.00016	0.00079	0.001	0.0053
		November		0.2	0.00023	0.0032	4.0	0.038	0.0000081	0.0026	0.0026	1.3	0.00015	0.00002	6.1	0.08	0.000017	0.00016	0.00079	0.001	0.0053
		December		0.2	0.00023	0.0032	4.0	0.038	0.0000081	0.0026	0.0026	1.3	0.00015	0.00002	6.1	0.08	0.000017	0.00016	0.00079	0.001	0.0053
		January	2022	0.2	0.00023	0.0033	4.0	0.038	0.0000081	0.0026	0.0026	1.3	0.00015	0.00002	6.1	0.08	0.000017	0.00016	0.0008	0.001	0.0053
		February		0.2	0.00023	0.0033	4.0	0.038	0.0000081	0.0026	0.0026	1.3	0.00015	0.00002	6.1	0.081	0.000017	0.00016	0.0008	0.001	0.0053
		March		0.2	0.00023	0.0033	4.1	0.038	0.0000081	0.0026	0.0026	1.3	0.00015	0.00002	6.2	0.081	0.000017	0.00016	0.0008	0.001	0.0053
		April		0.2	0.00023	0.0033	4.1	0.038	0.0000081	0.0026	0.0026	1.3	0.00015	0.00002	6.2	0.081	0.000017	0.00016	0.0008	0.001	0.0053
		May		0.2	0.00023	0.0033	4.1	0.039	0.0000081	0.0026	0.0026	1.3	0.00015	0.00002	6.2	0.081	0.000017	0.00016	0.0008	0.001	0.0053
		June		0.13	0.00016	0.0022	2.7	0.025	0.0000056	0.0017	0.0017	0.84	0.000099	0.000014	4.0	0.053	0.000012	0.00011	0.00052	0.00068	0.0036
		July		0.084	0.00011	0.0015	1.8	0.016	0.000004	0.0011	0.0011	0.57	0.000068	0.0000096	2.6	0.035	0.0000085	0.000081	0.00033	0.00048	0.0026
			MINIMUM	0.02	0.000061	0.00088	0.63	0.0025	0.000004	0.000051	0.00059	0.35	0.000044	0.0000087	0.48	0.012	0.0000085	0.000081	0.000032	0.00044	0.0025
			MAXIMUM	0.36	0.00032	0.0043	5.8	0.057	0.0000093	0.004	0.0038	1.7	0.00019	0.000025	9.2	0.12	0.00002	0.00019	0.0012	0.0013	0.006
			AVERAGE	0.16	0.00018	0.0024	2.8	0.025	0.0000068	0.0016	0.002	0.93	0.00011	0.000017	4.0	0.055	0.000015	0.00014	0.00051	0.00084	0.0044

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1400							16		0.3	0.5		0.1					0.002		0.02		0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12				2.93	0.01	0.1		*0.025*				1.5	0.00004				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	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
Whale Tail Lake (South Basin)	*Closure, no mine contact water discharge*	August	2022	29	0.0013	7.5	12	0.035	2.8	0.043	0.074	0.0082	0.037	0.000091	0.00066	0.0083	0.00002	0.000043	0.025	0.0000086	4.4	0.00091	0.00019	0.0006
		September		28	0.0014	7.4	11	0.035	2.8	0.041	0.07	0.008	0.036	0.000092	0.00064	0.0081	0.00002	0.000044	0.025	0.0000085	4.3	0.00087	0.00019	0.0006
		October		49	0.0025	13	20	0.062	4.9	0.071	0.12	**0.014**	0.063	0.00017	0.0011	0.014	0.000036	0.000079	0.043	0.000015	7.6	0.0015	0.00033	0.0011
		November		49	0.0025	13	20	0.062	4.9	0.071	0.12	**0.014**	0.063	0.00017	0.0011	0.014	0.000036	0.000079	0.043	0.000015	7.6	0.0015	0.00033	0.0011
		December		49	0.0025	13	20	0.062	4.9	0.071	0.12	**0.014**	0.063	0.00017	0.0011	0.014	0.000036	0.000079	0.043	0.000015	7.6	0.0015	0.00033	0.0011
		January	2023	49	0.0025	13	20	0.062	4.9	0.071	0.12	**0.014**	0.063	0.00017	0.0011	0.014	0.000036	0.000079	0.043	0.000015	7.6	0.0015	0.00033	0.0011
		February		49	0.0025	13	20	0.062	4.9	0.071	0.12	**0.014**	0.063	0.00017	0.0011	0.014	0.000036	0.000079	0.043	0.000015	7.6	0.0015	0.00033	0.0011
		March		49	0.0025	13	20	0.062	4.9	0.071	0.12	**0.014**	0.063	0.00017	0.0011	0.014	0.000036	0.000079	0.043	0.000015	7.6	0.0015	0.00033	0.0011
		April		49	0.0025	13	20	0.062	4.9	0.071	0.12	**0.014**	0.063	0.00017	0.0011	0.014	0.000036	0.000079	0.043	0.000015	7.6	0.0015	0.00033	0.0011
		May		49	0.0025	13	20	0.062	4.9	0.071	0.12	**0.014**	0.063	0.00017	0.0011	0.014	0.000036	0.000079	0.043	0.000015	7.6	0.0015	0.00033	0.0011
		June		33	0.0018	8.9	13	0.043	3.3	0.047	0.081	0.0093	0.042	0.00012	0.00075	0.0098	0.000025	0.000056	0.029	0.00001	5.2	0.001	0.00023	0.00075
		July		23	0.0013	6.3	8.8	0.031	2.3	0.032	0.053	0.0064	0.029	0.000087	0.00051	0.0068	0.000019	0.000042	0.02	0.0000072	3.6	0.00067	0.00016	0.00054
		August		22	0.0012	6.3	8.6	0.031	2.3	0.031	0.051	0.0062	0.028	0.00009	0.0005	0.0068	0.000019	0.000043	0.02	0.0000073	3.6	0.00065	0.00016	0.00055
		September		22	0.0012	6.3	8.3	0.031	2.3	0.029	0.049	0.006	0.027	0.000092	0.00048	0.0067	0.000019	0.000044	0.019	0.0000072	3.5	0.00062	0.00016	0.00056
		October		33	0.0018	9.7	12	0.048	3.5	0.044	0.073	0.0091	0.041	0.00014	0.00072	0.01	0.00003	0.000069	0.03	0.000011	5.3	0.00093	0.00024	0.00087
		November		33	0.0018	9.7	12	0.048	3.5	0.044	0.073	0.0091	0.041	0.00014	0.00072	0.01	0.00003	0.000069	0.03	0.000011	5.3	0.00093	0.00024	0.00087
		December		33	0.0018	9.7	12	0.048	3.5	0.044	0.073	0.0091	0.041	0.00014	0.00072	0.01	0.00003	0.000069	0.03	0.000011	5.3	0.00093	0.00024	0.00087
		January	2024	33	0.0018	9.7	12	0.048	3.5	0.044	0.073	0.0091	0.041	0.00014	0.00072	0.01	0.00003	0.000069	0.03	0.000011	5.3	0.00093	0.00024	0.00087
		February		33	0.0018	9.7	12	0.048	3.5	0.044	0.073	0.0091	0.041	0.00014	0.00072	0.01	0.00003	0.000069	0.03	0.000011	5.3	0.00093	0.00024	0.00087
		March		33	0.0018	9.7	12	0.048	3.5	0.044	0.073	0.0091	0.041	0.00014	0.00072	0.01	0.00003	0.000069	0.03	0.000011	5.3	0.00093	0.00024	0.00087
		April		33	0.0018	9.7	12	0.048	3.5	0.044	0.073	0.0091	0.041	0.00014	0.00072	0.01	0.00003	0.000069	0.03	0.000011	5.3	0.00093	0.00024	0.00087
		May		33	0.0018	9.7	12	0.048	3.5	0.044	0.073	0.0091	0.041	0.00014	0.00072	0.01	0.00003	0.000069	0.03	0.000011	5.3	0.00093	0.00024	0.00087
		June		24	0.0013	7.1	8.8	0.036	2.5	0.031	0.05	0.0065	0.029	0.00011	0.00051	0.0075	0.000023	0.000053	0.021	0.0000081	3.9	0.00065	0.00017	0.00065
		July		17	0.00089	5.4	6.3	0.028	1.9	0.021	0.034	0.0047	0.021	0.000088	0.00037	0.0056	0.000018	0.000043	0.016	0.0000061	2.9	0.00045	0.00013	0.00051
		August		17	0.00083	5.4	6.1	0.028	1.9	0.02	0.032	0.0046	0.02	0.00009	0.00036	0.0056	0.000019	0.000044	0.016	0.0000061	2.9	0.00043	0.00013	0.00052
		September		17	0.00077	5.4	5.8	0.028	1.8	0.019	0.03	0.0044	0.02	0.000092	0.00034	0.0055	0.000019	0.000045	0.015	0.0000061	2.8	0.0004	0.00013	0.00052
		October		24	0.0011	7.8	8.2	0.041	2.6	0.027	0.042	0.0062	0.028	0.00013	0.00049	0.0079	0.000028	0.000066	0.022	0.0000088	4.1	0.00056	0.00019	0.00076
		November		24	0.0011	7.8	8.2	0.041	2.6	0.027	0.042	0.0062	0.028	0.00013	0.00049	0.0079	0.000028	0.000066	0.022	0.0000088	4.1	0.00056	0.00019	0.00076
		December		24	0.0011	7.8	8.2	0.041	2.6	0.027	0.042	0.0062	0.028	0.00013	0.00049	0.0079	0.000028	0.000066	0.022	0.0000088	4.1	0.00056	0.00019	0.00076
		January	2025	24	0.0011	7.8	8.2	0.041	2.6	0.027	0.042	0.0062	0.028	0.00013	0.00049	0.0079	0.000028	0.000066	0.022	0.0000088	4.1	0.00056	0.00019	0.00076
		February		24	0.0011	7.8	8.2	0.041	2.6	0.027	0.042	0.0062	0.028	0.00013	0.00049	0.0079	0.000028	0.000066	0.022	0.0000088	4.1	0.00056	0.00019	0.00076
		March		24	0.0011	7.8	8.2	0.041	2.6	0.027	0.042	0.0062	0.028	0.00013	0.00049	0.0079	0.000028	0.000066	0.022	0.0000088	4.1	0.00056	0.00019	0.00076
		April		24	0.0011	7.8	8.2	0.041	2.6	0.027	0.042	0.0062	0.028	0.00013	0.00049	0.0079	0.000028	0.000066	0.022	0.0000088	4.1	0.00056	0.00019	0.00076
		May		24	0.0011	7.8	8.2	0.041	2.6	0.027	0.042	0.0062	0.028	0.00013	0.00049	0.0079	0.000028	0.000066	0.022	0.0000088	4.1	0.00056	0.00019	0.00076
		June		18	0.00071	6.0	5.9	0.032	2.0	0.019	0.029	0.0046	0.02	0.00011	0.00035	0.006	0.000022	0.000053	0.016	0.0000067	3.1	0.00039	0.00014	0.0006
		July		14	0.00048	4.8	4.4	0.026	1.6	0.014	0.02	0.0034	0.015	0.00009	0.00026	0.0047	0.000018	0.000044	0.013	0.0000054	2.4	0.00028	0.00011	0.0005
		August		13	0.00043	4.8	4.2	0.027	1.6	0.013	0.018	0.0034	0.015	0.000092	0.00026	0.0047	0.000019	0.000045	0.012	0.0000054	2.4	0.00026	0.00011	0.0005
		September		13	0.00037	4.8	4.0	0.027	1.5	0.012	0.016	0.0032	0.014	0.000093	0.00024	0.0046	0.000019	0.000046	0.012	0.0000053	2.4	0.00024	0.00011	0.00051
		October		19	0.0005	7.0	5.7	0.039	2.2	0.017	0.023	0.0046	0.02	0.00014	0.00035	0.0067	0.000028	0.000068	0.017	0.0000078	3.4	0.00034	0.00016	0.00074
		November		19	0.0005	7.0	5.7	0.039	2.2	0.017	0.023	0.0046	0.02	0.00014	0.00035	0.0067	0.000028	0.000068	0.017	0.0000078	3.4	0.00034	0.00016	0.00074
		December		19	0.0005	7.0	5.7	0.039	2.2	0.017	0.023	0.0046	0.02	0.00014	0.00035	0.0067	0.000028	0.000068	0.017	0.0000078	3.4	0.00034	0.00016	0.00074
		January	2026	19	0.0005	7.0	5.7	0.039	2.2	0.017	0.023	0.0046	0.02	0.00014	0.00035	0.0067	0.000028	0.000068	0.017	0.0000078	3.4	0.00034	0.00016	0.00074
		February		19	0.0005	7.0	5.7	0.039	2.2	0.017	0.023	0.0046	0.02	0.00014	0.00035	0.0067	0.000028	0.000068	0.017	0.0000078	3.4	0.00034	0.00016	0.00074
		March		19	0.0005	7.0	5.7	0.039	2.2	0.017	0.023	0.0046	0.02	0.00014	0.00035	0.0067	0.000028	0.000068	0.017	0.0000078	3.4	0.00034	0.00016	0.00074
		April		19	0.0005	7.0	5.7	0.039	2.2	0.017	0.023	0.0046	0.02	0.00014	0.00035	0.0067	0.000028	0.000068	0.017	0.0000078	3.4	0.00034	0.00016	0.00074
		May		19	0.0005	7.0	5.7	0.039	2.2	0.017	0.023	0.0046	0.02	0.00014	0.00035	0.0067	0.000028	0.000068	0.017	0.0000078	3.4	0.00034	0.00016	0.00074
		June		14	0.00032	5.4	4.1	0.03	1.7	0.012	0.016	0.0034	0.015	0.00011	0.00026	0.0052	0.000022	0.000054	0.013	0.000006	2.6	0.00024	0.00012	0.00058
		July		11	0.00019	4.4	3.1	0.025	1.4	0.0085	0.01	0.0026	0.012	0.00009	0.0002	0.0041	0.000018	0.000045	0.01	0.0000048	2.1	0.00017	0.000098	0.00047
		August		11	0.00017	4.4	3.1	0.025	1.4	0.0083	0.0099	0.0026	0.012	0.000092	0.00019	0.0041	0.000018	0.000046	0.01	0.0000049	2.1	0.00016	0.000099	0.00048
		September		11	0.00014	4.5	3.0	0.025	1.4	0.008	0.0092	0.0026	0.011	0.000093	0.00019	0.0042	0.000019	0.000046	0.01	0.0000049	2.1	0.00016	0.00010	0.00049
		October		16	0.00019	6.6	4.4	0.037	2.0	0.011	0.013	0.0038	0.017	0.00014	0.00028	0.0061	0.000028	0.000069	0.015	0.0000072	3.1	0.00023	0.00015	0.00072
		November		16	0.00019	6.6	4.4	0.037	2.0	0.011	0.013	0.0038	0.017	0.00014	0.00028	0.0061	0.000028	0.000069	0.015	0.0000072	3.1	0.00023	0.00015	0.00072
		December		16	0.00019	6.6	4.4	0.037	2.0	0.011	0.013	0.0038	0.017	0.00014	0.00028	0.0061	0.000028	0.000069	0.015	0.0000072	3.1	0.00023	0.00015	0.00072
		January	2027	16	0.00019	6.6	4.4	0.037	2.0	0.011	0.013	0.0038	0.017	0.00014	0.00028	0.0061	0.000028	0.000069	0.015	0.0000072	3.1	0.00023	0.00015	0.00072
		February		16	0.00019	6.6	4.4	0.037	2.0	0.011	0.013	0.0038	0.017	0.00014	0.00028	0.0061	0.000028	0.000069	0.015	0.0000072	3.1	0.00023	0.00015	0.00072
		March		16	0.00019	6.6	4.4	0.037	2.0	0.011	0.013	0.0038	0.017	0.00014	0.00028	0.0061	0.000028	0.000069	0.015	0.0000072	3.1	0.00023	0.00015	0.00072
		April		16	0.00019	6.6	4.4	0.037	2.0	0.011	0.013	0.0038	0.017	0.00014	0.00028	0.0061	0.000028	0.000069	0.015	0.0000072	3.1	0.00023	0.00015	0.00072
		May		16	0.00019	6.6	4.4	0.037	2.0	0.011	0.013	0.0038	0.017	0.00014	0.00028	0.0061	0.000028	0.000069	0.015	0.0000072	3.1	0.00023	0.00015	0.00072
		June		12	0.00012	5.1	3.3	0.029	1.6	0.0085	0.0094	0.0029	0.013	0.00011	0.00021	0.0047	0.000022	0.000054	0.012	0.0000056	2.4	0.00017	0.00011	0.00057
			MINIMUM	11	0.00012	4.4	3.0	0.025	1.4	0.008	0.0092	0.0026	0.011	0.000087	0.00019	0.0041	0.000018	0.000042	0.01	0.0000048	2.1	0.00016	0.000098	0.00047
			MAXIMUM	49	0.0025	13	20	0.062	4.9	0.071	0.12	**0.014**	0.063	0.00017	0.0011	0.014	0.000036	0.000079	0.043	0.000015	7.6	0.0015	0.00033	0.0011
			AVERAGE	25	0.0011	7.8	8.9	0.041	2.7	0.03	0.048	0.0067	0.03	0.00013	0.00052	0.008	0.000027	0.000063	0.023	0.0000089	4.2	0.00063	0.00019	0.00074

		Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)		1.0	0.05				0.004		0.25										0.1
		CCME (CEQG-PAL [chronic])[2] (mg/L)		0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	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
Whale Tail Lake (South Basin)	*Closure, no mine contact water discharge*	August	2022	0.083	0.00011	0.0015	1.7	0.016	0.0000041	0.001	0.0011	0.57	0.000068	0.0000098	2.6	0.035	0.0000087	0.000083	0.00033	0.00049	0.0026
		September		0.08	0.0001	0.0015	1.7	0.015	0.0000042	0.001	0.0011	0.57	0.000068	0.0000099	2.5	0.034	0.0000089	0.000085	0.00031	0.00049	0.0027
		October		0.14	0.00018	0.0026	3.0	0.026	0.0000075	0.0017	0.002	1.0	0.00012	0.000018	4.3	0.059	0.000016	0.00015	0.00054	0.00088	0.0048
		November		0.14	0.00018	0.0026	3.0	0.026	0.0000075	0.0017	0.002	1.0	0.00012	0.000018	4.3	0.059	0.000016	0.00015	0.00054	0.00088	0.0048
		December		0.14	0.00018	0.0026	3.0	0.026	0.0000075	0.0017	0.002	1.0	0.00012	0.000018	4.3	0.059	0.000016	0.00015	0.00054	0.00088	0.0048
		January	2023	0.14	0.00018	0.0026	3.0	0.026	0.0000075	0.0017	0.002	1.0	0.00012	0.000018	4.3	0.059	0.000016	0.00015	0.00054	0.00088	0.0048
		February		0.14	0.00018	0.0026	3.0	0.026	0.0000075	0.0017	0.002	1.0	0.00012	0.000018	4.3	0.059	0.000016	0.00015	0.00054	0.00088	0.0048
		March		0.14	0.00018	0.0026	3.0	0.026	0.0000075	0.0017	0.002	1.0	0.00012	0.000018	4.3	0.059	0.000016	0.00015	0.00054	0.00088	0.0048
		April		0.14	0.00018	0.0026	3.0	0.026	0.0000075	0.0017	0.002	1.0	0.00012	0.000018	4.3	0.059	0.000016	0.00015	0.00054	0.00088	0.0048
		May		0.14	0.00018	0.0026	3.0	0.026	0.0000075	0.0017	0.002	1.0	0.00012	0.000018	4.3	0.059	0.000016	0.00015	0.00054	0.00088	0.0048
		June		0.095	0.00013	0.0018	2.0	0.018	0.0000054	0.0011	0.0014	0.7	0.000083	0.000012	2.9	0.04	0.000011	0.00011	0.00036	0.00062	0.0034
		July		0.065	0.000091	0.0013	1.4	0.012	0.0000041	0.00075	0.00097	0.5	0.00006	0.0000092	1.9	0.028	0.0000085	0.000082	0.00024	0.00046	0.0025
		August		0.063	0.000092	0.0013	1.4	0.011	0.0000042	0.00073	0.00097	0.5	0.00006	0.0000095	1.9	0.027	0.0000087	0.000085	0.00023	0.00047	0.0026
		September		0.061	0.000091	0.0013	1.4	0.011	0.0000043	0.00068	0.00096	0.5	0.00006	0.0000096	1.8	0.027	0.0000089	0.000086	0.00022	0.00048	0.0026
		October		0.093	0.00014	0.002	2.1	0.017	0.0000067	0.001	0.0015	0.77	0.000093	0.000015	2.7	0.041	0.000014	0.00014	0.00033	0.00075	0.0041
		November		0.093	0.00014	0.002	2.1	0.017	0.0000067	0.001	0.0015	0.77	0.000093	0.000015	2.7	0.041	0.000014	0.00014	0.00033	0.00075	0.0041
		December		0.093	0.00014	0.002	2.1	0.017	0.0000067	0.001	0.0015	0.77	0.000093	0.000015	2.7	0.041	0.000014	0.00014	0.00033	0.00075	0.0041
		January	2024	0.093	0.00014	0.002	2.1	0.017	0.0000067	0.001	0.0015	0.77	0.000093	0.000015	2.7	0.041	0.000014	0.00014	0.00033	0.00075	0.0041
		February		0.093	0.00014	0.002	2.1	0.017	0.0000067	0.001	0.0015	0.77	0.000093	0.000015	2.7	0.041	0.000014	0.00014	0.00033	0.00075	0.0041
		March		0.093	0.00014	0.002	2.1	0.017	0.0000067	0.001	0.0015	0.77	0.000093	0.000015	2.7	0.041	0.000014	0.00014	0.00033	0.00075	0.0041
		April		0.093	0.00014	0.002	2.1	0.017	0.0000067	0.001	0.0015	0.77	0.000093	0.000015	2.7	0.041	0.000014	0.00014	0.00033	0.00075	0.0041
		May		0.093	0.00014	0.002	2.1	0.017	0.0000067	0.001	0.0015	0.77	0.000093	0.000015	2.7	0.041	0.000014	0.00014	0.00033	0.00075	0.0041
		June		0.066	0.0001	0.0015	1.5	0.012	0.0000052	0.0007	0.0011	0.58	0.000069	0.000011	1.9	0.029	0.000011	0.0001	0.00023	0.00057	0.0031
		July		0.048	0.00008	0.0011	1.1	0.0082	0.0000042	0.00048	0.00083	0.44	0.000054	0.0000091	1.4	0.022	0.0000086	0.000084	0.00016	0.00045	0.0025
		August		0.047	0.00008	0.0011	1.1	0.0079	0.0000043	0.00045	0.00083	0.45	0.000054	0.0000093	1.3	0.021	0.0000089	0.000087	0.00015	0.00046	0.0026
		September		0.045	0.00008	0.0011	1.1	0.0074	0.0000044	0.00042	0.00083	0.45	0.000054	0.0000094	1.3	0.021	0.000009	0.000089	0.00014	0.00047	0.0026
		October		0.064	0.00012	0.0016	1.5	0.01	0.0000065	0.00058	0.0012	0.65	0.000079	0.000014	1.8	0.03	0.000013	0.00013	0.0002	0.00069	0.0038
		November		0.064	0.00012	0.0016	1.5	0.01	0.0000065	0.00058	0.0012	0.65	0.000079	0.000014	1.8	0.03	0.000013	0.00013	0.0002	0.00069	0.0038
		December		0.064	0.00012	0.0016	1.5	0.01	0.0000065	0.00058	0.0012	0.65	0.000079	0.000014	1.8	0.03	0.000013	0.00013	0.0002	0.00069	0.0038
		January	2025	0.064	0.00012	0.0016	1.5	0.01	0.0000065	0.00058	0.0012	0.65	0.000079	0.000014	1.8	0.03	0.000013	0.00013	0.0002	0.00069	0.0038
		February		0.064	0.00012	0.0016	1.5	0.01	0.0000065	0.00058	0.0012	0.65	0.000079	0.000014	1.8	0.03	0.000013	0.00013	0.0002	0.00069	0.0038
		March		0.064	0.00012	0.0016	1.5	0.01	0.0000065	0.00058	0.0012	0.65	0.000079	0.000014	1.8	0.03	0.000013	0.00013	0.0002	0.00069	0.0038
		April		0.064	0.00012	0.0016	1.5	0.01	0.0000065	0.00058	0.0012	0.65	0.000079	0.000014	1.8	0.03	0.000013	0.00013	0.0002	0.00069	0.0038
		May		0.064	0.00012	0.0016	1.5	0.01	0.0000065	0.00058	0.0012	0.65	0.000079	0.000014	1.8	0.03	0.000013	0.00013	0.0002	0.00069	0.0038
		June		0.047	0.00009	0.0013	1.1	0.0074	0.0000052	0.00039	0.00092	0.5	0.000061	0.000011	1.3	0.022	0.000011	0.0001	0.00014	0.00055	0.0031
		July		0.036	0.000073	0.001	0.89	0.0054	0.0000044	0.00027	0.00074	0.41	0.00005	0.0000091	0.95	0.017	0.0000089	0.000088	0.000099	0.00046	0.0026
		August		0.035	0.000073	0.001	0.88	0.0052	0.0000045	0.00025	0.00074	0.41	0.00005	0.0000093	0.91	0.017	0.0000091	0.00009	0.000093	0.00047	0.0026
		September		0.034	0.000073	0.001	0.86	0.0049	0.0000046	0.00022	0.00073	0.41	0.00005	0.0000095	0.86	0.017	0.0000093	0.000092	0.000085	0.00047	0.0027
		October		0.048	0.00011	0.0015	1.2	0.0069	0.0000068	0.0003	0.0011	0.6	0.000074	0.000014	1.2	0.024	0.000014	0.00014	0.00012	0.0007	0.004
		November		0.048	0.00011	0.0015	1.2	0.0069	0.0000068	0.0003	0.0011	0.6	0.000074	0.000014	1.2	0.024	0.000014	0.00014	0.00012	0.0007	0.004
		December		0.048	0.00011	0.0015	1.2	0.0069	0.0000068	0.0003	0.0011	0.6	0.000074	0.000014	1.2	0.024	0.000014	0.00014	0.00012	0.0007	0.004
		January	2026	0.048	0.00011	0.0015	1.2	0.0069	0.0000068	0.0003	0.0011	0.6	0.000074	0.000014	1.2	0.024	0.000014	0.00014	0.00012	0.0007	0.004
		February		0.048	0.00011	0.0015	1.2	0.0069	0.0000068	0.0003	0.0011	0.6	0.000074	0.000014	1.2	0.024	0.000014	0.00014	0.00012	0.0007	0.004
		March		0.048	0.00011	0.0015	1.2	0.0069	0.0000068	0.0003	0.0011	0.6	0.000074	0.000014	1.2	0.024	0.000014	0.00014	0.00012	0.0007	0.004
		April		0.048	0.00011	0.0015	1.2	0.0069	0.0000068	0.0003	0.0011	0.6	0.000074	0.000014	1.2	0.024	0.000014	0.00014	0.00012	0.0007	0.004
		May		0.048	0.00011	0.0015	1.2	0.0069	0.0000068	0.0003	0.0011	0.6	0.000074	0.000014	1.2	0.024	0.000014	0.00014	0.00012	0.0007	0.004
		June		0.036	0.000083	0.0012	0.94	0.005	0.0000054	0.00021	0.00083	0.47	0.000057	0.000011	0.89	0.018	0.000011	0.00011	0.000084	0.00055	0.0031
		July		0.027	0.000067	0.00095	0.74	0.0036	0.0000044	0.00013	0.00066	0.38	0.000047	0.000009	0.67	0.014	0.0000089	0.000089	0.000059	0.00045	0.0026
		August		0.027	0.000068	0.00097	0.74	0.0036	0.0000046	0.00013	0.00067	0.39	0.000047	0.0000092	0.66	0.015	0.0000091	0.000091	0.000057	0.00046	0.0026
		September		0.027	0.000069	0.00098	0.74	0.0035	0.0000046	0.00012	0.00068	0.39	0.000048	0.0000094	0.64	0.015	0.0000093	0.000093	0.000054	0.00047	0.0027
		October		0.039	0.0001	0.0014	1.1	0.005	0.0000069	0.00016	0.0010	0.58	0.000071	0.000014	0.94	0.021	0.000014	0.00014	0.000078	0.00069	0.004
		November		0.039	0.0001	0.0014	1.1	0.005	0.0000069	0.00016	0.0010	0.58	0.000071	0.000014	0.94	0.021	0.000014	0.00014	0.000078	0.00069	0.004
		December		0.039	0.0001	0.0014	1.1	0.005	0.0000069	0.00016	0.0010	0.58	0.000071	0.000014	0.94	0.021	0.000014	0.00014	0.000078	0.00069	0.004
		January	2027	0.039	0.0001	0.0014	1.1	0.005	0.0000069	0.00016	0.0010	0.58	0.000071	0.000014	0.94	0.021	0.000014	0.00014	0.000078	0.00069	0.004
		February		0.039	0.0001	0.0014	1.1	0.005	0.0000069	0.00016	0.0010	0.58	0.000071	0.000014	0.94	0.021	0.000014	0.00014	0.000078	0.00069	0.004
		March		0.039	0.0001	0.0014	1.1	0.005	0.0000069	0.00016	0.0010	0.58	0.000071	0.000014	0.94	0.021	0.000014	0.00014	0.000078	0.00069	0.004
		April		0.039	0.0001	0.0014	1.1	0.005	0.0000069	0.00016	0.0010	0.58	0.000071	0.000014	0.94	0.021	0.000014	0.00014	0.000078	0.00069	0.004
		May		0.039	0.0001	0.0014	1.1	0.005	0.0000069	0.00016	0.0010	0.58	0.000071	0.000014	0.94	0.021	0.000014	0.00014	0.000078	0.00069	0.004
		June		0.03	0.000079	0.0011	0.84	0.0038	0.0000054	0.00012	0.00078	0.45	0.000055	0.000011	0.71	0.016	0.000011	0.00011	0.000058	0.00054	0.0031
			MINIMUM	0.027	0.000067	0.00095	0.74	0.0035	0.0000041	0.00012	0.00066	0.38	0.000047	0.000009	0.64	0.014	0.0000085	0.000082	0.000054	0.00045	0.0025
			MAXIMUM	0.14	0.00018	0.0026	3.0	0.026	0.0000075	0.0017	0.002	1.0	0.00012	0.000018	4.3	0.059	0.000016	0.00015	0.00054	0.00088	0.0048
			AVERAGE	0.068	0.00012	0.0016	1.6	0.012	0.0000062	0.00067	0.0012	0.64	0.000078	0.000013	1.9	0.031	0.000013	0.00012	0.00022	0.00066	0.0037

