AGNICO EAGLE

Meadowbank Division

WHALE TAIL PROJECT

Water Management Plan

JULY 2020
VERSION 5

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. In 2020 the Whale Tail Expansion Project (Expansion Project) was approved, permitting Agnico Eagle to expand and extend the Whale Tail Pit operations to include a larger Whale Tail open pit, development of the IVR open pit, and underground operations while continuing to operate and process ore at the Meadowbank Mine.

The Amaruq property is a 408 square kilometre (km^2) site located on Inuit Owned Land (IOL) 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 two open pits (i.e., Whale Tail Pit and IVR Pit) and underground operations, 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), 7 years of mine operations, 25 years of closure, and the post closure period. On September 30th, 2019 commercial production began at the Whale Tail Pit. The Expansion Project includes mining an additional 15.2 million tonnes of ore from the expanded Whale Tail Pit, the IVR open pit and underground operations. This expanded resource will be extracted over an approximately four-year period. In total, the resources for the Whale Tail project have been expanded and extended over approximately a seven-year period from 2019 to 2025.

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: contact water collection ponds, freshwater collection ponds, diversion channels, water retention dikes, dams, culverts, seepage collection systems, water treatment plants for effluent, a potable water treatment plant, a sewage treatment plant, and discharge diffusers. 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 (as required according to water quality) 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. Non-contact water will be rerouted or discharged directly into the environment without treatment.

During operations, site contact water quality is predicted to exceed established effluent criteria (i.e. under the Whale Tail Water Licence (2AM-WTP1830) 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.

During operations when the mine is at its maximum footprint, the conservative predictions of future water quality indicate that most parameter concentrations in the downstream environment are below CEQG-AL except for arsenic. A site wide water balance will be updated on a regular basis and end pit water quality modelling will be conducted as needed to update predictions.

Water management during closure and reclamation will involve actively filling the underground facilities and IVR Pit, and passively allowing the Whale Tail Attenuation Pond and the Whale Tail Pit to flood. The Groundwater Storage Ponds, and IVR Attenuation Pond will be emptied at the start of closure and backfilled with NPAG/non-ML waste rock. The Whale Tail and IVR WRSFs will be progressively covered with NPAG/non-ML waste rock throughout operations and are expected to be completely covered at the beginning of closure. Contact water management systems will remain 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. 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. Note that the 2020 Water Quality Forecast that was submitted in March 2020 does not include any aspects related to the Expansion Project since at that time it was not yet approved.

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
5	July 2020	All	All	Water Management Plan for the Whale Tail Pit – including Expansion Project	Agnico Eagle Meadowbank Division

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ACRONYMS

Agnico Eagle	Agnico Eagle Mines Limited – Meadowbank Division
ARD	Acid Rock Deposition
CCME	Canadian Council of Ministers of the Environment
DFO	Department of Fisheries and Oceans Canada
Expansion Project	Whale Tail Pit – Expansion Project
FEIS	Final Environmental Impact Statement
IOL	Inuit Owned Land
LOM	Life of Mine
NIRB	Nunavut Impact Review Board
NWB	Nunavut Water Board
NE	North-East
OMS	Operation, Maintenance, and Surveillance
PGA	Peak Ground Acceleration
Plan	Water Management Plan
Project	Whale Tail Pit and Haul Road
STP	Sewage Treatment Plant
TSF	Tailings Storage Facility
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
km	kilometre(s)
km^2	kilo square metre(s)
L/day/person	litres per person per day
masl	metre(s) above sea level
mbgs	metre(s) below ground surface
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. In 2020 the Whale Tail Expansion Project (Expansion Project) was approved, allowing Agnico Eagle to expand and extend the Whale Tail Pit operations to include a larger Whale Tail open pit, development of the IVR open pit, and underground operations while continuing to operate and process ore at the Meadowbank Mine.

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 two open pits (i.e., Whale Tail Pit and IVR Pit) and underground operations, and ore will be hauled to the approved infrastructure at Meadowbank Mine for milling.

The open pit and underground mine, mined by truck-and-shovel operation, includes four development phases: 1 year of construction (complete), 7 years of mine operations, 25 years of closure, and the post closure period. In total, the resources for the Whale Tail project have been expanded and extended over approximately a seven-year period from 2019 to 2025.

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 the first phase of production, waste rock and overburden will be piled in the Whale Tail Waste Rock Storage Facility (Whale Tail WRSF) and ore stockpiled on the ore pads. The Whale Tail WRSF will then be expanded vertically and horizontally to the southeast. The IVR WRSF will be built to accommodate waste rock and overburden generated from the IVR Pit. The waste rock storage footprint, water management infrastructure and camp have been designed and considers up to eight years to allow for expected resource growth. The underground WRSF (AP-5 location) that is permitted under the Type B will be expanded and become a facility regulated under the Type A Water Licence (2AM-WTP1830). Agnico Eagle will increase the footprint of the underground exploration area to the north to accommodate additional waste storage. The existing tailings facility at Meadowbank Mine will continue to be used for tailings disposal. All tailings treatment and disposal will remain consistent with the current Project Certificate (No. 004).

Closure will occur from Year 8 (2026) to Year 24 (2042) after the completion of mining and will include removal of the non-essential site infrastructure and flooding of the mined-out open pits and underground mine 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 Whale Tail Pit Interim Closure and Reclamation Plan). Post-closure is expected from Year 24 (2042) 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 7	• Open pits operations • Underground operations • Transport ore to Meadowbank Mine • Stockpile ore • Discharge Tailings in Meadowbank TSF
	Year 8	• Complete transportation of ore to Meadowbank Mine • Complete discharge of tailings in Meadowbank TSF
Closure	Year 8 to 24	• Remove non-essential site infrastructure • Flood mined-out open pits and underground operations • Re-establish natural Whale Tail Lake level
Post-Closure	Year 24 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 5, of the Nunavut Water Board (NWB) Water License 2AM – WTP1830. 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, 2020). 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 and IVR Pit as satellite pits for the Meadowbank Mine. This plan also includes lessons learned on water management at site during the first year of the project. 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

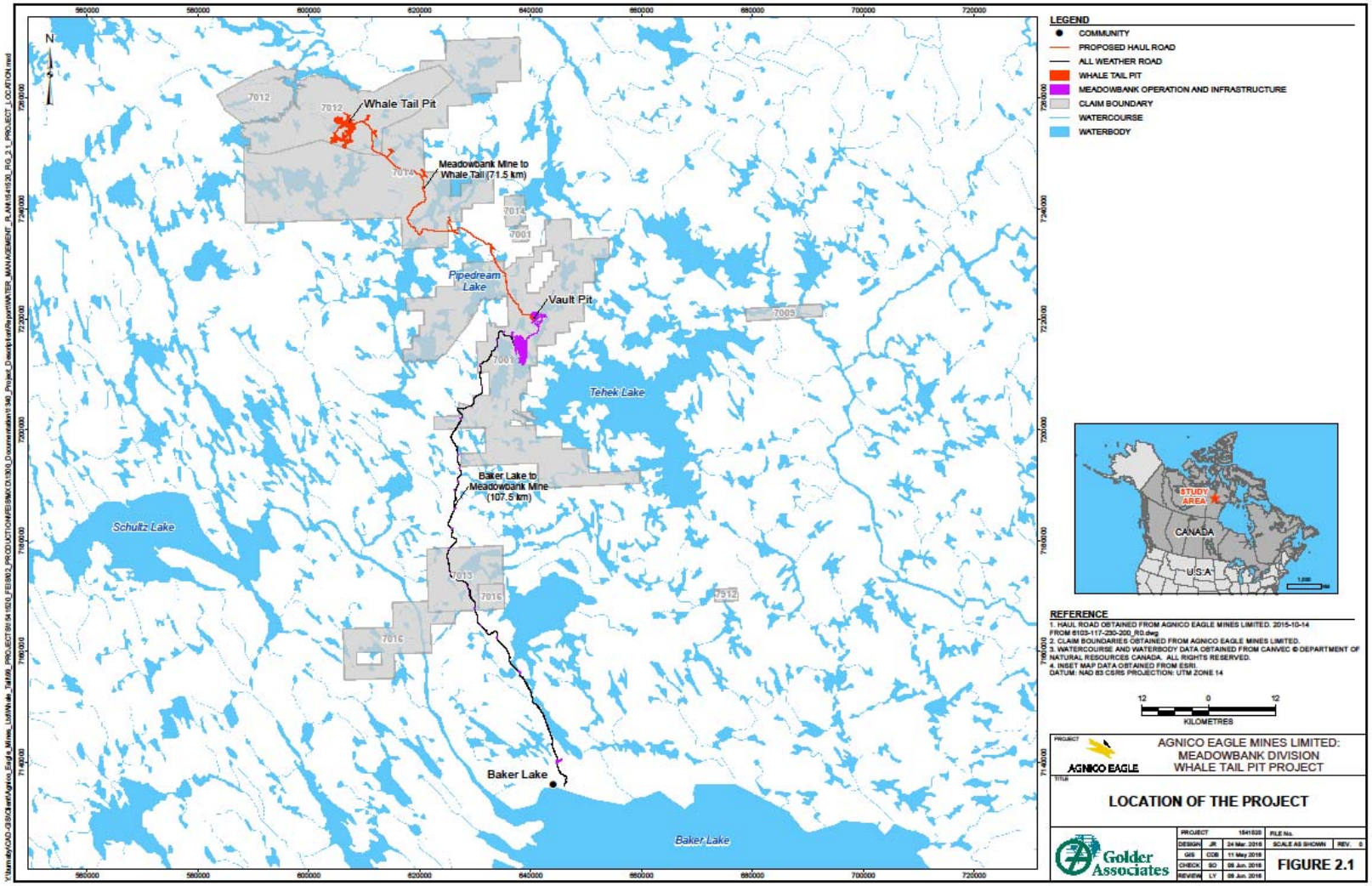


Table 2.1 Estimated Mine Site Monthly Mean Climate Characteristics

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 and Hydrogeology

2.1.2.1 Permafrost Conditions and Assessment

During the Project thermal assessments have been completed that contribute to the understanding of the permafrost conditions near the Whale Tail Pit, IVR Pit and Underground. An update of the Whale Tail Thermal Assessment was conducted in April 2019 (Golder 2019b). The thermal assessment evaluated existing permafrost characteristics in the Whale Tail Lake and Project area and existing talik conditions under the Whale Tail Lake adjacent to the Project. The thermal assessment was completed based on available thermistor data to date, as well as the results of a thermal 2D modelling exercise and 3D block model prepared to assess permafrost conditions and the extent of talik formations beneath the Whale Tail Lake.

The updated thermal assessment of the project also took into consideration the groundwater monitoring program (Westbay sampling) that took place in November 2018 (Golder 2019b). The 2018 groundwater monitoring program indicates that water samples were collected from fixed ports along the Westbay system between 276 m and 499 m below the ground surface, which suggests that the Westbay system is installed in open talik, or water sampling would not have been possible at depth.

The mine site is located in an area of continuous permafrost, as shown on **Error! Reference source not found.**. 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 estimated depth of zero amplitude from the temperature profiles ranges from 18 m to 35 m. The temperatures at the depths of zero amplitude are in the range of -3.1 °C to -8.6 °C for on land thermistors and 2.7 °C for AMQ17-1265A. The geothermal gradient estimated based on the lowest 70 to 100 m of the thermistor strings is in the range of 0.004 °C/m (AMQ15-294) to 0.052 °C/m. 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.

The information presented in the following section is based on the updated report *Hydrogeological Assessment and Modelling Whale Tail Pit - Expansion Project* (Golder 2019e). The following summarizes the updated understanding of permafrost conditions in the Expansion Project Area:

- The depth of permafrost outside of the influence of lakes is estimated to be between 452 m and 522 m based on thermal gradients and ground temperatures at the lowest portions of the thermistor strings. The depth of permafrost increases with increasing distance from lakes with talik.
- Considering the 2D thermal modelling and 3D block model, the assessment indicated that:

- Under the northern portion of the lake below Whale Tail Pit, there is likely a closed talik formation (Section C of the thermal modelling report, reproduced on Figure 3 of this report).
- Open talik conditions are probable in the southern portion of the lake where the Whale Tail Lake becomes wider (Section G of the thermal modelling report, reproduced on Figure 4 of this report).
- Permafrost depth is between 480 m and 550 m for ground away from the Whale Tail Lake, and between 350 m and 450 m below surface in portions beneath the Whale Tail Lake where a closed talik is present.
- The cryopeg thickness is likely between 20 m to 30 m.

2.1.2.2 Groundwater Flow Regime

Groundwater characteristics at the mine site are detailed in the Expansion Project Final Environmental Impact Statement (FEIS), Addendum Volume 6, Section 6.3. The hydrogeological model was updated in May 2019 with hydrogeological modelling completed for the Expansion Project since submission of the FEIS addendum in December 2018 (Golder 2019e). The model was updated based on results of monitoring at the Westbay system in November 2018, supplemental packer testing in December 2018, and additional 2D and 3D thermal analysis in 2019. The updated hydrogeological model was then used to provide revised predictions of groundwater inflow and total dissolved solids (TDS) concentrations during dewatering, mining, pit and underground flooding, and long-term post-closure (reflooded) conditions.

Two groundwater flow regimes occur at the Expansion Project: a deep groundwater flow regime beneath permafrost and a shallow groundwater flow system located in the active (seasonally thawed) layer near the ground surface. Except for areas of taliks beneath lakes, the two groundwater regimes are isolated from one another by thick permafrost.

Groundwater flow within the deep groundwater flow regime is limited to the sub-permafrost zone. This deep groundwater flow regime is connected to ground surface by open taliks underlying larger lakes. The elevations of these lakes are the primary control of groundwater flow directions in the deep groundwater flow regime, with density gradients providing a potential secondary control. The elevations of these lakes in the baseline study area indicate that Whale Tail Lake is likely a groundwater discharge zone at the south end of the Lake, with flow from Lake A60 to Whale Tail Lake, and a groundwater recharge zone at the north end of the Lake, with flow from Whale Tail Lake to Lake DS1 (Figure 2-3).

While portions of both Whale Tail Pit and the Underground are located within unfrozen rock, the IVR Pit is fully contained within permafrost. Groundwater inflow is therefore only expected during operations in the Whale Tail Pit and Underground.

Mining of the Whale Tail Pit occurs within the talik underlying Whale Tail Lake, whereas the Underground starts in permafrost and then extends below the permafrost into the deeper bedrock flow system. The Underground is not directly connected to either Whale Tail Pit or IVR Pit.

During mining, the Whale Tail Pit and Underground will act as a sink for groundwater flow, with seepage faces developing along the portions of the pit walls and Underground located in unfrozen rock. In response to the deepening of the mine workings, groundwater will be induced to flow through bedrock to the Whale Tail Pit and the Underground. Mine inflow will originate primarily from Whale Tail Lake (South Basin), the Whale Tail Attenuation Pond, and deep bedrock underlying the permafrost. During mining, upward migration of brackish groundwater, with higher TDS concentrations from beneath the mine, will occur. The quality of mine inflow will be a result of the mixing of groundwater from each of these sources.

Figure 2.2 Permafrost Map of Canada

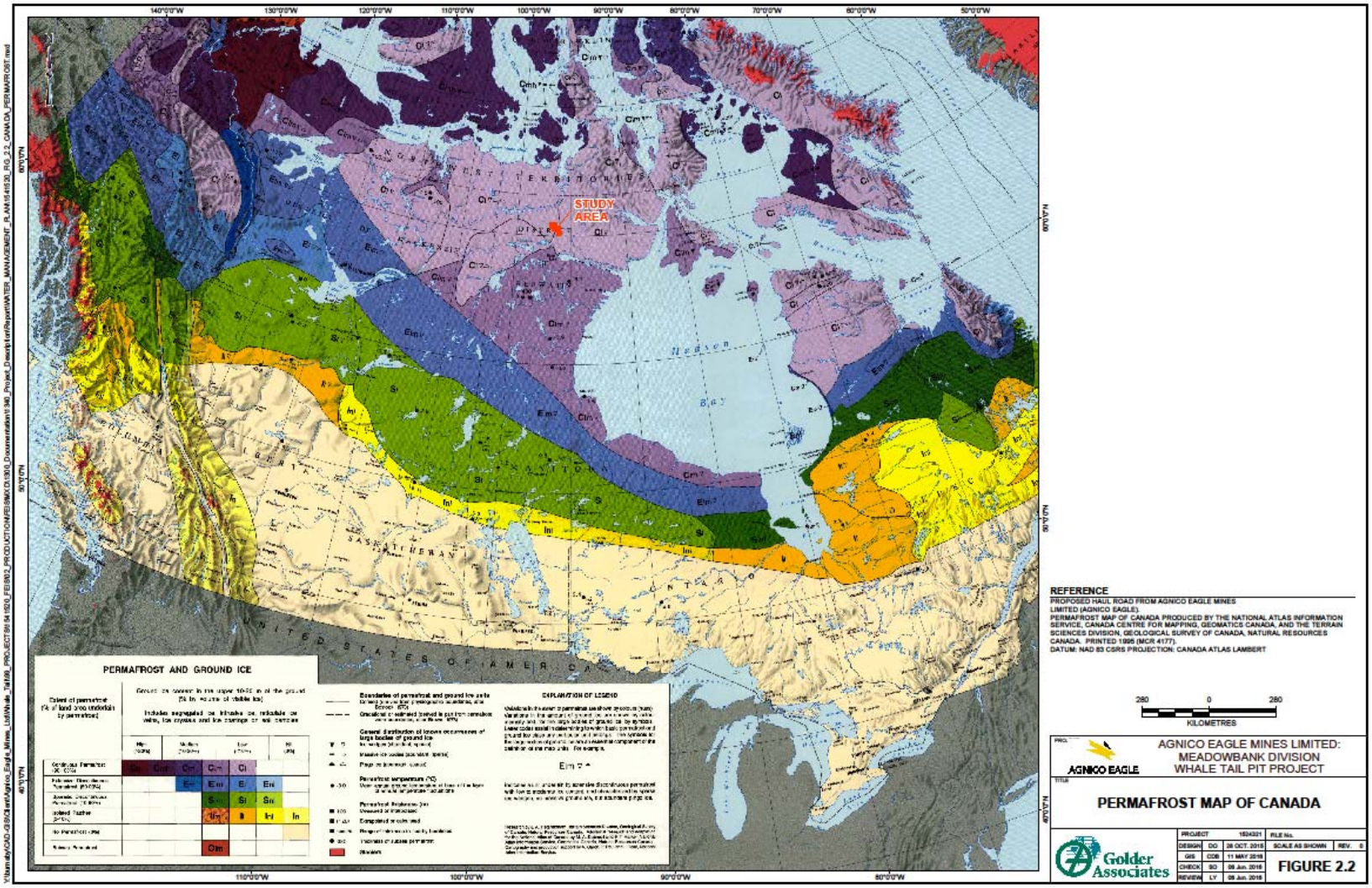
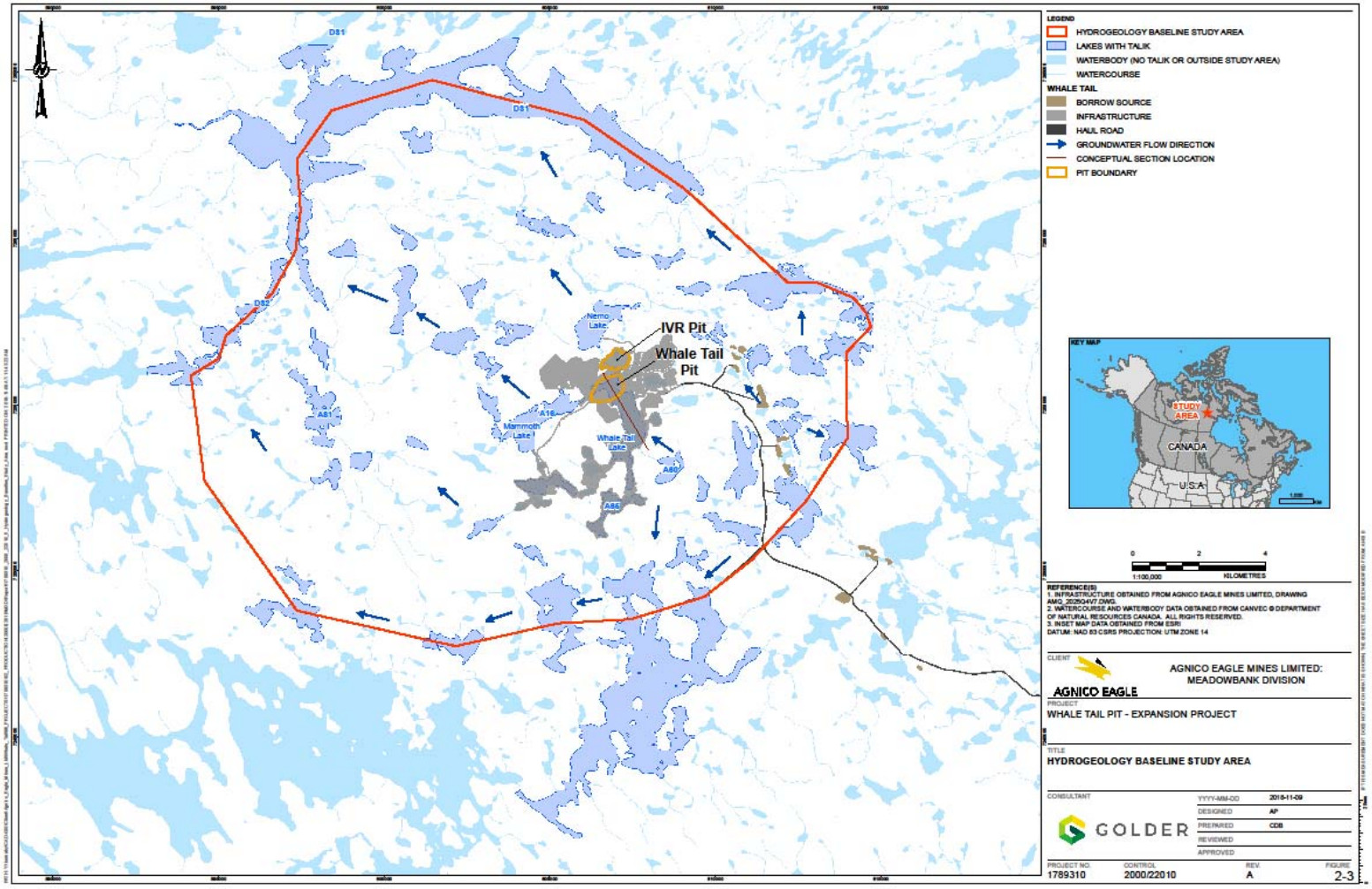


Figure 2.3 Hydrogeology Baseline Study Area



2.1.3 Hydrology

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

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 like 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, most 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, Addendum Volume 4, Section 4.2).

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^{o}C in late fall and +5^{o}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^{o}C in late fall and +3^{o}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 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 Open Pit, IVR Open Pit and Underground mining will be mined using the traditional open pit method and long hole mining (95%) with some mechanized cut and fill in flat areas. The mining is planned from 2019 to 2026.

Two mine waste streams will be produced at Whale Tail Pit; waste rock and overburden. Ore will be stockpiled in a series of stockpiles located adjacent to the pits. 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-MEA1530.

The mine development will include the following major infrastructure:

- industrial area (camp, power plant, heli-pad, landfarm and garage)
- crusher
- ore stockpiles
- rock and overburden storage facilities
- landfill
- haul and access roads
- underground mine
- two open pit mines

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. Two areas of the site were identified as the Whale Tail WRSF and the IVR WRSF to store waste rock and overburden material, as shown 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 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 and IVR WRSF • Underground backfill material • 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 main objectives pertaining to water management for Project are to limit and/or stop the flow of surface water runoff in the pit and to limit the impact on the local environment. 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 surface water Management 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 pits and in low points surrounding the open pits. Contact water will be diverted and collected in various sumps and water collection ponds and conveyed to an Attenuation Pond. Two attenuation ponds are planned for surface water and include the Whale Tail Pit Attenuation Pond and the IVR Attenuation Pond at Lake A53.
- The IVR Attenuation Pond will contribute in reducing the operational water head in the Whale Tail Attenuation Pond. This will allow:
    - decreased operational risks (i.e. ice build-up above ramp and pit wall stability)
    - decreased overall volume of contact water and decrease global Arsenic (As) loading (less groundwater will flow in the pit and get in contact with PAG/ML material)

    - improved operation efficiency (reduce ice build-up beside the ramp that could reduce operation ramp width – keep double lane instead of having a single lane to keep a safe distance from the seepage area during winter time – observed previously at Goose Pit)
- The collected water will be treated if the water quality does not meet the discharge criteria established in the Water Licence 2AM-WTP1830.
- 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 or through a diffuser in Whale Tail Lake (South Basin) or other alternatives.
- 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.