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12			2.93	0.01	0.1		*0.025*				1.5	0.00004				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	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
Whale Tail Lake (South Basin)	*Closure, controlled discharge from pit lake*	July	2027	10	0.000072	4.2	2.6	0.024	1.3	0.0066	0.0069	0.0023	0.01	0.00009	0.00017	0.0039	0.000018	0.000045	0.0095	0.0000046	1.9	0.00013	0.000093	0.00047
		August		10	0.000063	4.3	2.6	0.025	1.3	0.0066	0.0067	0.0023	0.01	0.000092	0.00017	0.0039	0.000018	0.000046	0.0096	0.0000047	2.0	0.00013	0.000094	0.00048
		September		10	0.000054	4.3	2.6	0.025	1.3	0.0065	0.0065	0.0024	0.01	0.000093	0.00017	0.004	0.000019	0.000047	0.0097	0.0000048	2.0	0.00013	0.000096	0.00049
		October		15	0.000073	6.4	3.9	0.037	1.9	0.0095	0.0094	0.0034	0.015	0.00014	0.00025	0.0059	0.000028	0.000069	0.014	0.000007	2.9	0.00018	0.00014	0.00072
		November		15	0.000073	6.4	3.9	0.037	1.9	0.0095	0.0094	0.0034	0.015	0.00014	0.00025	0.0059	0.000028	0.000069	0.014	0.000007	2.9	0.00018	0.00014	0.00072
		December		15	0.000073	6.4	3.9	0.037	1.9	0.0095	0.0094	0.0034	0.015	0.00014	0.00025	0.0059	0.000028	0.000069	0.014	0.000007	2.9	0.00018	0.00014	0.00072
		January	2028	15	0.000073	6.4	3.9	0.037	1.9	0.0095	0.0094	0.0034	0.015	0.00014	0.00025	0.0059	0.000028	0.000069	0.014	0.000007	2.9	0.00018	0.00014	0.00072
		February		15	0.000073	6.4	3.9	0.037	1.9	0.0095	0.0094	0.0034	0.015	0.00014	0.00025	0.0059	0.000028	0.000069	0.014	0.000007	2.9	0.00018	0.00014	0.00072
		March		15	0.000073	6.4	3.9	0.037	1.9	0.0095	0.0094	0.0034	0.015	0.00014	0.00025	0.0059	0.000028	0.000069	0.014	0.000007	2.9	0.00018	0.00014	0.00072
		April		15	0.000073	6.4	3.9	0.037	1.9	0.0095	0.0094	0.0034	0.015	0.00014	0.00025	0.0059	0.000028	0.000069	0.014	0.000007	2.9	0.00018	0.00014	0.00072
		May		15	0.000073	6.4	3.9	0.037	1.9	0.0095	0.0094	0.0034	0.015	0.00014	0.00025	0.0059	0.000028	0.000069	0.014	0.000007	2.9	0.00018	0.00014	0.00072
		June		12	0.000047	5.0	3.0	0.029	1.5	0.0073	0.0071	0.0027	0.012	0.00011	0.0002	0.0046	0.000022	0.000054	0.011	0.0000055	2.3	0.00014	0.00011	0.00056
		July		9.6	0.000027	4.1	2.4	0.024	1.2	0.0059	0.0055	0.0022	0.0097	0.000089	0.00016	0.0038	0.000018	0.000045	0.0091	0.0000045	1.9	0.00011	0.000091	0.00046
		August		9.8	0.000024	4.2	2.5	0.024	1.3	0.0059	0.0056	0.0022	0.0099	0.000092	0.00016	0.0039	0.000018	0.000046	0.0093	0.0000046	1.9	0.00011	0.000093	0.00048
		September		10.0	0.00002	4.3	2.5	0.025	1.3	0.006	0.0055	0.0023	0.01	0.000093	0.00016	0.0039	0.000019	0.000047	0.0095	0.0000047	2.0	0.00011	0.000094	0.00048
		October		15	0.000027	6.3	3.7	0.037	1.9	0.0088	0.0081	0.0033	0.015	0.00014	0.00024	0.0058	0.000028	0.000069	0.014	0.0000069	2.9	0.00017	0.00014	0.00071
		November		15	0.000027	6.3	3.7	0.037	1.9	0.0088	0.0081	0.0033	0.015	0.00014	0.00024	0.0058	0.000028	0.000069	0.014	0.0000069	2.9	0.00017	0.00014	0.00071
		December		15	0.000027	6.3	3.7	0.037	1.9	0.0088	0.0081	0.0033	0.015	0.00014	0.00024	0.0058	0.000028	0.000069	0.014	0.0000069	2.9	0.00017	0.00014	0.00071
		January	2029	15	0.000027	6.3	3.7	0.037	1.9	0.0088	0.0081	0.0033	0.015	0.00014	0.00024	0.0058	0.000028	0.000069	0.014	0.0000069	2.9	0.00017	0.00014	0.00071
		February		15	0.000027	6.3	3.7	0.037	1.9	0.0088	0.0081	0.0033	0.015	0.00014	0.00024	0.0058	0.000028	0.000069	0.014	0.0000069	2.9	0.00017	0.00014	0.00071
		March		15	0.000027	6.3	3.7	0.037	1.9	0.0088	0.0081	0.0033	0.015	0.00014	0.00024	0.0058	0.000028	0.000069	0.014	0.0000069	2.9	0.00017	0.00014	0.00071
		April		15	0.000027	6.3	3.7	0.037	1.9	0.0088	0.0081	0.0033	0.015	0.00014	0.00024	0.0058	0.000028	0.000069	0.014	0.0000069	2.9	0.00017	0.00014	0.00071
		May		15	0.000027	6.3	3.7	0.037	1.9	0.0088	0.0081	0.0033	0.015	0.00014	0.00024	0.0058	0.000028	0.000069	0.014	0.0000069	2.9	0.00017	0.00014	0.00071
		June		12	0.000018	5.0	2.9	0.029	1.5	0.0069	0.0063	0.0026	0.012	0.00011	0.00019	0.0046	0.000022	0.000054	0.011	0.0000055	2.3	0.00013	0.00011	0.00056
		July		9.5	0.00001	4.1	2.4	0.024	1.2	0.0056	0.005	0.0021	0.0095	0.000089	0.00016	0.0037	0.000018	0.000045	0.009	0.0000045	1.9	0.00011	0.00009	0.00046
		August		9.7	0.000009	4.2	2.4	0.024	1.3	0.0057	0.0051	0.0022	0.0097	0.000092	0.00016	0.0038	0.000018	0.000046	0.0092	0.0000046	1.9	0.00011	0.000092	0.00047
		September		9.9	0.0000077	4.3	2.5	0.025	1.3	0.0058	0.0052	0.0022	0.0099	0.000093	0.00016	0.0039	0.000019	0.000047	0.0094	0.0000047	1.9	0.00011	0.000094	0.00048
		October		15	0.00001	6.3	3.6	0.037	1.9	0.0085	0.0076	0.0033	0.015	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		November		15	0.00001	6.3	3.6	0.037	1.9	0.0085	0.0076	0.0033	0.015	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		December		15	0.00001	6.3	3.6	0.037	1.9	0.0085	0.0076	0.0033	0.015	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		January	2030	15	0.00001	6.3	3.6	0.037	1.9	0.0085	0.0076	0.0033	0.015	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		February		15	0.00001	6.3	3.6	0.037	1.9	0.0085	0.0076	0.0033	0.015	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		March		15	0.00001	6.3	3.6	0.037	1.9	0.0085	0.0076	0.0033	0.015	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		April		15	0.00001	6.3	3.6	0.037	1.9	0.0085	0.0076	0.0033	0.015	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		May		15	0.00001	6.3	3.6	0.037	1.9	0.0085	0.0076	0.0033	0.015	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		June		11	0.0000066	5.0	2.9	0.029	1.5	0.0067	0.0059	0.0026	0.011	0.00011	0.00019	0.0045	0.000022	0.000054	0.011	0.0000054	2.3	0.00013	0.00011	0.00056
		July		9.5	0.0000038	4.1	2.3	0.024	1.2	0.0055	0.0049	0.0021	0.0094	0.000089	0.00015	0.0037	0.000018	0.000045	0.009	0.0000045	1.9	0.0001	0.00009	0.00046
		August		9.7	0.0000034	4.2	2.4	0.024	1.3	0.0056	0.005	0.0022	0.0096	0.000092	0.00016	0.0038	0.000018	0.000046	0.0092	0.0000046	1.9	0.00011	0.000092	0.00047
		September		9.8	0.0000029	4.3	2.4	0.025	1.3	0.0057	0.005	0.0022	0.0098	0.000093	0.00016	0.0039	0.000019	0.000047	0.0093	0.0000047	1.9	0.00011	0.000093	0.00048
		October		15	0.0000039	6.3	3.6	0.036	1.9	0.0084	0.0074	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		November		15	0.0000039	6.3	3.6	0.036	1.9	0.0084	0.0074	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		December		15	0.0000039	6.3	3.6	0.036	1.9	0.0084	0.0074	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		January	2031	15	0.0000039	6.3	3.6	0.036	1.9	0.0084	0.0074	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		February		15	0.0000039	6.3	3.6	0.036	1.9	0.0084	0.0074	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		March		15	0.0000039	6.3	3.6	0.036	1.9	0.0084	0.0074	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		April		15	0.0000039	6.3	3.6	0.036	1.9	0.0084	0.0074	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		May		15	0.0000039	6.3	3.6	0.036	1.9	0.0084	0.0074	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		June		11	0.0000025	5.0	2.8	0.029	1.5	0.0066	0.0058	0.0026	0.011	0.00011	0.00019	0.0045	0.000022	0.000054	0.011	0.0000054	2.3	0.00013	0.00011	0.00056
		July		9.4	0.0000014	4.1	2.3	0.024	1.2	0.0055	0.0048	0.0021	0.0094	0.000089	0.00015	0.0037	0.000018	0.000045	0.009	0.0000045	1.9	0.0001	0.00009	0.00046
		August		9.7	0.0000013	4.2	2.4	0.024	1.3	0.0056	0.0049	0.0022	0.0096	0.000092	0.00016	0.0038	0.000018	0.000046	0.0092	0.0000046	1.9	0.00011	0.000092	0.00047
		September		9.8	0.0000011	4.3	2.4	0.025	1.3	0.0057	0.005	0.0022	0.0098	0.000093	0.00016	0.0039	0.000019	0.000047	0.0093	0.0000047	1.9	0.00011	0.000093	0.00048
		October		14	0.0000015	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		November		14	0.0000015	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		December		14	0.0000015	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1.0	0.05				0.004		0.25										0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	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
Whale Tail Lake (South Basin)	*Closure, controlled discharge from pit lake*	July	2027	0.024	0.000065	0.00092	0.68	0.003	0.0000045	0.000083	0.00064	0.37	0.000045	0.000009	0.56	0.013	0.0000089	0.000089	0.000044	0.00045	0.0026
		August		0.024	0.000066	0.00094	0.69	0.003	0.0000046	0.00008	0.00065	0.38	0.000046	0.0000092	0.56	0.014	0.0000092	0.000092	0.000044	0.00046	0.0026
		September		0.025	0.000067	0.00095	0.7	0.003	0.0000047	0.000077	0.00066	0.38	0.000047	0.0000093	0.57	0.014	0.0000093	0.000093	0.000043	0.00047	0.0027
		October		0.036	0.000099	0.0014	1.0	0.0043	0.0000069	0.00011	0.00097	0.56	0.00007	0.000014	0.83	0.02	0.000014	0.00014	0.000063	0.00069	0.004
		November		0.036	0.000099	0.0014	1.0	0.0043	0.0000069	0.00011	0.00097	0.56	0.00007	0.000014	0.83	0.02	0.000014	0.00014	0.000063	0.00069	0.004
		December		0.036	0.000099	0.0014	1.0	0.0043	0.0000069	0.00011	0.00097	0.56	0.00007	0.000014	0.83	0.02	0.000014	0.00014	0.000063	0.00069	0.004
		January	2028	0.036	0.000099	0.0014	1.0	0.0043	0.0000069	0.00011	0.00097	0.56	0.00007	0.000014	0.83	0.02	0.000014	0.00014	0.000063	0.00069	0.004
		February		0.036	0.000099	0.0014	1.0	0.0043	0.0000069	0.00011	0.00097	0.56	0.00007	0.000014	0.83	0.02	0.000014	0.00014	0.000063	0.00069	0.004
		March		0.036	0.000099	0.0014	1.0	0.0043	0.0000069	0.00011	0.00097	0.56	0.00007	0.000014	0.83	0.02	0.000014	0.00014	0.000063	0.00069	0.004
		April		0.036	0.000099	0.0014	1.0	0.0043	0.0000069	0.00011	0.00097	0.56	0.00007	0.000014	0.83	0.02	0.000014	0.00014	0.000063	0.00069	0.004
		May		0.036	0.000099	0.0014	1.0	0.0043	0.0000069	0.00011	0.00097	0.56	0.00007	0.000014	0.83	0.02	0.000014	0.00014	0.000063	0.00069	0.004
		June		0.028	0.000078	0.0011	0.81	0.0034	0.0000054	0.000083	0.00076	0.44	0.000055	0.000011	0.64	0.016	0.000011	0.00011	0.000048	0.00054	0.0031
		July		0.023	0.000064	0.00091	0.66	0.0027	0.0000045	0.000064	0.00063	0.36	0.000045	0.000009	0.52	0.013	0.0000089	0.00009	0.000038	0.00045	0.0026
		August		0.023	0.000065	0.00093	0.68	0.0028	0.0000046	0.000063	0.00064	0.37	0.000046	0.0000092	0.53	0.013	0.0000092	0.000092	0.000039	0.00046	0.0027
		September		0.024	0.000066	0.00095	0.69	0.0028	0.0000047	0.000063	0.00065	0.38	0.000047	0.0000093	0.54	0.013	0.0000093	0.000093	0.000039	0.00047	0.0027
		October		0.035	0.000098	0.0014	1.0	0.0041	0.0000069	0.000092	0.00096	0.56	0.000069	0.000014	0.79	0.02	0.000014	0.00014	0.000057	0.00069	0.004
		November		0.035	0.000098	0.0014	1.0	0.0041	0.0000069	0.000092	0.00096	0.56	0.000069	0.000014	0.79	0.02	0.000014	0.00014	0.000057	0.00069	0.004
		December		0.035	0.000098	0.0014	1.0	0.0041	0.0000069	0.000092	0.00096	0.56	0.000069	0.000014	0.79	0.02	0.000014	0.00014	0.000057	0.00069	0.004
		January	2029	0.035	0.000098	0.0014	1.0	0.0041	0.0000069	0.000092	0.00096	0.56	0.000069	0.000014	0.79	0.02	0.000014	0.00014	0.000057	0.00069	0.004
		February		0.035	0.000098	0.0014	1.0	0.0041	0.0000069	0.000092	0.00096	0.56	0.000069	0.000014	0.79	0.02	0.000014	0.00014	0.000057	0.00069	0.004
		March		0.035	0.000098	0.0014	1.0	0.0041	0.0000069	0.000092	0.00096	0.56	0.000069	0.000014	0.79	0.02	0.000014	0.00014	0.000057	0.00069	0.004
		April		0.035	0.000098	0.0014	1.0	0.0041	0.0000069	0.000092	0.00096	0.56	0.000069	0.000014	0.79	0.02	0.000014	0.00014	0.000057	0.00069	0.004
		May		0.035	0.000098	0.0014	1.0	0.0041	0.0000069	0.000092	0.00096	0.56	0.000069	0.000014	0.79	0.02	0.000014	0.00014	0.000057	0.00069	0.004
		June		0.027	0.000077	0.0011	0.79	0.0032	0.0000054	0.000071	0.00076	0.44	0.000054	0.000011	0.62	0.015	0.000011	0.00011	0.000044	0.00054	0.0031
		July		0.022	0.000064	0.00091	0.65	0.0026	0.0000045	0.000056	0.00062	0.36	0.000045	0.000009	0.51	0.013	0.0000089	0.00009	0.000036	0.00045	0.0026
		August		0.023	0.000065	0.00093	0.67	0.0027	0.0000046	0.000057	0.00064	0.37	0.000046	0.0000092	0.52	0.013	0.0000092	0.000092	0.000037	0.00046	0.0027
		September		0.023	0.000066	0.00094	0.68	0.0027	0.0000047	0.000057	0.00065	0.38	0.000047	0.0000093	0.52	0.013	0.0000093	0.000093	0.000037	0.00047	0.0027
		October		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000084	0.00096	0.56	0.000069	0.000014	0.77	0.02	0.000014	0.00014	0.000055	0.00069	0.004
		November		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000084	0.00096	0.56	0.000069	0.000014	0.77	0.02	0.000014	0.00014	0.000055	0.00069	0.004
		December		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000084	0.00096	0.56	0.000069	0.000014	0.77	0.02	0.000014	0.00014	0.000055	0.00069	0.004
		January	2030	0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000084	0.00096	0.56	0.000069	0.000014	0.77	0.02	0.000014	0.00014	0.000055	0.00069	0.004
		February		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000084	0.00096	0.56	0.000069	0.000014	0.77	0.02	0.000014	0.00014	0.000055	0.00069	0.004
		March		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000084	0.00096	0.56	0.000069	0.000014	0.77	0.02	0.000014	0.00014	0.000055	0.00069	0.004
		April		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000084	0.00096	0.56	0.000069	0.000014	0.77	0.02	0.000014	0.00014	0.000055	0.00069	0.004
		May		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000084	0.00096	0.56	0.000069	0.000014	0.77	0.02	0.000014	0.00014	0.000055	0.00069	0.004
		June		0.027	0.000077	0.0011	0.79	0.0031	0.0000054	0.000066	0.00075	0.44	0.000054	0.000011	0.61	0.015	0.000011	0.00011	0.000043	0.00054	0.0031
		July		0.022	0.000063	0.0009	0.65	0.0026	0.0000045	0.000054	0.00062	0.36	0.000045	0.0000089	0.5	0.013	0.0000089	0.00009	0.000035	0.00045	0.0026
		August		0.023	0.000065	0.00093	0.67	0.0026	0.0000046	0.000055	0.00064	0.37	0.000046	0.0000092	0.51	0.013	0.0000092	0.000092	0.000036	0.00046	0.0027
		September		0.023	0.000066	0.00094	0.68	0.0027	0.0000047	0.000055	0.00065	0.38	0.000047	0.0000093	0.52	0.013	0.0000093	0.000093	0.000037	0.00047	0.0027
		October		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000082	0.00095	0.56	0.000069	0.000014	0.77	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		November		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000082	0.00095	0.56	0.000069	0.000014	0.77	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		December		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000082	0.00095	0.56	0.000069	0.000014	0.77	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		January	2031	0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000082	0.00095	0.56	0.000069	0.000014	0.77	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		February		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000082	0.00095	0.56	0.000069	0.000014	0.77	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		March		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000082	0.00095	0.56	0.000069	0.000014	0.77	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		April		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000082	0.00095	0.56	0.000069	0.000014	0.77	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		May		0.034	0.000098	0.0014	1.0	0.004	0.0000069	0.000082	0.00095	0.56	0.000069	0.000014	0.77	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		June		0.027	0.000077	0.0011	0.79	0.0031	0.0000054	0.000064	0.00075	0.44	0.000054	0.000011	0.6	0.015	0.000011	0.00011	0.000042	0.00054	0.0031
		July		0.022	0.000063	0.0009	0.65	0.0026	0.0000045	0.000053	0.00062	0.36	0.000045	0.0000089	0.5	0.013	0.0000089	0.00009	0.000035	0.00045	0.0026
		August		0.023	0.000065	0.00093	0.66	0.0026	0.0000046	0.000054	0.00064	0.37	0.000046	0.0000092	0.51	0.013	0.0000092	0.000092	0.000036	0.00046	0.0027
		September		0.023	0.000066	0.00094	0.68	0.0027	0.0000047	0.000055	0.00065	0.38	0.000047	0.0000093	0.52	0.013	0.0000093	0.000093	0.000036	0.00047	0.0027
		October		0.034	0.000098	0.0014	1.0	0.0039	0.0000069	0.000081	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		November		0.034	0.000098	0.0014	1.0	0.0039	0.0000069	0.000081	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		December		0.034	0.000098	0.0014	1.0	0.0039	0.0000069	0.000081	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12			2.93	0.01	0.1		*0.025*				1.5	0.00004				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	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
Whale Tail Lake (South Basin)	*Closure, controlled discharge from pit lake*	January	2032	14	0.0000015	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		February		14	0.0000015	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		March		14	0.0000015	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		April		14	0.0000015	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		May		14	0.0000015	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		June		11	0.00000093	5.0	2.8	0.029	1.5	0.0066	0.0058	0.0026	0.011	0.00011	0.00019	0.0045	0.000022	0.000054	0.011	0.0000054	2.3	0.00012	0.00011	0.00056
		July		9.4	0.00000054	4.1	2.3	0.024	1.2	0.0054	0.0048	0.0021	0.0094	0.000089	0.00015	0.0037	0.000018	0.000045	0.009	0.0000045	1.9	0.0001	0.000089	0.00046
		August		9.7	0.00000047	4.2	2.4	0.024	1.3	0.0056	0.0049	0.0022	0.0096	0.000092	0.00016	0.0038	0.000018	0.000046	0.0092	0.0000046	1.9	0.00011	0.000092	0.00047
		September		9.8	0.0000004	4.3	2.4	0.025	1.3	0.0057	0.005	0.0022	0.0098	0.000093	0.00016	0.0039	0.000019	0.000047	0.0093	0.0000047	1.9	0.00011	0.000093	0.00048
		October		14	0.00000054	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		November		14	0.00000054	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		December		14	0.00000054	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		January	2033	14	0.00000054	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		February		14	0.00000054	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		March		14	0.00000054	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		April		14	0.00000054	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		May		14	0.00000054	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		June		11	0.00000035	5.0	2.8	0.029	1.5	0.0066	0.0058	0.0026	0.011	0.00011	0.00019	0.0045	0.000022	0.000054	0.011	0.0000054	2.3	0.00012	0.00011	0.00056
		July		9.4	0.0000002	4.1	2.3	0.024	1.2	0.0054	0.0047	0.0021	0.0094	0.000089	0.00015	0.0037	0.000018	0.000045	0.0089	0.0000045	1.9	0.0001	0.000089	0.00046
		August		9.6	0.00000018	4.2	2.4	0.024	1.3	0.0056	0.0049	0.0022	0.0096	0.000092	0.00016	0.0038	0.000018	0.000046	0.0092	0.0000046	1.9	0.00011	0.000092	0.00047
		September		9.8	0.00000015	4.3	2.4	0.025	1.3	0.0057	0.0049	0.0022	0.0098	0.000093	0.00016	0.0039	0.000019	0.000047	0.0093	0.0000047	1.9	0.00011	0.000093	0.00048
		October		14	0.0000002	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		November		14	0.0000002	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		December		14	0.0000002	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		January	2034	14	0.0000002	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		February		14	0.0000002	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		March		14	0.0000002	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		April		14	0.0000002	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		May		14	0.0000002	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		June		11	0.00000013	5.0	2.8	0.029	1.5	0.0066	0.0058	0.0026	0.011	0.00011	0.00019	0.0045	0.000022	0.000054	0.011	0.0000054	2.3	0.00012	0.00011	0.00056
		July		9.4	7.5E-08	4.1	2.3	0.024	1.2	0.0054	0.0047	0.0021	0.0094	0.000089	0.00015	0.0037	0.000018	0.000045	0.0089	0.0000045	1.9	0.0001	0.000089	0.00046
		August		9.6	6.6E-08	4.2	2.4	0.024	1.3	0.0056	0.0049	0.0022	0.0096	0.000092	0.00016	0.0038	0.000018	0.000046	0.0092	0.0000046	1.9	0.00011	0.000092	0.00047
		September		9.8	5.7E-08	4.3	2.4	0.025	1.3	0.0057	0.0049	0.0022	0.0098	0.000093	0.00016	0.0039	0.000019	0.000047	0.0093	0.0000047	1.9	0.00011	0.000093	0.00048
		October		14	7.6E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		November		14	7.6E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		December		14	7.6E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		January	2035	14	7.6E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		February		14	7.6E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		March		14	7.6E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		April		14	7.6E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		May		14	7.6E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		June		11	4.9E-08	5.0	2.8	0.029	1.5	0.0066	0.0057	0.0026	0.011	0.00011	0.00019	0.0045	0.000022	0.000054	0.011	0.0000054	2.3	0.00012	0.00011	0.00056
		July		9.4	2.8E-08	4.1	2.3	0.024	1.2	0.0054	0.0047	0.0021	0.0094	0.000089	0.00015	0.0037	0.000018	0.000045	0.0089	0.0000045	1.9	0.0001	0.000089	0.00046
		August		9.6	2.5E-08	4.2	2.4	0.024	1.3	0.0056	0.0049	0.0022	0.0096	0.000092	0.00016	0.0038	0.000018	0.000046	0.0092	0.0000046	1.9	0.00011	0.000092	0.00047
		September		9.8	2.1E-08	4.3	2.4	0.025	1.3	0.0057	0.0049	0.0022	0.0098	0.000093	0.00016	0.0039	0.000019	0.000047	0.0093	0.0000047	1.9	0.00011	0.000093	0.00048
		October		14	2.8E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		November		14	2.8E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		December		14	2.8E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		January	2036	14	2.8E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		February		14	2.8E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		March		14	2.8E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		April		14	2.8E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		May		14	2.8E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		June		11	1.8E-08	5.0	2.8	0.029	1.5	0.0066	0.0057	0.0026	0.011	0.00011	0.00019	0.0045	0.000022	0.000054	0.011	0.0000054	2.3	0.00012	0.00011	0.00056
		July		9.4	1.1E-08	4.1	2.3	0.024	1.2	0.0054	0.0047	0.0021	0.0094	0.000089	0.00015	0.0037	0.000018	0.000045	0.0089	0.0000045	1.9	0.0001	0.000089	0.00046
		August		9.6	0	4.2	2.4	0.024	1.3	0.0056	0.0049	0.0022	0.0096	0.000092	0.00016	0.0038	0.000018	0.000046	0.0092	0.0000046	1.9	0.00011	0.000092	0.00047
		September		9.8	0	4.3	2.4	0.025	1.3	0.0057	0.0049	0.0022	0.0098	0.000093	0.00016	0.0039	0.000019	0.000047	0.0093	0.0000047	1.9	0.00011	0.000093	0.00048
		October		14	1.1E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		November		14	1.1E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		December		14	1.1E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071

			Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)	1.0	0.05				0.004		0.25										0.1
			CCME (CEQG-PAL [chronic])[2] (mg/L)	0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	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
		January		0.034	0.000098	0.0014	1.0	0.0039	0.0000069	0.000081	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		February		0.034	0.000098	0.0014	1.0	0.0039	0.0000069	0.000081	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		March		0.034	0.000098	0.0014	1.0	0.0039	0.0000069	0.000081	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		April		0.034	0.000098	0.0014	1.0	0.0039	0.0000069	0.000081	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		May		0.034	0.000098	0.0014	1.0	0.0039	0.0000069	0.000081	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		June	2032	0.027	0.000077	0.0011	0.79	0.0031	0.0000054	0.000063	0.00075	0.44	0.000054	0.000011	0.6	0.015	0.000011	0.00011	0.000042	0.00054	0.0031
		July		0.022	0.000063	0.0009	0.65	0.0026	0.0000045	0.000052	0.00062	0.36	0.000045	0.0000089	0.5	0.013	0.0000089	0.00009	0.000035	0.00045	0.0026
		August		0.023	0.000065	0.00093	0.66	0.0026	0.0000046	0.000054	0.00064	0.37	0.000046	0.0000092	0.51	0.013	0.0000092	0.000092	0.000036	0.00046	0.0027
		September		0.023	0.000066	0.00094	0.68	0.0027	0.0000047	0.000054	0.00065	0.38	0.000047	0.0000093	0.52	0.013	0.0000093	0.000093	0.000036	0.00047	0.0027
		October		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		November		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		December		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		January		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		February		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		March		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		April		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		May		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		June	2033	0.027	0.000077	0.0011	0.79	0.0031	0.0000054	0.000063	0.00075	0.44	0.000054	0.000011	0.6	0.015	0.000011	0.00011	0.000042	0.00054	0.0031
		July		0.022	0.000063	0.0009	0.65	0.0026	0.0000045	0.000052	0.00062	0.36	0.000045	0.0000089	0.5	0.013	0.0000089	0.00009	0.000035	0.00045	0.0026
		August		0.023	0.000065	0.00093	0.66	0.0026	0.0000046	0.000053	0.00063	0.37	0.000046	0.0000092	0.51	0.013	0.0000092	0.000092	0.000036	0.00046	0.0027
		September		0.023	0.000066	0.00094	0.68	0.0027	0.0000047	0.000054	0.00065	0.38	0.000047	0.0000093	0.52	0.013	0.0000093	0.000093	0.000036	0.00047	0.0027
		October		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		November		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		December		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		January		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		February		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		March		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		April		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
		May		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000054	0.00069	0.004
Whale Tail Lake (South Basin)	*Closure, controlled discharge from pit lake*	June	2034	0.027	0.000077	0.0011	0.79	0.0031	0.0000054	0.000063	0.00075	0.44	0.000054	0.000011	0.6	0.015	0.000011	0.00011	0.000042	0.00054	0.0031
		July		0.022	0.000063	0.0009	0.65	0.0026	0.0000045	0.000052	0.00062	0.36	0.000045	0.0000089	0.5	0.013	0.0000089	0.00009	0.000035	0.00045	0.0026
		August		0.023	0.000065	0.00093	0.66	0.0026	0.0000046	0.000053	0.00063	0.37	0.000046	0.0000092	0.51	0.013	0.0000092	0.000092	0.000036	0.00046	0.0027
		September		0.023	0.000066	0.00094	0.68	0.0027	0.0000047	0.000054	0.00065	0.38	0.000047	0.0000093	0.52	0.013	0.0000093	0.000093	0.000036	0.00047	0.0027
		October		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		November		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		December		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		January		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		February		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		March		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		April		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		May		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		June	2035	0.027	0.000077	0.0011	0.79	0.0031	0.0000054	0.000063	0.00075	0.44	0.000054	0.000011	0.6	0.015	0.000011	0.00011	0.000042	0.00054	0.0031
		July		0.022	0.000063	0.0009	0.65	0.0026	0.0000045	0.000052	0.00062	0.36	0.000045	0.0000089	0.5	0.013	0.0000089	0.00009	0.000035	0.00045	0.0026
		August		0.023	0.000065	0.00093	0.66	0.0026	0.0000046	0.000053	0.00063	0.37	0.000046	0.0000092	0.51	0.013	0.0000092	0.000092	0.000036	0.00046	0.0027
		September		0.023	0.000066	0.00094	0.68	0.0027	0.0000047	0.000054	0.00065	0.38	0.000047	0.0000093	0.52	0.013	0.0000093	0.000093	0.000036	0.00047	0.0027
		October		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		November		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		December		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		January		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		February		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		March		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		April		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		May		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		June	2036	0.027	0.000077	0.0011	0.79	0.0031	0.0000054	0.000063	0.00075	0.44	0.000054	0.000011	0.6	0.015	0.000011	0.00011	0.000042	0.00054	0.0031
		July		0.022	0.000063	0.0009	0.65	0.0026	0.0000045	0.000052	0.00062	0.36	0.000045	0.0000089	0.5	0.013	0.0000089	0.00009	0.000035	0.00045	0.0026
		August		0.023	0.000065	0.00093	0.66	0.0026	0.0000046	0.000053	0.00063	0.37	0.000046	0.0000092	0.51	0.013	0.0000092	0.000092	0.000036	0.00046	0.0027
		September		0.023	0.000066	0.00094	0.68	0.0027	0.0000047	0.000054	0.00065	0.38	0.000047	0.0000093	0.52	0.013	0.0000093	0.000093	0.000036	0.00047	0.0027
		October		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		November		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		December		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12			2.93	0.01	0.1		0.025				1.5	0.00004				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	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
Whale Tail Lake (South Basin)	*Closure, controlled discharge from pit lake*	January	2037	14	1.1E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		February		14	1.1E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		March		14	1.1E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		April		14	1.1E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		May		14	1.1E-08	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		June		11	0	5.0	2.8	0.029	1.5	0.0066	0.0057	0.0026	0.011	0.00011	0.00019	0.0045	0.000022	0.000054	0.011	0.0000054	2.3	0.00012	0.00011	0.00056
		July		9.4	0	4.1	2.3	0.024	1.2	0.0054	0.0047	0.0021	0.0094	0.000089	0.00015	0.0037	0.000018	0.000045	0.0089	0.0000045	1.9	0.0001	0.000089	0.00046
		August		9.6	0	4.2	2.4	0.024	1.3	0.0056	0.0049	0.0022	0.0096	0.000092	0.00016	0.0038	0.000018	0.000046	0.0092	0.0000046	1.9	0.00011	0.000092	0.00047
		September		9.8	0	4.3	2.4	0.025	1.3	0.0057	0.0049	0.0022	0.0098	0.000093	0.00016	0.0039	0.000019	0.000047	0.0093	0.0000047	1.9	0.00011	0.000093	0.00048
		October		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		November		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		December		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		January	2038	14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		February		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		March		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		April		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		May		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		June		11	0	5.0	2.8	0.029	1.5	0.0066	0.0057	0.0026	0.011	0.00011	0.00019	0.0045	0.000022	0.000054	0.011	0.0000054	2.3	0.00012	0.00011	0.00056
		July		9.4	0	4.1	2.3	0.024	1.2	0.0054	0.0047	0.0021	0.0094	0.000089	0.00015	0.0037	0.000018	0.000045	0.0089	0.0000045	1.9	0.0001	0.000089	0.00046
		August		9.6	0	4.2	2.4	0.024	1.3	0.0056	0.0049	0.0022	0.0096	0.000092	0.00016	0.0038	0.000018	0.000046	0.0092	0.0000046	1.9	0.00011	0.000092	0.00047
		September		9.8	0	4.3	2.4	0.025	1.3	0.0057	0.0049	0.0022	0.0098	0.000093	0.00016	0.0039	0.000019	0.000047	0.0093	0.0000047	1.9	0.00011	0.000093	0.00048
		October		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		November		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		December		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		January	2039	14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		February		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		March		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		April		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		May		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		June		11	0	5.0	2.8	0.029	1.5	0.0066	0.0057	0.0026	0.011	0.00011	0.00019	0.0045	0.000022	0.000054	0.011	0.0000054	2.3	0.00012	0.00011	0.00056
		July		9.4	0	4.1	2.3	0.024	1.2	0.0054	0.0047	0.0021	0.0094	0.000089	0.00015	0.0037	0.000018	0.000045	0.0089	0.0000045	1.9	0.0001	0.000089	0.00046
		August		9.6	0	4.2	2.4	0.024	1.3	0.0056	0.0049	0.0022	0.0096	0.000092	0.00016	0.0038	0.000018	0.000046	0.0092	0.0000046	1.9	0.00011	0.000092	0.00047
		September		9.8	0	4.3	2.4	0.025	1.3	0.0057	0.0049	0.0022	0.0098	0.000093	0.00016	0.0039	0.000019	0.000047	0.0093	0.0000047	1.9	0.00011	0.000093	0.00048
		October		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		November		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
		December		14	0	6.3	3.6	0.036	1.9	0.0084	0.0073	0.0033	0.014	0.00014	0.00024	0.0057	0.000028	0.000069	0.014	0.0000069	2.9	0.00016	0.00014	0.00071
			MINIMUM	9.4	0	4.1	2.3	0.024	1.2	0.0054	0.0047	0.0021	0.0094	0.000089	0.00015	0.0037	0.000018	0.000045	0.0089	0.0000045	1.9	0.0001	0.000089	0.00046
			MAXIMUM	15	0.000073	6.4	3.9	0.037	1.9	0.0095	0.0094	0.0034	0.015	0.00014	0.00025	0.0059	0.000028	0.000069	0.014	0.000007	2.9	0.00018	0.00014	0.00072
			AVERAGE	13	0.0000087	5.6	3.2	0.033	1.7	0.0076	0.0068	0.0029	0.013	0.00012	0.00021	0.0052	0.000025	0.000062	0.012	0.0000062	2.6	0.00014	0.00012	0.00064

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.

[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)

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1.0	0.05				0.004		0.25									0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	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
Whale Tail Lake (South Basin)	*Closure, controlled discharge from pit lake*	January	2037	0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		February		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		March		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		April		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		May		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		June		0.027	0.000077	0.0011	0.79	0.0031	0.0000054	0.000063	0.00075	0.44	0.000054	0.000011	0.6	0.015	0.000011	0.00011	0.000042	0.00054	0.0031
		July		0.022	0.000063	0.0009	0.65	0.0026	0.0000045	0.000052	0.00062	0.36	0.000045	0.0000089	0.5	0.013	0.0000089	0.00009	0.000035	0.00045	0.0026
		August		0.023	0.000065	0.00093	0.66	0.0026	0.0000046	0.000053	0.00063	0.37	0.000046	0.0000092	0.51	0.013	0.0000092	0.000092	0.000036	0.00046	0.0027
		September		0.023	0.000066	0.00094	0.68	0.0027	0.0000047	0.000054	0.00065	0.38	0.000047	0.0000093	0.52	0.013	0.0000093	0.000093	0.000036	0.00047	0.0027
		October		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		November		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		December		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		January	2038	0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		February		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		March		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		April		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		May		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		June		0.027	0.000077	0.0011	0.79	0.0031	0.0000054	0.000063	0.00075	0.44	0.000054	0.000011	0.6	0.015	0.000011	0.00011	0.000042	0.00054	0.0031
		July		0.022	0.000063	0.0009	0.65	0.0026	0.0000045	0.000052	0.00062	0.36	0.000045	0.0000089	0.5	0.013	0.0000089	0.00009	0.000035	0.00045	0.0026
		August		0.023	0.000065	0.00093	0.66	0.0026	0.0000046	0.000053	0.00063	0.37	0.000046	0.0000092	0.51	0.013	0.0000092	0.000092	0.000036	0.00046	0.0027
		September		0.023	0.000066	0.00094	0.68	0.0027	0.0000047	0.000054	0.00065	0.38	0.000047	0.0000093	0.52	0.013	0.0000093	0.000093	0.000036	0.00047	0.0027
		October		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		November		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		December		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		January	2039	0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		February		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		March		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		April		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		May		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		June		0.027	0.000077	0.0011	0.79	0.0031	0.0000054	0.000063	0.00075	0.44	0.000054	0.000011	0.6	0.015	0.000011	0.00011	0.000042	0.00054	0.0031
		July		0.022	0.000063	0.0009	0.65	0.0026	0.0000045	0.000052	0.00062	0.36	0.000045	0.0000089	0.5	0.013	0.0000089	0.00009	0.000035	0.00045	0.0026
		August		0.023	0.000065	0.00092	0.66	0.0026	0.0000046	0.000053	0.00063	0.37	0.000046	0.0000092	0.51	0.013	0.0000092	0.000092	0.000036	0.00046	0.0027
		September		0.023	0.000066	0.00094	0.68	0.0027	0.0000047	0.000054	0.00065	0.38	0.000047	0.0000093	0.52	0.013	0.0000093	0.000093	0.000036	0.00047	0.0027
		October		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		November		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
		December		0.034	0.000097	0.0014	1.0	0.0039	0.0000069	0.00008	0.00095	0.56	0.000069	0.000014	0.76	0.019	0.000014	0.00014	0.000053	0.00069	0.004
			MINIMUM	0.022	0.000063	0.0009	0.65	0.0026	0.0000045	0.000052	0.00062	0.36	0.000045	0.0000089	0.5	0.013	0.0000089	0.000089	0.000035	0.00045	0.0026
			MAXIMUM	0.036	0.000099	0.0014	1.0	0.0043	0.0000069	0.00011	0.00097	0.56	0.00007	0.000014	0.83	0.02	0.000014	0.00014	0.000063	0.00069	0.004
			AVERAGE	0.031	0.000087	0.0012	0.9	0.0036	0.0000062	0.000075	0.00086	0.5	0.000062	0.000012	0.69	0.018	0.000012	0.00012	0.000049	0.00062	0.0036

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.
[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 Approved 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
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12			2.93	0.01	0.1		*0.025*				1.5	0.00004				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	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
Downstream Node 1 (DS1)	*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
		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		11	0.00000046	5.6	1.4	0.027	2.2	0.0055	0.0076	0.0026	0.02	0.0001	0.00032	0.0042	0.00002	0.000051	0.01	0.0000059	2.0	0.00034	0.00012	0.00054
		July		11	0.0000024	5.6	1.6	0.027	2.2	0.0057	0.0079	0.0032	0.038	0.0001	0.00056	0.0045	0.000021	0.000052	0.01	0.000006	2.1	0.00084	0.00015	0.00057
		August		11	0.0000023	5.7	1.6	0.028	2.2	0.0057	0.008	0.0032	0.037	0.00011	0.00055	0.0045	0.000021	0.000052	0.01	0.0000061	2.1	0.0008	0.00014	0.00058
		September		11	0.0000026	5.7	1.5	0.028	2.2	0.0056	0.0079	0.0031	0.036	0.0001	0.00053	0.0044	0.000021	0.000052	0.01	0.000006	2.1	0.00077	0.00014	0.00057
		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	2019	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		11	0.0000023	5.6	1.4	0.027	2.1	0.0055	0.0076	0.0028	0.028	0.0001	0.00042	0.0042	0.000021	0.000051	0.01	0.0000059	2.0	0.00056	0.00013	0.00055
		July		11	0.000003	5.6	1.4	0.027	2.1	0.0055	0.0077	0.0028	0.029	0.0001	0.00043	0.0042	0.000021	0.000051	0.01	0.0000059	2.0	0.00059	0.00013	0.00055
		August		11	0.0000066	5.7	1.5	0.028	2.2	0.0057	0.008	0.0032	0.038	0.0001	0.00056	0.0045	0.000021	0.000052	0.01	0.0000061	2.1	0.00084	0.00015	0.00058
		September		12	0.00016	5.7	1.7	0.028	2.2	0.0058	0.0088	0.0033	0.042	0.0001	0.00061	0.0047	0.000022	0.000052	0.01	0.0000061	2.2	0.00095	0.00015	0.00058
		October		12	0.00084	5.7	2.2	0.028	2.2	0.0061	0.011	0.0035	0.048	0.0001	0.0007	0.0051	0.000023	0.000052	0.01	0.000006	2.4	0.0011	0.00016	0.00059
		November		13	0.0019	5.6	2.6	0.028	2.2	0.0063	0.014	0.0038	0.055	0.0001	0.0008	0.0054	0.000023	0.000051	0.01	0.000006	2.6	0.0013	0.00017	0.00059
		December		14	0.0037	5.8	3.0	0.029	2.3	0.0068	0.019	0.0041	0.06	0.00011	0.0009	0.0058	0.000024	0.000052	0.011	0.0000061	2.8	0.0015	0.00018	0.00061
		January	2020	14	0.004	5.8	3.1	0.029	2.3	0.0069	0.019	0.0041	0.061	0.00011	0.00091	0.0059	0.000024	0.000052	0.011	0.0000061	2.8	0.0015	0.00018	0.00061
		February		14	0.004	5.8	3.1	0.029	2.3	0.0069	0.019	0.0041	0.061	0.00011	0.00091	0.0059	0.000024	0.000052	0.011	0.0000061	2.8	0.0015	0.00018	0.00061
		March		14	0.004	5.8	3.1	0.029	2.3	0.0069	0.019	0.0041	0.061	0.00011	0.00091	0.0059	0.000024	0.000052	0.011	0.0000061	2.8	0.0015	0.00018	0.00061
		April		14	0.004	5.8	3.1	0.029	2.3	0.0069	0.02	0.0041	0.061	0.00011	0.00091	0.0059	0.000024	0.000052	0.011	0.0000061	2.8	0.0015	0.00018	0.00061
		May		14	0.004	5.8	3.1	0.029	2.3	0.0069	0.02	0.0041	0.061	0.00011	0.00091	0.0059	0.000024	0.000052	0.011	0.0000061	2.8	0.0015	0.00018	0.00061
		June		14	0.012	6.0	3.2	0.029	2.4	0.0078	0.038	0.0035	0.036	0.00011	0.00066	0.0055	0.000023	0.000051	0.012	0.0000062	2.8	0.00077	0.00015	0.00057
		July		19	0.032	6.7	5.0	0.031	2.8	0.011	0.088	0.0042	0.032	0.00011	0.00085	0.0066	0.000025	0.000051	0.014	0.0000069	3.4	0.00069	0.00015	0.0006
		August		21	0.043	7.1	6.2	0.033	3.0	0.013	0.12	0.0048	0.036	0.00012	0.001	0.0073	0.000026	0.000053	0.016	0.0000074	3.8	0.00079	0.00017	0.00063
		September		21	0.044	7.2	6.3	0.034	3.0	0.014	0.13	0.0049	0.034	0.00012	0.001	0.0073	0.000026	0.000053	0.016	0.0000075	3.8	0.00074	0.00017	0.00063
		October		23	0.05	7.4	6.9	0.034	3.1	0.015	0.15	0.0052	0.035	0.00012	0.0012	0.0076	0.000026	0.000053	0.017	0.0000078	4.0	0.00078	0.00017	0.00064
		November		23	0.053	7.5	7.3	0.035	3.2	0.016	0.15	0.0054	0.037	0.00012	0.0012	0.0078	0.000026	0.000053	0.018	0.0000079	4.1	0.00082	0.00018	0.00064
		December		24	0.056	7.6	7.6	0.035	3.2	0.016	0.16	0.0056	0.038	0.00012	0.0013	0.008	0.000026	0.000053	0.018	0.000008	4.2	0.00085	0.00018	0.00065
		January	2021	25	0.059	7.7	7.9	0.036	3.3	0.017	0.17	0.0057	0.039	0.00012	0.0014	0.0082	0.000027	0.000053	0.019	0.0000081	4.3	0.00088	0.00018	0.00066
		February		25	0.061	7.8	8.2	0.036	3.3	0.017	0.18	0.0059	0.04	0.00012	0.0014	0.0084	0.000027	0.000053	0.019	0.0000082	4.4	0.00091	0.00019	0.00066
		March		26	0.064	7.9	8.4	0.036	3.4	0.018	0.18	0.006	0.041	0.00012	0.0015	0.0085	0.000027	0.000053	0.02	0.0000083	4.5	0.00094	0.00019	0.00067
		April		27	0.067	8.0	8.7	0.037	3.4	0.018	0.19	0.0062	0.042	0.00013	0.0015	0.0087	0.000027	0.000053	0.02	0.0000084	4.6	0.00097	0.00019	0.00067
		May		27	0.069	8.0	9.0	0.037	3.5	0.019	0.2	0.0063	0.043	0.00013	0.0016	0.0089	0.000028	0.000053	0.02	0.0000085	4.7	0.001	0.0002	0.00068
		June		19	0.038	6.9	5.3	0.032	2.8	0.013	0.11	0.0045	0.028	0.00012	0.0011	0.0064	0.000024	0.000051	0.016	0.0000073	3.3	0.00057	0.00015	0.0006
		July		19	0.037	7.0	5.1	0.032	2.9	0.013	0.11	0.0046	0.027	0.00012	0.0014	0.0063	0.000023	0.000052	0.017	0.0000074	3.2	0.00055	0.00016	0.00061
		August		22	0.048	7.6	6.4	0.035	3.1	0.015	0.14	0.0055	0.032	0.00013	0.0019	0.0071	0.000024	0.000053	0.019	0.0000081	3.7	0.00069	0.00018	0.00065
		September		22	0.048	7.6	6.5	0.035	3.2	0.015	0.14	0.0056	0.032	0.00013	0.002	0.0071	0.000024	0.000053	0.02	0.0000082	3.7	0.00071	0.00018	0.00066
		October		24	0.053	7.9	7.1	0.036	3.3	0.017	0.16	0.0061	0.035	0.00014	0.0023	0.0074	0.000024	0.000053	0.021	0.0000085	3.8	0.00078	0.00019	0.00067
		November		24	0.056	8.0	7.4	0.036	3.4	0.017	0.17	0.0063	0.036	0.00014	0.0024	0.0076	0.000024	0.000054	0.022	0.0000086	3.9	0.00082	0.00019	0.00068
		December		25	0.059	8.1	7.7	0.037	3.4	0.018	0.18	0.0065	0.037	0.00014	0.0026	0.0078	0.000025	0.000054	0.023	0.0000088	4.0	0.00086	0.0002	0.00069
		January	2022	26	0.061	8.2	8.0	0.037	3.5	0.019	0.19	0.0067	0.038	0.00014	0.0027	0.008	0.000025	0.000054	0.023	0.0000089	4.1	0.00089	0.0002	0.0007
		February		26	0.064	8.4	8.3	0.038	3.5	0.019	0.19	0.0069	0.04	0.00015	0.0028	0.0081	0.000025	0.000054	0.024	0.000009	4.2	0.00093	0.00021	0.0007
		March		27	0.067	8.5	8.6	0.038	3.6	0.02	0.2	0.0071	0.041	0.00015	0.0029	0.0083	0.000025	0.000054	0.024	0.0000092	4.3	0.00096	0.00021	0.00071
		April		28	0.069	8.6	8.9	0.039	3.7	0.021	0.21	0.0073	0.042	0.00015	0.0031	0.0085	0.000025	0.000054	0.025	0.0000093	4.4	0.00099	0.00022	0.00072
		May		28	0.072	8.7	9.2	0.039	3.7	0.021	0.22	0.0075	0.043	0.00015	0.0032	0.0086	0.000025	0.000055	0.026	0.0000094	4.5	0.001	0.00022	0.00072
		June		19	0.039	7.2	5.2	0.033	2.9	0.014	0.12	0.005	0.028	0.00013	0.0019	0.0063	0.000023	0.000052	0.018	0.0000077	3.2	0.00059	0.00016	0.00062
		July		19	0.039	7.1	4.8	0.033	2.9	0.013	0.11	0.0048	0.027	0.00013	0.0021	0.006	0.000022	0.000052	0.018	0.0000075	3.1	0.00057	0.00016	0.00062
			MINIMUM	11	0.00000046	5.6	1.4	0.027	2.1	0.0055	0.0076	0.0026	0.02	0.0001	0.00032	0.0042	0.00002	0.000051	0.01	0.0000059	2.0	0.00034	0.00012	0.00054
			MAXIMUM	28	0.072	8.7	9.2	0.039	3.7	0.021	0.22	0.0075	0.061	0.00015	0.0032	0.0089	0.000028	0.000055	0.026	0.0000094	4.7	0.0015	0.00022	0.00072
			AVERAGE	19	0.033	6.9	5.2	0.032	2.8	0.012	0.1	0.0049	0.04	0.00012	0.0014	0.0066	0.000024	0.000052	0.016	0.0000073	3.4	0.00091	0.00017	0.00063