Underground development groundwater and contact water will be managed separately from surface infrastructure contact water. For underground water management, water management infrastructure was defined based on the following underground water management guideline principles:

- Heating is required when mining below top of cryopeg
- Brine needed until cryopeg elevation is reached (-275m)
- Contact and non-contact UG water not segregated – segregation is an opportunity
- Separate mining in two water circuits: permafrost/under permafrost [upper/lower zone]
- Grouting is a mitigation measure during development (not included in hydrogeological model)
- UG storage stope (used to recycle UG water) – delay treatment, needed early
- Recirculation of brine during mining operation
- Limit addition of freshwater (used only for CRF, promote use of natural groundwater for operation)
- Treatment of UG saline water is required

The key strategies detailed below were implemented to support the underground water management:

- A Groundwater Storage Pond system (GSP) is designed to capture TDS (salt) affected waters. Up to three GSPs are planned to provide operational flexibility and adaptive management opportunity. GSP-1 is used to store high salinity water from early mining operations through the permafrost. GSP-2 is used to store low salinity water. A potential third pond (GSP-3) is planned for contingency
- Excess water volumes in the mine will be managed through the Underground Mine Stope and GSP-1 for high salinity water, and through GSP-2 for low salinity water. Excess water volumes

may also be managed with GSP-3 planned for contingency, operational flexibility, and adaptive management opportunity

- The Project has been planned with contingency water management storage to manage contact water during upset conditions. For example, GSP-3 could be used for temporary storage when not used for saline water management. This storage has sufficient capacity to manage the potential water quantity exceedances occurring during the freshet and can be used to hold excess contact water temporarily until it can be treated by the water treatment plant during the remaining open water season (July to September). During this time, at maximum capacity, the excess water can be treated and discharged within two weeks.
- At the end of underground mining, any remaining water in GSP ponds will be pumped underground for flooding of the underground workings

3.1.2 Water Management System

The water management system includes contact water collection ponds, freshwater collection ponds, diversion channels, retention dikes, culverts, water treatment plants for effluent, potable water treatment plant, sewage treatment plant, and discharge diffusers (as listed in Table 3.2). These various components are identified in Appendix A.

The water management system includes the following components (identified in Appendix A):

- two contact water collection ponds (Whale Tail Attenuation and Whale Tail WRSF, plus the IVR Attenuation and GSP Ponds once built);
- 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, plus the IVR diversion once built);
- four water retention dikes (Whale Tail, Mammoth, Whale Tail WRSF, and Northeast, plus the IVR dikes once built);
- Culverts
- 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;
- discharge diffusers located in Lake A16 and Whale Tail South
- a dewatering system for the Whale Tail North Basin (to the South Basin and to Mammoth Lake including their respective diffusers, plus possibly dewatering systems for A53 and NE Pond).

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;
- 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 Appendix A.

Table 3.1 Inventory of Waterbodies Directly Impacted by Mining Activities

Watershed	Primary Disturbance	Waterbody	Note
A	Dewatering	Lake A17	Dewatering of Lake A17 (Whale Tail Lake) to Whale Tail Lake (South Basin)
	IVR Pit	Lake A46	Part of the IVR Pit footprint
		Lake A47	Part of the IVR Pit footprint
		Lake A49	Part of the IVR Pit footprint
		Pond AP-67	Part of the IVR Pit footprint
		Pond AP-68	Part of the IVR Pit footprint
	IVR WRSF Placement	Lake A50	Partially covered
		Lake A51	Covered
		Lake A52	Covered
		Pond A-P21	Covered
	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

Watershed	Primary Disturbance	Waterbody	Note
		Pond A-P1	Flooded
		Pond A-P53	Flooded
	Various Water Management Activities	Lake A17 (Whale Tail Lake)	Whale Tail Lake (North Basin) used as the Whale Tail Attenuation Pond Whale Tail Lake (South Basin) receives dewatering flows during dewatering activities, and discharge of treated effluent
		Lake A16 (Mammoth Lake)	Receives discharge of treated effluent
		Lake A53	Used as the IVR Attenuation Pond
		Lake A50	Covered by a Groundwater Storage Pond
C	Water Intake	Lake A16 (Mammoth Lake)	Sourced during operations for emulsion plant
		Lake C38 (Nemo Lake)	Sourced during operations
		Lake A17 (Whale Tail Lake)	Whale Tail Lake (South Basin) sourced during closure

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 Appendix K: Project Design Considerations of the Water Licence 2AM-WTP1826 amendment, submitted to the NWB in May 2019. 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 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	• Turbidity Curtains installation for dike construction • Start Whale Tail Dike

Mine Year	Figure	Water Management Facilities Constructed or Installed
		• 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 to 7 (2019-2025) Operations	A.2 to A.8	• Completion of Whale Tail Dike • Construction of Mammoth Dike • Construction of the Whale Tail WRSF Dike • Construction of the Northeast Dike • 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), plus possibly dewatering systems for A53 and NE Pond • Construction of the Whale Tail contact water intake causeway and 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 • Construction of the of the Whale Tail Dike seepage collection system • 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) • Groundwater Storage Ponds • IVR Attenuation Pond Pump Station • IVR WRSF Contact Water Collection System ; Ore stockpile 3 Contact Water Collection System • IVR Diversion • IVR D-1, D-2, and D-3 dikes

Mine Year	Figure	Water Management Facilities Constructed or Installed
		• Underground Water Management System

WRSF = Waste Rock Storage Facility.

3.1.4.2 Dike Construction

Infrastructures Under Whale Tail Pit Project

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 (SWTDC). 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 has conducted 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 of 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 measures 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 dismantled 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.

Infrastructures Under Expansion Project

During the Expansion Project, flow of surface water into the Whale Tail Pit will continue to be controlled by Whale Tail Dike and Mammoth Dike. Flow of surface water into IVR Pit will be controlled by the IVR Diversion and IVR Attenuation Pond Dikes. Construction mitigation measures and construction methods of the A53 Dikes are consistent with measures and methods for dike construction of approved infrastructure (above). The Lake A53 catchment remains at baseline conditions until 2020 when it becomes the IVR Attenuation Pond following fishout once the IVR Attenuation Pond dike is constructed and dewatering of Lake A53 is complete; however, its outlet only drains naturally to Whale Tail Lake (North Basin) in 2018, prior to its diversion to Whale Tail Lake (South Basin) from 2019 to 2020 The IVR Attenuation Pond is operational by freshet 2021. Detailed engineering for water management infrastructures under the Expansion Project will be complete in 2020 and the design report will be submitted to regulators for approval via 60-day Construction Notice, per the Water License condition.

The discharge diffuser at Whale Tail Lake (South Basin) will be like the diffuser designed and authorized for Mammoth Lake discharge and authorized under the current Type A Water Licence.

3.1.4.3 Dewatering

As per Type A Water Licence 2AM-WTP1830, Agnico Eagle 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) was partly dewatered following the Whale Tail Dike construction.

The dewatering system consists of two systems. The first system consisted of 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 m^3 of water was discharged directly to Whale Tail Lake South Basin without requiring treatment. The second phase of dewatering started in 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 was completed in Q2 2020, part of the North Basin located outside the Whale Tail Pit footprint became the Whale Tail Attenuation Pond. The Attenuation Pond will receive contact water from different sumps and ponds around site.

Waterbodies and ponds within the footprint of the IVR Pit and IVR Attenuation Pond will require dewatering in 2020. Indeed, to allow the mining of the IVR Pit, lakes A47 and A49 would need to be dewatered in 2020. Like the Whale Tail (North Basin), approximately 2/3 of the dewatered water from Lake A53 would be pumped and directly discharged to Whale Tail Lake (South Basin), prior to operations of the IVR Attenuation Pond before the 2021 freshet. The remaining 1/3 of the water will be processed through the O-WTP during open water conditions. The IVR Attenuation Pond is intended

to manage all contact water from 2021 to closure while discharging through the O- WTP during open water conditions.

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.

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 alternatives.

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 prior to discharge to the receiving environment.

Non-contact water will be diverted away from the mine site infrastructure by reversing natural flows and/or using diversion channels.

Freshwater usage on site will be supplied from Lake C38 (Nemo Lake) and from Lake A16 (Mammoth Lake) during operations, and from Whale Tail Lake (South Basin) during closure.

In the amended Water Licence the permitted freshwater sources are Nemo Lake (all purpose), Lake D1 (Re-flooding of Whale Tail Pit, IVR Pit, Underground mine, and Whale Tail (North Basin) and associated use, or as otherwise approved by the Board in writing), Whale Tail South (Re-flooding of Whale Tail Pit, IVR Pit, Underground mine, and Whale Tail (North Basin) and associated use, or as otherwise approved by the Board in writing).

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, ore stockpiles, industrial sector, and main camp 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)

Mine Year	Water Management Activities and Sequence
	• 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, treat as needed at WTP) (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) or Whale Tail Lake (South Basin) • 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 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) • Construct IVR Diversion and divert non-contact water from the Northeast Sector to Nemo Lake • Treat GSP 2 contact water through the TSS and arsenic removal units of the Operation WTP and discharge to Lake A16 (Mammoth Lake) in summer months • Pump contact water from the IVR Pit to the Whale Tail Attenuation Pond

Mine Year	Water Management Activities and Sequence
	• Pump contact water from the IVR WRSF Contact Water Collection System to the Whale Tail Attenuation Pond • Pump excess water from underground sump to GSP 1 when Underground Storage Stope is full • Pump Underground Storage Stope high salinity water to GSP 1 • Dewater Lake A53 to Whale Tail Lake (South Basin) • Pump contact water from the Whale Tail Pit to the IVR Attenuation Pond • Pump contact water from the WRSF Pond to the IVR Attenuation Pond • Pump contact water from the IVR Pit to the IVR Attenuation Pond • Pump contact water from the IVR WRSF Contact Water Collection System to the IVR Attenuation Pond • Pump contact water from the Whale Tail Attenuation Pond to the IVR Attenuation Pond • Capture runoff from Whale Tail WRSF and NPAG WRSF; pump to the IVR Attenuation Pond • Treat the IVR Attenuation Pond contact water through the WTP and discharge in Whale Tail Lake (South Basin)
Year 4 (2022)	• Pump excess underground sump water to the GSP once underground operations cease brining of drilling waters • Treat GSP 2 water with WTP in summer months; discharge to Whale Tail Lake (South Basin) • Treat GSP 1 water with WTP; discharge to Whale Tail Lake (South Basin)
Year 5 to Year 7 (2023 to 2025)	• Treat GSP 2 water with WTP; discharge to Whale Tail Lake (South Basin)

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 3.1.4.18. 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	IVR Attenuation Pond
Whale Tail and IVR WRSFs 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 Pits (Whale Tail and IVR)	Open pit sumps	

WRSFs = Waste Rock Storage Facilities.

3.1.4.5 Erosion and Sediment Control Plan

As described in the previous sections, Project 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 and IVR Pits may include:

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

Permanent BMPs at the Whale Tail and IVR Pits may include:

- Infiltration basins and trenches
- Sedimentation basins or ponds
- 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 Water Quality and Flow Monitoring Plan (Agnico Eagle, 2019), and dike construction sediment control and monitoring is presented in the Dike Construction and Dewatering Management Plan (Agnico Eagle, 2020).

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 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) or Whale Tail South. 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 or Whale Tail South 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 until 2020 (i.e., when the IVR Attenuation Pond becomes operational), and to the IVR Attenuation Pond from 2020 to closure. The ultimate footprint of the Whale Tail WRSF will span three catchment areas, and runoff from the Whale Tail WRSF will therefore report to the Whale Tail WRSF Contact Water Collection System, the North Channel Collection area, and the IVR Pit. During operations, the Whale Tail WRSF Contact Water Collection Systems and the IVR Diversion area will receive runoff from WRSF within their catchment areas, natural runoff from the surrounding area, and direct precipitation.

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.

In April 2019, O'Kane Consultants developed a landform water balance model for the Whale Tail and IVR WRSFs (OKC, 2019). The objective of the landform water balance was to estimate the runoff, interflow, and basal seepage rates for different slopes and aspects of the Whale Tail and IVR WRSFs. The results of the WRSF landform water balance were used as inputs for the 2019 Mean Annual Water Balance Update for the project expansion (Golder 2019d).

3.1.4.8 Water Management in IVR Waste Rock Storage Facility

The IVR WSRF becomes operational once the IVR Pit is initiated. Prior to its operation, the natural catchment forms a portion of the Northeast Sector. Runoff from the IVR WRSF is pumped to the active

attenuation pond (i.e., either the Whale Tail Attenuation Pond or the IVR Attenuation Pond). The total catchment of the IVR WRSF increases proportionally with the increase in waste rock footprint which encroaches on the natural catchment of the IVR Attenuation Pond over time.

3.1.4.9 Water Management for Overburden Storage

The overburden storage is located within the catchment of the Whale Tail Attenuation Pond as shown in 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.

3.1.4.10 Water Management for Ore Stockpile Areas

The ore stockpiles are located within the catchment of the Whale Tail Attenuation Pond as shown in 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.

The Ore Stockpiles are designed based on the following considerations. A minimum 1.0 m of overburden and/or waste rock will be placed over original ground to reduce any thaw-induced differential settlements. Waste rock will then be placed to follow the natural topography, thereby reducing the likelihood of water ponding on the surface of the pad requiring additional maintenance. A final grade of about 0.5% sloping towards the Whale Tail Attenuation Pond will be achieved. Any surface run off from the ore stockpile or the pad will therefore be directed to the Attenuation Pond containment area.

3.1.4.11 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 sectors was pumped to Quarry 1.

The contact water from Quarry 1 was pumped to Mammoth Lake without treatment when the water quality met discharge criteria. The discharge was done via the permanent diffuser in Mammoth Lake. If needed, water was treated via the Water Treatment Plant to meet discharge criteria.

Water quality monitoring follows the requirements of the Water License 2AM-WTP1830.

3.1.4.12 Water Management for the Whale Tail Open Pit Sector

The Whale Tail open pit is planned to extend to approximately 300 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. 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.

TDS concentration in the groundwater inflow to the pit was predicted to decrease during mining. The relatively low TDS concentration and decrease in TDS over time reflects the minimal upwelling of higher salinity waters at depth due to the presence of the permafrost at the base of the pit and the high contribution of lake water and Whale Tail Attenuation Pond water.

3.1.4.13 Water Management for the IVR Open Pit Sector

The IVR Pit is located just north of Whale Tail Lake, within the Northeast Sector in the permafrost environment, thus no groundwater inflows are predicted. Water management infrastructures will be designed to only manage runoff water reporting to the pit. The IVR Pit is initiated in Q3 2020. Its operational runoff is conveyed to the active attenuation pond (i.e., either the Whale Tail Attenuation Pond or the IVR Attenuation Pond).

3.1.4.14 Water Management for Haul Roads

A network of access and haul roads will connect the ore body to the Whale Tail and IVR WRSF Sector and the Industrial Sector. Most 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.

3.1.4.15 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 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.

3.1.4.16 Sludge and Brine Management from Water Treatment Plants

This section summarizes water treatment requirements and is extracted from the Mean Annual Water Balance and the Mine Site and Downstream Receiving Water Quality Predictions, from Golder Associates, both dated May 2019. 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 disposal will be done in the Whale Tail WRSF.

OPERATION WATER TREATMENT PLANT (O-WTP)

From April to May 2019, the last third of volume of water from the Whale Tail Lake (North Basin) was treated via the TSS removal unit of the O-WTP. It did not require attenuation of arsenic. The first two-thirds of the volume was free of suspended solids and discharged directly to Whale Tail Lake (South Basin).

The arsenic and TSS water treatment plant (O-WTP) was active as of the beginning of May 2019, to treat the final dewatering volumes from Whale Tail Lake (North Basin), which was discharged to Whale Tail Lake (South Basin). The arsenic water treatment unit has not been required so far. Subsequently, the O-WTP treats flows from Quarry 1 dewatering (June 2019), Whale Tail Attenuation Pond (2020 until closure), dewatering of the IVR Pit sector (summer 2020), the final dewatering volumes of Lake A53 (which becomes the IVR Attenuation Pond), and the IVR Attenuation Pond (summer 2020 until closure).

Sludge water from the Operation Water Treatment Plant (OWTP) is 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.

TDS WATER TREATMENT PLANT (S-WTP)

The S-WTP will include a TDS Treatment plant if required; it has not been commissioned at this time. Currently the S-WTP is not needed according to the latest water balance. The current underground mining plan is designed to minimize the inflows requiring TDS treatment. If required, the TDS Treatment plant will be used to treat low salinity water that is stored in the GSP-2 until closure. The TDS Treatment plant would be active only from June through September. The permeate would be combined with the O-WTP effluent for discharge from site.

The brine produced from the TDS Treatment plant would be stored in GSP-1. The S-WTP could also include two Desalination units, which would treat water stored in GSP-1. The salt solid produced from treatment would either used at site and/or shipped off site, and the permeate would be combined with O-WTP effluent for discharge from site.

3.1.4.17 Underground Water Management

Underground development groundwater and contact water will be managed separately from surface infrastructure contact water. For underground water management, the following key strategies were implemented to develop the underground water Management Plan:

- A Groundwater Storage Pond system (GSP) is designed to capture TDS (salt) affected waters. Up to three GSPs are planned to provide operational flexibility and adaptive management opportunity. GSP-1 is used to store high salinity water from early mining operations through the permafrost. GSP-2 is used to store low salinity water. A potential third pond is planned as contingency.
- Excess water volumes in the underground mine will be managed through the Underground Mine Stope and GSP-1 for high salinity water, and through GSP-2 for low salinity water. Excess water volumes may also be managed with GSP-3 planned for contingency, operational flexibility, and adaptive management opportunity
- At the end of underground mining, any remaining water in the GSP ponds will be pumped underground for flooding of the underground workings

3.1.4.18 Non-Contact Water Management

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-WTP1830 (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 are described below. These systems were implemented after discussion between Agnico Eagle and the Nunavut Water Board (August and September 2019).

North-East Pond to C-watershed

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 accesses 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-WTP1830.

Water quality is not considered at risk as this is non-contact water from NE Pond. To ensure compliance with the Water License 2AM-WTP1830, the effluent of the NE Pond will be monitored for TSS as per Part F Item 7.

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 2020, 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 will become the IVR Attenuation Pond in 2020.

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 2020 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-WTP1830 requirements, Schedule I Table 2 for ST-WT-7 and as per Part F Item 7 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-WTP1830.

Once in the dewatering phase Agnico will follow the Water Licence requirement and the Dike Construction and Dewatering Plan (as per the design report approved by NWB).

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-WTP1830 (same origin and destination of water). This pumping activity also provides flexibility and adds robustness to the water management strategy. Discharge is completed via a diffuser to avoid erosion into Mammoth Lake.

Water quality monitoring will follow the Water License 2AM-WTP1830 Part F Item 7 and Schedule I Table 1 - Group 3, same as the one required for water flowing though the Whale Tail South Channel.

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 the Whale Tail Attenuation Pond and then discharged to Whale Tail South Basin. This secures the operations at site.

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 Whale Tail Attenuation Pond, 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-WTP1830 and the Metal and Diamond Mining Effluent Regulation (MDMER). 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

The permitted freshwater sources as per the Water License 2AM-WTP1830 are Nemo Lake (all purpose), Lake D1 (Re-flooding of Whale Tail Pit, IVR Pit, Underground mine, and Whale Tail (North Basin) and associated use, or as otherwise approved by the Board in writing), Whale Tail South (Re-flooding of Whale Tail Pit, IVR Pit, Underground mine, and Whale Tail (North Basin) and associated use, or as otherwise approved by the Board in writing).

Freshwater usage includes potable use, fire suppression, dust suppression, drilling water (if contact water is not available), water for the emulsion plant, and water for the truck shop. The freshwater source is Lake C38 (Nemo Lake), and Lake A17 (Whale Tail Lake) during closure. For explosives mixing and associated use, the water is pumped from Lake A16 (Mammoth Lake), as per Part E, condition 1 of the Water License 2AM-WTP1830. Freshwater will also be required to refill Whale Tail Lake (North Basin) at closure and will be sourced from Lake D1 and inflows to Whale Tail Lake (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 4 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 Freshwater Treatment Plant (potable). 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. Detailed plant operation specifications were provided in FEIS Volume 1, Section 1. 2.4.1.

Freshwater and potable water use will extend for an additional three to six years (during operations) and additional freshwater will be required from Whale Tail Lake at closure. The current Type A Water Licence Part E Item 1 and 2 provides for a maximum quantity of water use not to be exceeded at 700,859 m^3 annually during construction and operation as well as 14,855,606 m^3 annually during closure. The freshwater usage from Nemo Lake needs to respect the license limit of 209,544 cubic meter per year.

It is important to note that total annual withdrawals of water from Nemo Lake (209,554 m^3/year) will remain well below i) the lake's annual inflow volume of approximately 476,000 m^3 (based on the mean annual water balance of the lake under baseline conditions), and ii) DFO's guideline of 10% of the under ice volume for the duration of operations (i.e., under-ice volume of 6,170,000 m^3 derived from FEIS Addendum Appendix 6-M submitted with the Whale Tail Pit - Expansion Project). Residual effects to fish and fish habitat are therefore expected to be negligible.

During closure, the Whale Tail and IVR Pits, the underground mine, and Whale Tail Lake (North Basin) will be allowed to flood naturally with non-contact water, treated water, freshwater from direct precipitation, runoff from adjacent land, and Whale Tail Lake (South Basin). It is anticipated that approximately 47,000,000 m^3 over 16 years from Whale Tail Lake is required to fill the mined-out Whale Tail Pit (i.e., approximately 55,000,000 m^3), IVR Pit (i.e., approximately 10,000,000 m^3), underground mine (i.e., approximately 1,000,000 m^3) and Whale Tail Lake (North Basin) (i.e., approximately 6,000,000 m^3) to its original level, representing approximately 2,900,000 m^3/year from Whale Tail Lake (South Basin).

As per part E, condition 2 of the Water License 2AM-WTP1830, 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. The limit for Nemo Lake is 14,672 m^3/year and the limit for Lake D1 is 1,710,000 m^3/year, both 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 or IVR 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 (4 cubic metres per hour [m^3/hour]).

Currently, the sewage treatment plant at the Amaruq camp can accommodate 400 workers as presented previously. With the addition of four wings to the Operations Camp for potential project expansion, the total camp capacity will increase to 600 workers. An expansion of the sewage treatment systems is thus required. These systems are built with typical 40-foot containers.

No major change in operation and water quality are expected with this expansion. The sewage treatment system will be designed based on a flow rate of 240 L per day per room for 544 people, for an average daily flow rate of 131 m^3/day (5.45 cubic metres per hour [m^3/hour]).

The sewage treatment plant receives two streams of sewage. The first source is domestic sewage, which is fed directly to the fine screening process to remove any fibers or debris that might damage the membranes. The second source is kitchen sewage which is pre-treated in the oil and grease tanks to remove oil and grease prior to being fed into the fine screen.

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). Sewage treatment facilities will continue to be managed in accordance with the approved Amaruq Gold Wastewater Treatment System Operation and Maintenance Plan dated 2019 approved by the NWB as provided in Part B, Item 14 of Type A Water Licence 2AM-WTP1526. As stipulated in Part B, Item 17, Agnico Eagle will review the Plans as required by changes in operation and/or technology and modify the Plans accordingly in the form of an addendum to be included in the Annual Report.

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 blended 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 (Golder, 2019a). The 2020 version will be submitted with this Plan.

Water management during closure and reclamation will involve actively filling the underground facilities and IVR Pit, and passively allowing the Whale Tail Attenuation Pond and the Whale Tail Pit to flood. The Groundwater Storage Ponds and IVR Attenuation Pond will be emptied at the start of closure and backfilled with NPAG/NML waste rock. The Whale Tail and IVR WRSFs will be progressively covered with NPAG/NML waste rock throughout operations and are expected to be completely covered at the beginning of closure.

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 pit lake 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 Whale Tail WRSF seepage analysis and hydrodynamic modelling of Mammoth Lake were conducted to address NIRB project certificate Term and Condition no. 6a. 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, 2019c). Results show that no modification to the water management strategy is needed concerning closure activities and sequence.

Runoff from the Whale Tail WRSF and discharge from Whale Tail Lake (North Basin) (IVR runoff flows to Whale Tail Lake (North Basin)) will enter and mix in Mammoth Lake. Concentrations outside the mixing zone of the Whale Tail WRSF contact water plume are predicted to meet receiving water quality criteria. Results of the studies showed that baseline drainage patterns of East Sector needs to be re-established to direct runoff towards the Whale Tail Attenuation Pond, including runoff over the backfilled IVR Attenuation Pond. Runoff from the IVR WRSF and the backfilled Groundwater Storage Ponds needs to be passively directed to the Whale Tail Pit. Exposed pit walls in the IVR Pit will need to be resloped and capped with NPAG/NML material to avoid potential constituent release from IVR Pit walls. The IVR Pit walls are composed primarily of south komatiite and basalt with some north greywacke rock. Based on these predictions, a control mechanism will be implemented for IVR Pit Walls including re-sloping and cover placement.