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1.0	0.05				0.004		0.25									0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	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
Downstream Node 1 (DS1)	*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		0.052	0.000084	0.001	0.67	0.0019	0.0000051	0.000053	0.00069	0.49	0.000051	0.00001	0.65	0.0096	0.00001	0.0001	0.000031	0.00053	0.003
		July		0.09	0.000091	0.0011	0.72	0.0026	0.0000051	0.000055	0.00094	0.51	0.000052	0.000011	0.65	0.011	0.000011	0.0001	0.000032	0.00058	0.003
		August		0.088	0.000092	0.0011	0.72	0.0025	0.0000052	0.000055	0.00093	0.52	0.000052	0.000011	0.66	0.011	0.000011	0.0001	0.000033	0.00059	0.003
		September		0.085	0.000091	0.0011	0.71	0.0025	0.0000052	0.000055	0.00091	0.51	0.000052	0.000011	0.66	0.01	0.000011	0.0001	0.000032	0.00058	0.003
		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	2019	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		0.069	0.000087	0.001	0.68	0.0021	0.0000051	0.000053	0.00079	0.49	0.000051	0.000011	0.65	0.0095	0.00001	0.0001	0.000031	0.00055	0.003
		July		0.072	0.000087	0.001	0.68	0.0022	0.0000051	0.000053	0.0008	0.5	0.000051	0.000011	0.65	0.0096	0.00001	0.0001	0.000032	0.00055	0.003
		August		0.091	0.000092	0.0011	0.71	0.0025	0.0000052	0.000056	0.00094	0.51	0.000052	0.000011	0.66	0.01	0.000011	0.0001	0.000033	0.00059	0.003
		September		0.099	0.000093	0.0011	0.73	0.0027	0.0000052	0.000059	0.0010	0.52	0.000052	0.000011	0.67	0.011	0.000011	0.0001	0.000033	0.0006	0.003
		October		0.11	0.000094	0.0012	0.78	0.003	0.0000051	0.000067	0.0011	0.55	0.000052	0.000012	0.68	0.013	0.000011	0.0001	0.000035	0.00061	0.0029
		November		0.12	0.000095	0.0012	0.81	0.0033	0.0000051	0.000076	0.0012	0.56	0.000051	0.000012	0.69	0.015	0.000011	0.0001	0.000037	0.00062	0.0029
		December		0.14	0.000099	0.0013	0.86	0.0037	0.0000051	0.000092	0.0013	0.59	0.000053	0.000012	0.73	0.017	0.000011	0.0001	0.000041	0.00064	0.0029
		January	2020	0.14	0.000099	0.0013	0.87	0.0038	0.0000051	0.000094	0.0013	0.59	0.000053	0.000012	0.74	0.017	0.000011	0.0001	0.000042	0.00064	0.0029
		February		0.14	0.000099	0.0013	0.87	0.0038	0.0000051	0.000095	0.0013	0.59	0.000053	0.000012	0.74	0.017	0.000011	0.0001	0.000042	0.00064	0.0029
		March		0.14	0.000099	0.0013	0.87	0.0038	0.0000051	0.000095	0.0013	0.59	0.000053	0.000012	0.74	0.017	0.000011	0.0001	0.000042	0.00064	0.0029
		April		0.14	0.000099	0.0013	0.87	0.0038	0.0000051	0.000095	0.0013	0.59	0.000053	0.000012	0.74	0.017	0.000011	0.0001	0.000042	0.00064	0.0029
		May		0.14	0.000099	0.0013	0.87	0.0038	0.0000051	0.000095	0.0013	0.59	0.000053	0.000012	0.74	0.017	0.000011	0.0001	0.000042	0.00064	0.0029
		June		0.085	0.000091	0.0013	0.86	0.0036	0.0000051	0.00015	0.00098	0.58	0.000053	0.000011	0.85	0.017	0.000011	0.0001	0.000058	0.00057	0.003
		July		0.078	0.000096	0.0014	1.1	0.0055	0.0000051	0.00031	0.001	0.65	0.000058	0.000011	1.2	0.022	0.000011	0.0001	0.0001	0.00057	0.0031
		August		0.086	0.0001	0.0016	1.2	0.0068	0.0000052	0.0004	0.0012	0.7	0.000062	0.000012	1.4	0.026	0.000011	0.0001	0.00013	0.00059	0.0031
		September		0.083	0.0001	0.0016	1.2	0.0072	0.0000052	0.00043	0.0011	0.69	0.000063	0.000012	1.4	0.026	0.000011	0.0001	0.00014	0.00058	0.0031
		October		0.085	0.0001	0.0016	1.3	0.0081	0.0000052	0.00049	0.0012	0.71	0.000064	0.000012	1.6	0.027	0.000011	0.0001	0.00016	0.00058	0.0031
		November		0.088	0.00011	0.0016	1.3	0.0085	0.0000052	0.00052	0.0012	0.72	0.000065	0.000012	1.6	0.028	0.000011	0.0001	0.00017	0.00059	0.0032
		December		0.091	0.00011	0.0017	1.4	0.0089	0.0000052	0.00054	0.0013	0.73	0.000066	0.000012	1.7	0.029	0.000011	0.00011	0.00017	0.00059	0.0032
		January	2021	0.093	0.00011	0.0017	1.4	0.0093	0.0000053	0.00057	0.0013	0.74	0.000067	0.000012	1.7	0.03	0.000011	0.00011	0.00018	0.00059	0.0032
		February		0.095	0.00011	0.0017	1.4	0.0097	0.0000053	0.00059	0.0013	0.75	0.000068	0.000012	1.8	0.031	0.000011	0.00011	0.00019	0.0006	0.0032
		March		0.097	0.00011	0.0017	1.5	0.01	0.0000053	0.00061	0.0013	0.76	0.000068	0.000012	1.8	0.032	0.000011	0.00011	0.00019	0.0006	0.0032
		April		0.10	0.00011	0.0018	1.5	0.01	0.0000053	0.00064	0.0014	0.77	0.000069	0.000012	1.9	0.033	0.000011	0.00011	0.0002	0.00061	0.0032
		May		0.1	0.00011	0.0018	1.5	0.011	0.0000053	0.00066	0.0014	0.78	0.00007	0.000012	1.9	0.034	0.000011	0.00011	0.00021	0.00061	0.0032
		June		0.069	0.000099	0.0014	1.1	0.0068	0.0000051	0.00039	0.001	0.63	0.000062	0.000011	1.4	0.021	0.000011	0.0001	0.00013	0.00056	0.0031
		July		0.068	0.0001	0.0014	1.1	0.0075	0.0000052	0.0004	0.001	0.63	0.000064	0.000011	1.4	0.02	0.000011	0.0001	0.00013	0.00056	0.0031
		August		0.08	0.00011	0.0015	1.3	0.0096	0.0000053	0.00052	0.0012	0.68	0.00007	0.000012	1.7	0.024	0.000011	0.00011	0.00017	0.00059	0.0032
		September		0.081	0.00011	0.0015	1.3	0.01	0.0000053	0.00054	0.0012	0.68	0.000071	0.000012	1.7	0.024	0.000011	0.00011	0.00018	0.00059	0.0032
		October		0.087	0.00012	0.0015	1.4	0.011	0.0000053	0.0006	0.0012	0.7	0.000074	0.000012	1.8	0.025	0.000011	0.00011	0.00019	0.0006	0.0032
		November		0.09	0.00012	0.0015	1.4	0.012	0.0000054	0.00063	0.0013	0.71	0.000075	0.000012	1.9	0.026	0.000011	0.00011	0.0002	0.0006	0.0033
		December		0.093	0.00012	0.0016	1.4	0.012	0.0000054	0.00066	0.0013	0.72	0.000076	0.000012	2.0	0.027	0.000011	0.00011	0.00021	0.00061	0.0033
		January	2022	0.096	0.00012	0.0016	1.5	0.013	0.0000054	0.00069	0.0014	0.73	0.000078	0.000012	2.0	0.028	0.000011	0.00011	0.00022	0.00061	0.0033
		February		0.098	0.00012	0.0016	1.5	0.014	0.0000054	0.00072	0.0014	0.74	0.000079	0.000012	2.1	0.029	0.000011	0.00011	0.00023	0.00062	0.0033
		March		0.1	0.00012	0.0016	1.5	0.014	0.0000054	0.00075	0.0014	0.75	0.00008	0.000012	2.2	0.029	0.000011	0.00011	0.00024	0.00062	0.0033
		April		0.1	0.00013	0.0016	1.6	0.015	0.0000054	0.00078	0.0015	0.76	0.000081	0.000013	2.2	0.03	0.000011	0.00011	0.00025	0.00063	0.0033
		May		0.11	0.00013	0.0017	1.6	0.015	0.0000055	0.0008	0.0015	0.77	0.000082	0.000013	2.3	0.031	0.000011	0.00011	0.00025	0.00063	0.0033
		June		0.072	0.00011	0.0013	1.1	0.0087	0.0000052	0.00044	0.0011	0.63	0.000067	0.000011	1.5	0.02	0.000011	0.0001	0.00015	0.00057	0.0031
		July		0.071	0.00011	0.0013	1.1	0.0085	0.0000052	0.0004	0.001	0.62	0.000067	0.000011	1.4	0.018	0.000011	0.0001	0.00014	0.00057	0.0031
			MINIMUM	0.052	0.000084	0.001	0.67	0.0019	0.0000051	0.000053	0.00069	0.49	0.000051	0.00001	0.65	0.0095	0.00001	0.0001	0.000031	0.00053	0.0029
			MAXIMUM	0.14	0.00013	0.0018	1.6	0.015	0.0000055	0.0008	0.0015	0.78	0.000082	0.000013	2.3	0.034	0.000011	0.00011	0.00025	0.00064	0.0033
			AVERAGE	0.095	0.0001	0.0014	1.1	0.0072	0.0000052	0.00037	0.0012	0.64	0.000063	0.000012	1.3	0.021	0.000011	0.0001	0.00012	0.0006	0.0031

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1400							16		0.3	0.5		0.1					0.002		0.02		0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12				2.93	0.01	0.1		0.025				1.5	0.00004				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	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
Downstream Node 1 (DS1)	*Closure, no mine contact water discharge*	August	2022	19	0.039	7.1	4.8	0.033	2.9	0.014	0.12	0.0049	0.027	0.00013	0.0021	0.0061	0.000023	0.000053	0.018	0.0000076	3.1	0.00058	0.00016	0.00063
		September		17	0.031	6.8	4.0	0.032	2.8	0.012	0.093	0.0043	0.024	0.00013	0.0017	0.0056	0.000022	0.000052	0.016	0.0000073	2.8	0.00048	0.00015	0.00061
		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	2023	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		14	0.019	6.3	2.8	0.029	2.5	0.0094	0.061	0.0035	0.019	0.00012	0.0011	0.0049	0.000021	0.000051	0.014	0.0000066	2.5	0.00034	0.00013	0.00057
		July		13	0.014	6.1	2.4	0.029	2.4	0.0084	0.047	0.0032	0.017	0.00011	0.00089	0.0047	0.000021	0.000051	0.013	0.0000065	2.3	0.00028	0.00012	0.00056
		August		13	0.013	6.2	2.3	0.029	2.4	0.0083	0.044	0.0032	0.017	0.00011	0.00084	0.0047	0.000021	0.000052	0.013	0.0000065	2.3	0.00027	0.00012	0.00056
		September		13	0.014	6.2	2.4	0.029	2.4	0.0085	0.048	0.0032	0.018	0.00011	0.0009	0.0047	0.000021	0.000052	0.013	0.0000065	2.3	0.00028	0.00012	0.00057
		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	2024	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		13	0.013	6.1	2.2	0.029	2.4	0.0082	0.043	0.0031	0.017	0.00011	0.00082	0.0046	0.000021	0.000051	0.013	0.0000064	2.3	0.00026	0.00012	0.00056
		July		13	0.01	6.0	2.0	0.028	2.3	0.0077	0.037	0.0029	0.016	0.00011	0.00071	0.0045	0.000021	0.000051	0.012	0.0000063	2.2	0.00024	0.00012	0.00055
		August		13	0.0097	6.1	2.0	0.029	2.4	0.0076	0.035	0.0029	0.016	0.00011	0.00068	0.0045	0.000021	0.000052	0.012	0.0000063	2.2	0.00023	0.00012	0.00056
		September		13	0.011	6.1	2.1	0.029	2.4	0.0078	0.038	0.003	0.016	0.00011	0.00073	0.0045	0.000021	0.000052	0.012	0.0000064	2.3	0.00024	0.00012	0.00056
		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	2025	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		12	0.01	6.0	2.0	0.028	2.3	0.0075	0.035	0.0029	0.016	0.00011	0.00069	0.0044	0.000021	0.000051	0.012	0.0000063	2.2	0.00023	0.00012	0.00055
		July		12	0.0085	5.9	1.8	0.028	2.3	0.0072	0.03	0.0028	0.015	0.00011	0.0006	0.0044	0.000021	0.000051	0.012	0.0000062	2.2	0.00021	0.00011	0.00055
		August		12	0.0079	6.0	1.8	0.028	2.3	0.0071	0.029	0.0028	0.015	0.00011	0.00058	0.0044	0.000021	0.000052	0.012	0.0000063	2.2	0.0002	0.00011	0.00055
		September		12	0.0089	6.0	1.9	0.028	2.3	0.0073	0.031	0.0028	0.015	0.00011	0.00062	0.0044	0.000021	0.000052	0.012	0.0000063	2.2	0.00021	0.00012	0.00055
		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	2026	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		12	0.0084	5.9	1.8	0.028	2.3	0.0071	0.029	0.0027	0.015	0.00011	0.00059	0.0043	0.000021	0.000051	0.012	0.0000062	2.1	0.0002	0.00011	0.00054
		July		12	0.0071	5.9	1.7	0.028	2.3	0.0068	0.025	0.0027	0.014	0.00011	0.00053	0.0043	0.000021	0.000051	0.011	0.0000061	2.1	0.00018	0.00011	0.00054
		August		12	0.0066	5.9	1.7	0.028	2.3	0.0068	0.024	0.0027	0.014	0.00011	0.0005	0.0043	0.000021	0.000052	0.011	0.0000062	2.1	0.00018	0.00011	0.00055
		September		12	0.0075	5.9	1.7	0.028	2.3	0.0069	0.026	0.0027	0.014	0.00011	0.00054	0.0043	0.000021	0.000052	0.011	0.0000062	2.1	0.00019	0.00011	0.00055
		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	2027	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		12	0.0075	5.9	1.7	0.028	2.3	0.0068	0.026	0.0027	0.014	0.00011	0.00054	0.0043	0.000021	0.000051	0.011	0.0000061	2.1	0.00018	0.00011	0.00054
			MINIMUM	12	0.0066	5.9	1.7	0.028	2.3	0.0068	0.024	0.0027	0.014	0.00011	0.0005	0.0043	0.000021	0.000051	0.011	0.0000061	2.1	0.00018	0.00011	0.00054
			MAXIMUM	19	0.039	7.1	4.8	0.033	2.9	0.014	0.12	0.0049	0.027	0.00013	0.0021	0.0061	0.000023	0.000053	0.018	0.0000076	3.1	0.00058	0.00016	0.00063
			AVERAGE	13	0.013	6.1	2.3	0.029	2.4	0.0082	0.043	0.0031	0.017	0.00011	0.00083	0.0046	0.000021	0.000052	0.013	0.0000064	2.3	0.00026	0.00012	0.00056

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1.0	0.05				0.004		0.25										0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	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
Downstream Node 1 (DS1)	*Closure, no mine contact water discharge*	August	2022	0.072	0.00011	0.0013	1.1	0.0086	0.0000053	0.0004	0.0011	0.63	0.000068	0.000012	1.4	0.019	0.000011	0.00011	0.00014	0.00058	0.0032
		September		0.064	0.0001	0.0012	0.99	0.0071	0.0000053	0.00032	0.00095	0.6	0.000065	0.000011	1.3	0.016	0.000011	0.00011	0.00011	0.00056	0.0032
		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	2023	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		0.053	0.000093	0.0011	0.84	0.0049	0.0000051	0.00021	0.0008	0.55	0.000059	0.000011	1.0	0.013	0.00001	0.0001	0.00008	0.00054	0.0031
		July		0.048	0.00009	0.0011	0.79	0.004	0.0000051	0.00017	0.00074	0.53	0.000057	0.000011	0.91	0.012	0.00001	0.0001	0.000066	0.00053	0.0031
		August		0.048	0.00009	0.0011	0.79	0.0038	0.0000052	0.00016	0.00073	0.53	0.000057	0.000011	0.9	0.012	0.00001	0.0001	0.000064	0.00053	0.0031
		September		0.049	0.000091	0.0011	0.8	0.004	0.0000052	0.00017	0.00075	0.54	0.000057	0.000011	0.92	0.012	0.00001	0.0001	0.000067	0.00054	0.0031
		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	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		0.047	0.000089	0.0011	0.77	0.0037	0.0000051	0.00016	0.00072	0.52	0.000056	0.000011	0.88	0.012	0.00001	0.0001	0.000062	0.00053	0.0031
		July		0.045	0.000088	0.0011	0.75	0.0033	0.0000051	0.00014	0.00069	0.52	0.000055	0.00001	0.84	0.011	0.00001	0.0001	0.000056	0.00052	0.0031
		August		0.044	0.000088	0.0011	0.75	0.0032	0.0000052	0.00013	0.00069	0.52	0.000055	0.000011	0.83	0.011	0.00001	0.0001	0.000054	0.00053	0.0031
		September		0.045	0.000089	0.0011	0.76	0.0034	0.0000052	0.00014	0.0007	0.53	0.000056	0.000011	0.85	0.011	0.00001	0.0001	0.000057	0.00053	0.0031
		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	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		0.044	0.000087	0.0011	0.74	0.0032	0.0000051	0.00013	0.00069	0.52	0.000055	0.00001	0.82	0.011	0.00001	0.0001	0.000053	0.00052	0.0031
		July		0.042	0.000086	0.0011	0.72	0.0029	0.0000051	0.00011	0.00067	0.51	0.000054	0.00001	0.79	0.011	0.00001	0.0001	0.000049	0.00052	0.0031
		August		0.042	0.000087	0.0011	0.72	0.0028	0.0000052	0.00011	0.00067	0.52	0.000055	0.000011	0.79	0.011	0.00001	0.0001	0.000048	0.00053	0.0031
		September		0.043	0.000087	0.0011	0.73	0.0029	0.0000052	0.00012	0.00068	0.52	0.000055	0.000011	0.8	0.011	0.00001	0.0001	0.00005	0.00053	0.0031
		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	2026	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		0.042	0.000086	0.0011	0.72	0.0028	0.0000051	0.00011	0.00066	0.51	0.000054	0.00001	0.78	0.01	0.00001	0.0001	0.000048	0.00052	0.0031
		July		0.041	0.000085	0.0011	0.7	0.0026	0.0000051	0.000098	0.00065	0.51	0.000053	0.00001	0.76	0.01	0.00001	0.0001	0.000045	0.00052	0.0031
		August		0.041	0.000086	0.0011	0.71	0.0025	0.0000052	0.000095	0.00065	0.51	0.000054	0.000011	0.76	0.01	0.00001	0.0001	0.000044	0.00052	0.0031
		September		0.041	0.000086	0.0011	0.71	0.0026	0.0000052	0.00010	0.00066	0.51	0.000054	0.000011	0.77	0.01	0.00001	0.0001	0.000045	0.00053	0.0031
		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		0.041	0.000085	0.0011	0.7	0.0026	0.0000051	0.000098	0.00065	0.51	0.000054	0.00001	0.76	0.01	0.00001	0.0001	0.000044	0.00052	0.0031
			MINIMUM	0.041	0.000085	0.0011	0.7	0.0025	0.0000051	0.000095	0.00065	0.51	0.000053	0.00001	0.76	0.01	0.00001	0.0001	0.000044	0.00052	0.0031
			MAXIMUM	0.072	0.00011	0.0013	1.1	0.0086	0.0000053	0.0004	0.0011	0.63	0.000068	0.000012	1.4	0.019	0.000011	0.00011	0.00014	0.00058	0.0032
			AVERAGE	0.047	0.00009	0.0011	0.78	0.0037	0.0000052	0.00016	0.00073	0.53	0.000056	0.000011	0.89	0.012	0.00001	0.0001	0.000062	0.00053	0.0031

Site and Downstream Water Quality Model Predictions
Whale Tail Approved 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
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12			2.93	0.01	0.1		*0.025*				1.5	0.00004				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	Co	Cu[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	mg/L	mg/L
Downstream Node 1 (DS1)	*Closure, controlled discharge from pit lake*	July	2027	13	0.013	6.1	2.0	0.029	2.4	0.0078	0.037	0.0029	0.016	0.00011	0.00076	0.0045	0.000021	0.000052	0.012	0.0000063	2.3	0.00023	0.00012	0.00056
		August		14	0.018	6.3	2.4	0.03	2.5	0.0088	0.048	0.0032	0.017	0.00012	0.00098	0.0048	0.000022	0.000053	0.013	0.0000066	2.4	0.00027	0.00013	0.00058
		September		14	0.02	6.3	2.5	0.03	2.5	0.009	0.051	0.0032	0.017	0.00012	0.0011	0.0049	0.000022	0.000053	0.013	0.0000066	2.4	0.00028	0.00013	0.00058
		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	2028	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		13	0.014	6.0	2.1	0.028	2.4	0.0079	0.037	0.0029	0.015	0.00011	0.00084	0.0046	0.000021	0.000051	0.012	0.0000063	2.3	0.00023	0.00012	0.00056
		July		13	0.016	6.0	2.2	0.029	2.4	0.0081	0.037	0.003	0.015	0.00011	0.00093	0.0046	0.000021	0.000052	0.012	0.0000063	2.3	0.00024	0.00012	0.00056
		August		14	0.02	6.2	2.6	0.03	2.5	0.009	0.043	0.0032	0.017	0.00012	0.0012	0.0049	0.000021	0.000053	0.013	0.0000065	2.4	0.00027	0.00013	0.00058
		September		14	0.02	6.2	2.6	0.03	2.5	0.009	0.041	0.0033	0.016	0.00012	0.0012	0.0049	0.000021	0.000052	0.013	0.0000065	2.4	0.00027	0.00013	0.00057
		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	2029	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		13	0.013	5.9	2.1	0.028	2.3	0.0077	0.027	0.0029	0.014	0.00011	0.00089	0.0045	0.000021	0.000051	0.012	0.0000062	2.3	0.00022	0.00012	0.00055
		July		13	0.013	5.9	2.2	0.029	2.3	0.0078	0.023	0.0029	0.014	0.00011	0.00093	0.0046	0.000021	0.000051	0.012	0.0000062	2.3	0.00022	0.00012	0.00055
		August		13	0.016	6.1	2.5	0.029	2.4	0.0085	0.027	0.0032	0.015	0.00012	0.0011	0.0048	0.000021	0.000052	0.013	0.0000064	2.4	0.00025	0.00012	0.00057
		September		13	0.016	6.1	2.5	0.029	2.4	0.0085	0.025	0.0032	0.015	0.00012	0.0012	0.0048	0.000021	0.000052	0.013	0.0000064	2.4	0.00025	0.00012	0.00057
		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	2030	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		12	0.010	5.8	2.0	0.028	2.3	0.0073	0.017	0.0028	0.014	0.00011	0.00084	0.0045	0.000021	0.000051	0.012	0.0000061	2.2	0.0002	0.00011	0.00054
		July		12	0.0098	5.9	2.1	0.028	2.3	0.0074	0.015	0.0029	0.014	0.00011	0.00086	0.0045	0.000021	0.000051	0.012	0.0000062	2.2	0.0002	0.00011	0.00055
		August		13	0.012	6.0	2.3	0.029	2.4	0.008	0.016	0.0031	0.014	0.00012	0.001	0.0047	0.000021	0.000052	0.012	0.0000063	2.3	0.00023	0.00012	0.00056
		September		13	0.012	6.0	2.3	0.029	2.4	0.0079	0.016	0.0031	0.014	0.00011	0.0011	0.0047	0.000021	0.000052	0.012	0.0000063	2.3	0.00023	0.00012	0.00056
		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	2031	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		12	0.0079	5.8	1.9	0.028	2.3	0.007	0.012	0.0028	0.013	0.00011	0.00076	0.0044	0.000021	0.000051	0.011	0.0000061	2.2	0.00019	0.00011	0.00054
		July		12	0.008	5.8	2.0	0.028	2.3	0.007	0.011	0.0028	0.013	0.00011	0.00078	0.0044	0.000021	0.000051	0.011	0.0000061	2.2	0.0002	0.00011	0.00055
		August		13	0.01	6.0	2.2	0.029	2.3	0.0075	0.012	0.003	0.014	0.00011	0.00094	0.0046	0.000021	0.000052	0.012	0.0000063	2.3	0.00022	0.00012	0.00056
		September		13	0.01	5.9	2.2	0.029	2.3	0.0075	0.012	0.003	0.014	0.00011	0.00094	0.0046	0.000021	0.000052	0.012	0.0000063	2.3	0.00023	0.00012	0.00056
		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

Site and Downstream Water Quality Model Predictions
Whale Tail Approved 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
		CCME (CEQG-PAL [chronic])[2] (mg/L)		0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	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
Downstream Node 1 (DS1)	*Closure, controlled discharge from pit lake*	July	2027	0.044	0.000089	0.0011	0.75	0.0033	0.0000052	0.00013	0.00071	0.53	0.000056	0.000011	0.83	0.011	0.00001	0.0001	0.000053	0.00053	0.0031
		August		0.048	0.000093	0.0011	0.81	0.004	0.0000054	0.00015	0.00078	0.55	0.000059	0.000011	0.9	0.012	0.000011	0.00011	0.000061	0.00055	0.0032
		September		0.048	0.000093	0.0011	0.82	0.0041	0.0000053	0.00016	0.0008	0.56	0.000059	0.000011	0.91	0.013	0.000011	0.00011	0.000063	0.00055	0.0032
		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	2028	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		0.044	0.000088	0.0011	0.76	0.0034	0.0000052	0.00013	0.00072	0.53	0.000056	0.000011	0.82	0.012	0.00001	0.0001	0.000054	0.00053	0.0031
		July		0.044	0.000088	0.0011	0.77	0.0037	0.0000052	0.00014	0.00074	0.53	0.000056	0.000011	0.84	0.012	0.00001	0.0001	0.000057	0.00053	0.0031
		August		0.047	0.000091	0.0011	0.82	0.0044	0.0000053	0.00016	0.00079	0.56	0.000058	0.000011	0.91	0.013	0.000011	0.00011	0.000066	0.00054	0.0031
		September		0.047	0.000091	0.0011	0.82	0.0045	0.0000053	0.00017	0.0008	0.56	0.000058	0.000011	0.91	0.013	0.000011	0.00011	0.000067	0.00054	0.0031
		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		0.042	0.000086	0.0011	0.76	0.0036	0.0000051	0.00013	0.00071	0.52	0.000055	0.00001	0.82	0.012	0.00001	0.0001	0.000056	0.00052	0.003
		July		0.042	0.000086	0.0011	0.76	0.0037	0.0000051	0.00013	0.00071	0.53	0.000055	0.00001	0.82	0.012	0.00001	0.0001	0.000058	0.00052	0.003
		August		0.044	0.000088	0.0011	0.81	0.0043	0.0000053	0.00016	0.00076	0.55	0.000057	0.000011	0.88	0.013	0.000011	0.0001	0.000067	0.00054	0.003
		September		0.044	0.000088	0.0011	0.81	0.0043	0.0000052	0.00016	0.00076	0.54	0.000057	0.000011	0.88	0.013	0.000011	0.0001	0.000068	0.00054	0.0029
		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		0.041	0.000084	0.0011	0.74	0.0034	0.0000051	0.00012	0.00069	0.52	0.000054	0.00001	0.79	0.011	0.00001	0.0001	0.000055	0.00052	0.0029
		July		0.041	0.000085	0.0011	0.75	0.0034	0.0000051	0.00013	0.00069	0.52	0.000054	0.00001	0.8	0.011	0.00001	0.0001	0.000056	0.00052	0.0029
		August		0.043	0.000087	0.0011	0.79	0.004	0.0000052	0.00015	0.00073	0.54	0.000056	0.000011	0.85	0.012	0.00001	0.0001	0.000064	0.00053	0.0029
		September		0.043	0.000086	0.0011	0.79	0.004	0.0000052	0.00015	0.00074	0.54	0.000056	0.000011	0.85	0.012	0.00001	0.0001	0.000064	0.00053	0.0029
		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		0.04	0.000083	0.0011	0.73	0.0031	0.0000051	0.00011	0.00067	0.51	0.000054	0.00001	0.77	0.011	0.00001	0.0001	0.000052	0.00052	0.0029
		July		0.04	0.000084	0.0011	0.73	0.0031	0.0000051	0.00011	0.00068	0.51	0.000054	0.00001	0.77	0.011	0.00001	0.0001	0.000053	0.00052	0.0029
		August		0.043	0.000086	0.0011	0.77	0.0036	0.0000052	0.00013	0.00072	0.53	0.000056	0.000011	0.82	0.012	0.000011	0.0001	0.00006	0.00053	0.0029
		September		0.043	0.000086	0.0011	0.77	0.0036	0.0000052	0.00013	0.00072	0.53	0.000055	0.000011	0.81	0.012	0.00001	0.0001	0.00006	0.00053	0.0029
		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