The dewatered Whale Tail Pit and IVR Pit area will be filled with a combination of natural runoff and contact water from the entire site (i.e., the Whale Tail and IVR WRSF Contact Water Collection Systems and the Whale Tail and IVR Attenuation Ponds), and water pumped from Whale Tail Lake (South Basin). The runoff and seepage from the Whale Tail WRSF and IVR WRSF will continue to be collected in the designated collection ponds and pumped to Whale Tail Lake (North Basin) during active closure (re-filling). Water will be monitored during flooding and until results demonstrate that water quality conditions from the WRSFs are acceptable for direct discharge. Based on the cover thermal model results, the Whale Tail WRSF and IVR WRSF will be covered with a cover of 4.7 m thick to be constructed with NPAG/NML waste rock. The intent of the cover is to contain the yearly active layer inside the thickness of the cover and to maintain a temperature below 0° Celsius for the underlying rock. The objective of the cover is the control of acid generating reactions and of migration of contaminants by freezing. Consistent with the Approved Project, the segregation of the PAG/NPAG and ML/NML waste rock will occur during the operation of the mine.

The key water management activities during mine closure are summarized in Table 3-6. Appendix B shows the water management flowsheets during mine closure phases.

Table 3.6 Key Water Management Activities During Mine Closure

Mine Year	Key Water Management Activities and Sequence
Year 8 (2026)	• Dewater the Groundwater Storage Ponds and the IVR Attenuation Pond to the underground mine • Backfill the Groundwater Storage Ponds and the IVR Attenuation Pond with NPAG/NML waste rock • Draw-down of the raised Whale Tail Lake (South Basin) to 153.5 masl, pumping to the underground until refilled and then to the IVR Pit. Lake A55, Lake A65, Lake A62, Lake A63, Lake A18, Pond A-P23, Lake A20, Lake A21, Lake A22, and Lake A45 return to baseline elevations. • Water from Whale Tail Lake (South Basin) ceases flow through Whale Tail Lake Diversion Channel and to Lake A16 (Mammoth Lake) • Decommission IVR Diversion to re-establish baseline drainage patterns of the Northeast Sector catchment towards the IVR Pit • Pump WRSF Pond water to the IVR Pit • Pump Whale Tail Lake (South Basin) to the IVR Pit during summer months to maintain its elevation at 153.5 masl • Re-establish baseline drainage patterns of East Sector runoff towards the Whale Tail Attenuation Pond, including runoff over the backfilled IVR Attenuation Pond • The Whale Tail Attenuation Pond overflows (once full) into the Whale Tail Pit • Passively direct runoff from the IVR WRSF and the backfilled Groundwater Storage Pond to the Whale Tail Pit • Runoff from the backfilled Groundwater Storage Ponds flow to the Whale Tail Pit • Start of site water quality monitoring of flooding open pit reservoirs
Year 9 to Year 21 (2027 to 2041)	• Refilling of the IVR Pit to 149.3 masl (i.e., the spill elevation of the IVR Pit onto the bed of Whale Tail Lake [North Basin]) expected in 2027 • The IVR Pit reaches the spill elevation to the Whale Tail Pit and begins overflowing to the Whale Tail Pit • A sill will be constructed at closure on the upstream of Mammoth Lake to increase the water level by 1 m to 153.5 m.
Year 22 (2042)	• The Whale Tail Pit reaches the spill elevation that connects it with the Whale Tail Attenuation Pond and both water bodies fill simultaneously • The Whale Tail Pit and the Whale Tail Attenuation Pond reach the spill elevation that connects the Whale Tail Pit with the IVR Pit, and all three reservoirs fill simultaneously to 153.5 masl, forming Whale Tail Lake (North Basin) • Once Whale Tail Lake (North Basin) is flooded to 153.5 masl, pumping of the Whale Tail Lake (South Basin) to Whale Tail Lake (North Basin) during summer months will be on-going to maintain the elevation of Whale Tail Lake (South Basin) to 153.5 masl until water quality allows to decommission the dikes and reconnect the North and South Basins of Whale Tail Lake • Once Whale Tail Lake (North Basin) is flooded to 153.5 masl, remove STP • Once Whale Tail Lake (North Basin) is flooded to 153.5 masl, decommission the Whale Tail WRSF Dike and re-establish natural drainage patterns of the Whale Tail WRSF Sector Lake A16 (Mammoth Lake)

Mine Year	Key Water Management Activities and Sequence
	• Once Whale Tail Lake (North Basin) is flooded to 153.5 masl, create spillway in Mammoth Dike to re-establish baseline flow patterns to Lake A16 (Mammoth Lake) • Decommission the Whale Tail Dike, water quality permitting • Remove site infrastructure
Post-Closure (2043+) (triggered when water quality in all three water bodies meets the appropriate water quality criteria)	• Monitoring

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

3.2.1 Flooding Sequence

The flooding sequence will be adapted to meet water quality closure objectives to allow for the reconnection of the lakes. Both the water balance and water quality forecast will be updated during operations and closure phases in order to optimize the flooding sequence.

The Whale Tail Open Pit will be filled with a combination of natural runoff and contact water from the entire site. The Underground mine and the IVR Open Pit will be filled with a combination of natural runoff and contact water from the entire site and water pumped from Whale Tail Lake (South Basin). Flooding will begin following the end of operations.

Beginning in 2026, the water accumulated in Whale Tail Lake (South Basin) over the years of operations will be pumped into the underground mine until it is filled and into the IVR Pit thereafter. Active closure will be consistent with the Approved Project and current Type A Water Licence 2AM-WTP1830. Whale Tail Pit active closure will be followed by passive closure measures until the pits and underground have flooded, Whale Tail Lake and IVR Pit water levels are restored, and runoff from the WRSFs are shown to be suitable for uncontrolled release.

The Whale Tail Pit operations will be closed and reclaimed in a manner consistent with the Approved Project and as required under Project Certificate No. 008 and Type A Water Licence 2AM-WTP1830.

It is anticipated that approximately 47,000,000 m^3 over 16 years from Whale Tail Lake is required to fill the mined-out Whale Tail Pit (i.e., approximately 55,000,000 m^3), IVR Pit (i.e., approximately 10,000,000 m^3), underground mine (i.e., approximately 1,000,000 m^3) and Whale Tail Lake (North Basin) (i.e., approximately 6,000,000 m^3), including representing approximately 2,900,000 m^3/year from Whale Tail Lake (South Basin).

Following the first pumping summer, the water elevation in Whale Tail Lake (South Basin) will be back to the baseline value (153.5 masl) and no outlets will be available for this basin as the Whale Tail Lake (South Basin). The elevation of the Mammoth sill will be 153.5 masl. The Diversion Channel is at the elevation 156 masl and the Whale Tail Dike is maintained in place. Refilling of the IVR Pit to 149.3 masl (i.e., the spill elevation of the IVR Pit onto Whale Tail Lake (North Basin) is expected in 2027. Refilling of Whale Tail Pit to 146.3 masl (i.e., the spill elevation of the Whale Tail Pit onto the bed of Whale Tail Lake (North Basin) is expected in 2039.

3.2.2 Contact Water Collection System

The contact water collection system will remain in place to collect surface runoff water and seepage from the mine site until the open pits are flooded. During this period, 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). The Mammoth Dike and Whale Tail Dike will remain in place until pit lake water quality meets receiving environment water quality objectives. If this occurs after full flooding as is predicted at this time, the pit lake water elevation will be maintained at 153.5 masl by pumping from Whale Tail (South Basin)to the North Basin, and through controlled discharge from Whale Tail (North Basin) to Mammoth Lake over the Mammoth sill.

In the Whale Tail WRSF Sector, the contact water collection system will remain in place. Dikes will not be reconnected 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.

In closure, water from the Whale Tail WRSF Contact Water Collection System is used to actively flood IVR Pit, and the IVR WRSF water is directed to Whale Tail Pit. In post-closure, water from the Whale Tail WRSF Contact Water Collection System is allowed to flow passively to Mammoth Lake as baseline drainage patterns are re-established. Lower volumes and chemical loading of water originating from either of the WRSFs would improve water quality throughout closure in the Whale Tail and IVR Pits, and in Mammoth Lake in post-closure.

Dike decommissioning will involve the removal (breach) of a portion of the dike to original ground levels whenever possible. 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 water collection and management systems 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.

3.2.3 Post-Closure Modeling Results Summary

Following refilling of Whale Tail Lake (North Basin) to 153.5 masl (i.e., to overtop the Mammoth Lake sill), and once the pit lake water quality is acceptable (full flooding predicted to occur in 2042; adequate water quality in 2042; Golder 2019c), the Whale Tail Dike, Mammoth Dike, and the Whale Tail WRSF Dike are decommissioned. Whale Tail Lake (North Basin) and Whale Tail Lake (South Basin) form Whale Tail Lake with a water surface area of 2.34 km^2, or a 41% increase from baseline, which flows to Lake A16 (Mammoth Lake) over the Mammoth Lake Dike via spillway. Runoff from the Whale Tail WRSF Contact Water Collection System area flows to Lake A16 (Mammoth Lake).

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

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.

Other inflows to Mammoth Lake include natural runoff and overflow from Whale Tail Lake; both are predicted to meet SSWQO as described in FEIS Appendix 6H (Agnico Eagle, 2016).

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 suggests 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 178,000m^3 predicted at maximum footprint year) using similar modelling assumptions. Recent modelling results of the WRSF landform reflect a significant reduction in the volume of seepage from the WRSF and conservative chemical load estimate to Mammoth Lake which will be verified with monitoring. As per Type A Water Licence 2AM-WTP1830 Part E, conditions 5 and 6, Agnico Eagle completes a site wide water balance and pit water quality model update for the Whale Tail Pit Site as part of the annual water management plan.

3.3 Water Balance

As per the Type A Water Licence 2AM-WTP1830, Part E, Item 5, a Project water balance will be updated and presented on an annual basis, integrated into the water management plan update. The developed water balance will assist in evaluating future water management infrastructure, including under closure conditions (Whale Tail Interim Closure and Reclamation Plan).

In 2020 prior to Expansion Project approval Golder was retained to develop a mean annual water balance for the original Approved Whale Tail Pit project, updated based on collected 2019 site data (Golder 2020b). It presented the results from operations into site post-closure, starting in 2019. It did not include any aspects related to the IVR Pit, Whale Tail Pit expansion, or the Underground mine.

As part of the Expansion Project approval process a water balance model was developed to assist in the evaluation of the proposed water management infrastructure, and estimation of the pumping requirements over the longer life of the mine (Addendum Volume 6, Appendix 6-O) and under closure conditions (Whale Tail Interim Closure and Reclamation Plan, 2019). The 2020 version will be submitted with this 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 (Whale Tail Pit – Expansion Project Mean Annual Water Balance (Golder 2019d).

3.4 Water Quality Forecast

Water quality forecast reports were prepared by Golder Associates Ltd. 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.

Note that the 2020 Water Quality Forecast does not include any aspects related to the Expansion Project since at that time it was not yet approved. In the 2020 report (Golder 2020a), 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.

As part of the Expansion Project approval process in May 2019 Golder Associates Ltd. prepared a water quality forecast update including the aspects related to the Expansion Project (Golder 2019c).

3.5 Adaptive Management

Adaptive management will be achieved through performance monitoring and management actions that will be implemented, should they be triggered. Action level responses taken during the year will be documented in Agnico Eagle's annual report submitted to the NWB. The Whale Tail Pit Expansion Project – Adaptive Management Plan (Agnico Eagle, 2020c) includes the specific adaptive management strategies that will be implemented in the WRSF to meet water quality objectives, and chemical and physical stability of the WRSFs during operations, closure, and post-closure phases. The Adaptive Management Plan is still under approval by the Nunavut Water Board but once approved this plan will fully cover the adaptive management strategy.

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APPENDIX A • YEARLY SITE LAYOUT PLANS

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

Figure A.2 **Yearly Site Layout Plan (Year 2020)**

Figure A.3 **Yearly Site Layout Plan (Year 2021)**

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

Figure A.5 **Yearly Site Layout Plan (Year 2023)**

Figure A.6 **Yearly Site Layout Plan (Year 2024)**

Figure A.7 **Yearly Site Layout Plan (Year 2025)**

Figure A.8 **Site Layout Plan (After Mine)**

Figure A.9 **WRSF, Starter Pit and Ore Stockpile Plan View, Roads and Pads Construction Drawing 6108-687-210-001**

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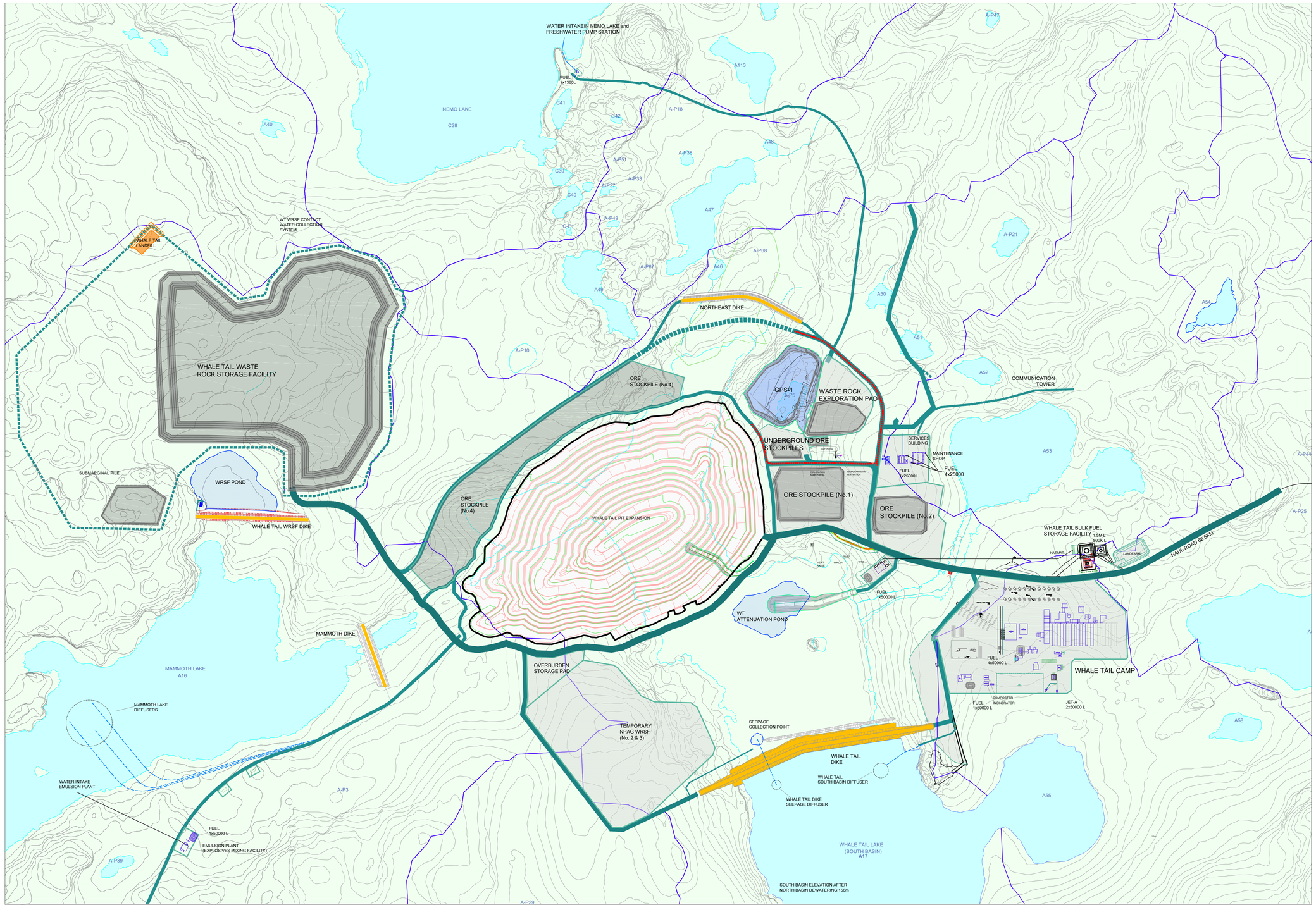

PLAN CLÉ
KEY PLAN

ISSUED FOR PERMITTING
DATE : 2019-05-06

NOTES GÉNÉRALES / GENERAL NOTES

LEGEND

- WATERSHED
- ATTENUATION POND
- WATER PIPE
- LAKE WATER
- OPEN PIT
- HAUL ROAD, LARGE WIDE
- HAUL ROAD, SINGLE LANE
- SERVICE ROAD
- ROAD, SALT PROTECTION
- ROCK PILE
- WATER POND
- PAD
- BUILDING

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REVISIONS

AMARUQ PROJECT

TITRE / TITLE

AGNICO EAGLE – MEADOWBANK DIVISION
AMARUQ MINE PROJECT
005 – SITE PREPARATION
210 GENERAL ARRANGEMENT
AMARUQ MINE SITE ARRANGEMENT
PERMITTING

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VÉRIFIÉ PAR CHECKED BY	J.MOSQUERA	2019-05-02
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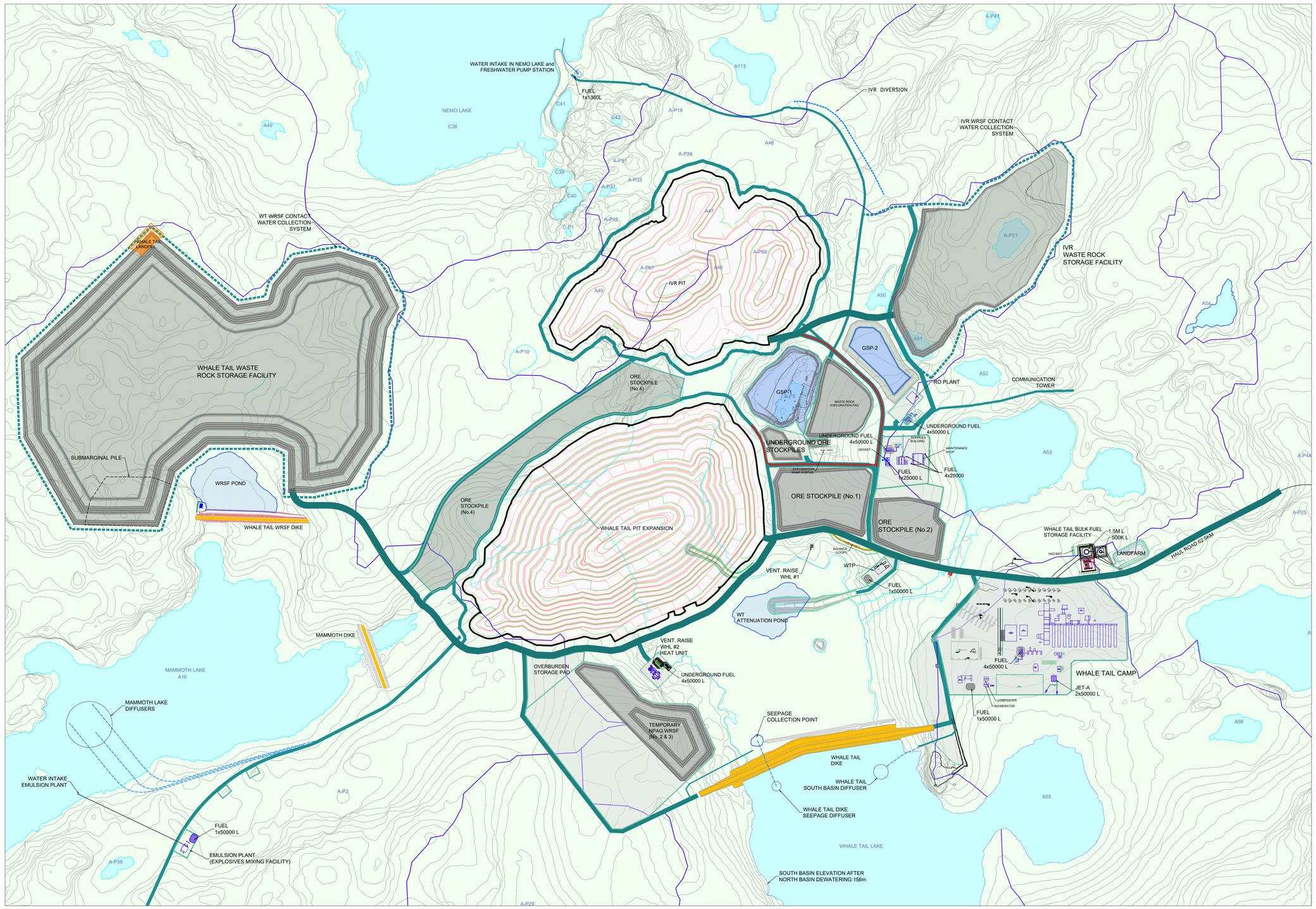

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KEY PLAN

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AGNICO EAGLE DATE : 2019-05-06

NOTES GÉNÉRALES / GENERAL NOTES

LEGEND

- WATERSHED
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REVISIONS

AMARUQ PROJECT

TITRE / TITLE
AGNICO EAGLE – MEADOWBANK DIVISION
AMARUQ MINE PROJECT
005 – SITE PREPARATION
210 GENERAL ARRANGEMENT
AMARUQ MINE SITE ARRANGEMENT
PERMITTING

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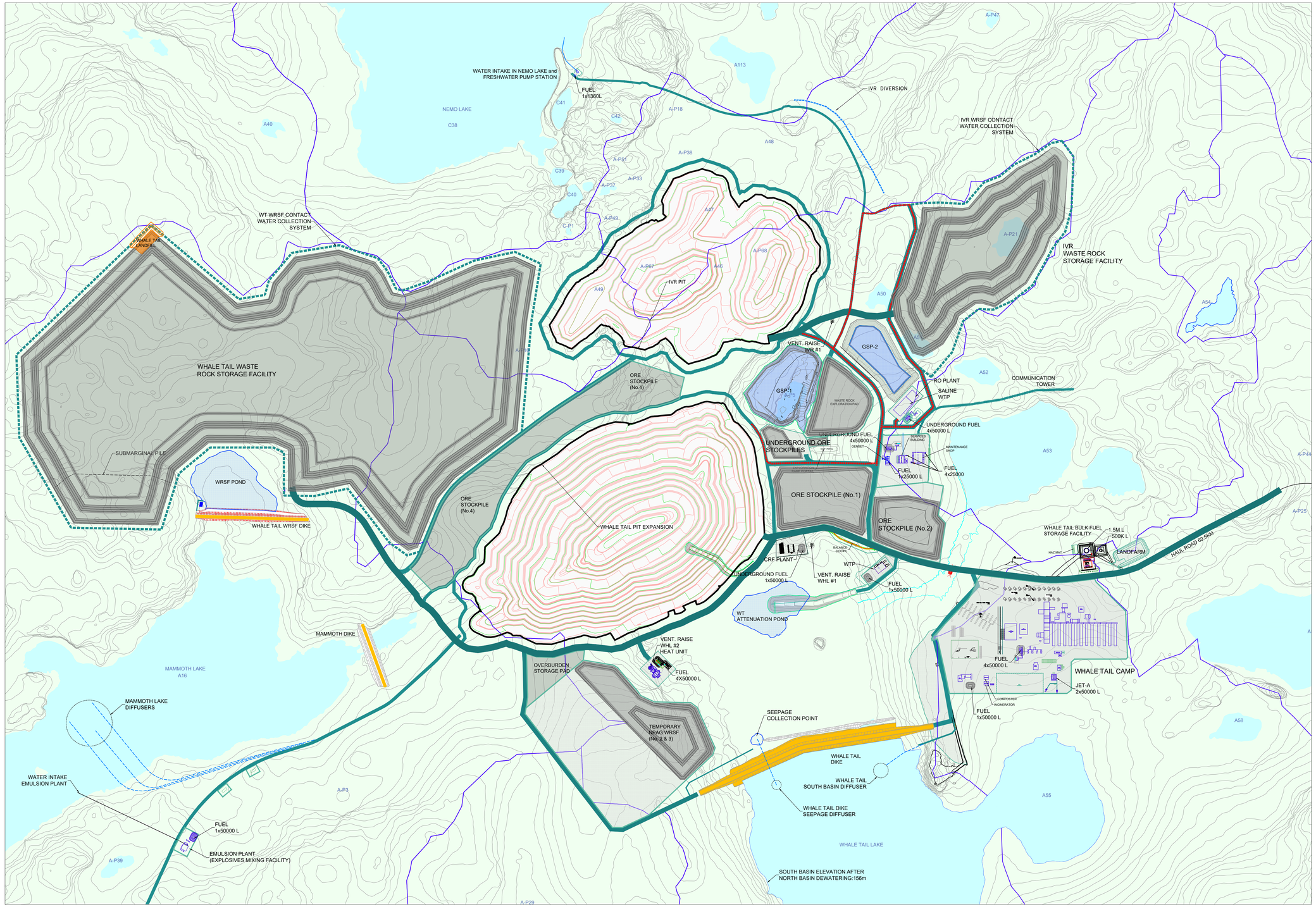