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1400						16		0.3	0.5		0.1					0.002		0.02		0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12			2.93	0.01	0.1		*0.025*				1.5	0.00004				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	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
Downstream Node 1 (DS1)	*Closure, controlled discharge from pit lake*	January	2032	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		12	0.0067	5.8	1.9	0.028	2.2	0.0067	0.01	0.0027	0.013	0.00011	0.00069	0.0044	0.000021	0.000051	0.011	0.000006	2.1	0.00019	0.00011	0.00054
		July		12	0.0068	5.8	1.9	0.028	2.2	0.0068	0.0099	0.0027	0.013	0.00011	0.0007	0.0044	0.000021	0.000051	0.011	0.0000061	2.2	0.0002	0.00011	0.00054
		August		12	0.0087	5.9	2.1	0.029	2.3	0.0072	0.011	0.0029	0.014	0.00011	0.00085	0.0046	0.000021	0.000052	0.012	0.0000062	2.3	0.00022	0.00012	0.00056
		September		12	0.0087	5.9	2.1	0.029	2.3	0.0072	0.011	0.0029	0.014	0.00011	0.00085	0.0046	0.000021	0.000052	0.012	0.0000062	2.2	0.00023	0.00012	0.00056
		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	2033	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		12	0.0058	5.7	1.8	0.028	2.2	0.0065	0.0093	0.0026	0.013	0.00011	0.00063	0.0043	0.000021	0.000051	0.011	0.000006	2.1	0.00019	0.00011	0.00054
		July		12	0.006	5.8	1.8	0.028	2.2	0.0065	0.0092	0.0026	0.013	0.00011	0.00065	0.0043	0.000021	0.000051	0.011	0.000006	2.1	0.0002	0.00011	0.00054
		August		12	0.0076	5.9	2.0	0.029	2.3	0.0069	0.0098	0.0028	0.014	0.00011	0.00077	0.0045	0.000021	0.000052	0.011	0.0000062	2.2	0.00022	0.00012	0.00056
		September		12	0.0077	5.9	2.0	0.029	2.3	0.0069	0.0098	0.0028	0.014	0.00011	0.00078	0.0045	0.000021	0.000052	0.011	0.0000062	2.2	0.00022	0.00012	0.00056
		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	2034	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		11	0.0051	5.7	1.7	0.028	2.2	0.0063	0.0088	0.0026	0.013	0.00011	0.00058	0.0043	0.000021	0.000051	0.011	0.000006	2.1	0.00019	0.00011	0.00054
		July		12	0.0053	5.7	1.7	0.028	2.2	0.0064	0.0088	0.0026	0.013	0.00011	0.0006	0.0043	0.000021	0.000051	0.011	0.000006	2.1	0.0002	0.00011	0.00054
		August		12	0.0068	5.9	1.9	0.029	2.2	0.0067	0.0093	0.0027	0.014	0.00011	0.00071	0.0045	0.000021	0.000052	0.011	0.0000061	2.2	0.00022	0.00012	0.00056
		September		12	0.0069	5.8	1.9	0.029	2.2	0.0067	0.0093	0.0027	0.014	0.00011	0.00072	0.0045	0.000021	0.000052	0.011	0.0000061	2.2	0.00022	0.00012	0.00056
		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	2035	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		11	0.0046	5.7	1.7	0.028	2.2	0.0062	0.0085	0.0025	0.013	0.00011	0.00054	0.0043	0.000021	0.000051	0.011	0.000006	2.1	0.00019	0.00011	0.00054
		July		11	0.0048	5.7	1.7	0.028	2.2	0.0062	0.0085	0.0026	0.013	0.00011	0.00056	0.0043	0.000021	0.000051	0.011	0.000006	2.1	0.0002	0.00011	0.00054
		August		12	0.0061	5.8	1.9	0.029	2.2	0.0065	0.0089	0.0027	0.014	0.00011	0.00066	0.0045	0.000021	0.000052	0.011	0.0000061	2.2	0.00022	0.00011	0.00056
		September		12	0.0062	5.8	1.9	0.029	2.2	0.0065	0.0089	0.0027	0.014	0.00011	0.00067	0.0045	0.000021	0.000052	0.011	0.0000061	2.2	0.00022	0.00011	0.00056
		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	2036	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		11	0.0042	5.7	1.6	0.028	2.2	0.0061	0.0083	0.0025	0.013	0.00011	0.00051	0.0042	0.000021	0.000051	0.011	0.0000059	2.1	0.00019	0.00011	0.00054
		July		11	0.0044	5.7	1.7	0.028	2.2	0.0061	0.0083	0.0025	0.013	0.00011	0.00053	0.0043	0.000021	0.000051	0.011	0.000006	2.1	0.0002	0.00011	0.00054
		August		12	0.0056	5.8	1.8	0.029	2.2	0.0064	0.0087	0.0026	0.014	0.00011	0.00062	0.0044	0.000021	0.000053	0.011	0.0000061	2.2	0.00022	0.00011	0.00056
		September		12	0.0057	5.8	1.8	0.029	2.2	0.0064	0.0086	0.0026	0.014	0.00011	0.00063	0.0044	0.000021	0.000052	0.011	0.0000061	2.2	0.00022	0.00011	0.00056
		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

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1.0	0.05				0.004		0.25										0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	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
Downstream Node 1 (DS1)	*Closure, controlled discharge from pit lake*	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		0.04	0.000083	0.0011	0.72	0.0029	0.0000051	0.0001	0.00066	0.51	0.000053	0.00001	0.75	0.011	0.00001	0.0001	0.000049	0.00052	0.0029
		July		0.04	0.000083	0.0011	0.72	0.0029	0.0000051	0.0001	0.00067	0.51	0.000053	0.00001	0.75	0.011	0.00001	0.0001	0.00005	0.00052	0.0029
		August		0.042	0.000085	0.0011	0.76	0.0033	0.0000053	0.00012	0.00071	0.53	0.000055	0.000011	0.79	0.012	0.000011	0.0001	0.000056	0.00053	0.0029
		September		0.043	0.000085	0.0011	0.76	0.0033	0.0000052	0.00012	0.00071	0.52	0.000055	0.000011	0.79	0.012	0.000011	0.0001	0.000056	0.00053	0.0029
		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	2033	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		0.04	0.000083	0.001	0.71	0.0026	0.0000051	0.000094	0.00066	0.5	0.000053	0.00001	0.73	0.011	0.00001	0.0001	0.000047	0.00052	0.0029
		July		0.04	0.000083	0.0011	0.72	0.0027	0.0000051	0.000095	0.00066	0.51	0.000053	0.00001	0.73	0.011	0.00001	0.0001	0.000047	0.00052	0.0029
		August		0.042	0.000085	0.0011	0.75	0.003	0.0000053	0.00011	0.0007	0.52	0.000055	0.000011	0.77	0.011	0.000011	0.00011	0.000052	0.00054	0.0029
		September		0.043	0.000085	0.0011	0.75	0.003	0.0000053	0.00011	0.0007	0.52	0.000055	0.000011	0.77	0.011	0.000011	0.0001	0.000052	0.00053	0.0029
		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		0.04	0.000082	0.001	0.7	0.0025	0.0000051	0.000087	0.00065	0.5	0.000053	0.00001	0.72	0.01	0.00001	0.0001	0.000044	0.00052	0.0029
		July		0.04	0.000083	0.0011	0.71	0.0025	0.0000052	0.000088	0.00066	0.51	0.000053	0.00001	0.72	0.011	0.00001	0.0001	0.000045	0.00052	0.0029
		August		0.042	0.000084	0.0011	0.74	0.0028	0.0000053	0.000098	0.0007	0.52	0.000054	0.000011	0.75	0.011	0.000011	0.00011	0.000049	0.00054	0.0029
		September		0.043	0.000084	0.0011	0.74	0.0028	0.0000053	0.000098	0.0007	0.52	0.000054	0.000011	0.75	0.011	0.000011	0.00011	0.000049	0.00054	0.0029
		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		0.04	0.000082	0.001	0.7	0.0023	0.0000051	0.000081	0.00065	0.5	0.000052	0.00001	0.71	0.01	0.00001	0.0001	0.000042	0.00052	0.0029
		July		0.04	0.000082	0.001	0.7	0.0023	0.0000052	0.000082	0.00066	0.5	0.000053	0.00001	0.71	0.01	0.00001	0.0001	0.000043	0.00052	0.0029
		August		0.042	0.000084	0.0011	0.73	0.0026	0.0000053	0.00009	0.00069	0.52	0.000054	0.000011	0.73	0.011	0.000011	0.00011	0.000047	0.00054	0.0029
		September		0.043	0.000084	0.0011	0.73	0.0026	0.0000053	0.00009	0.0007	0.52	0.000054	0.000011	0.73	0.011	0.000011	0.00011	0.000047	0.00054	0.0029
		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		0.04	0.000082	0.001	0.7	0.0022	0.0000051	0.000076	0.00065	0.5	0.000052	0.00001	0.7	0.01	0.00001	0.0001	0.000041	0.00052	0.0029
		July		0.04	0.000082	0.001	0.7	0.0022	0.0000052	0.000077	0.00065	0.5	0.000053	0.00001	0.7	0.01	0.00001	0.0001	0.000041	0.00052	0.0029
		August		0.042	0.000084	0.0011	0.73	0.0025	0.0000053	0.000084	0.00069	0.51	0.000054	0.000011	0.72	0.011	0.000011	0.00011	0.000045	0.00054	0.0029
		September		0.043	0.000084	0.0011	0.73	0.0025	0.0000053	0.000084	0.00069	0.51	0.000054	0.000011	0.72	0.011	0.000011	0.00011	0.000045	0.00054	0.0029
		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

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				**1400**						**16**		**0.3**	**0.5**		**0.1**					**0.002**		**0.02**		**0.1**
CCME (CEQG-PAL [chronic])[2] (mg/L)							**120**	**0.12**			**2.93**	**0.01**	**0.1**		***0.025***				**1.5**	**0.00004**				**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**	**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**
Downstream Node 1 (DS1)	***Closure, controlled discharge from pit lake***	**January**	**2037**	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		11	0.0038	5.7	1.6	0.028	2.2	0.006	0.0081	0.0025	0.013	0.00011	0.00049	0.0042	0.000021	0.000051	0.011	0.0000059	2.1	0.00019	0.00011	0.00054
		July		11	0.004	5.7	1.6	0.028	2.2	0.006	0.0081	0.0025	0.013	0.00011	0.0005	0.0043	0.000021	0.000051	0.011	0.000006	2.1	0.00019	0.00011	0.00054
		August		12	0.0052	5.8	1.8	0.029	2.2	0.0063	0.0084	0.0026	0.014	0.00011	0.00059	0.0044	0.000021	0.000053	0.011	0.0000061	2.2	0.00022	0.00011	0.00056
		September		12	0.0052	5.8	1.8	0.029	2.2	0.0063	0.0084	0.0026	0.014	0.00011	0.00059	0.0044	0.000021	0.000052	0.011	0.0000061	2.2	0.00022	0.00011	0.00056
		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	**2038**	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		11	0.0035	5.7	1.6	0.028	2.2	0.0059	0.008	0.0025	0.013	0.00011	0.00046	0.0042	0.000021	0.000051	0.01	0.0000059	2.1	0.00019	0.00011	0.00054
		July		11	0.0037	5.7	1.6	0.028	2.2	0.0059	0.008	0.0025	0.013	0.00011	0.00048	0.0042	0.000021	0.000051	0.011	0.0000059	2.1	0.00019	0.00011	0.00054
		August		12	0.0048	5.8	1.7	0.029	2.2	0.0062	0.0083	0.0026	0.014	0.00011	0.00056	0.0044	0.000021	0.000053	0.011	0.0000061	2.1	0.00022	0.00011	0.00056
		September		12	0.0049	5.8	1.7	0.029	2.2	0.0062	0.0082	0.0026	0.014	0.00011	0.00057	0.0044	0.000021	0.000053	0.011	0.000006	2.1	0.00022	0.00011	0.00056
		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	**2039**	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		11	0.0033	5.7	1.5	0.028	2.2	0.0058	0.0078	0.0024	0.013	0.00011	0.00045	0.0042	0.000021	0.000051	0.01	0.0000059	2.1	0.00019	0.00011	0.00054
		July		11	0.0035	5.7	1.6	0.028	2.2	0.0059	0.0079	0.0025	0.013	0.00011	0.00046	0.0042	0.000021	0.000051	0.011	0.0000059	2.1	0.00019	0.00011	0.00054
		August		11	0.0045	5.8	1.7	0.029	2.2	0.0061	0.0081	0.0026	0.014	0.00011	0.00054	0.0044	0.000021	0.000053	0.011	0.000006	2.1	0.00022	0.00011	0.00056
		September		11	0.0046	5.8	1.7	0.028	2.2	0.0061	0.0081	0.0026	0.014	0.00011	0.00055	0.0044	0.000021	0.000053	0.011	0.000006	2.1	0.00022	0.00011	0.00056
		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
			MINIMUM	11	0.0033	5.7	1.5	0.028	2.2	0.0058	0.0078	0.0024	0.013	0.00011	0.00045	0.0042	0.000021	0.000051	0.01	0.0000059	2.1	0.00019	0.00011	0.00054
			MAXIMUM	14	0.02	6.3	2.6	0.03	2.5	0.009	0.051	0.0033	0.017	0.00012	0.0012	0.0049	0.000022	0.000053	0.013	0.0000066	2.4	0.00028	0.00013	0.00058
			AVERAGE	12	0.0085	5.9	2.0	0.029	2.3	0.007	0.015	0.0028	0.014	0.00011	0.00074	0.0045	0.000021	0.000052	0.011	0.0000061	2.2	0.00022	0.00011	0.00055

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.

[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)

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1.0	0.05				0.004		0.25										0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	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
Downstream Node 1 (DS1)	*Closure, controlled discharge from pit lake*	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		0.04	0.000082	0.001	0.69	0.0021	0.0000051	0.000072	0.00064	0.5	0.000052	0.00001	0.69	0.01	0.00001	0.0001	0.00004	0.00052	0.0029
		July		0.04	0.000082	0.001	0.7	0.0021	0.0000052	0.000073	0.00065	0.5	0.000052	0.00001	0.69	0.01	0.00001	0.0001	0.00004	0.00052	0.0029
		August		0.042	0.000084	0.0011	0.72	0.0023	0.0000053	0.000079	0.00069	0.51	0.000054	0.000011	0.71	0.011	0.000011	0.00011	0.000043	0.00054	0.0029
		September		0.043	0.000084	0.0011	0.72	0.0023	0.0000053	0.000079	0.00069	0.51	0.000054	0.000011	0.71	0.011	0.000011	0.00011	0.000043	0.00054	0.0029
		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	2038	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		0.04	0.000082	0.001	0.69	0.002	0.0000051	0.000069	0.00064	0.5	0.000052	0.00001	0.68	0.01	0.00001	0.0001	0.000039	0.00052	0.0029
		July		0.04	0.000082	0.001	0.69	0.0021	0.0000052	0.00007	0.00065	0.5	0.000052	0.00001	0.68	0.01	0.00001	0.0001	0.000039	0.00052	0.0029
		August		0.042	0.000084	0.0011	0.72	0.0022	0.0000053	0.000075	0.00069	0.51	0.000054	0.000011	0.7	0.011	0.000011	0.00011	0.000042	0.00054	0.0029
		September		0.043	0.000083	0.0011	0.72	0.0022	0.0000053	0.000075	0.00069	0.51	0.000054	0.000011	0.7	0.011	0.000011	0.00011	0.000042	0.00054	0.0029
		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	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	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		0.04	0.000082	0.001	0.69	0.002	0.0000051	0.000067	0.00064	0.5	0.000052	0.00001	0.68	0.01	0.00001	0.0001	0.000038	0.00052	0.0029
		July		0.04	0.000082	0.001	0.69	0.002	0.0000052	0.000067	0.00065	0.5	0.000052	0.00001	0.68	0.01	0.00001	0.0001	0.000038	0.00052	0.0029
		August		0.042	0.000084	0.0011	0.72	0.0022	0.0000053	0.000072	0.00068	0.51	0.000054	0.000011	0.7	0.011	0.000011	0.00011	0.000041	0.00054	0.0029
		September		0.043	0.000083	0.0011	0.72	0.0022	0.0000053	0.000072	0.00069	0.51	0.000054	0.000011	0.7	0.011	0.000011	0.00011	0.000041	0.00054	0.0029
		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
			MINIMUM	0.04	0.000082	0.001	0.69	0.002	0.0000051	0.000067	0.00064	0.5	0.000052	0.00001	0.68	0.01	0.00001	0.0001	0.000038	0.00052	0.0029
			MAXIMUM	0.048	0.000093	0.0011	0.82	0.0045	0.0000054	0.00017	0.0008	0.56	0.000059	0.000011	0.91	0.013	0.000011	0.00011	0.000068	0.00055	0.0032
			AVERAGE	0.042	0.000085	0.0011	0.74	0.003	0.0000052	0.00011	0.0007	0.52	0.000054	0.000011	0.77	0.011	0.00001	0.0001	0.00005	0.00053	0.0029

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.
[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 Approved 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
CCME (CEQG-PAL [chronic])[2] (mg/L)						120	0.12				2.93	0.01	0.1		*0.025*				1.5	0.00004				0.002
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	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
Downstream Node 2 (DS2)	*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
		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		13	0.0000036	5.7	2.3	0.029	2.2	0.0062	0.0087	0.0043	0.066	0.00011	0.00098	0.0053	0.000023	0.000054	0.011	0.0000062	2.5	0.0016	0.0002	0.00064
		July		12	0.000008	5.9	2.0	0.03	2.2	0.0062	0.0088	0.0046	0.078	0.00011	0.0011	0.0052	0.000023	0.000055	0.011	0.0000065	2.4	0.0019	0.00022	0.00067
		August		13	0.000015	5.6	2.4	0.03	2.1	0.0063	0.0092	0.0063	**0.13**	0.00011	0.0018	0.0059	0.000024	0.000055	0.011	0.0000065	2.5	0.0033	0.0003	0.00074
		September		12	0.000017	5.5	2.4	0.029	2.0	0.0062	0.0091	0.0065	**0.14**	0.00011	0.0019	0.0059	0.000024	0.000055	0.011	0.0000064	2.5	0.0035	0.00031	0.00074
		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	2019	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		12	0.000019	5.4	2.2	0.029	2.0	0.006	0.0086	0.006	**0.12**	0.00011	0.0017	0.0055	0.000023	0.000053	0.01	0.0000063	2.3	0.0032	0.00029	0.00071
		July		12	0.000021	5.6	2.1	0.029	2.1	0.0061	0.009	0.0058	**0.12**	0.00011	0.0016	0.0056	0.000024	0.000054	0.011	0.0000064	2.4	0.003	0.00028	0.00071
		August		12	0.000026	5.6	2.3	0.029	2.1	0.0062	0.0096	0.0062	**0.13**	0.00011	0.0018	0.0058	0.000024	0.000054	0.011	0.0000065	2.5	0.0033	0.0003	0.00073
		September		14	0.00025	5.7	2.9	0.029	2.2	0.0065	0.011	0.0058	**0.12**	0.00011	0.0016	0.0063	0.000025	0.000054	0.011	0.0000064	2.8	0.003	0.00028	0.00071
		October		17	0.0027	5.8	5.0	0.03	2.4	0.0078	0.02	0.006	**0.12**	0.00011	0.0017	0.0079	0.000029	0.000053	0.011	0.0000063	3.8	0.0031	0.00028	0.00071
		November		21	0.01	6.0	6.9	0.03	2.6	0.0093	0.04	0.0058	**0.11**	0.00011	0.0016	0.0092	0.000031	0.00005	0.011	0.0000061	4.6	0.0027	0.00026	0.00067
		December		25	0.023	6.4	8.9	0.032	2.9	0.012	0.071	0.0061	0.097	0.00011	0.0016	0.011	0.000034	0.000049	0.012	0.0000063	5.5	0.0025	0.00025	0.00066
		January	2020	26	0.025	6.5	9.3	0.032	3.0	0.012	0.077	0.0061	0.096	0.00011	0.0017	0.011	0.000035	0.000049	0.012	0.0000063	5.6	0.0025	0.00025	0.00066
		February		26	0.025	6.5	9.3	0.032	3.0	0.012	0.077	0.0061	0.096	0.00011	0.0017	0.011	0.000035	0.000049	0.012	0.0000063	5.6	0.0025	0.00025	0.00066
		March		26	0.025	6.5	9.3	0.032	3.0	0.012	0.077	0.0061	0.096	0.00011	0.0017	0.011	0.000035	0.000049	0.012	0.0000063	5.6	0.0025	0.00025	0.00066
		April		26	0.026	6.5	9.3	0.032	3.0	0.012	0.077	0.0061	0.096	0.00011	0.0017	0.011	0.000035	0.000049	0.012	0.0000063	5.7	0.0025	0.00025	0.00066
		May		26	0.026	6.5	9.3	0.032	3.0	0.012	0.077	0.0061	0.096	0.00011	0.0017	0.011	0.000035	0.000049	0.012	0.0000063	5.7	0.0025	0.00025	0.00066
		June		39	0.11	8.9	15	0.041	4.2	0.024	0.26	0.0085	0.073	0.00013	0.0022	0.013	0.000037	0.000052	0.023	0.000009	7.3	0.0018	0.00026	0.00073
		July		53	0.19	12	21	0.054	5.6	0.039	0.49	**0.012**	0.078	0.00017	0.0033	0.017	0.00004	0.000058	0.036	0.000013	9.2	0.002	0.00032	0.0009
		August		55	0.19	12	22	0.055	5.7	0.04	0.51	**0.012**	0.08	0.00017	0.0034	0.017	0.000041	0.000059	0.037	0.000013	9.3	0.0021	0.00033	0.00092
		September		49	0.16	11	19	0.052	5.3	0.037	0.46	**0.011**	0.073	0.00016	0.003	0.015	0.000037	0.000058	0.035	0.000012	8.3	0.0019	0.00031	0.00088
		October		54	0.18	12	21	0.055	5.6	0.041	0.53	**0.013**	0.082	0.00017	0.0035	0.016	0.000038	0.000059	0.038	0.000013	8.9	0.0021	0.00034	0.00093
		November		53	0.18	12	21	0.054	5.6	0.041	0.53	**0.013**	0.081	0.00017	0.0035	0.016	0.000037	0.000058	0.038	0.000013	8.8	0.0021	0.00034	0.00092
		December		53	0.18	12	21	0.054	5.5	0.041	0.53	**0.013**	0.081	0.00017	0.0036	0.016	0.000037	0.000058	0.038	0.000013	8.7	0.0021	0.00034	0.00092
		January	2021	53	0.18	12	21	0.054	5.5	0.041	0.53	**0.013**	0.08	0.00017	0.0036	0.016	0.000036	0.000058	0.038	0.000013	8.6	0.0021	0.00034	0.00091
		February		52	0.17	12	21	0.054	5.5	0.041	0.52	**0.013**	0.08	0.00017	0.0037	0.016	0.000036	0.000057	0.038	0.000013	8.5	0.0021	0.00034	0.00091
		March		52	0.17	12	21	0.053	5.4	0.041	0.52	**0.013**	0.08	0.00017	0.0038	0.016	0.000036	0.000057	0.038	0.000013	8.5	0.0021	0.00034	0.00091
		April		52	0.17	12	20	0.053	5.4	0.041	0.52	**0.013**	0.08	0.00017	0.0039	0.015	0.000035	0.000057	0.038	0.000013	8.4	0.0021	0.00034	0.0009
		May		52	0.17	12	20	0.053	5.4	0.041	0.52	**0.013**	0.08	0.00017	0.0041	0.015	0.000035	0.000056	0.038	0.000013	8.3	0.0021	0.00034	0.0009
		June		44	0.15	11	17	0.049	5.0	0.034	0.43	**0.011**	0.068	0.00019	0.0053	0.013	0.00003	0.000055	0.037	0.000012	6.9	0.0018	0.00031	0.00086
		July		51	0.18	13	20	0.056	5.8	0.04	0.49	**0.014**	0.081	0.00023	0.0075	0.015	0.000032	0.00006	0.046	0.000014	7.8	0.0022	0.00038	0.00099
		August		52	0.17	13	20	0.057	5.9	0.041	0.49	**0.014**	0.082	0.00023	0.0075	0.015	0.000033	0.000062	0.047	0.000014	7.8	0.0022	0.00039	0.001
		September		49	0.15	13	18	0.055	5.6	0.039	0.45	**0.014**	0.079	0.00022	0.0069	0.014	0.000032	0.000061	0.045	0.000014	7.4	0.0021	0.00037	0.00098
		October		55	0.17	14	21	0.059	6.1	0.045	0.52	**0.016**	0.09	0.00024	0.0079	0.016	0.000033	0.000063	0.05	0.000015	8.2	0.0024	0.00041	0.0011
		November		55	0.17	14	21	0.059	6.1	0.045	0.52	**0.016**	0.09	0.00024	0.0079	0.015	0.000033	0.000062	0.05	0.000015	8.2	0.0024	0.00041	0.001
		December		55	0.17	13	21	0.058	6.1	0.045	0.52	**0.016**	0.089	0.00024	0.0079	0.015	0.000032	0.000062	0.05	0.000015	8.1	0.0024	0.00041	0.001
		January	2022	54	0.17	13	21	0.058	6.0	0.045	0.52	**0.016**	0.089	0.00023	0.008	0.015	0.000032	0.000061	0.05	0.000015	8.1	0.0024	0.00041	0.001
		February		54	0.17	13	21	0.058	6.0	0.045	0.52	**0.016**	0.089	0.00023	0.008	0.015	0.000032	0.000061	0.05	0.000015	8.0	0.0024	0.00041	0.001
		March		54	0.17	13	21	0.057	6.0	0.045	0.52	**0.016**	0.089	0.00023	0.008	0.015	0.000032	0.00006	0.05	0.000015	8.0	0.0024	0.00041	0.001
		April		53	0.17	13	20	0.057	5.9	0.045	0.52	**0.016**	0.088	0.00024	0.0081	0.015	0.000031	0.00006	0.05	0.000015	7.9	0.0024	0.0004	0.001
		May		53	0.17	13	20	0.057	5.9	0.045	0.52	**0.015**	0.088	0.00024	0.0082	0.015	0.000031	0.000059	0.049	0.000015	7.9	0.0024	0.0004	0.001
		June		42	0.16	11	15	0.049	5.1	0.037	0.43	**0.013**	0.072	0.00023	0.008	0.012	0.000028	0.000056	0.041	0.000012	6.3	0.0019	0.00034	0.00091
		July		46	0.19	12	16	0.052	5.5	0.043	0.5	**0.014**	0.082	0.00026	0.0097	0.013	0.00003	0.00006	0.046	0.000013	6.7	0.0022	0.00039	0.00099
			MINIMUM	12	0.0000036	5.4	2.0	0.029	2.0	0.006	0.0086	0.0043	0.066	0.00011	0.00098	0.0052	0.000023	0.000049	0.01	0.0000061	2.3	0.0016	0.0002	0.00064
			MAXIMUM	55	0.19	14	22	0.059	6.1	0.045	0.53	**0.016**	**0.14**	0.00026	0.0097	0.017	0.000041	0.000063	0.05	0.000015	9.3	0.0035	0.00041	0.0011
			AVERAGE	39	0.11	9.9	14	0.045	4.4	0.029	0.32	**0.011**	0.091	0.00017	0.0042	0.012	0.000032	0.000056	0.03	0.000011	6.5	0.0024	0.00032	0.00085

Site and Downstream Water Quality Model Predictions
Whale Tail Approved 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
CCME (CEQG-PAL [chronic])[2] (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	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
Downstream Node 2 (DS2)	*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		0.15	0.0001	0.0011	0.85	0.0039	0.0000054	0.00006	0.0014	0.56	0.000055	0.000013	0.67	0.014	0.000012	0.00011	0.000034	0.00069	0.003
		July		0.17	0.00011	0.0012	0.84	0.0041	0.0000055	0.000061	0.0015	0.56	0.000056	0.000013	0.68	0.012	0.000012	0.00011	0.000037	0.00072	0.003
		August		0.28	0.00012	0.0012	0.93	0.0061	0.0000054	0.000063	0.0022	0.58	0.000056	0.000015	0.66	0.014	0.000013	0.00011	0.000039	0.00085	0.0028
		September		0.3	0.00013	0.0012	0.94	0.0063	0.0000054	0.000063	0.0023	0.57	0.000055	0.000015	0.65	0.014	0.000013	0.00011	0.00004	0.00087	0.0027
		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	2019	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		0.27	0.00012	0.0011	0.88	0.0058	0.0000052	0.0000061	0.0021	0.55	0.0000054	0.0000014	0.64	0.013	0.000012	0.00011	0.000038	0.00082	0.0027
		July		0.26	0.00012	0.0012	0.88	0.0056	0.0000053	0.000062	0.002	0.56	0.000055	0.000014	0.65	0.013	0.000012	0.00011	0.000039	0.00081	0.0028
		August		0.28	0.00013	0.0012	0.92	0.006	0.0000054	0.000064	0.0022	0.57	0.000055	0.000015	0.66	0.014	0.000013	0.00011	0.00004	0.00085	0.0027
		September		0.25	0.00012	0.0013	0.94	0.0055	0.0000053	0.000072	0.002	0.61	0.000055	0.000014	0.68	0.017	0.000012	0.00011	0.000039	0.00081	0.0028
		October		0.26	0.00012	0.0017	1.1	0.0059	0.0000052	0.00011	0.0022	0.71	0.000054	0.000014	0.76	0.027	0.000012	0.00011	0.000044	0.00081	0.0027
		November		0.23	0.00011	0.0019	1.2	0.006	0.0000049	0.00017	0.002	0.79	0.000052	0.000013	0.87	0.035	0.000011	0.0001	0.000056	0.00074	0.0026
		December		0.21	0.00011	0.0022	1.4	0.0068	0.0000049	0.00026	0.002	0.89	0.000054	0.000013	1.1	0.044	0.000011	0.000099	0.000081	0.00072	0.0026
		January	2020	0.21	0.00011	0.0022	1.4	0.007	0.0000049	0.00028	0.002	0.9	0.000054	0.000013	1.1	0.045	0.000011	0.000099	0.000086	0.00071	0.0026
		February		0.21	0.00011	0.0022	1.4	0.007	0.0000049	0.00028	0.002	0.9	0.000054	0.000013	1.1	0.045	0.000011	0.000099	0.000086	0.00071	0.0026
		March		0.21	0.00011	0.0022	1.4	0.007	0.0000049	0.00028	0.002	0.9	0.000054	0.000013	1.1	0.045	0.000011	0.000099	0.000086	0.00071	0.0026
		April		0.21	0.00011	0.0022	1.4	0.007	0.0000049	0.00028	0.002	0.9	0.000054	0.000013	1.1	0.045	0.000011	0.000099	0.000086	0.00071	0.0026
		May		0.21	0.00011	0.0022	1.4	0.007	0.0000049	0.00028	0.002	0.9	0.000054	0.000013	1.1	0.045	0.000011	0.000099	0.000086	0.00071	0.0026
		June		0.16	0.00012	0.0026	2.1	0.014	0.0000051	0.00088	0.0021	1.1	0.000073	0.000013	2.4	0.059	0.000011	0.0001	0.00026	0.00067	0.003
		July		0.18	0.00016	0.0031	2.9	0.024	0.0000057	0.0016	0.0026	1.3	0.000099	0.000015	3.9	0.074	0.000013	0.00012	0.00047	0.00074	0.0036
		August		0.18	0.00016	0.0031	3.0	0.025	0.0000059	0.0016	0.0026	1.3	0.0001	0.000015	4.0	0.074	0.000013	0.00012	0.00049	0.00076	0.0036
		September		0.17	0.00016	0.0028	2.7	0.023	0.0000058	0.0015	0.0024	1.2	0.000097	0.000015	3.7	0.065	0.000013	0.00012	0.00045	0.00073	0.0036
		October		0.19	0.00017	0.003	3.0	0.026	0.0000058	0.0017	0.0026	1.2	0.0001	0.000015	4.1	0.071	0.000013	0.00012	0.00051	0.00075	0.0036
		November		0.18	0.00017	0.0029	2.9	0.026	0.0000057	0.0017	0.0026	1.2	0.0001	0.000015	4.1	0.07	0.000013	0.00012	0.00051	0.00075	0.0036
		December		0.18	0.00017	0.0029	2.9	0.026	0.0000057	0.0017	0.0026	1.2	0.0001	0.000015	4.1	0.069	0.000013	0.00011	0.00051	0.00075	0.0036
		January	2021	0.18	0.00017	0.0028	2.9	0.026	0.0000057	0.0017	0.0025	1.2	0.0001	0.000015	4.1	0.068	0.000013	0.00011	0.00051	0.00074	0.0035
		February		0.18	0.00016	0.0028	2.9	0.026	0.0000056	0.0017	0.0025	1.2	0.0001	0.000015	4.1	0.068	0.000012	0.00011	0.00051	0.00074	0.0035
		March		0.18	0.00016	0.0028	2.9	0.026	0.0000056	0.0017	0.0025	1.2	0.0001	0.000015	4.1	0.067	0.000012	0.00011	0.00051	0.00074	0.0035
		April		0.18	0.00016	0.0028	2.9	0.026	0.0000056	0.0017	0.0025	1.2	0.0001	0.000015	4.1	0.067	0.000012	0.00011	0.00051	0.00073	0.0035
		May		0.18	0.00016	0.0027	2.8	0.027	0.0000055	0.0017	0.0025	1.2	0.0001	0.000015	4.1	0.066	0.000012	0.00011	0.00051	0.00073	0.0035
		June		0.16	0.00016	0.0023	2.4	0.026	0.0000055	0.0014	0.0023	1.0	0.0001	0.000014	3.6	0.053	0.000012	0.00011	0.00044	0.0007	0.0034
		July		0.2	0.00019	0.0025	2.9	0.033	0.000006	0.0018	0.0027	1.2	0.00013	0.000016	4.4	0.059	0.000013	0.00012	0.00055	0.00079	0.0037
		August		0.2	0.0002	0.0025	2.9	0.034	0.0000062	0.0018	0.0027	1.2	0.00013	0.000016	4.5	0.059	0.000013	0.00012	0.00056	0.00081	0.0038
		September		0.19	0.00019	0.0024	2.8	0.032	0.0000061	0.0017	0.0026	1.1	0.00012	0.000016	4.3	0.056	0.000013	0.00012	0.00053	0.0008	0.0038
		October		0.21	0.00021	0.0026	3.1	0.037	0.0000063	0.002	0.0029	1.2	0.00014	0.000017	4.9	0.063	0.000014	0.00012	0.00061	0.00084	0.0039
		November		0.21	0.00021	0.0026	3.1	0.037	0.0000062	0.002	0.0029	1.2	0.00013	0.000017	4.8	0.062	0.000014	0.00012	0.00061	0.00084	0.0038
		December		0.21	0.0002	0.0026	3.1	0.036	0.0000062	0.002	0.0029	1.2	0.00013	0.000017	4.8	0.062	0.000014	0.00012	0.0006	0.00083	0.0038
		January	2022	0.21	0.0002	0.0026	3.1	0.036	0.0000061	0.002	0.0028	1.2	0.00013	0.000017	4.8	0.062	0.000013	0.00012	0.0006	0.00083	0.0038
		February		0.21	0.0002	0.0025	3.0	0.036	0.0000061	0.0019	0.0028	1.2	0.00013	0.000017	4.8	0.061	0.000013	0.00012	0.0006	0.00082	0.0038
		March		0.21	0.0002	0.0025	3.0	0.036	0.0000061	0.0019	0.0028	1.2	0.00013	0.000017	4.8	0.061	0.000013	0.00012	0.0006	0.00082	0.0037
		April		0.21	0.0002	0.0025	3.0	0.036	0.000006	0.0019	0.0028	1.2	0.00013	0.000016	4.7	0.06	0.000013	0.00012	0.00059	0.00081	0.0037
		May		0.21	0.0002	0.0025	3.0	0.036	0.000006	0.0019	0.0028	1.2	0.00013	0.000016	4.7	0.06	0.000013	0.00012	0.00059	0.00081	0.0037
		June		0.18	0.00018	0.0021	2.4	0.03	0.0000057	0.0014	0.0025	1.0	0.00012	0.000015	3.7	0.046	0.000012	0.00011	0.00045	0.00074	0.0034
		July		0.2	0.00019	0.0022	2.5	0.034	0.0000062	0.0015	0.0028	1.1	0.00013	0.000017	4.0	0.049	0.000013	0.00012	0.00048	0.00082	0.0036
			MINIMUM	0.15	0.0001	0.0011	0.84	0.0039	0.0000049	0.00006	0.0014	0.55	0.000052	0.000013	0.64	0.012	0.000011	0.000099	0.000034	0.00067	0.0026
			MAXIMUM	0.3	0.00021	0.0031	3.1	0.037	0.0000063	0.002	0.0029	1.3	0.00014	0.000017	4.9	0.074	0.000014	0.00012	0.00061	0.00087	0.0039
			AVERAGE	0.21	0.00015	0.0023	2.2	0.021	0.0000056	0.0011	0.0024	1.0	0.000092	0.000015	2.9	0.049	0.000012	0.00011	0.00034	0.00077	0.0033

Site and Downstream Water Quality Model Predictions
Whale Tail Approved 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
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12				2.93	0.01	0.1		*0.025*				1.5	0.00004				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	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
Downstream Node 2 (DS2)	*Closure, no mine contact water discharge*	August	2022	33	0.11	9.8	10	0.044	4.3	0.029	0.32	0.0097	0.056	0.00021	0.0061	0.0097	0.000027	0.000059	0.032	0.000011	5.0	0.0014	0.00028	0.00084
		September		37	0.14	11	13	0.047	4.7	0.034	0.39	**0.011**	0.066	0.00023	0.0073	0.011	0.000028	0.00006	0.037	0.000012	5.6	0.0017	0.00032	0.0009
		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	2023	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		34	0.12	10.0	11	0.044	4.4	0.032	0.35	**0.01**	0.06	0.00021	0.0063	0.010	0.000027	0.000058	0.034	0.000011	5.2	0.0015	0.00029	0.00085
		July		21	0.05	7.9	5.6	0.036	3.3	0.018	0.16	0.0059	0.034	0.00015	0.0028	0.0069	0.000025	0.000058	0.021	0.0000085	3.5	0.00075	0.00019	0.0007
		August		25	0.07	8.5	7.3	0.039	3.6	0.022	0.22	0.0073	0.042	0.00017	0.0038	0.0078	0.000025	0.000058	0.025	0.0000092	4.0	0.0010	0.00022	0.00075
		September		29	0.088	9.1	8.8	0.041	3.9	0.026	0.27	0.0085	0.049	0.00018	0.0047	0.0086	0.000026	0.000058	0.028	0.0000099	4.4	0.0012	0.00025	0.00079
		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	2024	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		26	0.078	8.5	7.7	0.039	3.6	0.024	0.24	0.0075	0.044	0.00017	0.0041	0.0079	0.000025	0.000057	0.025	0.0000092	4.1	0.0011	0.00023	0.00075
		July		18	0.036	7.3	4.1	0.034	3.0	0.014	0.11	0.0047	0.027	0.00014	0.002	0.006	0.000024	0.000057	0.018	0.0000078	3.0	0.00053	0.00016	0.00066
		August		20	0.05	7.7	5.2	0.035	3.2	0.017	0.15	0.0056	0.032	0.00015	0.0027	0.0066	0.000024	0.000057	0.02	0.0000082	3.3	0.0007	0.00018	0.00069
		September		23	0.065	8.0	6.2	0.037	3.4	0.02	0.19	0.0064	0.037	0.00016	0.0033	0.0072	0.000025	0.000057	0.022	0.0000086	3.6	0.00084	0.0002	0.00071
		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	2025	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		21	0.062	7.7	5.6	0.035	3.2	0.018	0.17	0.0058	0.033	0.00015	0.0031	0.0068	0.000024	0.000056	0.021	0.0000082	3.4	0.00075	0.00019	0.00069
		July		16	0.03	7.0	3.3	0.033	2.8	0.012	0.082	0.004	0.022	0.00013	0.0015	0.0056	0.000023	0.000057	0.016	0.0000074	2.8	0.00041	0.00015	0.00064
		August		18	0.042	7.2	4.0	0.034	2.9	0.014	0.11	0.0046	0.026	0.00014	0.0021	0.006	0.000024	0.000057	0.017	0.0000077	3.0	0.00052	0.00016	0.00066
		September		20	0.054	7.5	4.8	0.035	3.1	0.016	0.14	0.0052	0.029	0.00015	0.0026	0.0064	0.000024	0.000057	0.019	0.000008	3.3	0.00063	0.00018	0.00068
		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	2026	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		19	0.052	7.3	4.5	0.034	3.0	0.015	0.13	0.0049	0.028	0.00015	0.0025	0.0062	0.000024	0.000056	0.018	0.0000077	3.1	0.00058	0.00017	0.00066
		July		15	0.025	6.8	2.8	0.032	2.7	0.01	0.065	0.0036	0.02	0.00013	0.0013	0.0053	0.000023	0.000057	0.015	0.0000072	2.7	0.00034	0.00014	0.00063
		August		16	0.035	7.0	3.4	0.033	2.8	0.012	0.087	0.0041	0.022	0.00014	0.0017	0.0057	0.000023	0.000057	0.016	0.0000073	2.8	0.00042	0.00015	0.00064
		September		18	0.045	7.2	4.0	0.034	3.0	0.014	0.11	0.0045	0.025	0.00014	0.0021	0.006	0.000024	0.000057	0.017	0.0000076	3.0	0.0005	0.00016	0.00066
		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	2027	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		18	0.045	7.1	4.0	0.033	2.9	0.013	0.11	0.0044	0.024	0.00014	0.0021	0.006	0.000023	0.000056	0.017	0.0000075	3.0	0.00049	0.00016	0.00065
			MINIMUM	15	0.025	6.8	2.8	0.032	2.7	0.01	0.065	0.0036	0.02	0.00013	0.0013	0.0053	0.000023	0.000056	0.015	0.0000072	2.7	0.00034	0.00014	0.00063
			MAXIMUM	37	0.14	11	13	0.047	4.7	0.034	0.39	**0.011**	0.066	0.00023	0.0073	0.011	0.000028	0.00006	0.037	0.000012	5.6	0.0017	0.00032	0.0009
			AVERAGE	22	0.063	8.0	6.1	0.037	3.3	0.019	0.18	0.0062	0.036	0.00016	0.0033	0.0071	0.000025	0.000057	0.022	0.0000086	3.6	0.00081	0.0002	0.00071

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1.0	0.05				0.004		0.25										0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	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
Downstream Node 2 (DS2)	*Closure, no mine contact water discharge*	August	2022	0.14	0.00015	0.0018	1.8	0.021	0.000006	0.00097	0.002	0.88	0.0001	0.000015	2.7	0.034	0.000013	0.00012	0.00031	0.00072	0.0035
		September		0.16	0.00017	0.0019	2.1	0.026	0.0000061	0.0012	0.0023	0.96	0.00011	0.000015	3.2	0.039	0.000013	0.00012	0.00037	0.00076	0.0036
		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	2023	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		0.15	0.00016	0.0018	1.9	0.023	0.0000059	0.001	0.0021	0.89	0.00011	0.000015	2.9	0.036	0.000013	0.00012	0.00033	0.00073	0.0035
		July		0.088	0.00012	0.0014	1.2	0.011	0.0000058	0.00048	0.0013	0.7	0.000078	0.000013	1.7	0.021	0.000012	0.00012	0.00016	0.00064	0.0035
		August		0.11	0.00013	0.0015	1.4	0.014	0.0000058	0.00065	0.0015	0.75	0.000086	0.000013	2.0	0.025	0.000012	0.00012	0.00021	0.00067	0.0035
		September		0.12	0.00014	0.0017	1.6	0.017	0.0000059	0.00079	0.0017	0.81	0.000093	0.000014	2.3	0.029	0.000012	0.00012	0.00026	0.00069	0.0035
		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	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		0.11	0.00013	0.0015	1.5	0.015	0.0000057	0.00068	0.0016	0.76	0.000086	0.000013	2.1	0.026	0.000012	0.00011	0.00022	0.00066	0.0034
		July		0.07	0.00011	0.0013	1.1	0.0076	0.0000057	0.00033	0.001	0.64	0.00007	0.000012	1.3	0.017	0.000012	0.00011	0.00012	0.00061	0.0034
		August		0.083	0.00012	0.0014	1.2	0.0099	0.0000057	0.00043	0.0012	0.68	0.000075	0.000013	1.5	0.02	0.000012	0.00011	0.00015	0.00063	0.0034
		September		0.094	0.00012	0.0015	1.3	0.012	0.0000058	0.00053	0.0014	0.72	0.00008	0.000013	1.8	0.023	0.000012	0.00011	0.00018	0.00065	0.0034
		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	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		0.086	0.00012	0.0014	1.2	0.011	0.0000057	0.00047	0.0013	0.69	0.000077	0.000013	1.6	0.021	0.000012	0.00011	0.00016	0.00063	0.0034
		July		0.061	0.0001	0.0013	0.95	0.0059	0.0000057	0.00024	0.00094	0.62	0.000066	0.000012	1.1	0.015	0.000012	0.00011	0.000089	0.0006	0.0034
		August		0.069	0.00011	0.0013	1.0	0.0076	0.0000057	0.00031	0.0011	0.64	0.00007	0.000012	1.3	0.017	0.000012	0.00011	0.00011	0.00061	0.0034
		September		0.077	0.00011	0.0014	1.1	0.0092	0.0000058	0.00038	0.0012	0.67	0.000074	0.000013	1.4	0.019	0.000012	0.00011	0.00013	0.00062	0.0034
		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	2026	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		0.073	0.00011	0.0013	1.1	0.0086	0.0000057	0.00035	0.0011	0.66	0.000072	0.000012	1.4	0.018	0.000012	0.00011	0.00012	0.00061	0.0034
		July		0.055	0.0001	0.0012	0.9	0.0049	0.0000057	0.00019	0.00088	0.6	0.000064	0.000012	1.0	0.014	0.000012	0.00011	0.000074	0.00059	0.0034
		August		0.061	0.0001	0.0013	0.96	0.0062	0.0000057	0.00024	0.00098	0.62	0.000067	0.000012	1.1	0.016	0.000012	0.00011	0.00009	0.0006	0.0034
		September		0.067	0.00011	0.0013	1.0	0.0075	0.0000058	0.0003	0.0011	0.65	0.00007	0.000012	1.3	0.017	0.000012	0.00011	0.00011	0.00061	0.0034
		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		0.065	0.00011	0.0013	1.0	0.0074	0.0000057	0.00029	0.0011	0.65	0.000069	0.000012	1.2	0.017	0.000012	0.00011	0.0001	0.0006	0.0034
			MINIMUM	0.055	0.0001	0.0012	0.9	0.0049	0.0000057	0.00019	0.00088	0.6	0.000064	0.000012	1.0	0.014	0.000012	0.00011	0.000074	0.00059	0.0034
			MAXIMUM	0.16	0.00017	0.0019	2.1	0.026	0.0000061	0.0012	0.0023	0.96	0.00011	0.000015	3.2	0.039	0.000013	0.00012	0.00037	0.00076	0.0036
			AVERAGE	0.092	0.00012	0.0015	1.3	0.012	0.0000058	0.00052	0.0013	0.71	0.00008	0.000013	1.7	0.022	0.000012	0.00012	0.00017	0.00064	0.0034

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1400							16		0.3	0.5		0.1					0.002		0.02		0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12				2.93	0.01	0.1		0.025				1.5	0.00004				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	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
Downstream Node 2 (DS2)	*Closure, controlled discharge from pit lake*	July	2027	19	0.054	7.3	4.6	0.034	3.0	0.015	0.12	0.0048	0.026	0.00015	0.0025	0.0064	0.000024	0.000057	0.018	0.0000077	3.2	0.00055	0.00017	0.00067
		August		19	0.056	7.4	4.7	0.035	3.1	0.015	0.13	0.0049	0.026	0.00015	0.0025	0.0065	0.000024	0.000058	0.018	0.0000078	3.3	0.00056	0.00017	0.00068
		September		19	0.056	7.3	4.7	0.034	3.1	0.015	0.12	0.0048	0.026	0.00015	0.0026	0.0065	0.000024	0.000057	0.018	0.0000076	3.3	0.00055	0.00017	0.00067
		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	2028	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		19	0.061	7.0	5.1	0.033	3.0	0.016	0.12	0.0049	0.025	0.00015	0.0029	0.0065	0.000023	0.000054	0.018	0.0000073	3.3	0.00057	0.00017	0.00064
		July		21	0.067	7.2	5.8	0.034	3.1	0.017	0.12	0.0054	0.026	0.00016	0.0035	0.0069	0.000023	0.000054	0.019	0.0000076	3.5	0.00062	0.00018	0.00066
		August		21	0.066	7.3	5.8	0.035	3.1	0.017	0.11	0.0055	0.026	0.00016	0.0035	0.007	0.000024	0.000056	0.019	0.0000078	3.6	0.00062	0.00018	0.00068
		September		20	0.061	7.2	5.6	0.035	3.1	0.016	0.096	0.0054	0.025	0.00016	0.0034	0.0069	0.000023	0.000056	0.019	0.0000077	3.5	0.00059	0.00018	0.00067
		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	2029	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		19	0.051	6.8	5.2	0.033	2.8	0.015	0.068	0.005	0.022	0.00015	0.0032	0.0064	0.000022	0.000053	0.017	0.0000072	3.2	0.00052	0.00016	0.00063
		July		19	0.049	6.8	5.3	0.034	2.8	0.015	0.054	0.0051	0.021	0.00015	0.0033	0.0065	0.000022	0.000053	0.017	0.0000073	3.3	0.00053	0.00017	0.00064
		August		19	0.048	7.0	5.4	0.035	2.9	0.015	0.052	0.0052	0.021	0.00015	0.0033	0.0066	0.000023	0.000055	0.018	0.0000075	3.3	0.00053	0.00017	0.00065
		September		19	0.044	6.9	5.1	0.035	2.9	0.014	0.045	0.005	0.021	0.00015	0.0031	0.0065	0.000023	0.000055	0.017	0.0000074	3.3	0.0005	0.00017	0.00065
		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	2030	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		17	0.038	6.5	4.7	0.033	2.7	0.013	0.033	0.0046	0.019	0.00014	0.0028	0.006	0.000022	0.000052	0.016	0.000007	3.0	0.00046	0.00015	0.00061
		July		18	0.038	6.6	4.8	0.034	2.7	0.013	0.029	0.0047	0.019	0.00014	0.0029	0.0062	0.000022	0.000053	0.016	0.0000071	3.1	0.00048	0.00016	0.00063
		August		18	0.038	6.7	4.8	0.034	2.7	0.013	0.028	0.0048	0.02	0.00014	0.0029	0.0063	0.000023	0.000055	0.016	0.0000072	3.1	0.00049	0.00016	0.00064
		September		18	0.035	6.7	4.6	0.034	2.7	0.013	0.026	0.0046	0.019	0.00014	0.0027	0.0062	0.000023	0.000055	0.016	0.0000072	3.1	0.00047	0.00016	0.00064
		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	2031	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		16	0.031	6.3	4.3	0.032	2.5	0.012	0.021	0.0043	0.018	0.00013	0.0025	0.0058	0.000022	0.000052	0.015	0.0000068	2.9	0.00045	0.00015	0.00061
		July		17	0.032	6.4	4.4	0.033	2.6	0.012	0.02	0.0044	0.019	0.00014	0.0025	0.0059	0.000022	0.000054	0.015	0.0000069	2.9	0.00047	0.00015	0.00062
		August		17	0.032	6.6	4.4	0.034	2.6	0.012	0.02	0.0044	0.019	0.00014	0.0025	0.0061	0.000023	0.000055	0.015	0.000007	3.0	0.00048	0.00016	0.00064
		September		17	0.03	6.5	4.2	0.034	2.6	0.012	0.019	0.0043	0.019	0.00014	0.0024	0.006	0.000023	0.000055	0.015	0.000007	3.0	0.00046	0.00015	0.00064
		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

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1.0	0.05				0.004		0.25										0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	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
		July		0.069	0.00011	0.0013	1.1	0.0084	0.0000058	0.00032	0.0012	0.68	0.000072	0.000012	1.3	0.019	0.000012	0.00012	0.00011	0.00062	0.0034
		August		0.07	0.00011	0.0014	1.1	0.0086	0.0000059	0.00033	0.0012	0.69	0.000074	0.000013	1.3	0.02	0.000012	0.00012	0.00011	0.00063	0.0035
		September		0.068	0.00011	0.0013	1.1	0.0086	0.0000058	0.00032	0.0012	0.69	0.000073	0.000012	1.3	0.02	0.000012	0.00012	0.00011	0.00062	0.0034
		October	2027	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		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		0.067	0.00011	0.0013	1.1	0.0096	0.0000055	0.00036	0.0012	0.67	0.000071	0.000012	1.3	0.021	0.000011	0.00011	0.00013	0.00059	0.0031
		July	2028	0.07	0.00011	0.0013	1.2	0.011	0.0000056	0.00042	0.0013	0.7	0.000074	0.000012	1.5	0.022	0.000011	0.00011	0.00015	0.0006	0.003
		August		0.071	0.00011	0.0014	1.2	0.011	0.0000057	0.00043	0.0013	0.71	0.000075	0.000012	1.5	0.023	0.000012	0.00011	0.00015	0.00062	0.003
		September		0.068	0.00011	0.0014	1.2	0.011	0.0000057	0.00041	0.0013	0.7	0.000074	0.000012	1.4	0.022	0.000012	0.00011	0.00015	0.00061	0.003
		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		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		0.062	0.000099	0.0013	1.1	0.01	0.0000054	0.00039	0.0011	0.65	0.000069	0.000011	1.3	0.021	0.000011	0.00011	0.00014	0.00057	0.0027
		July	2029	0.063	0.000099	0.0013	1.2	0.011	0.0000055	0.0004	0.0012	0.66	0.000069	0.000011	1.4	0.021	0.000011	0.00011	0.00015	0.00058	0.0026
		August		0.063	0.0001	0.0013	1.2	0.011	0.0000056	0.0004	0.0012	0.67	0.000071	0.000012	1.4	0.021	0.000011	0.00011	0.00015	0.0006	0.0027
Downstream Node 2 (DS2)	*Closure, controlled discharge from pit lake*	September		0.062	0.00010	0.0013	1.1	0.01	0.0000056	0.00038	0.0011	0.66	0.00007	0.000012	1.3	0.021	0.000011	0.00011	0.00014	0.0006	0.0027
		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		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		0.058	0.000093	0.0012	1.1	0.0091	0.0000053	0.00034	0.0011	0.62	0.000065	0.000011	1.2	0.019	0.000011	0.00011	0.00013	0.00057	0.0025
		July	2030	0.059	0.000094	0.0013	1.1	0.0093	0.0000055	0.00035	0.0011	0.63	0.000066	0.000011	1.2	0.02	0.000011	0.00011	0.00014	0.00058	0.0025
		August		0.06	0.000097	0.0013	1.1	0.0093	0.0000056	0.00035	0.0011	0.64	0.000068	0.000012	1.3	0.02	0.000011	0.00011	0.00014	0.00059	0.0025
		September		0.059	0.000096	0.0013	1.1	0.0088	0.0000056	0.00033	0.0011	0.64	0.000067	0.000012	1.2	0.019	0.000011	0.00011	0.00013	0.00059	0.0026
		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		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		0.056	0.00009	0.0012	1.0	0.008	0.0000054	0.00029	0.001	0.6	0.000063	0.000011	1.1	0.018	0.000011	0.00011	0.00012	0.00056	0.0024
		July	2031	0.058	0.000092	0.0012	1.0	0.0081	0.0000055	0.0003	0.001	0.61	0.000065	0.000011	1.1	0.019	0.000011	0.00011	0.00012	0.00058	0.0024
		August		0.059	0.000094	0.0013	1.1	0.0081	0.0000056	0.0003	0.0011	0.63	0.000066	0.000012	1.2	0.019	0.000011	0.00011	0.00012	0.00059	0.0025
		September		0.059	0.000094	0.0013	1.0	0.0077	0.0000056	0.00028	0.001	0.62	0.000065	0.000012	1.1	0.018	0.000011	0.00011	0.00012	0.00059	0.0025
		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