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KEY PLAN

ISSUED FOR PERMITTING
AGNICO EAGLE DATE : 2019-05-06

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LEGEND

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005 – SITE PREPARATION
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PERMITTING

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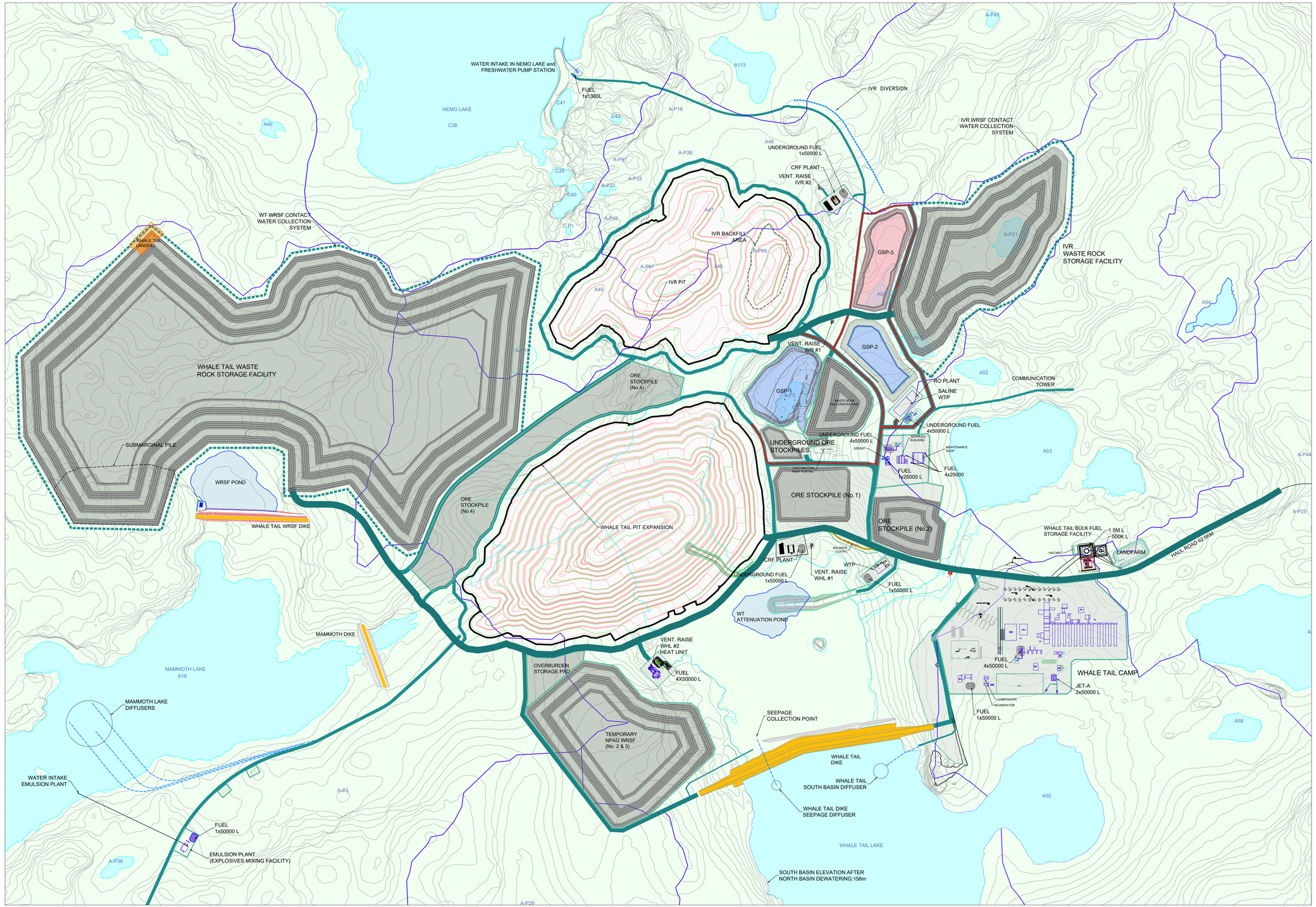

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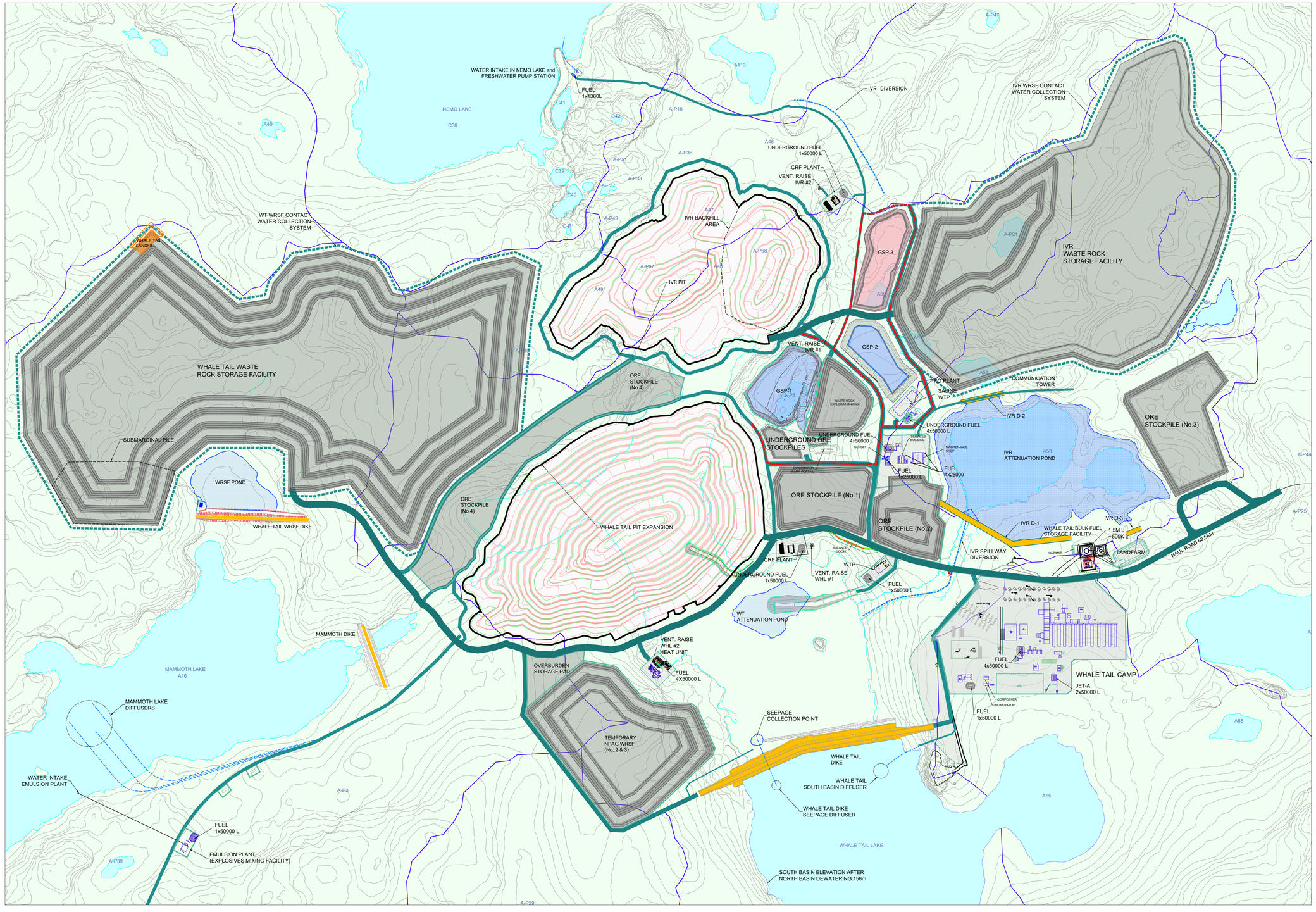

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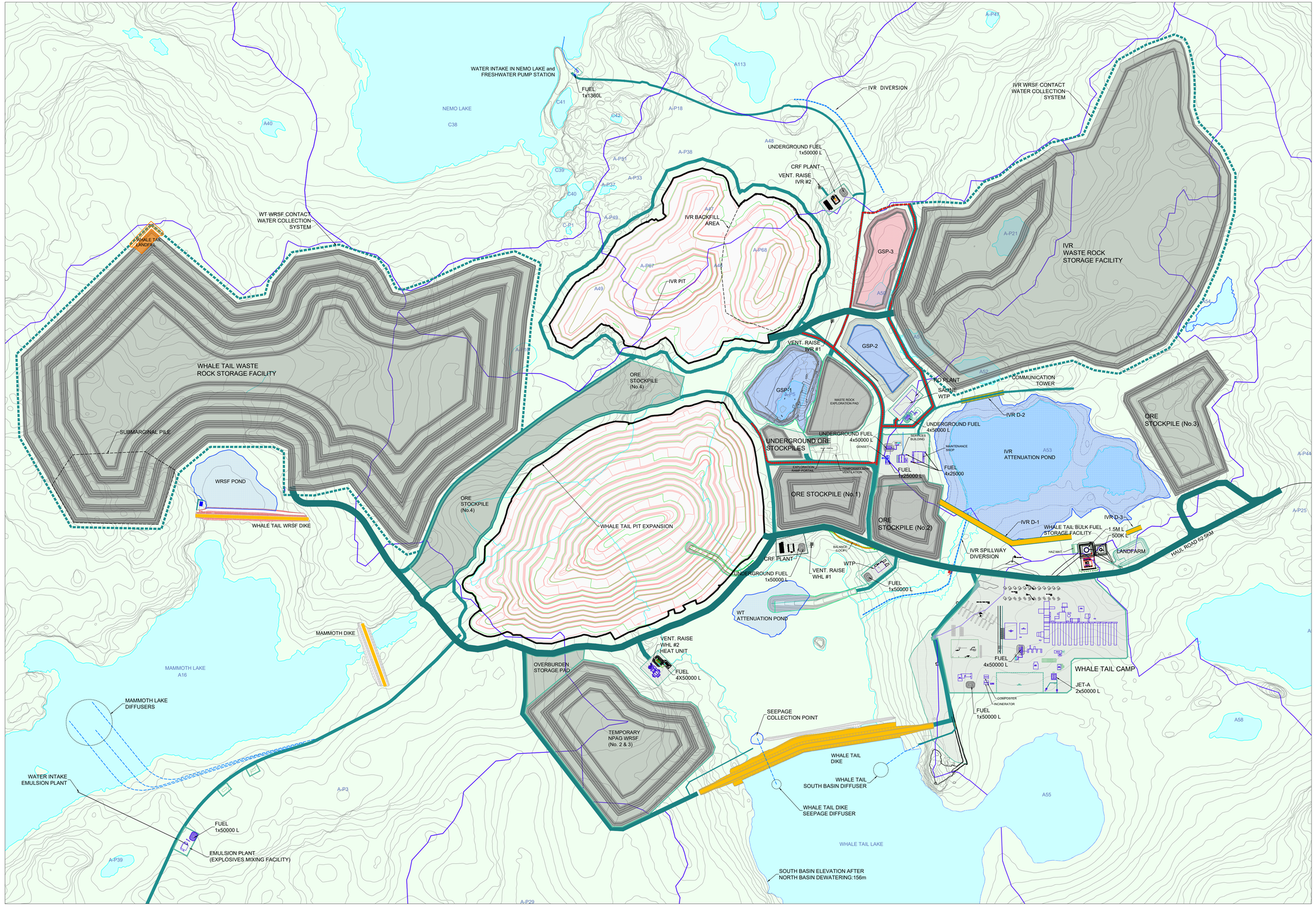

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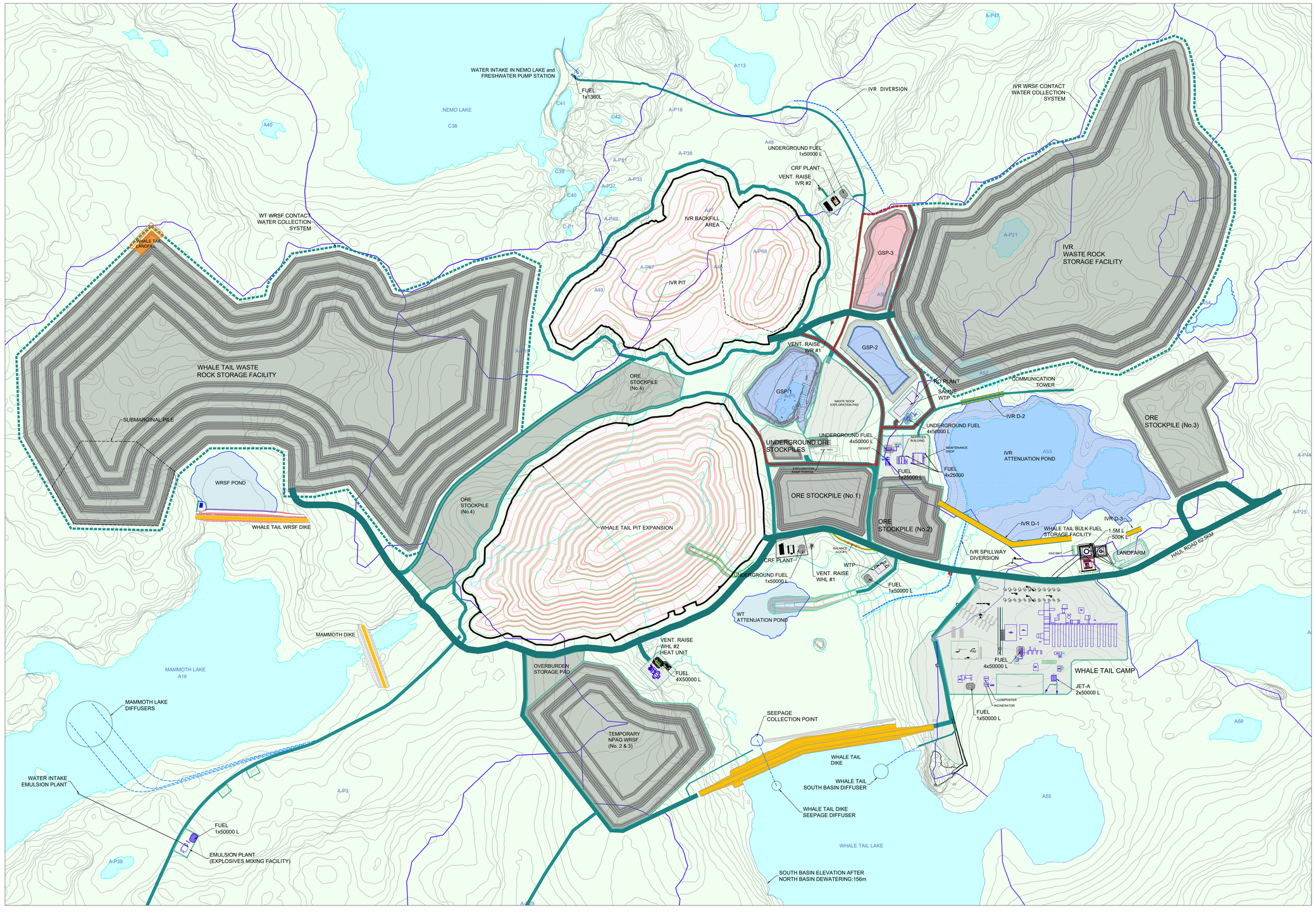

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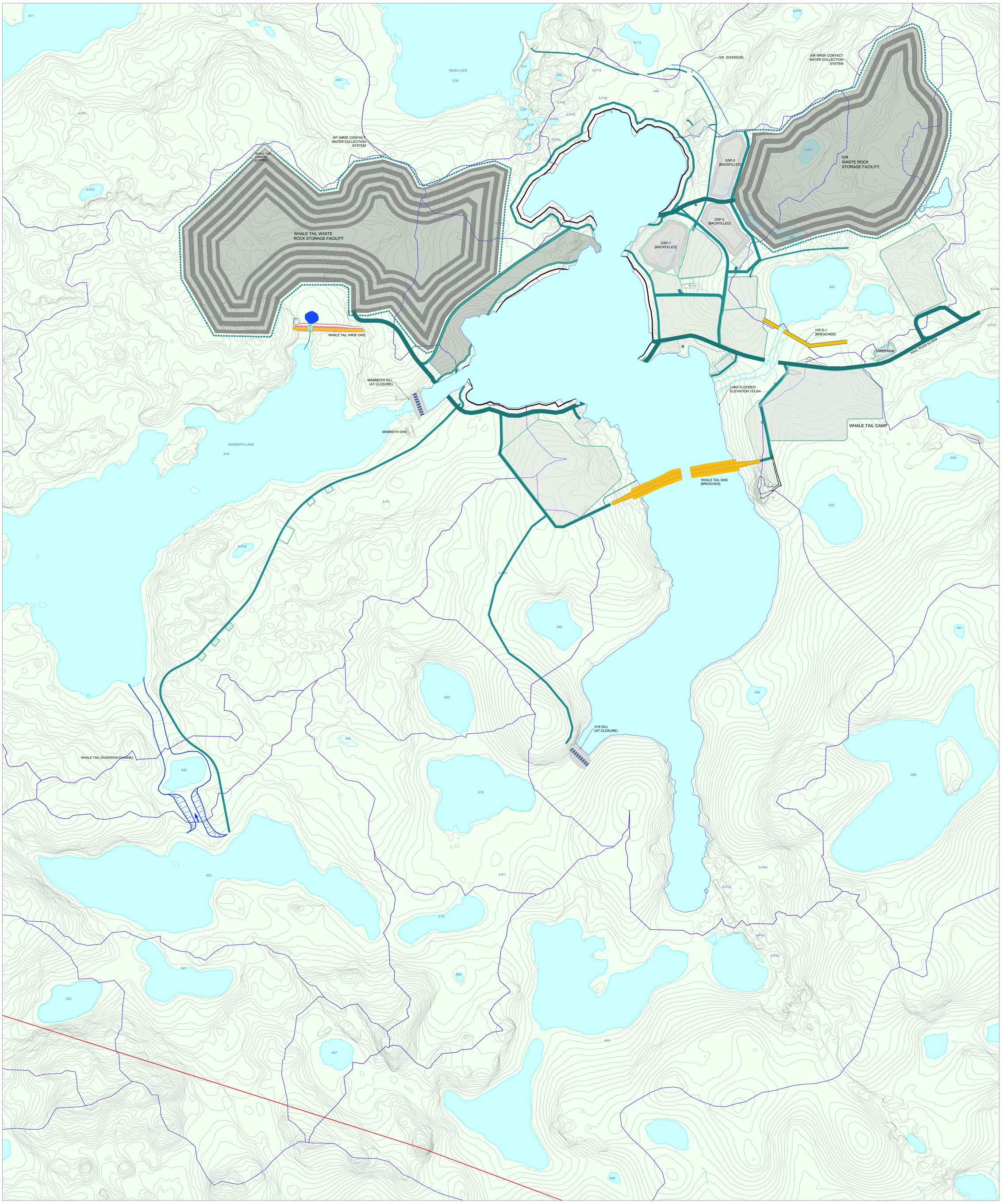

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- BUILDING
- SILL
- WEIR

NOTES GÉNÉRALES / GENERAL NOTES

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210 GENERAL ARRANGEMENT
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ÉCHELLE SCALE	FICHIER FILE
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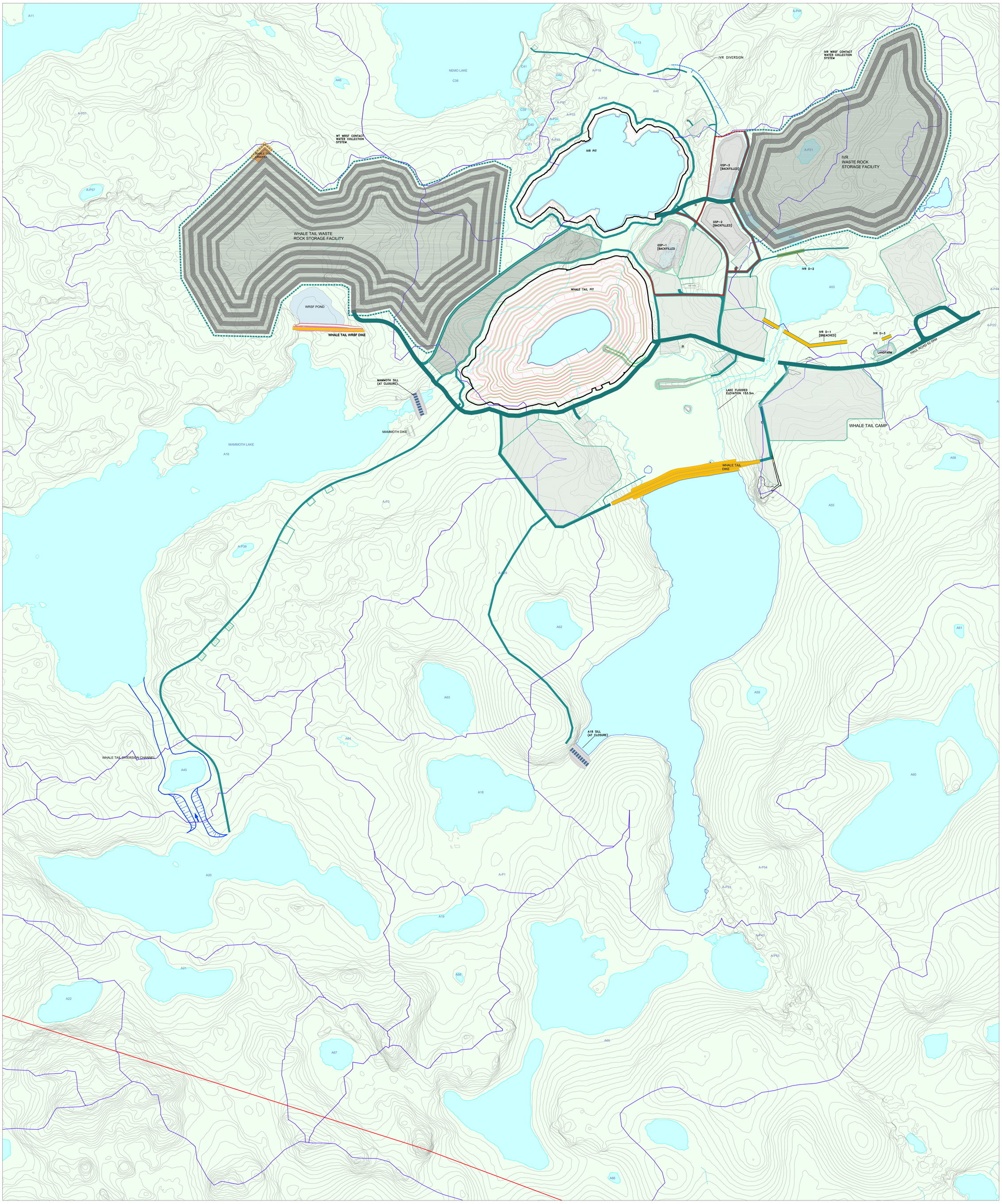