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1400							16		0.3	0.5		0.1					0.002		0.02		0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)							120	0.12				2.93	0.01	0.1		*0.025*				1.5	0.00004				0.002
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	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
Downstream Node 2 (DS2)	*Closure, controlled discharge from pit lake*	January	2032	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		16	0.027	6.2	3.9	0.032	2.4	0.011	0.017	0.004	0.018	0.00013	0.0022	0.0056	0.000022	0.000053	0.014	0.0000066	2.8	0.00044	0.00014	0.0006
		July		16	0.028	6.3	4.0	0.033	2.5	0.011	0.016	0.0041	0.019	0.00013	0.0023	0.0058	0.000022	0.000054	0.014	0.0000067	2.8	0.00047	0.00015	0.00062
		August		16	0.028	6.4	4.1	0.033	2.5	0.011	0.016	0.0041	0.019	0.00014	0.0023	0.0059	0.000023	0.000056	0.015	0.0000069	2.9	0.00047	0.00015	0.00063
		September		16	0.026	6.4	3.9	0.033	2.5	0.011	0.016	0.004	0.019	0.00014	0.0021	0.0058	0.000023	0.000056	0.014	0.0000069	2.9	0.00046	0.00015	0.00063
		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	2033	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		15	0.023	6.1	3.6	0.032	2.4	0.0099	0.014	0.0038	0.018	0.00013	0.0019	0.0055	0.000022	0.000053	0.013	0.0000065	2.7	0.00044	0.00014	0.0006
		July		15	0.025	6.2	3.7	0.032	2.4	0.01	0.014	0.0039	0.019	0.00013	0.002	0.0056	0.000022	0.000054	0.014	0.0000066	2.8	0.00046	0.00015	0.00062
		August		16	0.025	6.3	3.8	0.033	2.5	0.01	0.014	0.0039	0.019	0.00014	0.002	0.0057	0.000023	0.000056	0.014	0.0000068	2.8	0.00047	0.00015	0.00063
		September		15	0.023	6.3	3.6	0.033	2.4	0.0099	0.014	0.0038	0.019	0.00013	0.0019	0.0057	0.000023	0.000056	0.014	0.0000067	2.8	0.00046	0.00015	0.00063
		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	2034	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		14	0.021	6.0	3.4	0.031	2.3	0.0092	0.013	0.0036	0.018	0.00013	0.0018	0.0054	0.000022	0.000053	0.013	0.0000064	2.6	0.00044	0.00014	0.0006
		July		15	0.022	6.1	3.5	0.032	2.3	0.0094	0.013	0.0037	0.018	0.00013	0.0018	0.0055	0.000022	0.000055	0.013	0.0000065	2.7	0.00046	0.00014	0.00062
		August		15	0.022	6.2	3.5	0.033	2.4	0.0095	0.013	0.0037	0.019	0.00013	0.0018	0.0056	0.000023	0.000056	0.014	0.0000067	2.8	0.00047	0.00015	0.00063
		September		15	0.021	6.2	3.4	0.033	2.4	0.0093	0.013	0.0037	0.019	0.00013	0.0017	0.0056	0.000023	0.000056	0.013	0.0000066	2.7	0.00046	0.00014	0.00063
		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	2035	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		14	0.019	5.9	3.2	0.031	2.3	0.0087	0.012	0.0034	0.018	0.00013	0.0016	0.0053	0.000022	0.000054	0.013	0.0000063	2.6	0.00044	0.00014	0.0006
		July		14	0.02	6.0	3.3	0.032	2.3	0.0088	0.012	0.0035	0.018	0.00013	0.0017	0.0054	0.000022	0.000055	0.013	0.0000064	2.6	0.00046	0.00014	0.00061
		August		15	0.02	6.2	3.3	0.033	2.3	0.009	0.012	0.0036	0.019	0.00013	0.0017	0.0055	0.000023	0.000056	0.013	0.0000066	2.7	0.00047	0.00014	0.00063
		September		14	0.019	6.2	3.2	0.032	2.3	0.0088	0.012	0.0035	0.019	0.00013	0.0016	0.0055	0.000023	0.000056	0.013	0.0000066	2.7	0.00046	0.00014	0.00063
		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	2036	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		14	0.017	5.9	3.0	0.031	2.2	0.0082	0.011	0.0033	0.018	0.00012	0.0015	0.0052	0.000022	0.000054	0.012	0.0000062	2.5	0.00043	0.00014	0.0006
		July		14	0.018	6.0	3.1	0.032	2.2	0.0084	0.011	0.0034	0.018	0.00013	0.0015	0.0053	0.000022	0.000055	0.013	0.0000063	2.6	0.00046	0.00014	0.00061
		August		14	0.018	6.1	3.2	0.032	2.3	0.0086	0.011	0.0035	0.019	0.00013	0.0016	0.0055	0.000023	0.000057	0.013	0.0000065	2.7	0.00047	0.00014	0.00063
		September		14	0.017	6.1	3.1	0.032	2.3	0.0084	0.011	0.0034	0.019	0.00013	0.0015	0.0054	0.000023	0.000057	0.013	0.0000065	2.6	0.00046	0.00014	0.00063
		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

		Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)		1.0	0.05				0.004		0.25										0.1
		CCME (CEQG-PAL [chronic])[2] (mg/L)		0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	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
Downstream Node 2 (DS2)	*Closure, controlled discharge from pit lake*	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		0.056	0.000089	0.0012	0.98	0.0069	0.0000054	0.00025	0.00097	0.59	0.000062	0.000011	1.0	0.017	0.000011	0.00011	0.00011	0.00057	0.0024
		July		0.058	0.00009	0.0012	1.0	0.0071	0.0000055	0.00026	0.001	0.6	0.000063	0.000011	1.1	0.018	0.000011	0.00011	0.00011	0.00058	0.0024
		August		0.059	0.000093	0.0012	1.0	0.0071	0.0000057	0.00026	0.001	0.61	0.000065	0.000012	1.1	0.018	0.000011	0.00011	0.00011	0.0006	0.0025
		September		0.058	0.000092	0.0012	1.0	0.0067	0.0000057	0.00024	0.001	0.61	0.000064	0.000012	1.0	0.018	0.000011	0.00011	0.0001	0.0006	0.0025
		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	2033	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		0.056	0.000087	0.0012	0.95	0.0061	0.0000054	0.00022	0.00095	0.57	0.000061	0.000011	0.97	0.016	0.000011	0.00011	0.000095	0.00057	0.0024
		July		0.058	0.000089	0.0012	0.97	0.0062	0.0000055	0.00022	0.00099	0.59	0.000062	0.000011	0.99	0.017	0.000011	0.00011	0.000098	0.00058	0.0024
		August		0.059	0.000091	0.0012	0.99	0.0062	0.0000057	0.00022	0.001	0.6	0.000064	0.000012	1.0	0.017	0.000011	0.00011	0.000098	0.0006	0.0025
		September		0.058	0.000091	0.0012	0.98	0.0059	0.0000057	0.00021	0.00099	0.6	0.000063	0.000012	0.98	0.017	0.000011	0.00011	0.000094	0.0006	0.0025
		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		0.056	0.000086	0.0012	0.92	0.0054	0.0000054	0.00019	0.00094	0.57	0.00006	0.000011	0.92	0.016	0.000011	0.00011	0.000086	0.00057	0.0024
		July		0.058	0.000088	0.0012	0.94	0.0055	0.0000055	0.00019	0.00097	0.58	0.000061	0.000011	0.93	0.016	0.000011	0.00011	0.000089	0.00059	0.0024
		August		0.059	0.00009	0.0012	0.96	0.0055	0.0000057	0.00019	0.00099	0.59	0.000063	0.000012	0.95	0.017	0.000011	0.00011	0.000089	0.0006	0.0025
		September		0.058	0.00009	0.0012	0.95	0.0053	0.0000057	0.00019	0.00098	0.59	0.000062	0.000012	0.93	0.016	0.000011	0.00011	0.000086	0.0006	0.0025
		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		0.056	0.000086	0.0012	0.9	0.0048	0.0000054	0.00017	0.00092	0.56	0.000059	0.000011	0.87	0.015	0.000011	0.00011	0.000079	0.00057	0.0024
		July		0.058	0.000087	0.0012	0.92	0.0049	0.0000056	0.00017	0.00096	0.57	0.00006	0.000011	0.88	0.016	0.000011	0.00011	0.000081	0.00059	0.0024
		August		0.059	0.000089	0.0012	0.94	0.005	0.0000057	0.00017	0.00098	0.59	0.000062	0.000012	0.9	0.016	0.000012	0.00011	0.000082	0.0006	0.0025
		September		0.058	0.00009	0.0012	0.93	0.0048	0.0000057	0.00016	0.00096	0.58	0.000062	0.000012	0.89	0.016	0.000012	0.00011	0.000079	0.0006	0.0025
		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		0.056	0.000085	0.0011	0.88	0.0044	0.0000054	0.00015	0.00091	0.55	0.000059	0.000011	0.83	0.015	0.000011	0.00011	0.000073	0.00057	0.0024
		July		0.058	0.000086	0.0012	0.91	0.0045	0.0000056	0.00015	0.00095	0.57	0.00006	0.000011	0.85	0.016	0.000011	0.00011	0.000075	0.00059	0.0024
		August		0.059	0.000089	0.0012	0.93	0.0045	0.0000057	0.00015	0.00097	0.58	0.000061	0.000012	0.86	0.016	0.000012	0.00011	0.000076	0.0006	0.0024
		September		0.058	0.000089	0.0012	0.92	0.0044	0.0000057	0.00015	0.00095	0.58	0.000061	0.000012	0.85	0.016	0.000012	0.00011	0.000073	0.0006	0.0025
		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

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				**1400**						**16**		**0.3**	**0.5**		**0.1**					**0.002**		**0.02**		**0.1**
CCME (CEQG-PAL [chronic])[2] (mg/L)							**120**	**0.12**			**2.93**	**0.01**	**0.1**		***0.025***				**1.5**	**0.00004**				**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**	**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**
Downstream Node 2 (DS2)	***Closure, controlled discharge from pit lake***	**January**	**2037**	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		13	0.016	5.8	2.9	0.031	2.2	0.0079	0.01	0.0032	0.018	0.00012	0.0014	0.0051	0.000022	0.000054	0.012	0.0000062	2.5	0.00043	0.00013	0.0006
		July		14	0.017	5.9	3.0	0.031	2.2	0.008	0.01	0.0033	0.018	0.00013	0.0014	0.0053	0.000022	0.000055	0.012	0.0000063	2.6	0.00046	0.00014	0.00061
		August		14	0.017	6.1	3.1	0.032	2.3	0.0082	0.01	0.0034	0.019	0.00013	0.0015	0.0054	0.000023	0.000057	0.013	0.0000064	2.6	0.00047	0.00014	0.00063
		September		14	0.016	6.1	3.0	0.032	2.3	0.0081	0.01	0.0033	0.019	0.00013	0.0014	0.0054	0.000023	0.000057	0.013	0.0000064	2.6	0.00045	0.00014	0.00063
		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	**2038**	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		13	0.015	5.8	2.8	0.031	2.2	0.0076	0.0095	0.0031	0.018	0.00012	0.0013	0.0051	0.000022	0.000054	0.012	0.0000061	2.5	0.00043	0.00013	0.0006
		July		13	0.016	5.9	2.9	0.031	2.2	0.0077	0.0096	0.0032	0.018	0.00013	0.0014	0.0052	0.000022	0.000055	0.012	0.0000062	2.5	0.00046	0.00014	0.00061
		August		14	0.016	6.0	3.0	0.032	2.2	0.0079	0.0098	0.0033	0.019	0.00013	0.0014	0.0053	0.000023	0.000057	0.012	0.0000064	2.6	0.00047	0.00014	0.00063
		September		14	0.015	6.0	2.9	0.032	2.3	0.0078	0.0097	0.0032	0.019	0.00013	0.0013	0.0053	0.000023	0.000057	0.012	0.0000064	2.6	0.00045	0.00014	0.00063
		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	**2039**	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		13	0.014	5.7	2.7	0.03	2.1	0.0073	0.0091	0.0031	0.018	0.00012	0.0012	0.005	0.000022	0.000054	0.012	0.0000061	2.4	0.00043	0.00013	0.0006
		July		13	0.015	5.8	2.8	0.031	2.2	0.0075	0.0092	0.0031	0.018	0.00012	0.0013	0.0052	0.000022	0.000055	0.012	0.0000062	2.5	0.00046	0.00014	0.00061
		August		14	0.015	6.0	2.9	0.032	2.2	0.0077	0.0094	0.0032	0.019	0.00013	0.0013	0.0053	0.000023	0.000057	0.012	0.0000064	2.6	0.00047	0.00014	0.00063
		September		14	0.014	6.0	2.8	0.032	2.2	0.0076	0.0093	0.0032	0.019	0.00013	0.0012	0.0053	0.000023	0.000057	0.012	0.0000064	2.6	0.00045	0.00014	0.00063
		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
			MINIMUM	13	0.014	5.7	2.7	0.03	2.1	0.0073	0.0091	0.0031	0.018	0.00012	0.0012	0.005	0.000022	0.000052	0.012	0.0000061	2.4	0.00043	0.00013	0.0006
			MAXIMUM	21	0.067	7.4	5.8	0.035	3.1	0.017	0.13	0.0055	0.026	0.00016	0.0035	0.007	0.000024	0.000058	0.019	0.0000078	3.6	0.00062	0.00018	0.00068
			AVERAGE	16	0.03	6.4	3.9	0.033	2.5	0.011	0.032	0.004	0.02	0.00014	0.0021	0.0058	0.000023	0.000055	0.014	0.0000068	2.9	0.00048	0.00015	0.00063

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.

[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)

Whale Tail Effluent Quality Criteria maximum average[1] (mg/L)				1.0	0.05				0.004		0.25									0.1
CCME (CEQG-PAL [chronic])[2] (mg/L)				0.3	0.001				0.000026	0.073	0.025		0.001	0.00025			0.0008		0.015	0.12	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
Downstream Node 2 (DS2)	*Closure, controlled discharge from pit lake*	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		0.056	0.000084	0.0011	0.87	0.004	0.0000055	0.00013	0.00091	0.55	0.000058	0.000011	0.8	0.015	0.000011	0.00011	0.000068	0.00057	0.0024
		July		0.058	0.000086	0.0012	0.89	0.0041	0.0000056	0.00014	0.00094	0.56	0.000059	0.000012	0.82	0.015	0.000011	0.00011	0.00007	0.00059	0.0024
		August		0.059	0.000088	0.0012	0.91	0.0041	0.0000057	0.00014	0.00096	0.57	0.000061	0.000012	0.83	0.016	0.000012	0.00011	0.000071	0.0006	0.0024
		September		0.058	0.000088	0.0012	0.9	0.004	0.0000057	0.00013	0.00095	0.57	0.000061	0.000012	0.83	0.015	0.000012	0.00011	0.000069	0.0006	0.0025
		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	2038	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		0.056	0.000084	0.0011	0.86	0.0037	0.0000055	0.00012	0.0009	0.54	0.000058	0.000011	0.78	0.014	0.000011	0.00011	0.000064	0.00058	0.0024
		July		0.058	0.000085	0.0012	0.88	0.0038	0.0000056	0.00012	0.00093	0.56	0.000059	0.000012	0.79	0.015	0.000011	0.00011	0.000066	0.00059	0.0024
		August		0.059	0.000088	0.0012	0.9	0.0038	0.0000057	0.00013	0.00095	0.57	0.000061	0.000012	0.81	0.015	0.000012	0.00012	0.000067	0.00061	0.0024
		September		0.058	0.000088	0.0012	0.89	0.0037	0.0000058	0.00012	0.00094	0.57	0.00006	0.000012	0.8	0.015	0.000012	0.00012	0.000065	0.0006	0.0025
		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	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	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		0.056	0.000084	0.0011	0.85	0.0034	0.0000055	0.00011	0.00089	0.54	0.000057	0.000011	0.76	0.014	0.000011	0.00011	0.000061	0.00058	0.0024
		July		0.058	0.000085	0.0012	0.87	0.0035	0.0000056	0.00011	0.00093	0.55	0.000059	0.000012	0.77	0.015	0.000011	0.00011	0.000063	0.00059	0.0024
		August		0.059	0.000087	0.0012	0.89	0.0036	0.0000058	0.00011	0.00095	0.57	0.00006	0.000012	0.79	0.015	0.000012	0.00012	0.000064	0.00061	0.0024
		September		0.058	0.000088	0.0012	0.89	0.0035	0.0000058	0.00011	0.00094	0.57	0.00006	0.000012	0.78	0.015	0.000012	0.00012	0.000062	0.00061	0.0025
		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
			MINIMUM	0.056	0.000084	0.0011	0.85	0.0034	0.0000053	0.00011	0.00089	0.54	0.000057	0.000011	0.76	0.014	0.000011	0.00011	0.000061	0.00056	0.0024
			MAXIMUM	0.071	0.00011	0.0014	1.2	0.011	0.0000059	0.00043	0.0013	0.71	0.000075	0.000013	1.5	0.023	0.000012	0.00012	0.00015	0.00063	0.0035
			AVERAGE	0.06	0.000093	0.0012	1.0	0.0066	0.0000056	0.00024	0.001	0.61	0.000064	0.000012	1.0	0.017	0.000011	0.00011	0.00010	0.00059	0.0026

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.
[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)

golder.com

APPENDIX E • 2019 FRESHET ACTION PLAN

AGNICO EAGLE

MEADOWBANK GOLD MINE

FRESHET ACTION AND INCIDENT RESPONSE PLAN

WHALE TAIL PROJECT

MARCH 2020

VERSION 2

EXECUTIVE SUMMARY

The purpose of this Action and Response Plan is to identify areas of concern around the Whale Tail Pit mine site and the associated Hauling road that need to be managed in an organized and timely manner during the annual freshet period to prevent adverse environmental and operational impacts. The Incident Response section of the Plan outlines any future incidents that have the potential to affect off site water or land will be added and would include any specific mitigation and monitoring actions.

The freshet period typically occurs during the annual snow and ice melt sometime around mid-May and extends until the end of July. During this period excess water is created and must be managed through additional pumping and management practices at vulnerable areas around the site. Mitigation techniques, timeframes and specified roles and responsibilities are outlined in this document for each area of concern.

The main areas of concern are the mining pit, WRSF Pond, North-East Sector and the Whale Tail Attenuation Pond.

It is important that all water management and associated infrastructure be in good working order and adequate to manage the expected water flows associated with the freshet period; this includes but is not limited to pumps, ditch, culvert and sump maintenance, critical piping system installation and inspection, adequate resource allocation for preparative work and establishing a viable monitoring program for the areas of concern and incident response locations. A summary of the 2020 preparation works and roles and responsibilities is presented in the attached Appendix 1 (2020 Freshet Action Plan Procedures). Appendix 1 will be updated yearly to reflect changes in conditions at the Whale Tail site.

DOCUMENT CONTROL

Revision				Pages Revised	Remarks
#	Prep.	Rev.	Date		
01	Agnico	Internal	March 2019	All	Initial Version
02	Agnico	Internal	March 2020	All	Comprehensive update from 2019 plan

Prepared By: Meadowbank Environment

Approved by:

Robin Allard, General Supervisor Environment

TABLE OF CONTENTS

1 INTRODUCTION 6

2 AREAS OF CONCERN 8

2.1 Mining Pits and Pit Walls 8
2.2 Whale Tail Rock Storage Facility 9
2.3 A53 Lake 9
2.4 East Channel 9
2.5 North-East Sector 9
2.6 Whale Tail Attenuation Pond 10
2.7 Whale Tail Fuel Tank Farms 11
2.8 Haul road Culverts and bridges 11
2.9 South Whale Tail Diversion Channel 11
2.10 2019-2020 Pad and Road Construction 12

3 INCIDENT RESPONSE 14

3.1 WRSF Pond Seepage 14
3.2 Adaptive Water Management Strategy 14

4 SNOW MANAGEMENT 15

LIST OF FIGURES

Figure 2-1: View of Whale Tail area with the associated pumps and trenches 8

List of Appendix

Appendix 1 - 2019 Freshet Action Plan Procedure

1 INTRODUCTION

The purpose of this Whale Tail (WT) Freshet Action and Incident Response Plan is to ensure that Agnico can address and manage excess water associated with the freshet season at the Whale Tail site, and to ensure Agnico has implemented specific management and mitigation measures in response to environmental incidents with potential for off site impacts to water or land.

The freshet season is loosely defined as being a period of time from approximately May 15 – July 30; in some cases this period of time can extend up to early fall when freezing re-occurs (October 15). There are many areas around the site that are vulnerable to this excess water; the goal is to identify these areas and develop a clear plan with defined roles and responsibilities (among Agnico Departments), and to manage the freshet flows.

In addition, several guiding principles are applicable to the formation of this plan. The highest priority principles are:

1) to ensure that mine contact water from runoff or seepage is managed to prevent adverse environmental impacts;
2) to ensure that the health and safety of Agnico employees is protected, especially with respect to mining operations when excess water is present; and
3) to make sure the site is in compliance with the Nunavut Water Board (NWB) License, Part D, Item 21 and Part E, Item 11.

The plan will identify the areas of concern and discuss the potential risks as well as mitigation measures necessary to address the identified issues. An adaptive strategy had been designed at the Whale Tail site to ensure sufficient mitigation measured are in place to prevent potential issues. The overall site footprint has increased and experience needs to be gained in identifying key location; lessons learned from the Meadowbank site will provide the necessary guidance. Appendix 1 contains the defined 2019 procedures, the roles and responsibilities and associated timelines. Agnico's intent is to update the Procedural Appendix on a yearly basis. For example, there may be additional mitigation measures for a defined problem area or in some cases a previously defined issue may be permanently rectified.

The main areas of concern are:

- Mining pits and pit walls;
- WRF pond;
- A53 pond;
- East channel;;
- North-East Sector;
- Attenuation pond;
- WT Tank farm;
- Haul road culverts and bridges;

- Whale Tail South Channel;
- Whale Tail Dike seepage system;
- Pads and roads built since 2019;
- Exploration and underground related infrastructures, if needed.

Each area identified above will be discussed in detail below. All areas of concern are considered priorities based on the guiding principles.

2 AREAS OF CONCERN

Figure 2-1 presents the general layout of the Whale Tail area.

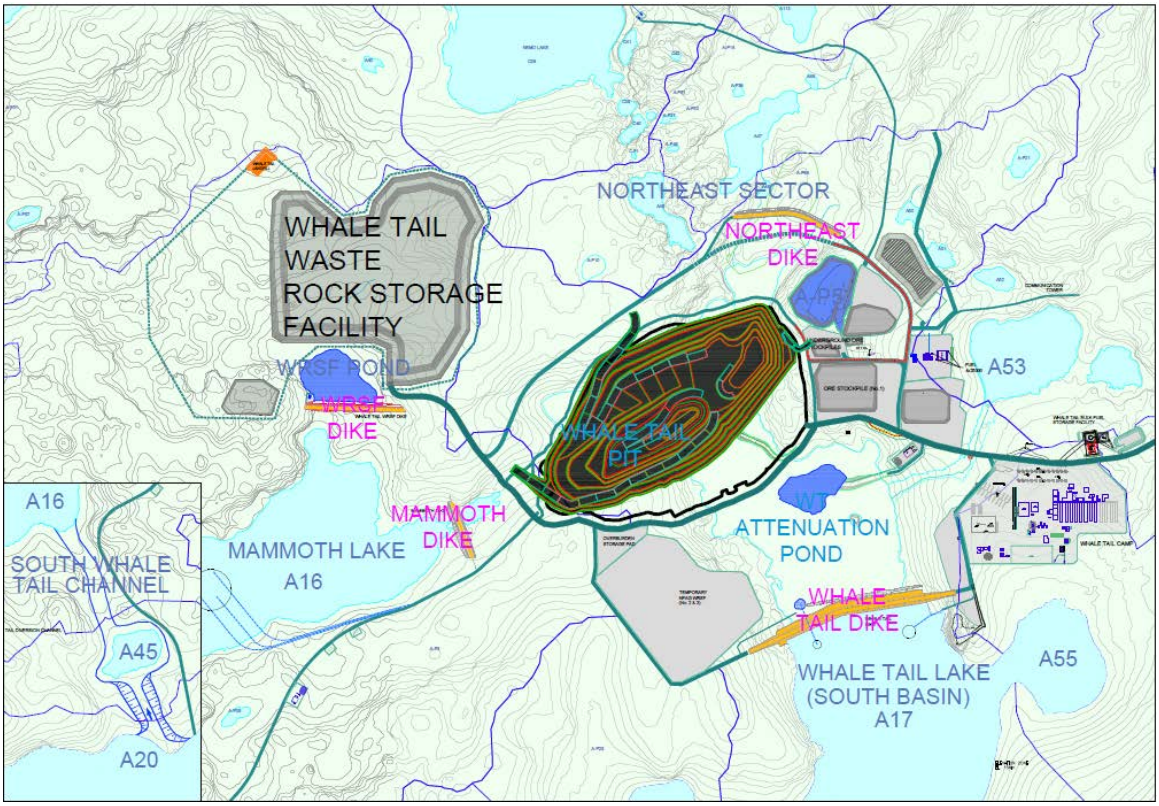


Figure 2-1: View of Whale Tail area

2.1 MINING PITS AND PIT WALLS

All permanent ramps, jump ramps, ditches and sumps must be cleaned of all ice and snow before May in order to contain any water resulting from the snow melt. All pumps must be checked and serviced before the month of May. In addition, a check must be completed confirming that all piping systems starting from the different pits leading to the Whale Tail attenuation pond are free of ice by validating pumping values (if pumping systems are active) and/or performing an air test in the pipe with a compressor.

Water management strategy in the Whale Tail pit will be to send as much water as possible to the Quarry 1, prior to the commissioning of the Whale Tail Attenuation pond, without impacting mining sequence.

- A pond and ditch system is planned in the pit. Runoff water accumulated in these pond will be pumped into Quarry 1, until the expanding mining footprint reaches it. At that time, Attenuation pond will be commissioned, and contact water will be managed through it.

Infrastructures might be modified or added within the actual trench and sumps footprint in such a way to prevent water from ponding against the pit crest;

- Long term sumps outside of critical pit areas are planned within the Whale Tail Pit footprint in order to facilitate pit water management.

2.2 WHALE TAIL ROCK STORAGE FACILITY

The Whale Tail Rock Storage Facility (RSF) will require weekly inspections around the perimeter beginning as soon as the freshet starts (May) until freeze up to identify any seepage. In the event that seepage is observed from the RSF, it must be reported to the Engineering and Environment Departments and samples must be taken to determine the water quality and source. A mitigation plan will be prepared and implemented if necessary. A sump is located at the toe of the RSF and water will be pumped to the WT Attenuation pond when required. In August 2019, seepage from the WRSF pond was found to have reported through the WRSF Dike to the Mammoth lake. See section 3.1 for further details.

2.3 A53 LAKE

Water management around A53 will required regular inspection to ensure impacts are limited, to maintain integrity of structure and to prevent any adverse environmental impacts. Inflows of water will be monitored for the lake immediate watershed to ensure erosion and sediments are not impacting the waterbody.

2.4 EAST CHANNEL

The East Channel structure was postponed in 2019. As a result, in 2020, water will be pumped, as a changed of conveyance, from the source (Lake A53) to Whale tail South, to manage the pond elevation, and avoid overflow towards Whale Tail North Basin.

2.5 NORTH-EAST SECTOR

In 2019, the initial water management strategy of North-East Sector to let water accumulate against North-East Dike and flood into the C-Watershed was found to be ineffective. During a routine inspection in July 2019, a discrepancy between modelled topography and actual topography found the design of the dike not allowing overflow into the C-Watershed. Water was then pumped into the Whale Tail property, and managed accordingly, until sustained significant precipitation placed too much stress onto the site water management system. In August 2019, authorization was received to change the conveyance of the original design, and physically pump water from the North-East Sector into the C-Watershed, water quality permitting. In 2020, it is planned to dismantle this structure. Until then, water in the North-East Sector will be manage in a similar fashion to 2019. Water will be maintained to an elevation allowing sufficient capacity to retain dike design flood event. Water will be maintained at that elevation by pumping to the C-

Watershed, water quality permitting. Discharge area will be monitored for erosion and adverse environmental conditions.

2.6 WHALE TAIL ATTENUATION POND

The Whale Tail Attenuation Pond will be commissioned when contact water will be sent in this location instead of Quarry 1, which is currently used as the site's main contact water sump. Water from the WT Attenuation pond will be management as contact water and treated, if necessary, through the AsWTP and the water discharged towards Mammoth Lake. Representing the main water collection structure for 2020, the attenuation water levels will be managed closely and be inspected regularly at freshet.

Discharge from the WT attenuation pond to Mammoth Lake may require treatment at the OWTP if the water quality did not meet discharge criteria, Water License and MDMER criteria, for the Attenuation Pond discharge. The plant's treatment abilities was designed to remove TSS and arsenic. All piping and the discharge diffuser must be inspected prior to freshet, in order to have all installations in place to proceed with pumping and/or treatment activities during freshet.