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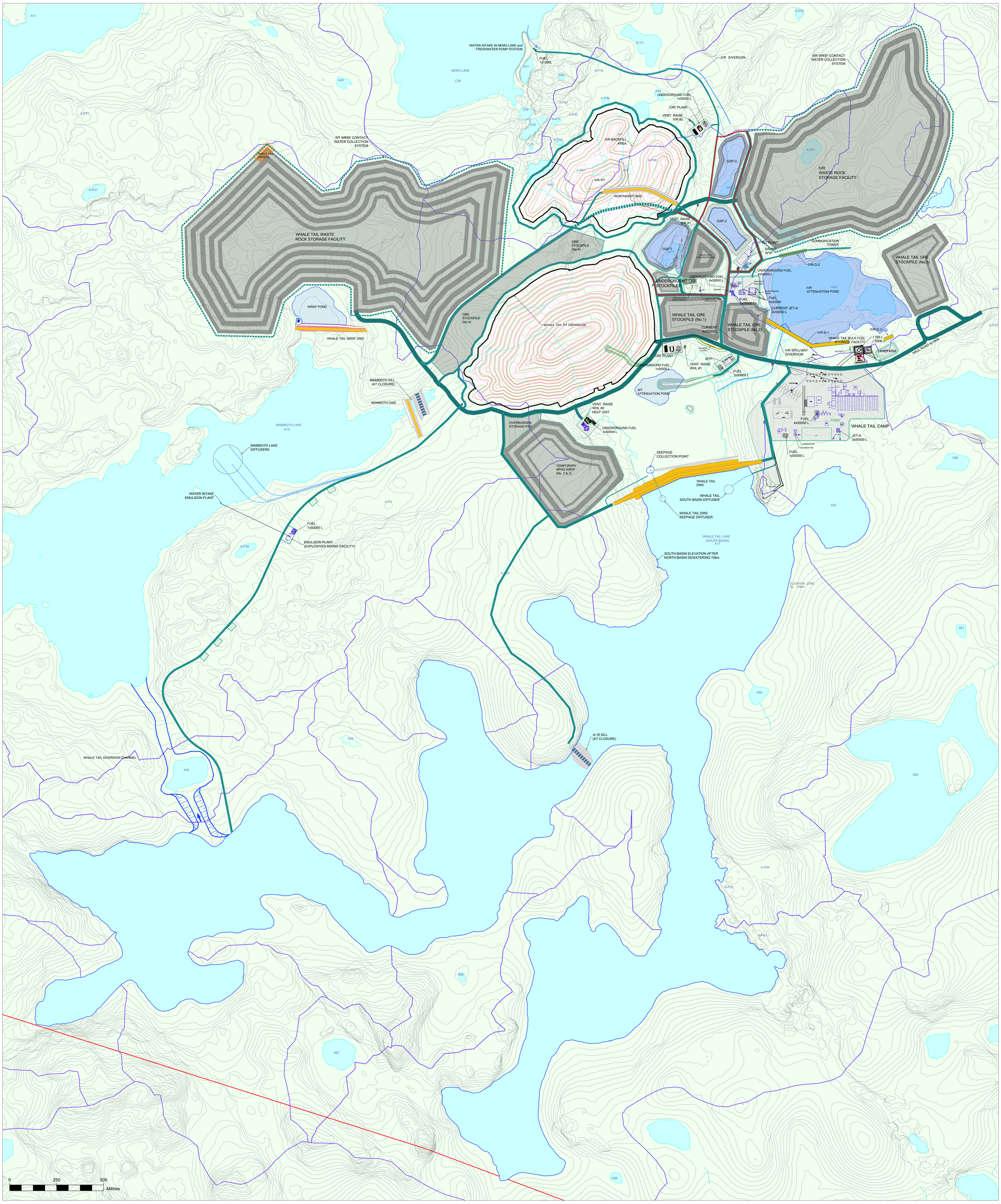
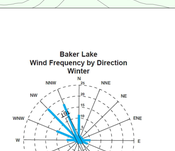


Baker Lake
Wind Frequency by Direction
Winter



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APPENDIX B • WATER MANAGEMENT SCHEMATIC FLOW SHEETS

Note that these flow sheets are from Golder 2019d and were updated to include the discharge of landfarm contact water to the IVR Attenuation Pond

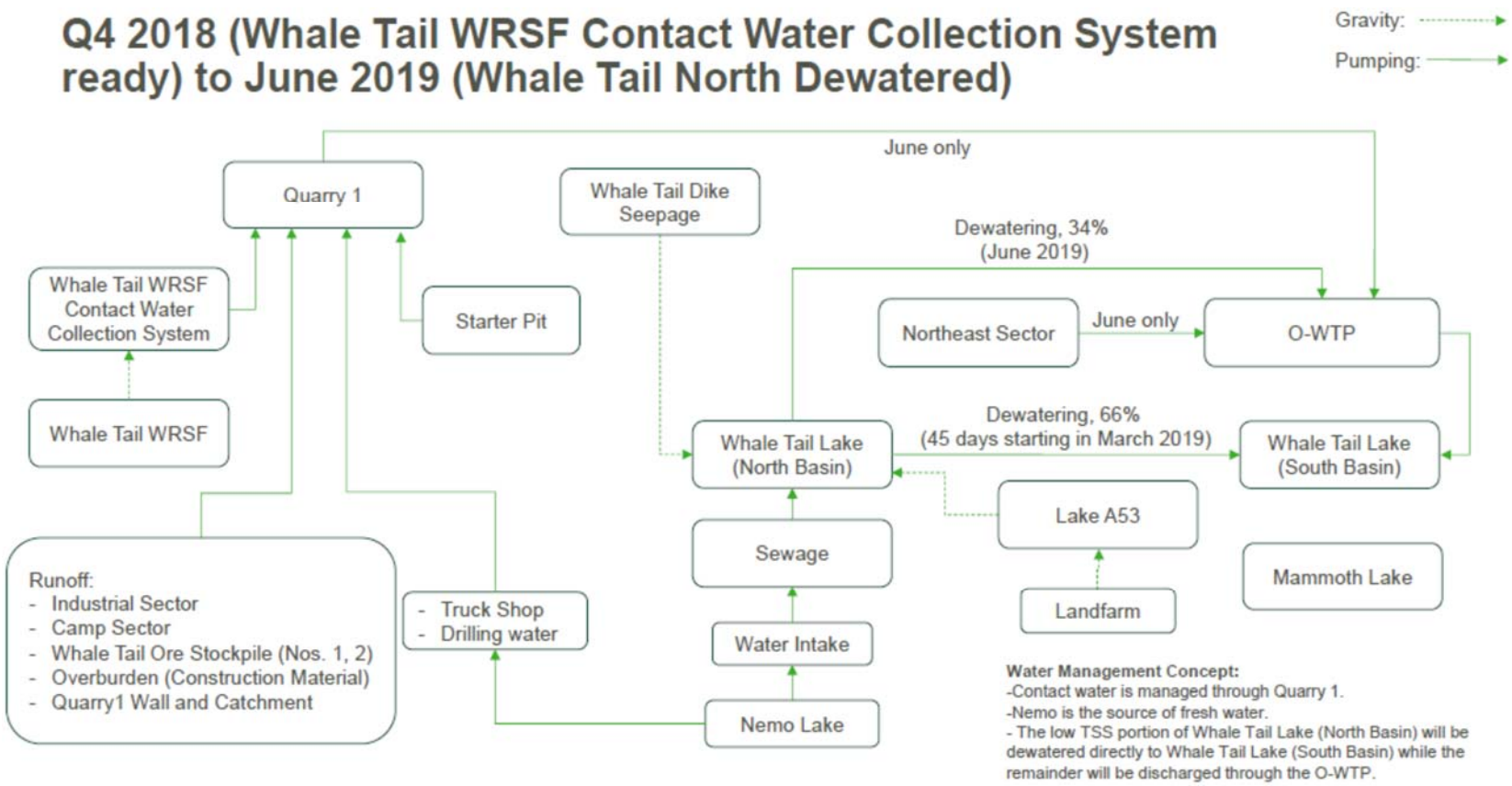


Figure B.1 Water Management Flowsheet from Construction to June 2019

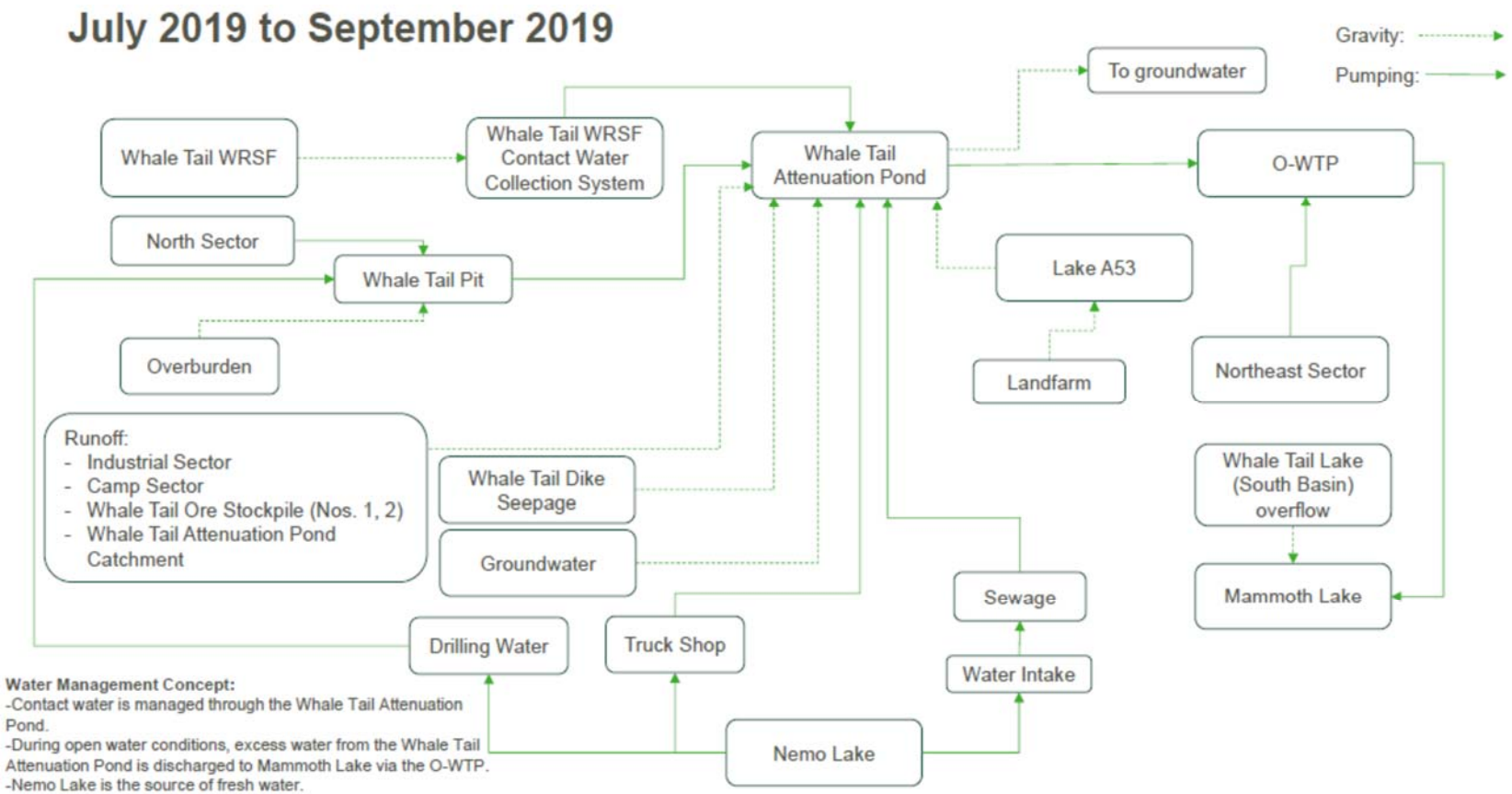


Figure B.2 Water Management Flowsheet during operations from July 2019 to September 2019

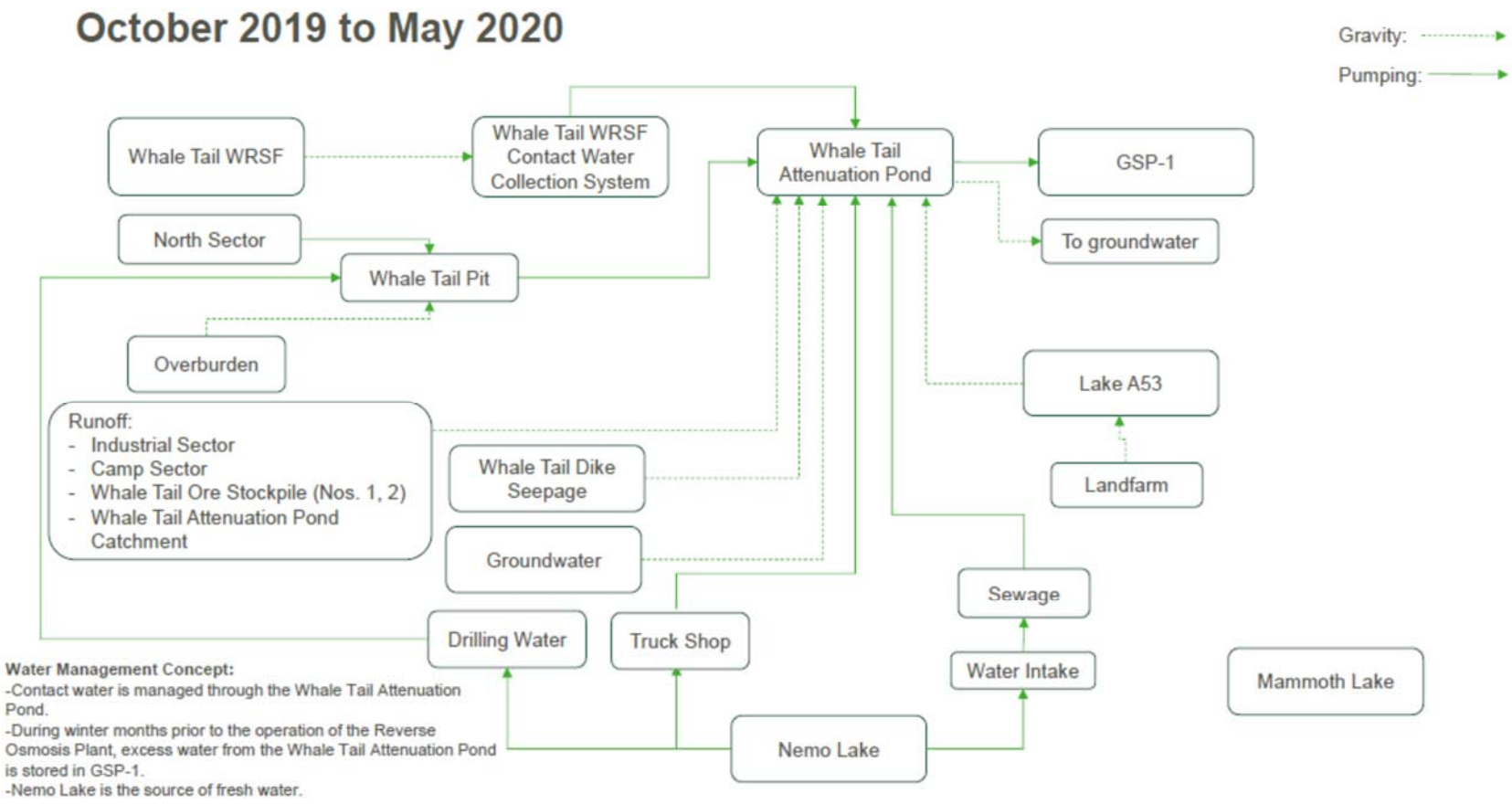


Figure B.3 Water Management Flowsheet during operations from October 2019 to May 2019

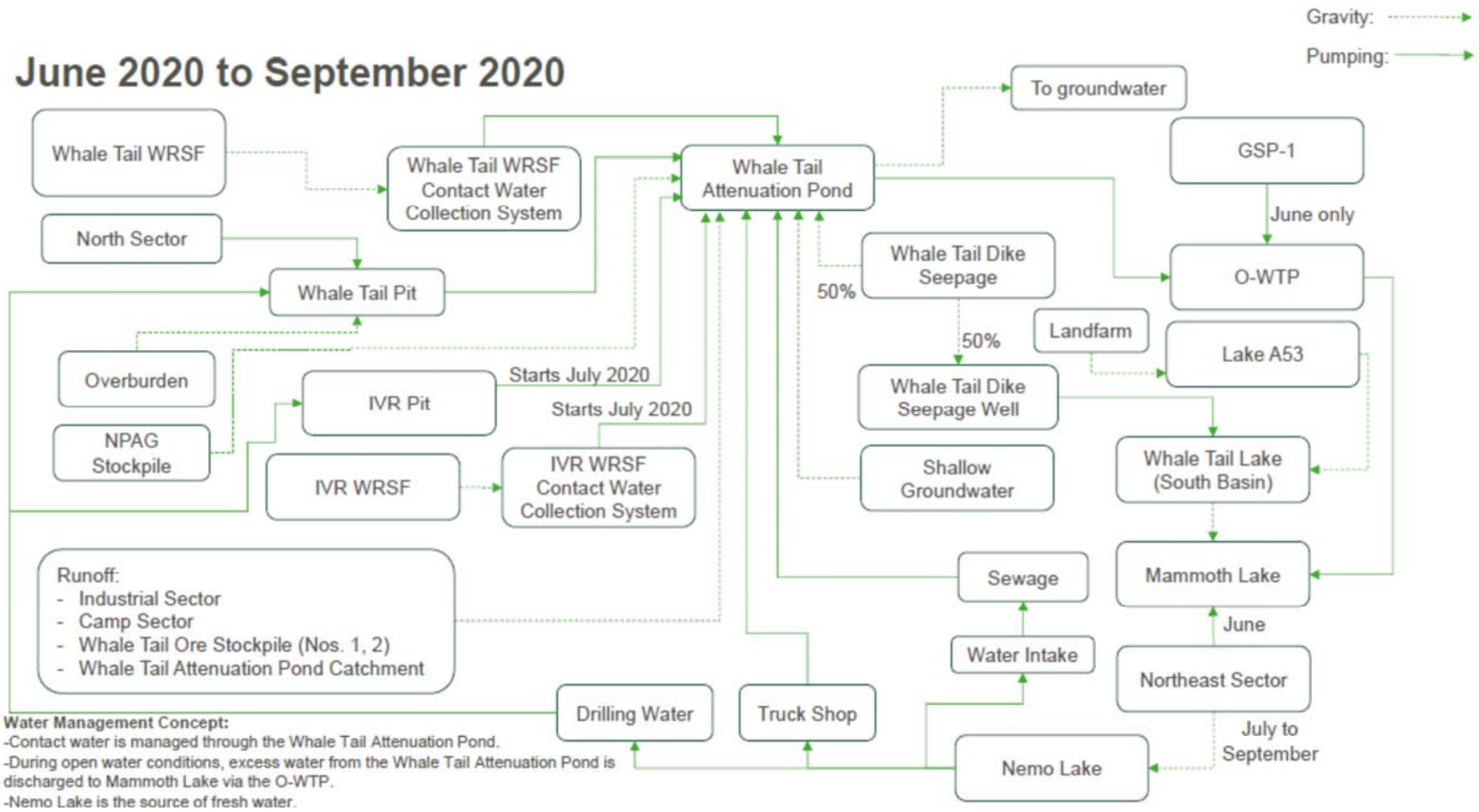


Figure B.4 Water Management Flowsheet during operations from June 2019 to September 2019

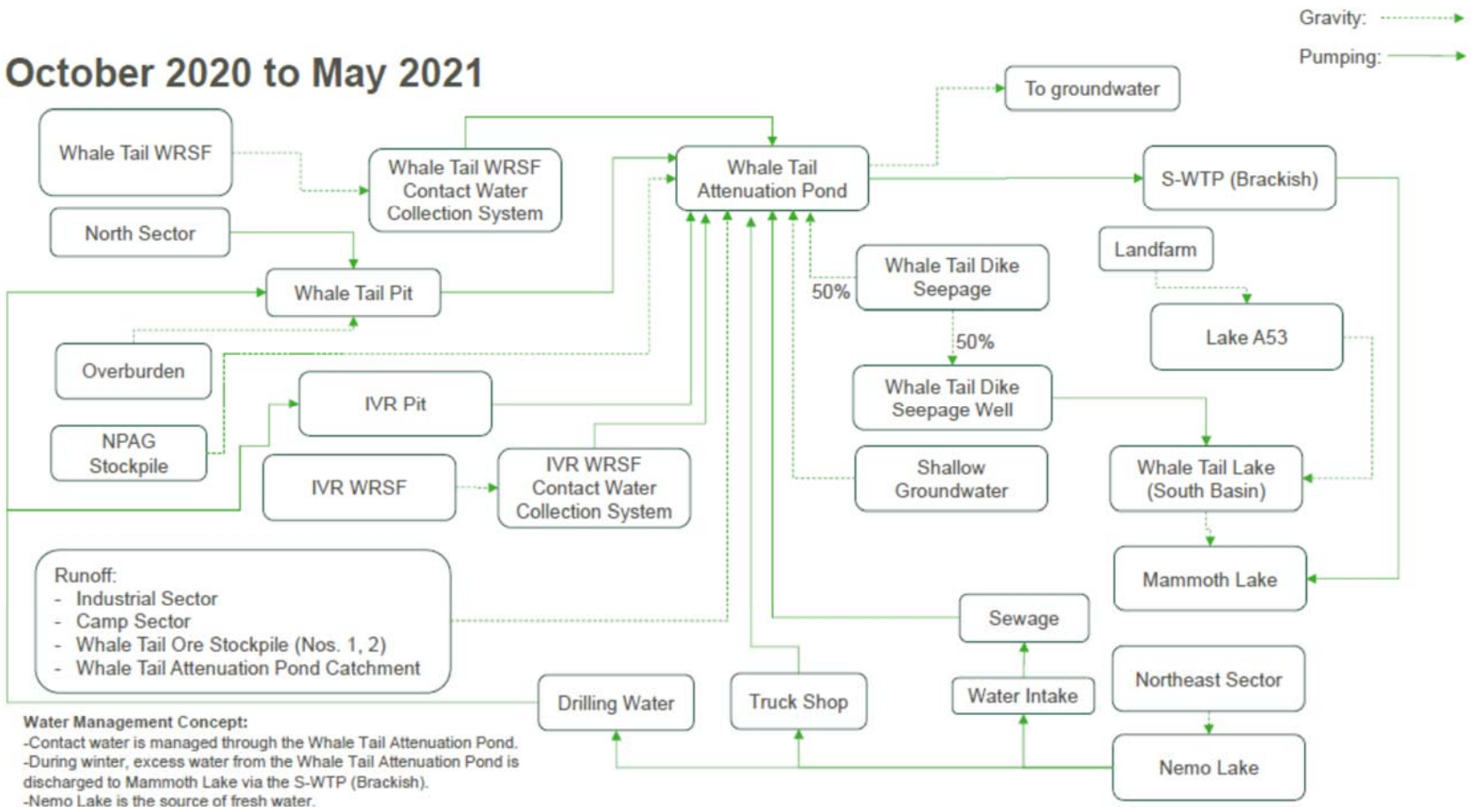


Figure B.5 Water Management Flowsheet during operations from October 2020 to May 2021

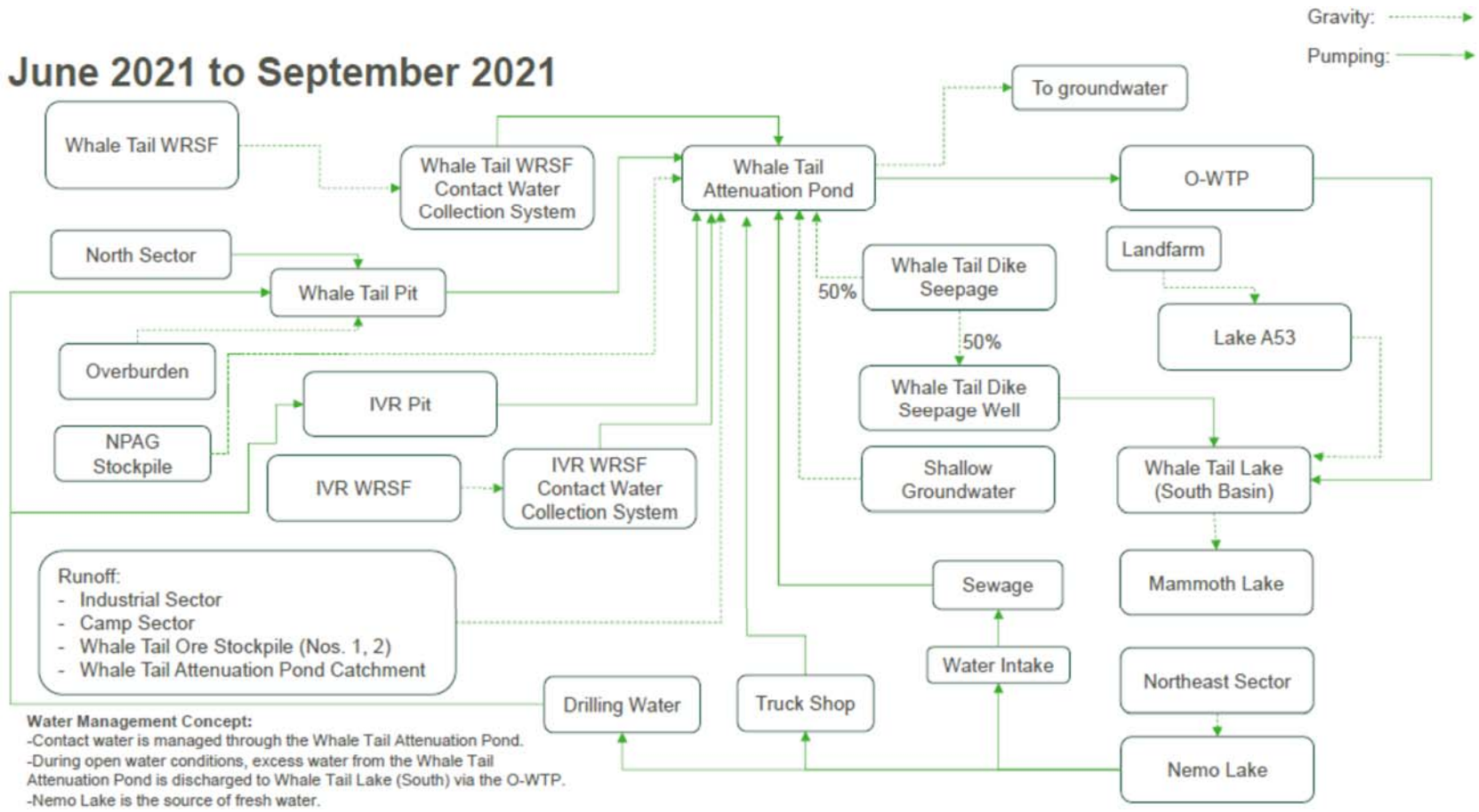
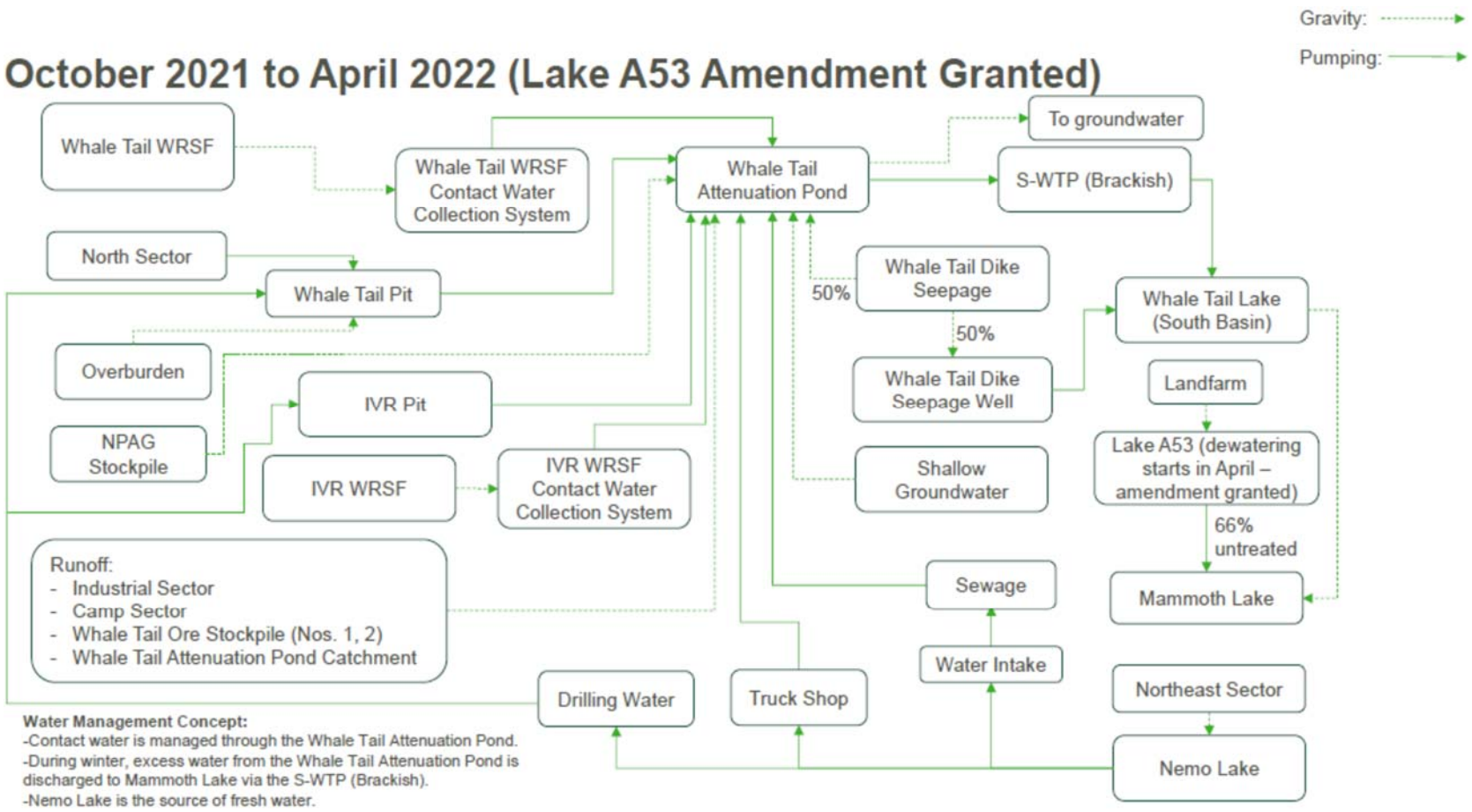


Figure B.6 Water Management Flowsheet during operations from June 2021 to September 2021



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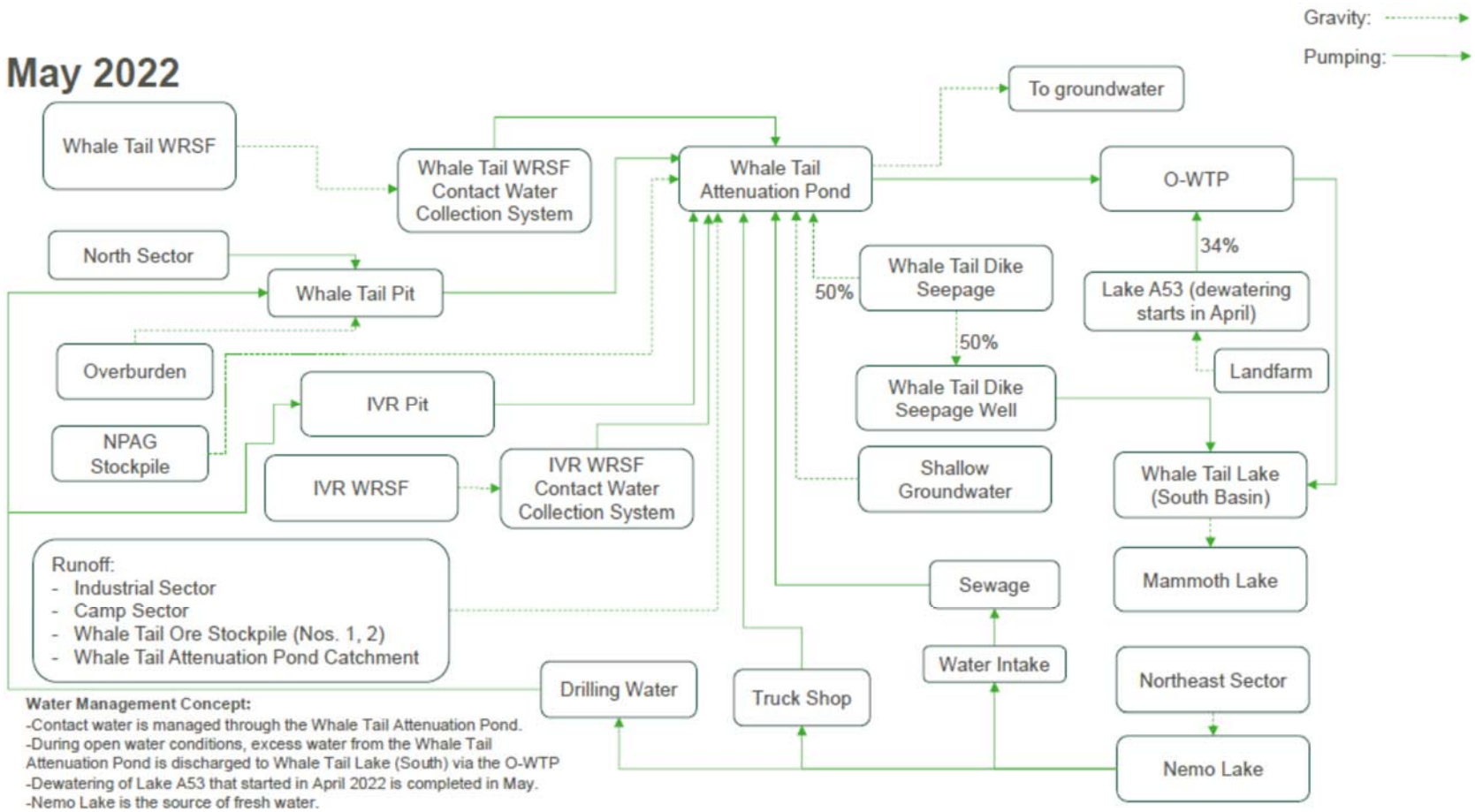


Figure B.8 Water Management Flowsheet during operations May 2022

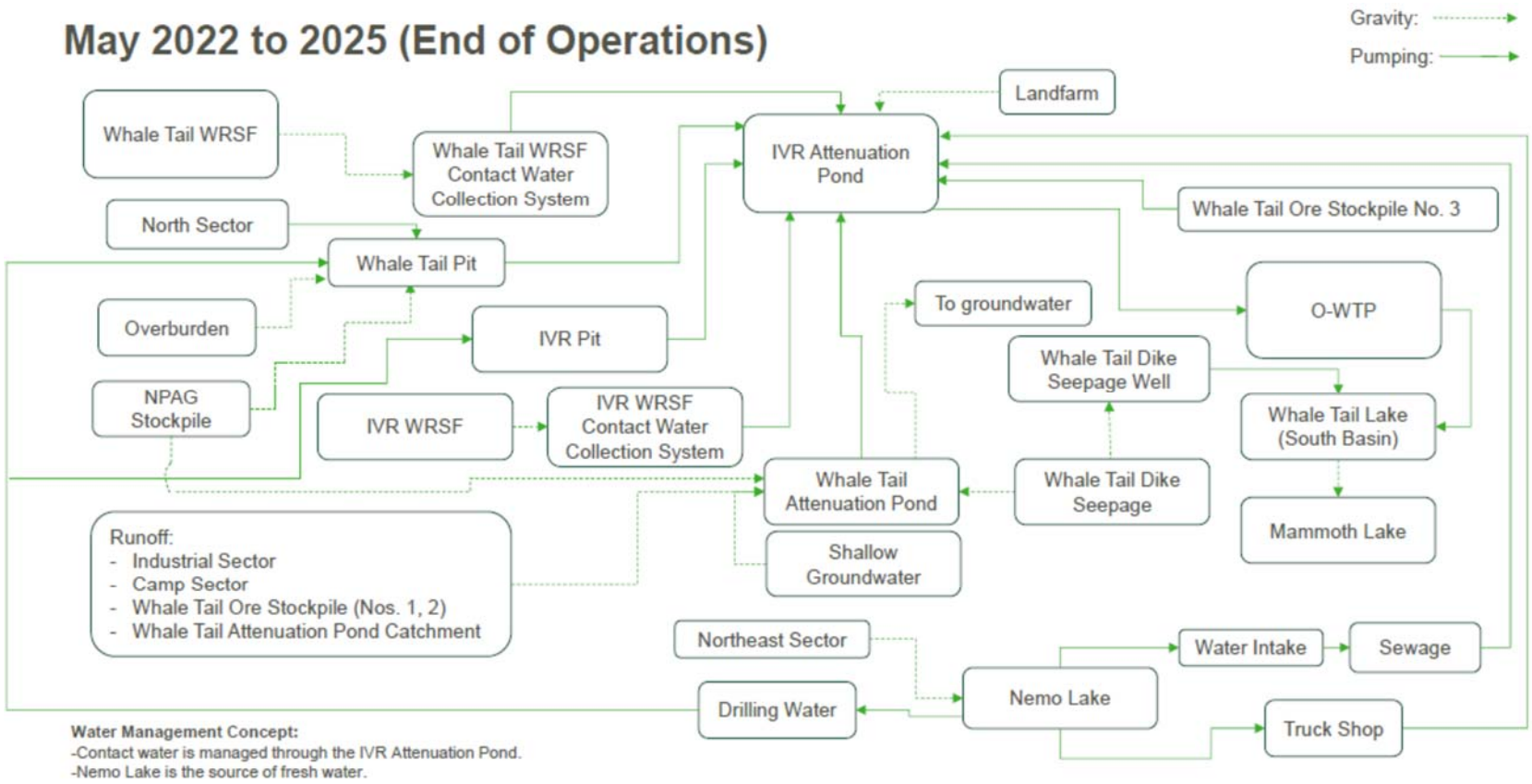
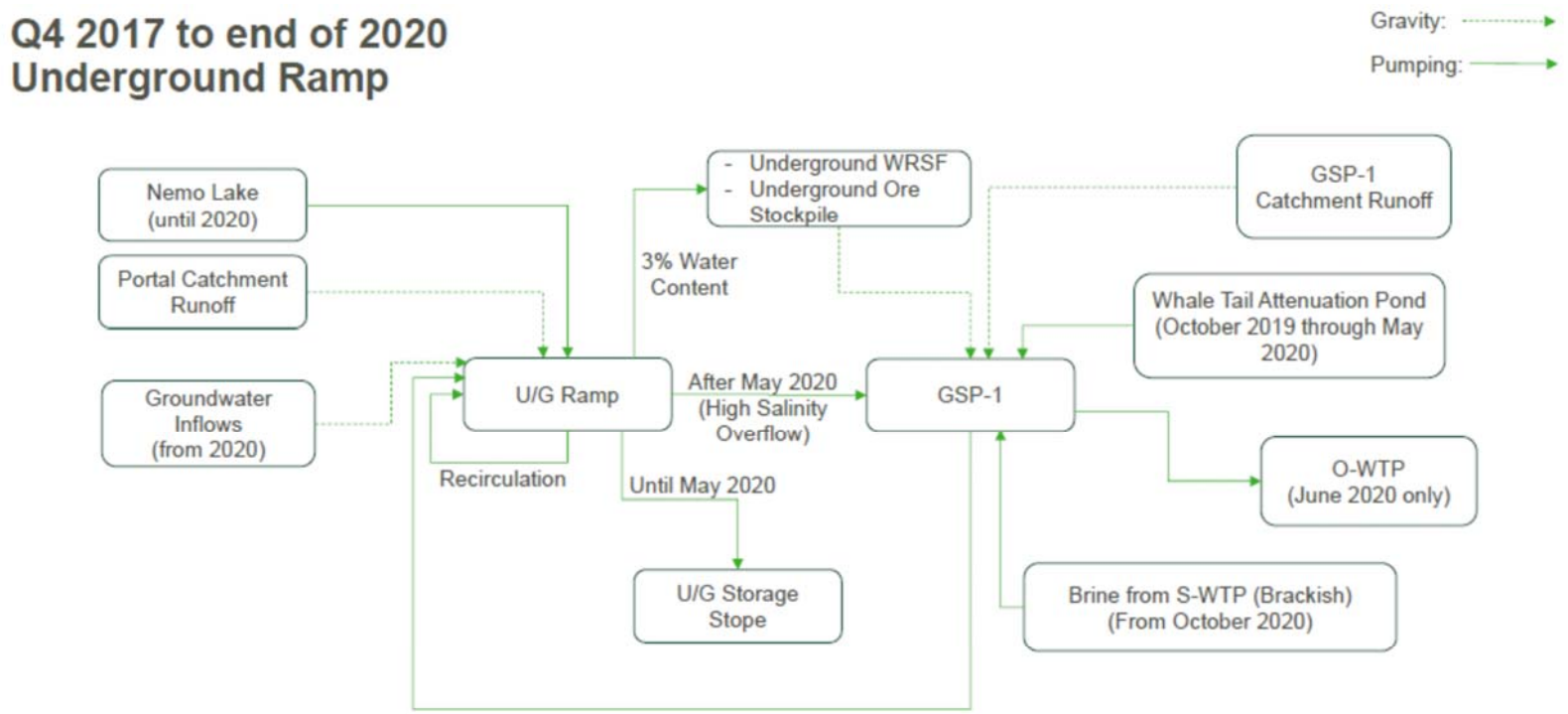


Figure B.9 Water Management Flowsheet during operations from May 2022 to the End of Operations (2025)



Water Management Concept:
-GSP-1 is the primary source of make-up water to feed the U/G Ramp. Nemo Lake is the secondary source.
-Overflow from the Underground Ramp is discharged to the Underground Stope until it is full. Once the stope is full, overflow reports to GSP-1 (High Salinity Pond) until mining breaks through the cryopeg
(estimated in April 2022)

Figure B.10 Water Management Flowsheet during Underground Operations from Q4 2019 to the End of 2020