2.7 WHALE TAIL FUEL TANK FARMS

The main fuel fuel farm containments were built in 2019, and will be monitored throughout freshet. Snow and ice accumulation within the fuel tank farms must be adequately managed to prevent overflow to the environment and/or damage to the fuel handling systems. The Energy and Infrastructure Department will advise the Environmental Department of their intent to pump the containment area once ice/snow begins to melt. Water samples will be taken in accordance with the Water License to ensure compliance prior to its release. A notice must be provided to the Inspector 10 days prior to this pumping activity. Once sample results have been obtained, the Environmental Department will advise the Energy and Infrastructure Department. If sample results permit, the pumping may begin; to direct water to the tundra/ground in a way to prevent erosion. In the event that the water sample results do not meet discharge criteria the water could be trucked in a tanker and transported to the Meadowbank site to be disposed of in the TSF or placed in containers for shipment south as hazmat.

2.8 HAUL ROAD CULVERTS AND BRIDGES

Daily and Weekly inspections will be undertaken starting in May at all culverts along the Haul road to ensure that water during freshet is flowing freely and no erosion is occurring. If elevated TSS/Turbidity levels are observed sampling will occur and the results assessed. Turbidity barrier will be installed if required. The Mine department will also be advised if severe erosion/scouring is observed. In addition snow and ice removal may be required to allow the water to flow as per design specifications. Daily inspections will be performed during the freshet period by the Environment department.

2.9 SOUTH WHALE TAIL DIVERSION CHANNEL

The South Whale Tail Diversion Channel will be constructed prior to freshet 2020. This channel will allow water from the Whale Tail South watershed (2,400 ha) to report to Mammoth Lake, and subsequent lakes. In 2020, the channel will be in its first year of operation. As a result, significant attention and monitoring will be required. A risk assessment of the structure identified possible increase of TSS in Mammoth Lake as a risk. In order to minimize potential generation of TSS in water travelling through the channel, Agnico Eagle mandated SNC-Lavalin for the design of turbidity barriers, to be implemented within Mammoth Lake, as a mitigation measure. 2 barriers are to be installed prior to freshet, and can be seen in Figure 2-2. Additional measures may be required. Daily inspection will be conducted starting in May until Freshet is complete, and following rain events.

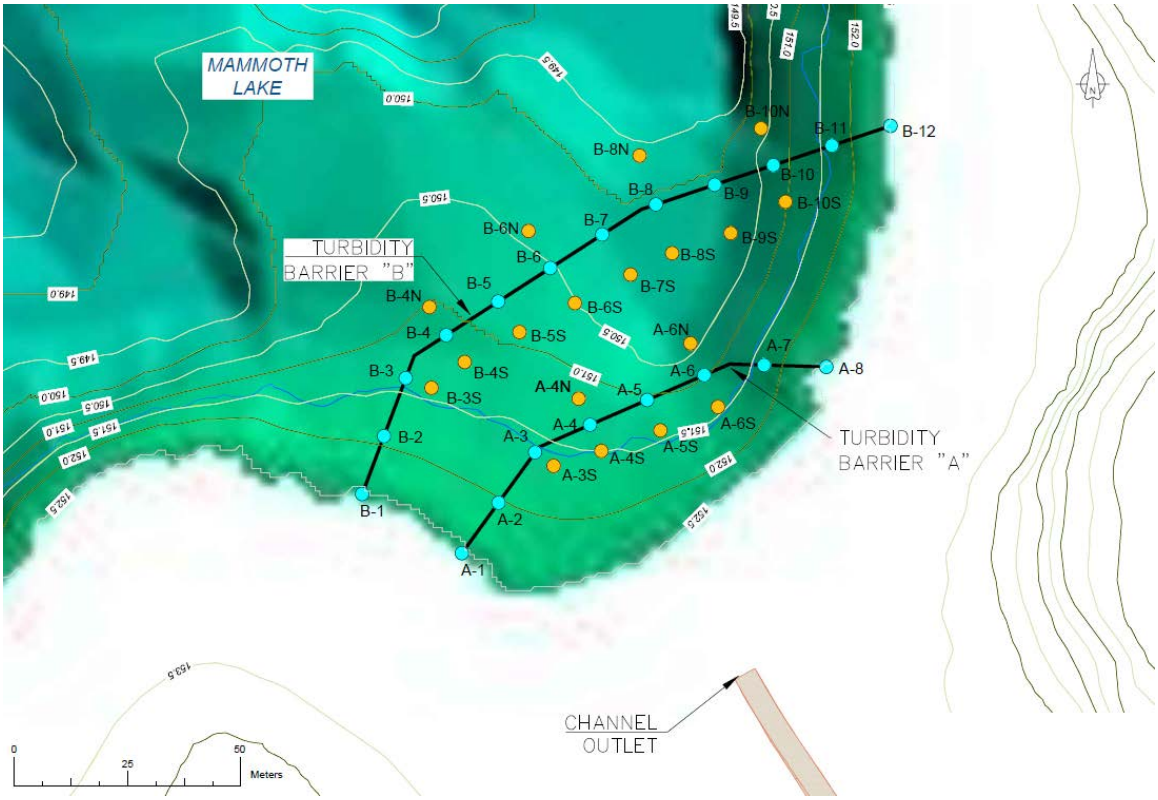


Figure 2-2: Turbidity Barrier Location

2.10 2019-2020 PAD AND ROAD CONSTRUCTION

In 2019-2020, as the site began production, many pads and roads were built around site that will endure their first snowmelt. Weekly inspections at the start of snowmelt will be required to monitor for potential erosion and sediment transport. Mitigation measure may be required to minimize transport of sediments towards water bodies. See below for a list of such constructions:

- Access road between Road 7 and WRSF;
- Haul truck parking;
- WRSF Dike seepage water collection system;
- Whale Tail Dike seepage water collection system;
- NAG stockpile;
- Whale Tail South Channel access road;
- Whale Tail North Dewatering Ramp;

- Whale Tail main camp pad extension;
- WRSF ring road;
- Whale Tail Pit ring road.

3 INCIDENT RESPONSE

3.1 WRSF POND SEEPAGE

In August 2019, water originating from the WRSF Pond seeped through the dike and reported to the Mammoth Lake. Immediate actions taken were to build an access road to the downstream portion of the dike, in order to excavate a small sump and pump the seepage water into WRSF pond. Furthermore, WRSF Pond was emptied and maintained dry. Downstream pumping stopped on September 30th, when the reporting flow and surrounding had frozen. In October 2019, the KIA conducted a sample analysis of the lake bed sediments in Mammoth Lake. The report concluded the seepage did not have a measureable impact on metal quantities of the Mammoth Lake sediments. Prior to freshet 2020, the following actions are to be taken:

- Water level will be kept as low as possible in the WRSF pond throughout 2020, as recommended by the MDRB;
- Promotion of permafrost penetration into the dikes foundation by:
    - Snow removal at the toe of the structure;
    - Addition of thermal cover on the upstream portion of the dike;
    - Assessment of freeze back performance with periodic instrumentation review;
- A downstream water collection system will be designed and constructed;
- Various environmental monitoring program:
    - Monthly limnology profile of Mammoth Lake during winter and open water conditions;
    - Mammoth Lake to be included in a Core receiving environmental monitoring program; and
    - A sediment sampling campaign to be executed at Mammoth Lake.

3.2 ADAPTIVE WATER MANAGEMENT STRATEGY

An Adaptive Water Management Plan will be developed to document specific mitigation measures and associated management actions to be taken when specified thresholds are exceeded. Mitigation measures may include special studies, operational changes, revised or new water and waste management systems, structures and/or facilities, or implementing mitigation activities to prevent, stabilize or reverse a change in environmental conditions or to otherwise protect the receiving environment. The Adaptive Management Plan would be reviewed periodically to account for the dynamics of mine construction and operation, and to adjust the adaptive management strategy as needed.

Various level thresholds were identified for surface water management, based on the capacity of different water management infrastructure to retain water on site. The objective is to trigger management strategy actions based on the capacity of these structures. The main management

response is based on increasing the discharge rate especially when water is meeting effluent discharge criteria.

4 SNOW MANAGEMENT

Similarly to the Meadowbank site, a snow management procedure has been developed internally in 2019 and will be updated annually. Temporary snow storage dumps and snow accumulation areas of concern were identified on a map. Removal will be managed accordingly.

APPENDIX 1

2020 Freshet Action Plan Procedure

Section	Area of Concern	Role/Action	Responsibilities	Dates
2.1	**Mining Pits and Pit Walls**			
2.1	Mining Pit and Pit walls - General	1) Clean all ice, mud and snow on all permanent ramps, jump ramps, etc.	Mine Operations	Before May
		2) Check and service all pumps.	E&I (Energy and Infrastructure) and Maintenance	Before May
		3) Check that all piping systems starting from the pit leading to Quarry 1 and the Attenuation pond are free of ice by validating pumping values (if pumping systems is active) and/or performing an air test in the pipe with a compressor.	E&I/Mine Operations	Before May
2.2	**WASTE ROCK STORAGE FACILITY**			
2.2.	WT RSF Inspection	1) Complete WRSF ring road prior to Freshet	Mine Operations	May 15th
		2) Weekly inspection around the RSF perimeter to identify any seepage.	Env. Department	May - as soon as freshet starts until freeze up
		3) Pump if required from the WRSF periphery to WRSF Pond	E&I	May - as soon as freshet starts until freeze up

		4) If seepage observed notify Eng and Env Department AND sample for Water License Parameters.	Env. Department	May - as soon as freshet starts until freeze up
2.3	**A53**			
2.3	A53	1) Daily inspection - keep record	Env. Department	May - until freshet complete and after rain events
		2) Install turbidity barriers, if needed (elevated TSS observed), and maintain	Env. Department	May - until freshet complete and after rain events
		3) Sample monitoring for TSS, if excess turbidity observed - use external lab.	Env. Department	May - until freshet complete and after rain events
		4) Report any discharge of TSS to ECCC/NWB (if grab > 30 mg/L).	Env. Department	May - until freshet complete and after rain events
2.4	**East Channel**			
2.4	East channel	1) No Action Required as structure is not built	N/A	N/A

2.5	**North-East Sector**			
2.5	North-East Sector to C-Watershed	1) Daily inspection on startup, then weekly keep record	Env. Department	May - until freshet complete and after rain events
		2) Install turbidity barriers, if needed (elevated TSS observed), and maintain	Env. Department	May - until freshet complete and after rain events
		3) Sample monitoring for TSS, if excess turbidity observed - use external lab.	Env. Department	May - until freshet complete and after rain events
		4) Report any discharge of TSS to Nemo to ECCC/NWB (if grab > 30 mg/L).	Env. Department	May - until freshet complete and after rain events
2.6	**WT Attenuation pond**			
2.6 WT Attenuation Pond		1) During the freshet period water management consists of making sure all sumps are pumped to the Attenuation Pond.	Mine Operations	May to Sept

	2) Set-up pumping Attenuation Pond to prevent water from flowing into the pit area.	Mine Operations	May
	3) Notify Environmental Department before discharging any water to Mammoth Lake. **NOTE: Any discharge of contact water must be through the Diffuser.**	Engineering/E&I	At all time
	4) Inspect all piping and discharge diffuser	E&I	May
2.7 FUEL TANK FARMS			
2.7 WT Tank Farm	1) E&I Dept to advise Env Dept in advance of intent to pump once ice melts in containment area.	E&I and Env. Department	Probably mid-June and September
	2) Sample water in accordance with Water License to ensure compliance with limits prior to release.	Env. Department	Probably mid-June and September
	3) Provide notice to Inspector 10 days prior to pumping.	Env. Department	Probably mid-June and September
	4) Advise Energy and Infrastructure Dept if pumping can begin based on sample results.	Env. Department	Probably mid-June and September
	5) Pump to tundra/ground or Meadowbank TSF. **NOTE: The water cannot be pumped out to the**	E&I	Probably mid-June and

		tundra if it does not meet the Water License criteria.		September
2.9	**SOUTH WHALE TAIL DIVERSION CHANNEL**			
2.9	South Whale Tail Diversion Channel	1) Daily inspection - keep record	Env. Department	May - until freshet complete and after rain events
		2) Install turbidity barriers as per SNC design	Construction	Prior to freshet
		3) Install mitigation measures, if needed (elevated TSS observed), and maintain	Env. Department	May - until freshet complete and after rain events
		4) Sample monitoring for TSS, if excess turbidity observed - use external lab.	Env. Department	May - until freshet complete and after rain events
		5) Report any discharge of TSS to Mammoth Lake to ECCC/NWB (if grab > 30 mg/L).	Env. Department	May - until freshet complete and after rain events
2.10	**RECENT PAD AND ROAD CONSTRUCTIONS**			
2.10	Recent pad and road constructions	1) Weekly inspection of toes of constructions built in the last year.	Env. Department	May and after rain events

		2) Sample for TSS and Turbidity if elevated TSS observed.	Env. Department	May - until freeze up
		3) Notify E&I Dept if severe erosion/scouring observed - for repair action.	Env. Department	May - until freeze up
		4) Install mitigation measures if required.	Env. Department	May - until freeze up
3.0	**INCIDENT RESPONSE**			
3.1	WRSF Pond Seepage	1) Daily inspection - keep record	Env. Department	May - until freshet complete and after rain events
		2) Maintain WRSF Pond as dry as possible	E&I	May - until freeze up
		3) Pump any water reporting to the WRSF downstream water collection system – Volumes required to be documented	E&I/Engineering	May - until freeze up
		4) Sample upstream and downstream	Env. Department	May - until freeze up
		5) Report any discharge of TSS to Mammoth Lake to ECCC/NWB (if grab > 30 mg/L).	Env. Department	May - until freshet complete and after rain events

APPENDIX 2

2020 Area of Concern for the Freshet Action and Incident Response Plan

NO. DESSIN
DRAWING NO. WHALE TAIL PROJECT

FORMAT ARCH D

WHALE TAIL WASTE ROCK STORAGE FACILITY

NORTHEAST SECTOR

NORTHEAST DIKE

WRSF POND

WRSF DIKE

WHALE TAIL WRSF DIKE

WHALE TAIL PIT

WHALE TAIL LANDFILL

NEMO LAKE

C38

A40

A41

A47

A50

A51

A52

A-P10

A-P18

A-P21

A-P37

A-P40

A-P51

A-P52

A-P53

A-P57

A-P58

A-P59

A-P60

A-P61

A-P62

A-P63

A-P64

A-P65

A-P66

A-P67

A-P68

A-P69

A-P70

A-P71

A-P72

A-P73

A-P74

A-P75

A-P76

A-P77

A-P78

A-P79

A-P80

A-P81

A-P82

A-P83

A-P84

A-P85

A-P86

A-P87

A-P88

A-P89

A-P90

A-P91

A-P92

A-P93

A-P94

A-P95

A-P96

A-P97

A-P98

A-P99

A-P100

A-P101

A-P102

A-P103

A-P104

A-P105

A-P106

A-P107

A-P108

A-P109

A-P110

A-P111

A-P112

A-P113

A-P114

A-P115

A-P116

A-P117

A-P118

A-P119

A-P120

A-P121

A-P122

A-P123

A-P124

A-P125

A-P126

A-P127

A-P128

A-P129

A-P130

A-P131

A-P132

A-P133

A-P134

A-P135

A-P136

A-P137

A-P138

A-P139

A-P140

A-P141

A-P142

A-P143

A-P144

A-P145

A-P146

A-P147

A-P148

A-P149

A-P150

A-P151

A-P152

A-P153

A-P154

A-P155

A-P156

A-P157

A-P158

A-P159

A-P160

A-P161

A-P162

A-P163

A-P164

A-P165

A-P166

A-P167

A-P168

A-P169

A-P170

A-P171

A-P172

A-P173

A-P174

A-P175

A-P176

A-P177

A-P178

A-P179

A-P180

A-P181

A-P182

A-P183

A-P184

A-P185

A-P186

A-P187

A-P188

A-P189

A-P190

A-P191

A-P192

A-P193

A-P194

A-P195

A-P196

A-P197

A-P198

A-P199

A-P200

A-P201

A-P202

A-P203

A-P204

A-P205

A-P206

A-P207

A-P208

A-P209

A-P210

A-P211

A-P212

A-P213

A-P214

A-P215

A-P216

A-P217

A-P218

A-P219

A-P220

A-P221

A-P222

A-P223

A-P224

A-P225

A-P226

A-P227

A-P228

A-P229

A-P230

A-P231

A-P232

A-P233

A-P234

A-P235

A-P236

A-P237

A-P238

A-P239

A-P240

A-P241

A-P242

A-P243

A-P244

A-P245

A-P246

A-P247

A-P248

A-P249

A-P250

A-P251

A-P252

A-P253

A-P254

A-P255

A-P256

A-P257

A-P258

A-P259

A-P260

A-P261

A-P262

A-P263

A-P264

A-P265

A-P266

A-P267

A-P268

A-P269

A-P270

A-P271

A-P272

A-P273

A-P274

A-P275

A-P276

A-P277

A-P278

A-P279

A-P280

A-P281

A-P282

A-P283

A-P284

A-P285

A-P286

A-P287

A-P288

A-P289

A-P290

A-P291

A-P292

A-P293

A-P294

A-P295

A-P296

A-P297

A-P298

A-P299

A-P300

A-P301

A-P302

A-P303

A-P304

A-P305

A-P306

A-P307

A-P308

A-P309

A-P310

A-P311

A-P312

A-P313

A-P314

A-P315

A-P316

A-P317

A-P318

A-P319

A-P320

A-P321

A-P322

A-P323

A-P324

A-P325

A-P326

A-P327

A-P328

A-P329

A-P330

A-P331

A-P332

A-P333

A-P334

A-P335

A-P336

A-P337

A-P338

A-P339

A-P340

A-P341

A-P342

A-P343

A-P344

A-P345

A-P346

A-P347

A-P348

A-P349

A-P350

A-P351

A-P352

A-P353

A-P354

A-P355

A-P356

A-P357

A-P358

A-P359

A-P360

A-P361

A-P362

A-P363

A-P364

A-P365

A-P366

A-P367

A-P368

A-P369

A-P370

A-P371

A-P372

A-P373

A-P374

A-P375

A-P376

A-P377

A-P378

A-P379

A-P380

A-P381

A-P382

A-P383

A-P384

A-P385

A-P386

A-P387

A-P388

A-P389

A-P390

A-P391

A-P392

A-P393

A-P394

A-P395

A-P396

A-P397

A-P398

A-P399

A-P400

A-P401

A-P402

A-P403

A-P404

A-P405

A-P406

A-P407

A-P408

A-P409

A-P410

A-P411

A-P412

A-P413

A-P414

A-P415

A-P416

A-P417

A-P418

A-P419

A-P420

A-P421

A-P422

A-P423

A-P424

A-P425

A-P426

A-P427

A-P428

A-P429

A-P430

A-P431

A-P432

A-P433

A-P434

A-P435

A-P436

A-P437

A-P438

A-P439

A-P440

A-P441

A-P442

A-P443

A-P444

A-P445

A-P446

A-P447

A-P448

A-P449

A-P450

A-P451

A-P452

A-P453

A-P454

A-P455

A-P456

A-P457

A-P458

A-P459

A-P460

A-P461

A-P462

A-P463

A-P464

A-P465

A-P466

A-P467

A-P468

A-P469

A-P470

A-P471

A-P472

A-P473

A-P474

A-P475

A-P476

A-P477

A-P478

A-P479

A-P480

A-P481

A-P482

A-P483

A-P484

A-P485

A-P486

A-P487

A-P488

A-P489

A-P490

A-P491

A-P492

A-P493

A-P494

A-P495

A-P496

A-P497

A-P498

A-P499

A-P500

A-P501

A-P502

A-P503

A-P504

A-P505

A-P506

A-P507

A-P508

A-P509

A-P510

A-P511

A-P512

A-P513

A-P514

A-P515

A-P516

A-P517

A-P518

A-P519

A-P520

A-P521

A-P522

A-P523

A-P524

A-P525

A-P526

A-P527

A-P528

A-P529

A-P530

A-P531

A-P532

A-P533

A-P534

A-P535

A-P536

A-P537

A-P538

A-P539

A-P540

A-P541

A-P542

A-P543

A-P544

A-P545

A-P546

A-P547

A-P548

A-P549

A-P550

A-P551

A-P552

A-P553

A-P554

A-P555

A-P556

A-P557

A-P558

A-P559

A-P560

A-P561

A-P562

A-P563

A-P564

A-P565

A-P566

A-P567

A-P568

A-P569

A-P570

A-P571

A-P572

A-P573

A-P574

A-P575

A-P576

A-P577

A-P578

A-P579

A-P580

A-P581

A-P582

A-P583

A-P584

A-P585

A-P586

A-P587

A-P588

A-P589

A-P590

A-P591

A-P592

A-P593

A-P594

A-P595

A-P596

A-P597

A-P598

A-P599

A-P600

A-P601

A-P602

A-P603

A-P604

A-P605

A-P606

A-P607

A-P608

A-P609

A-P610

A-P611

A-P612

A-P613

A-P614

A-P615

A-P616

A-P617

A-P618

A-P619

A-P620

A-P621

A-P622

A-P623

A-P624

A-P625

A-P626

A-P627

A-P628

A-P629

A-P630

A-P631

A-P632

A-P633

A-P634

A-P635

A-P636

A-P637

A-P638

A-P639

A-P640

A-P641

A-P642

A-P643

A-P644

A-P645

A-P646

A-P647

A-P648

A-P649

A-P650

A-P651

A-P652

A-P653

A-P654

A-P655

A-P656

A-P657

A-P658

A-P659

A-P660

A-P661

A-P662

A-P663

A-P664

A-P665

A-P666

A-P667

A-P668

A-P669

A-P670

A-P671

A-P672

A-P673

A-P674

A-P675

A-P676

A-P677

A-P678

A-P679

A-P680

A-P681

A-P682

A-P683

A-P684

A-P685

A-P686

A-P687

A-P688

A-P689

A-P690

A-P691

A-P692

A-P693

A-P694

A-P695

A-P696

A-P697

A-P698

A-P699

A-P700

A-P701

A-P702

A-P703

A-P704

A-P705

A-P706

A-P707

A-P708

A-P709

A-P710

A-P711

A-P712

A-P713

A-P714

A-P715

A-P716

A-P717

A-P718

A-P719

A-P720

A-P721

A-P722

A-P723

A-P724

A-P725

A-P726

A-P727

A-P728

A-P729

A-P730

A-P731

A-P732

A-P733

A-P734

A-P735

A-P736

A-P737

A-P738

A-P739

A-P740

A-P741

A-P742

A-P743

A-P744

A-P745

A-P746

A-P747

A-P748

A-P749

A-P750

A-P751

A-P752

A-P753

A-P754

A-P755

A-P756

A-P757

A-P758

A-P759

A-P760

A-P761

A-P762

A-P763

A-P764

A-P765

A-P766

A-P767

A-P768

A-P769

A-P770

A-P771

A-P772

A-P773

A-P774

A-P775

A-P776

A-P777

A-P778

A-P779

A-P780

A-P781

A-P782

A-P783

A-P784

A-P785

A-P786

A-P787

A-P788

A-P789

A-P790

A-P791

A-P792

A-P793

A-P794

A-P795

A-P796

A-P797

A-P798

A-P799

A-P800

A-P801

A-P802

A-P803

A-P804

A-P805

A-P806

A-P807

A-P808

A-P809

A-P810

A-P811

A-P812

A-P813

A-P814

A-P815

A-P816

A-P817

A-P818

A-P819

A-P820

A-P821

A-P822

A-P823

A-P824

A-P825

A-P826

A-P827

A-P828

A-P829

A-P830

A-P831

A-P832

A-P833

A-P834

A-P835

A-P836

A-P837

A-P838

A-P839

A-P840

A-P841

A-P842

A-P843

A-P844

A-P845

A-P846

A-P847

A-P848

A-P849

A-P850

A-P851

A-P852

A-P853

A-P854

A-P855

A-P856

A-P857

A-P858

A-P859

A-P860

A-P861

A-P862

A-P863

A-P864

A-P865

A-P866

A-P867

A-P868

A-P869

A-P870

A-P871

A-P872

A-P873

A-P874

A-P875

A-P876

A-P877

A-P878

A-P879

A-P880

A-P881

A-P882

A-P883

A-P884

A-P885

A-P886

A-P887

A-P888

A-P889

A-P890

A-P891

A-P892

A-P893

A-P894

A-P895

A-P896

A-P897

A-P898

A-P899

A-P900

A-P901

A-P902

A-P903

A-P904

A-P905

A-P906

A-P907

A-P908

A-P909

A-P910

A-P911

A-P912

A-P913

A-P914

A-P915

A-P916

A-P917

A-P918

A-P919

A-P920

A-P921

A-P922

A-P923

A-P924

A-P925

A-P926

A-P927

A-P928

A-P929

A-P930

A-P931

A-P932

A-P933

A-P934

A-P935

A-P936

A-P937

A-P938

A-P939

A-P940

A-P941

A-P942

A-P943

A-P944

A-P945

A-P946

A-P947

A-P948

A-P949

A-P950

A-P951

A-P952

A-P953

A-P954

A-P955

A-P956

A-P957

A-P958

A-P959

A-P960

A-P961

A-P962

A-P963

A-P964

A-P965

A-P966

A-P967

A-P968

A-P969

A-P970

A-P971

A-P972

A-P973

A-P974

A-P975

A-P976

A-P977

A-P978

A-P979

A-P980

A-P981

A-P982

A-P983

A-P984

A-P985

A-P986

A-P987

A-P988

A-P989

A-P990

A-P991

A-P992

A-P993

A-P994

A-P995

A-P996

A-P997

A-P998

A-P999

A-P1000

A16

SOUTH WHALE TAIL CHANNEL

A45

A20

TAIL DIVERSION CHANNEL

MAMMOTH LAKE

A16

MAMMOTH DIKE

OVERBURDEN STORAGE PAD

TEMPORARY NPAG WRSF (No. 2 & 3)

WT ATTENUATION POND

WHALE TAIL DIKE

WHALE TAIL LAKE (SOUTH BASIN)

A17

A55

A53

UNDERGROUND ORE STOCKPILES

ORE STOCKPILE (No.1)

FUEL 4x25,000

COMMUNICATION TOWER

WHALE TAIL BULK FUEL STORAGE FACILITY

WHALE TAIL CAMP

ELEVATION ZONE EL. 156m

PLAN CLÉ
KEY PLAN

NOTES GÉNÉRALES / GENERAL NOTES

L'INFORMATION CI-CONTENUE EST LA PROPRIÉTÉ DE AGNICO-EAGLE LTÉE ET NE DOIT ÊTRE RETOURNÉE, SAUF DEMANDE, SANS AUTORISATION ÉCRITE PRÉALABLE. TOUTE REPRODUCTION DE COPIES À AUTRUI ET TOUTE UTILISATION AUTRE QUE CELLE POUR LAQUELLE L'INFORMATION EST PRÊTÉE SONT INTERDITES. © AGNICO-EAGLE LTÉE

THE INFORMATION HERE ON IS THE PROPERTY OF AGNICO-EAGLE LTD. AND MUST BE RETURNED UPON REQUEST, WITHOUT WRITTEN PERMISSION, ANY COPYING, TRANSMITTAL TO OTHERS AND ANY USE EXCEPT THAT FOR WHICH IT IS LOANED ARE PROHIBITED. © AGNICO-EAGLE LTD.

DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS

TITRE / TITLE	# DWG
–	–
–	–
–	–
–	–
–	–
–	–

AGNICO EAGLE

REV.	DATE	DESCRIPTION	PAR/BY	APP.	CLIENT

REVISIONS

TITRE / TITLE
AGNICO EAGLE – MEADOWBANK DIVISION
WHALE TAIL PIT PROJECT
SITE LAYOUT

DESSINÉ PAR DRAWN BY	DATE
VÉRIFIÉ PAR CHECKED BY	
APPROUVÉ PAR APPROVED BY	
ÉCHELLE SCALE 1:8000	DATE
NO. DESSIN DRAWING NO.	
NO. PROJET PROJECT NO.	REVISION / FEUILLE / SHT

AE-GMT-ARCH D

C:\Users\eric.haley\Documents\Whale Tail Project.dwg