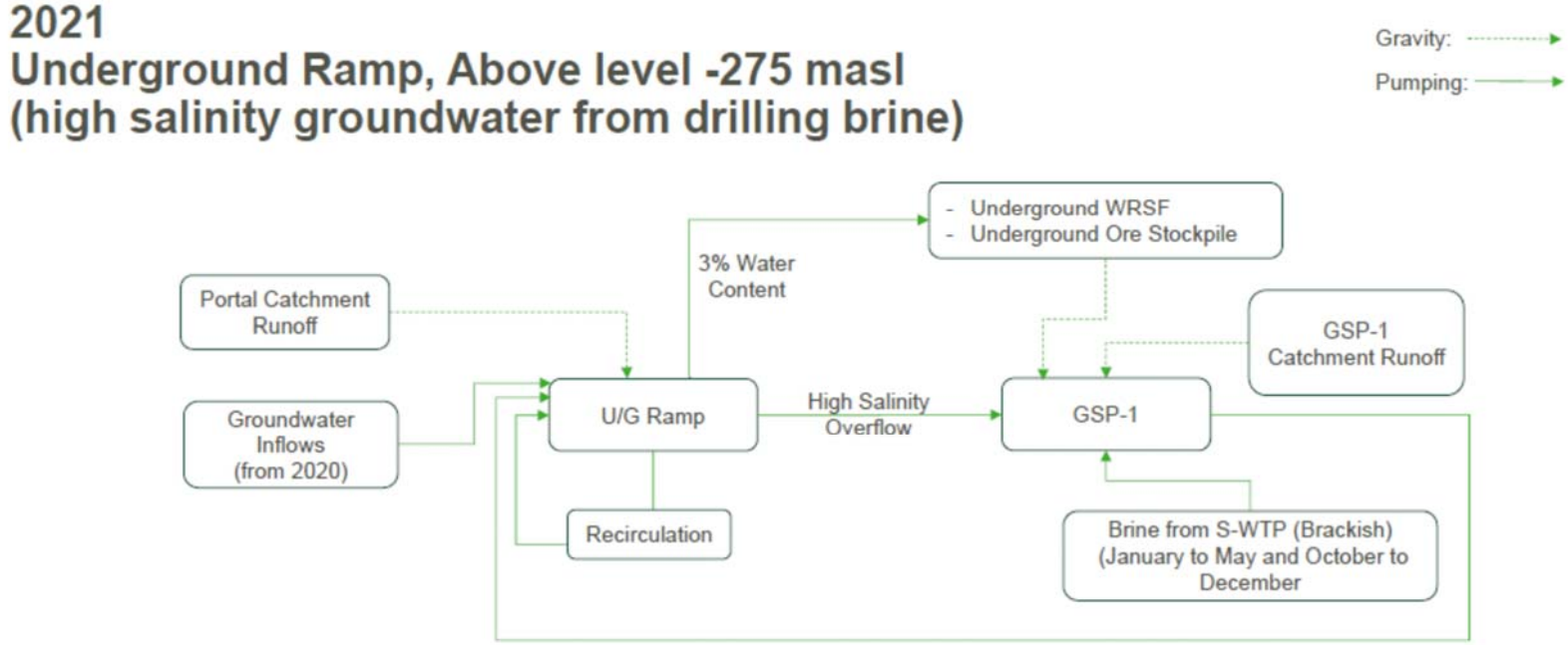


Figure B.11 Water Management Flowsheet during Underground Operations in 2021

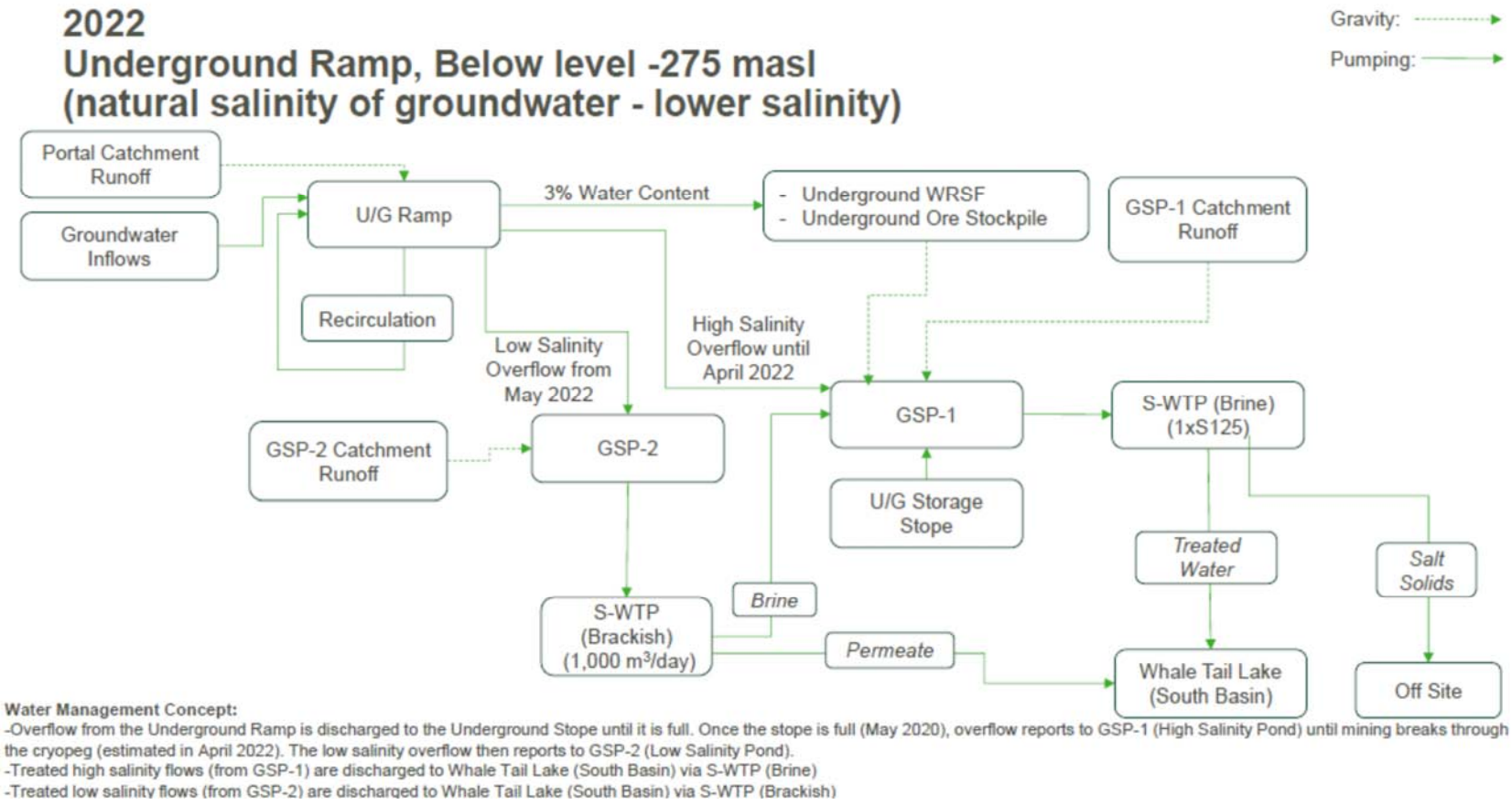


Figure B.12 Water Management Flowsheet during Underground Operations in 2022

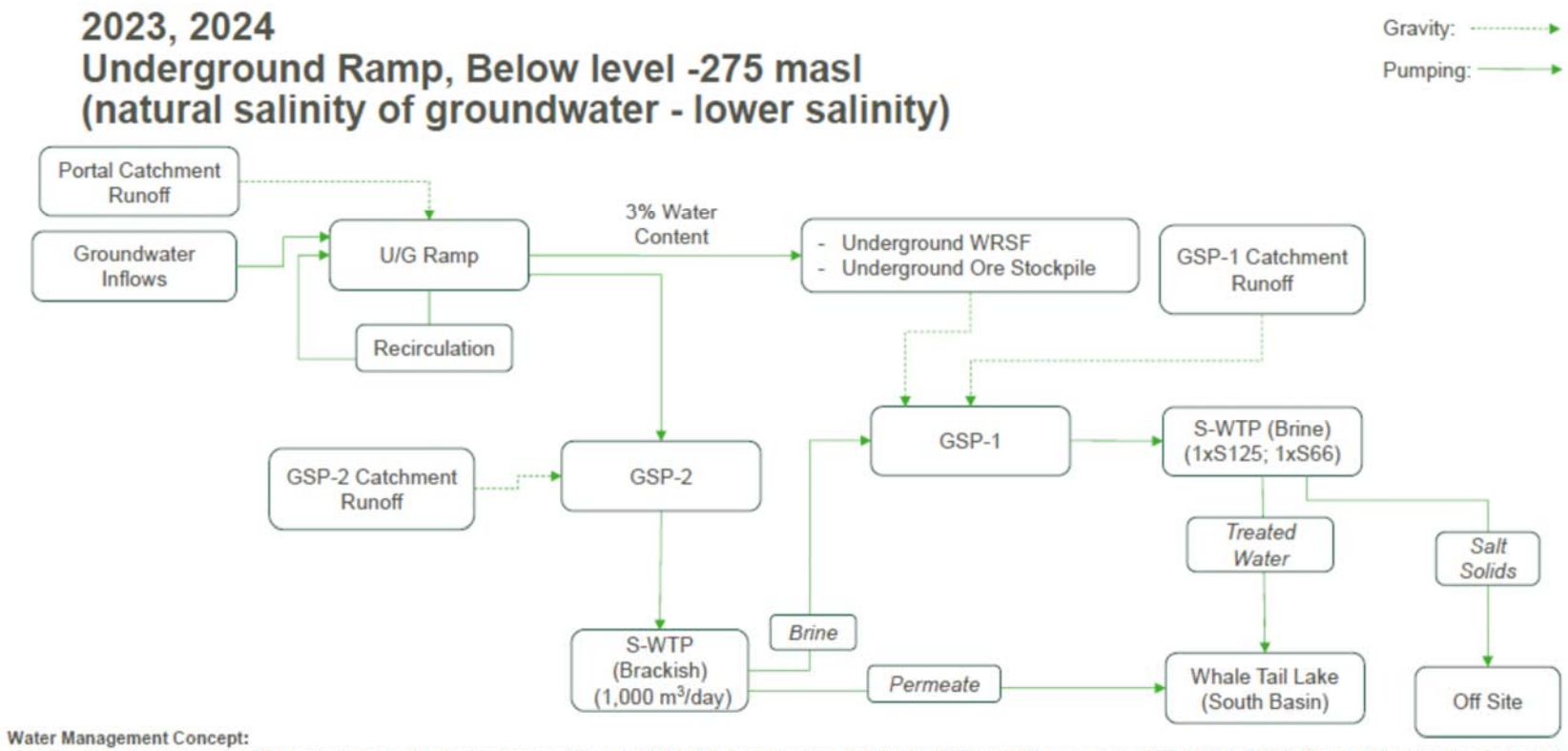
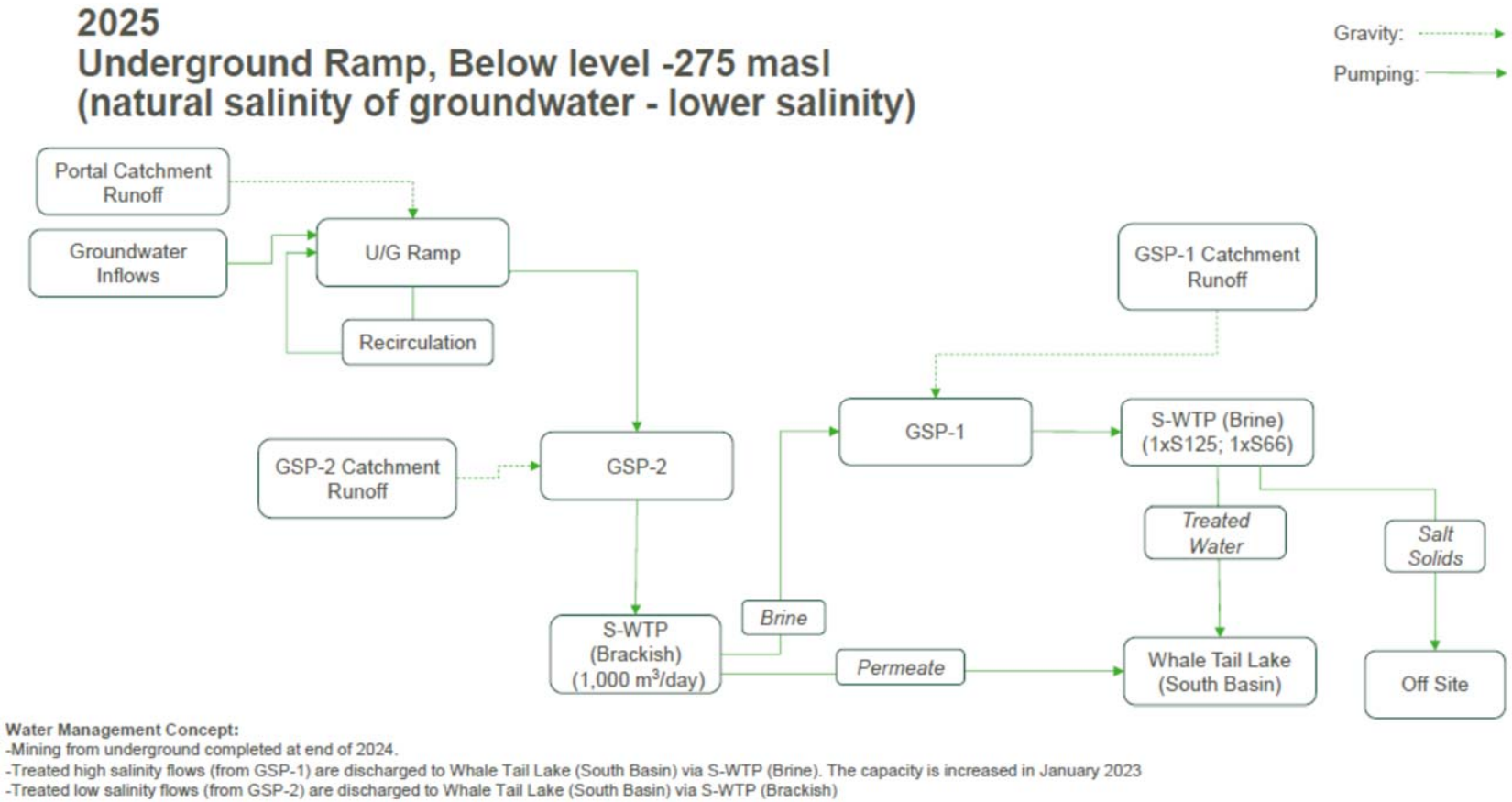


Figure B.13 Water Management Flowsheet during Underground Operations in 2023 and 2024



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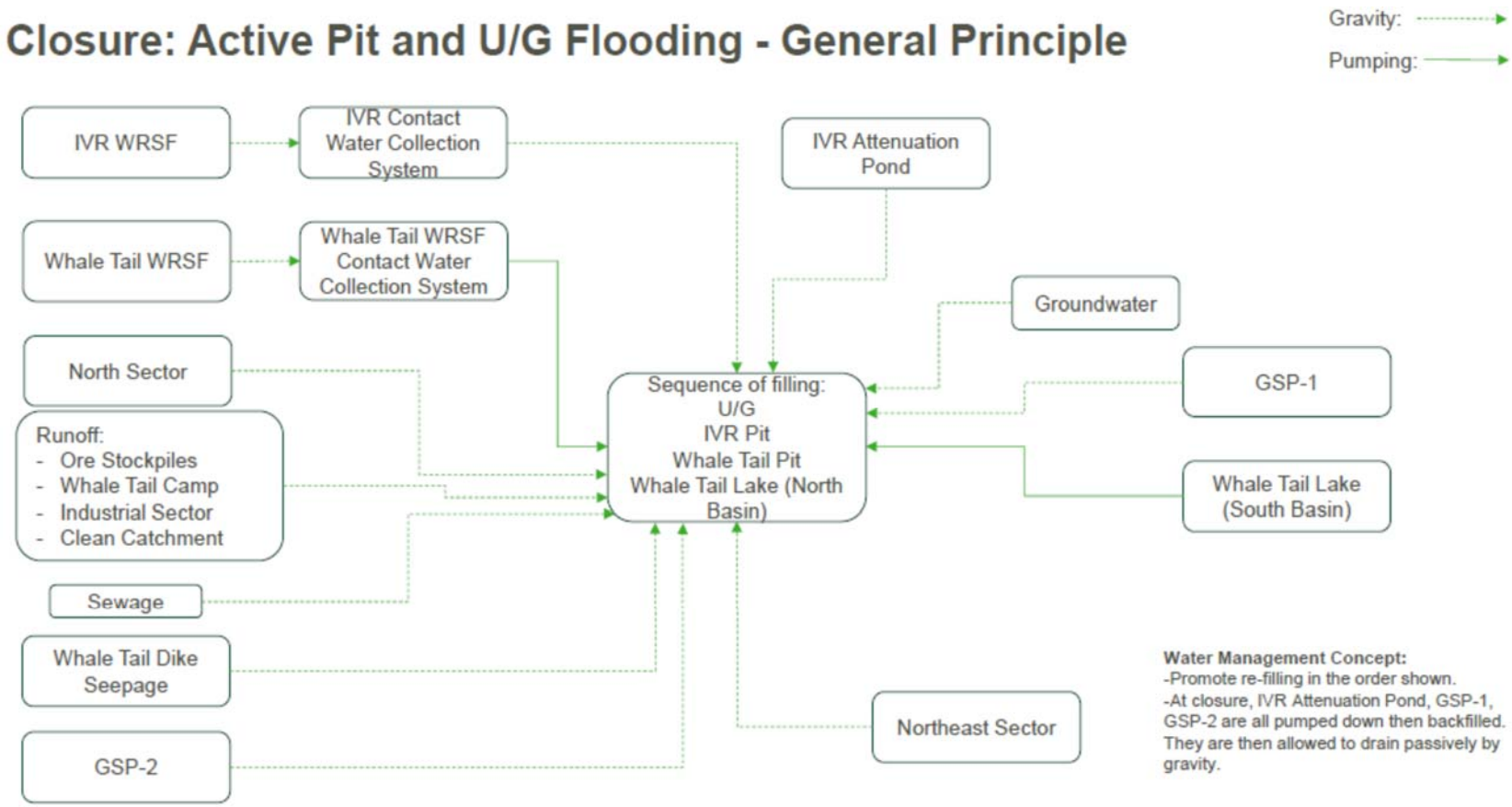


Figure B.15 Water Management Flowsheet during Closure (Active Pit and Underground flooding)

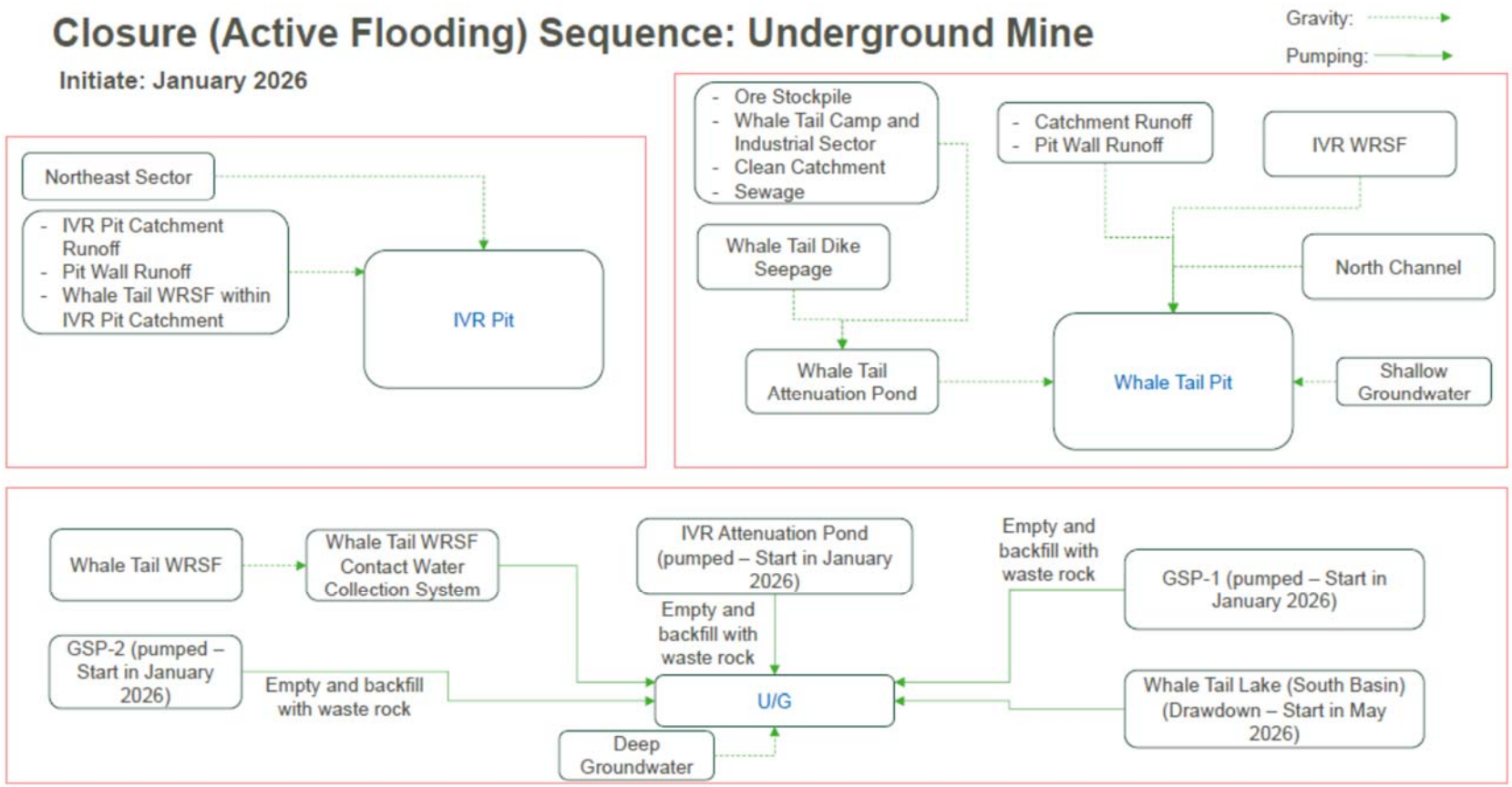


Figure B.16 Water Management Flowsheet during Closure (Active Flooding Underground Mine)

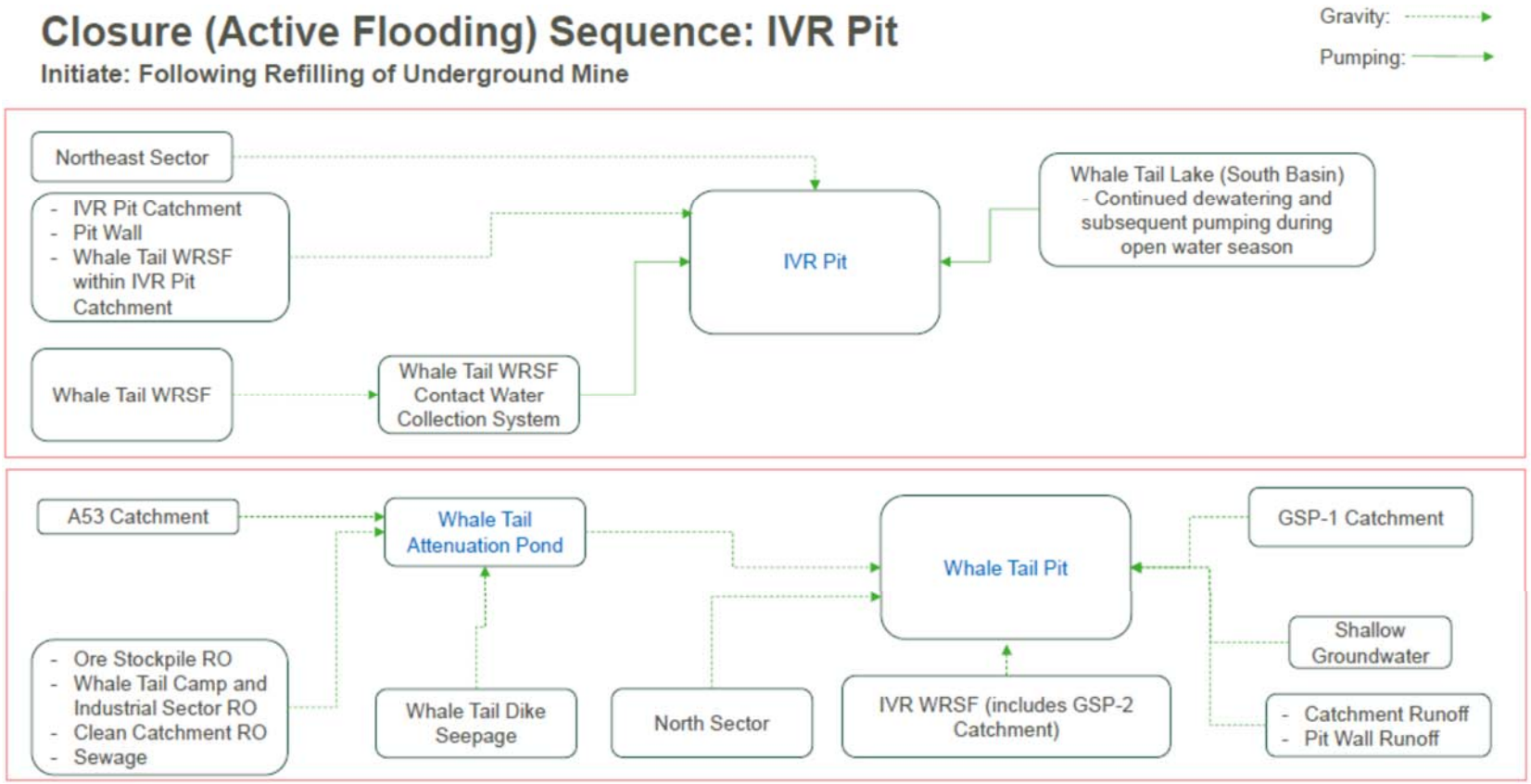
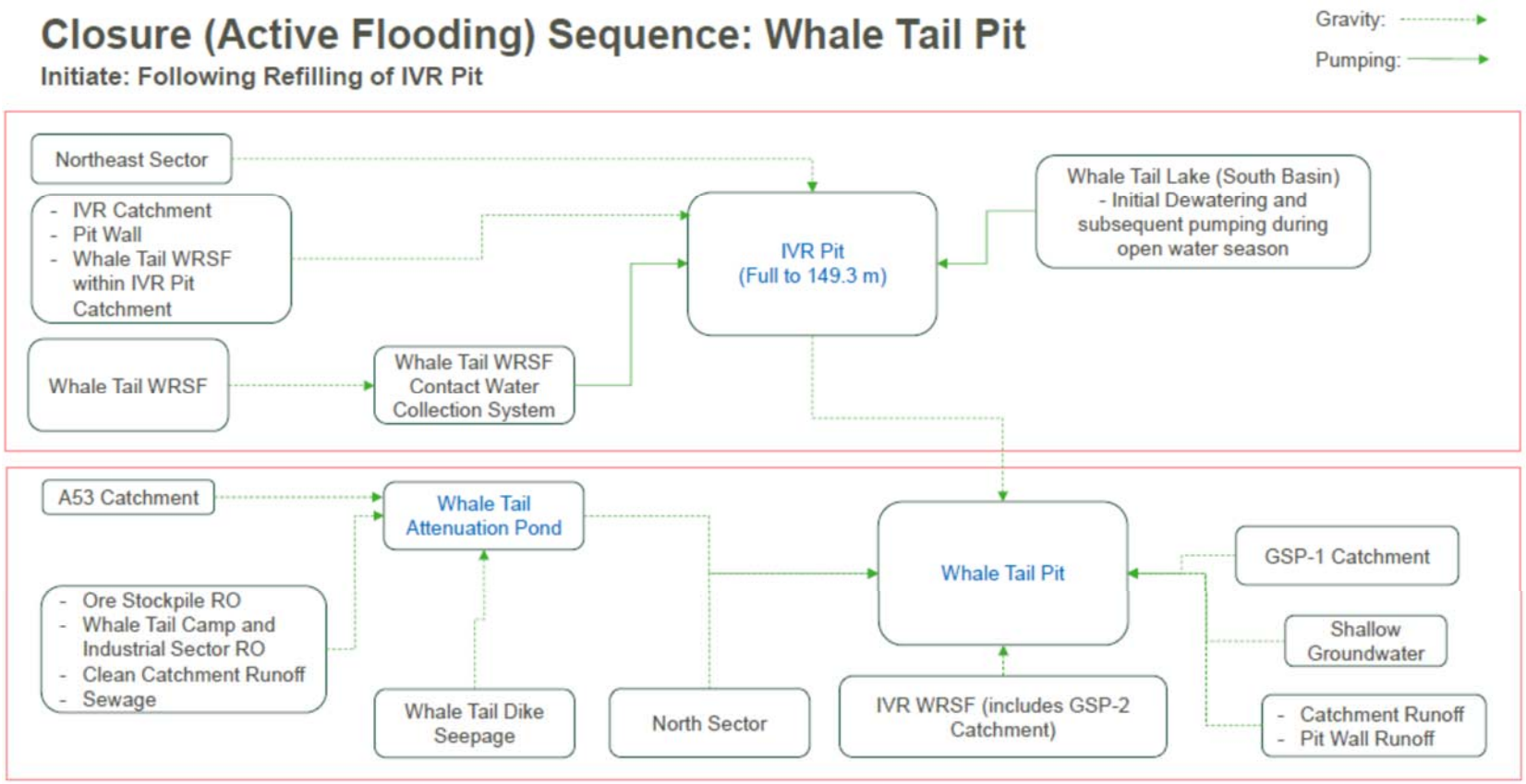


Figure B.17 Water Management Flowsheet during Closure (Active Flooding IVR Pit)



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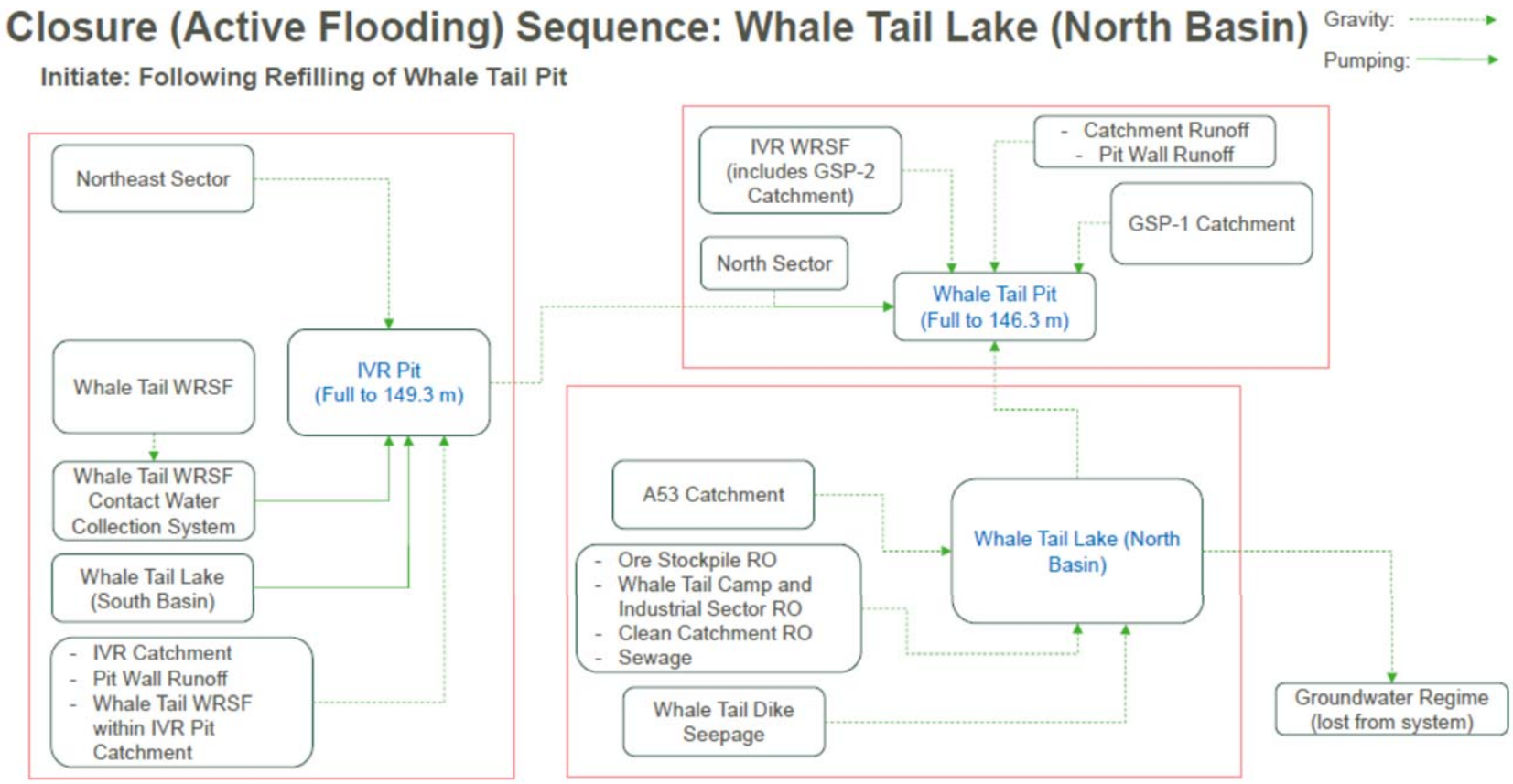
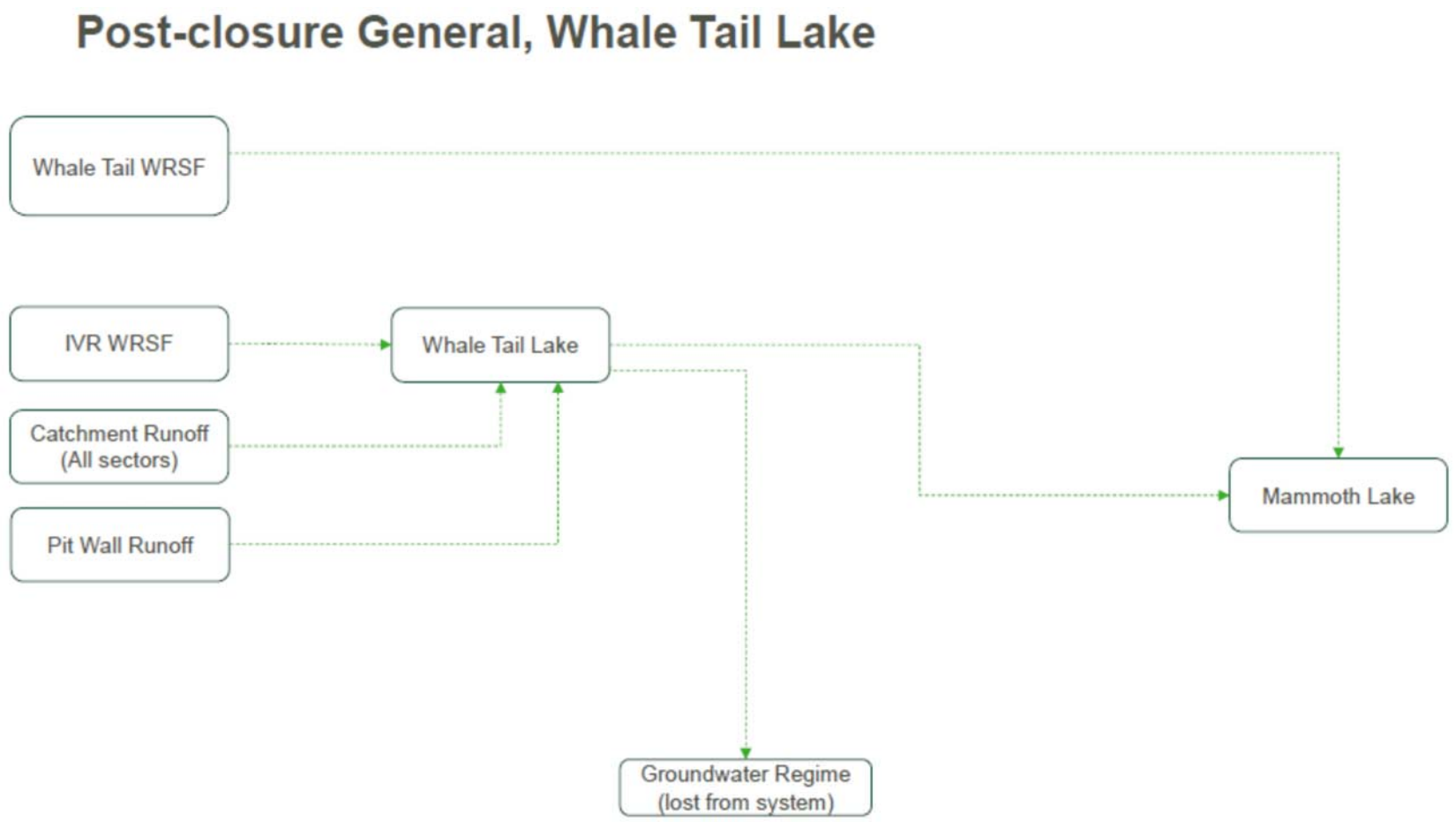


Figure B.19 Water Management Flowsheet during Closure (Active Flooding Whale Tail Lake/North Basin)



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REPORT

Whale Tail Pit - Expansion Project

2019 Mean Annual Water Balance Update

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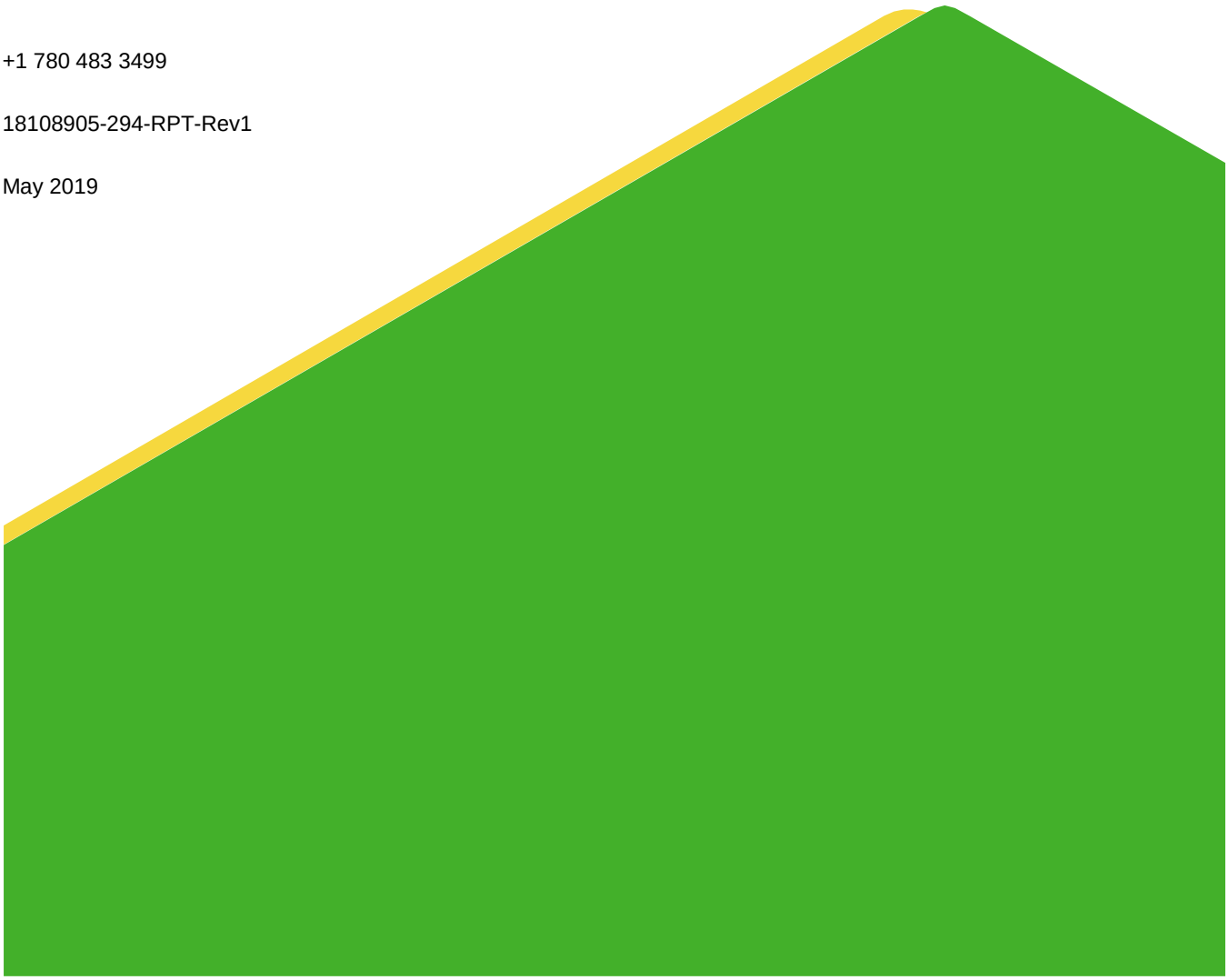
May 2019



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1.0 INTRODUCTION

Agnico Eagle Mines Limited: Meadowbank Division (Agnico Eagle) is proposing to develop the Whale Tail Pit and the IVR Pit and underground operations on the Amaruq property (Project), 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 supports mining an initial amount of approximately 8.3 million tonnes of ore from one open pit, the Whale Tail Pit, processed over a three to four-year mine life. The Expansion Project proposes mining of an additional 15.2 million tonnes of ore from the expanded Whale Tail Pit, the IVR open pit and underground operations, for a total ore tonnage of 23.5 million tonnes. A detailed Project Description, and water management plan describing water management facilities examined herein can be found in the Expansion Project's final environmental impact statement (FEIS) Addendum.

In 2018, Golder developed a mean annual water balance for the Expansion Project to support the FEIS Addendum (Golder 2018a). Since then, model inputs have been refined, as described in Section 4.0. This report presents an updated description of water management activities and modelled flows from the mean annual water balance for the Expansion Project. This water balance was developed through an iterative process of infrastructure design, pond sizing, flow management and forecast of corresponding water quality to achieve the goal of having workable and robust water flow and quality management at the mine which will minimize environmental impacts.

This report primarily focuses on the construction, operation, and closure phases of the Expansion Project. 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 Expansion Project's mean annual water balance are presented under a separate cover (Golder 2019a).

This report is organized as follows:

- Section 2.0 provides a high-level summary of water management at the Project;
- Section 3.0 provides the basis of the water balance;
- Section 4.0 describes the changes to the mine plan that are presented in this update;
- Section 5.0 provides a description of water management activities, and results of the water balance by catchment; and
- Section 6.0 provides a list of risks and opportunities to be considered as the mine develops and is operated.

2.0 GENERAL WATER MANAGEMENT SUMMARY

The Expansion Project consists of mining from the Whale Tail and IVR Pits as well as from the underground operations. The ultimate Project general arrangement plan (2025) 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 2018a):

- 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.

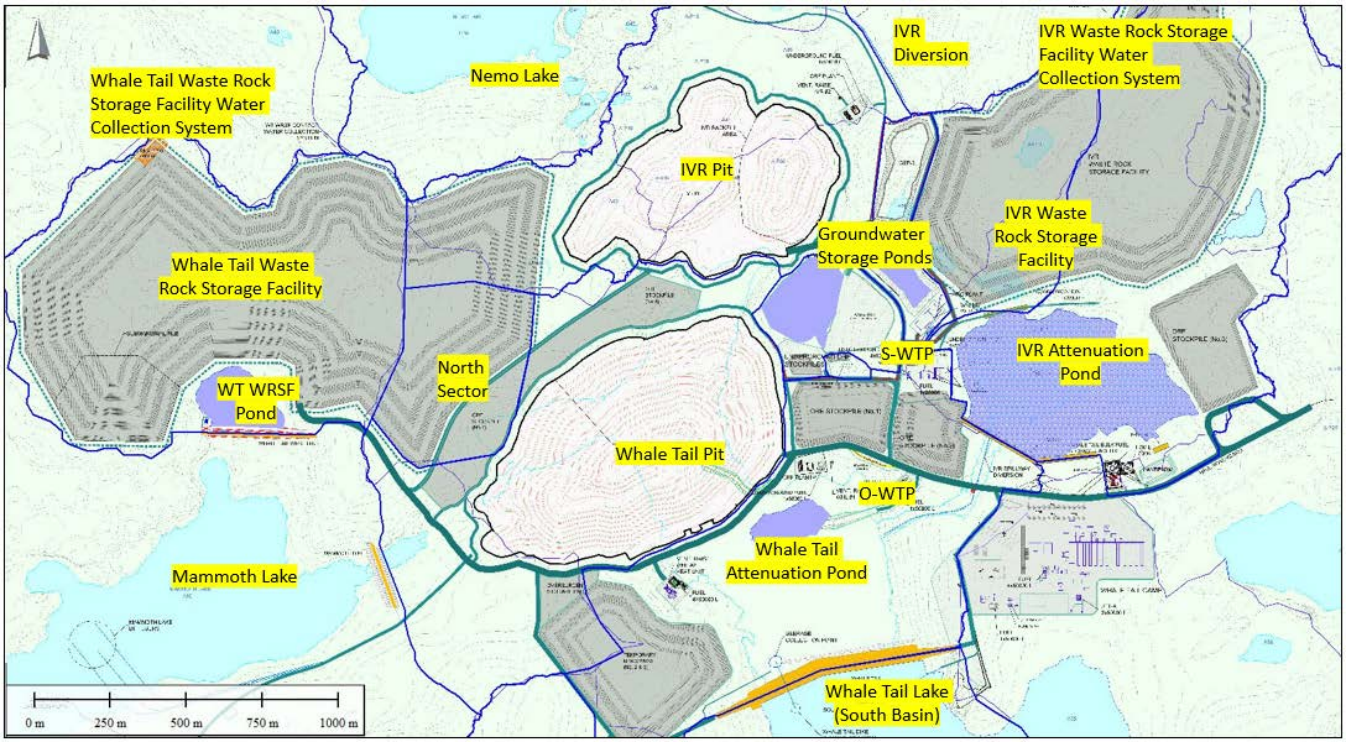

Figure 1: Water Management Facilities (2025)

2.1 Surface Water Management

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 directly or indirectly (i.e., through Whale Tail Lake (South Basin)) into Mammoth Lake. During construction, site contact water is collected in Quarry 1 prior to treatment. Once Whale Tail Lake (North Basin) is dewatered (2019), site contact water is collected in the Whale Tail Attenuation Pond until the IVR Attenuation Pond is operational in 2022, after which point contact water is collected in the IVR Attenuation Pond. Surface contact water is treated and discharged during the non-winter months (i.e. from June to September).

The operational surface water management plan is presented conceptually in flow diagrams in Appendix A and mine plan drawings are presented in Appendix B for the life of mine. Examples of these diagrams are shown in Figure 2 and Figure 3.

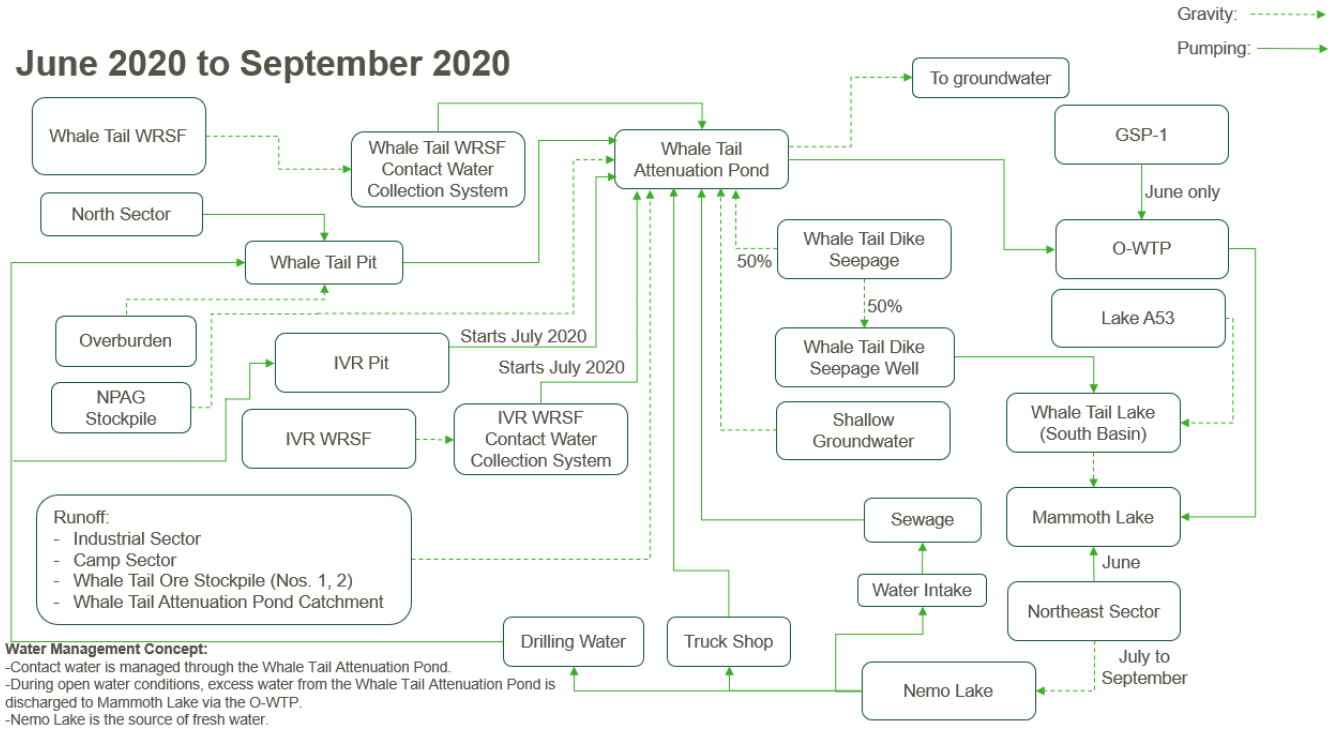

Figure 2: Conceptual Flow Diagram for Surface Waters – June 2021 to September 2021

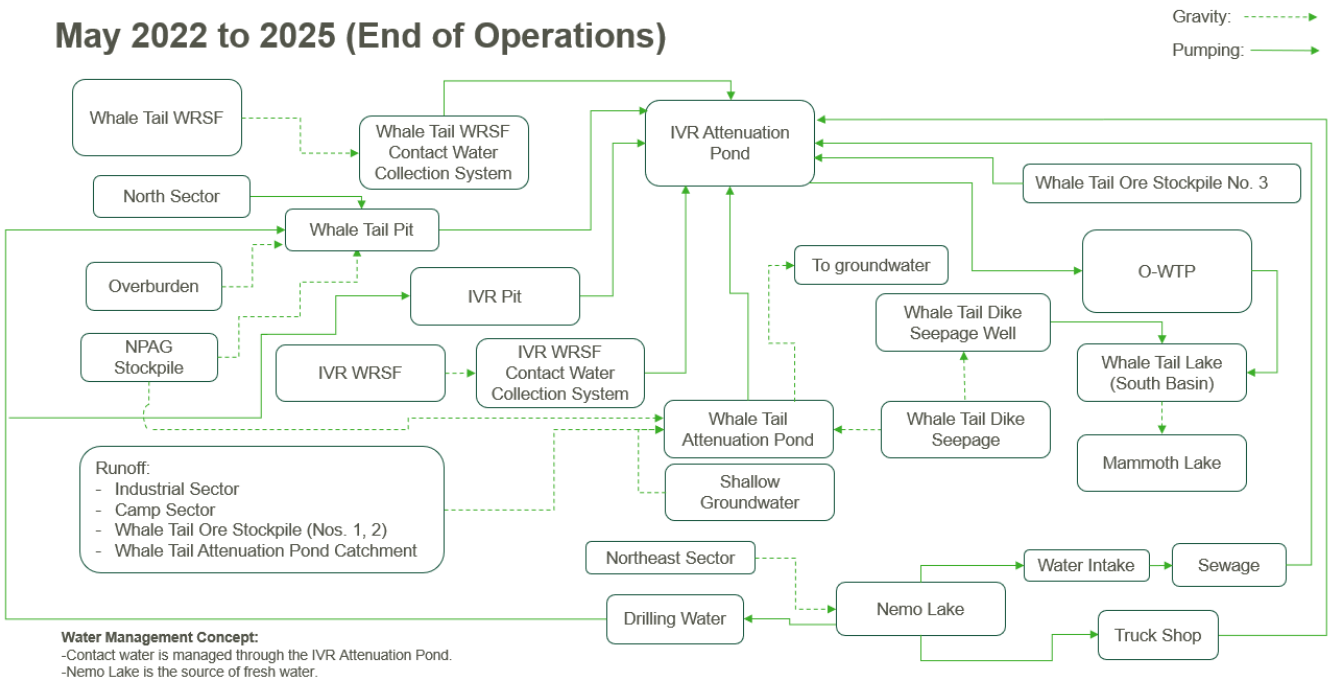

Figure 3: Conceptual Flow Diagram for Surface Waters – May 2022 to 2025 (End of Operations)

2.2 Underground Water Management

The underground operations results in saline water that must be treated. This water is isolated from the surface waters described in the previous section. The saline water is managed in Groundwater Storage Ponds (GSPs) and the underground stope. It is assumed that high and low salinity waters can be successfully isolated and managed and treated separately. High saline water is stored in either the underground stope or GSP-1 (described further in Section 5.2.1). From GSP-1, water is sent back underground as make-up water source for the underground operations. Excess water is treated in the S-WTP (brine) before discharge to the receiving environment. Low saline water is sent to GSP-2 before treatment in the S-WTP (brackish) prior to discharge to the receiving environment. Treatment and discharge of the underground contact water occurs year-round.

The operational underground water management plan is presented conceptually in flow diagrams for the life of mine in Appendix A. Examples of these diagrams for high and low salinity are in Figure 4 and Figure 5, respectively.

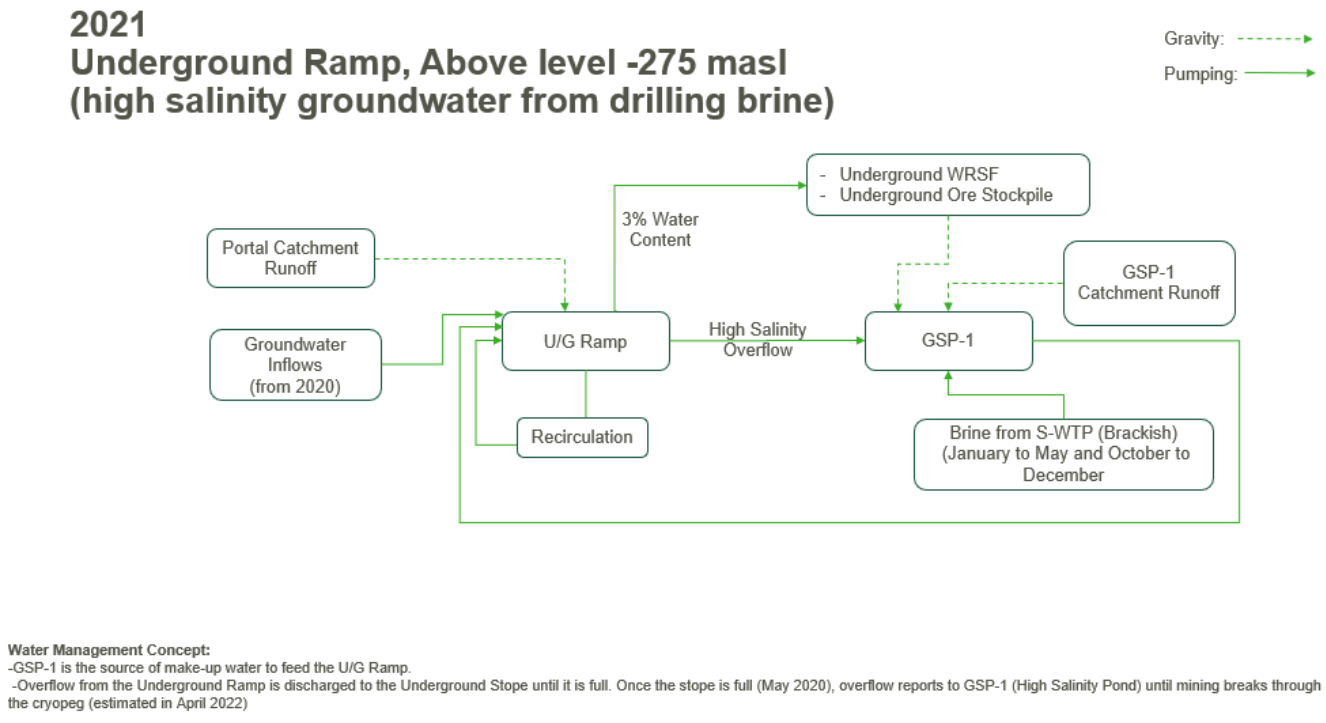

Figure 4: Conceptual Flow Diagram - Underground Ramp 2021, Shallower than Level -275 masl (High Salinity Groundwater from Drilling Brine)

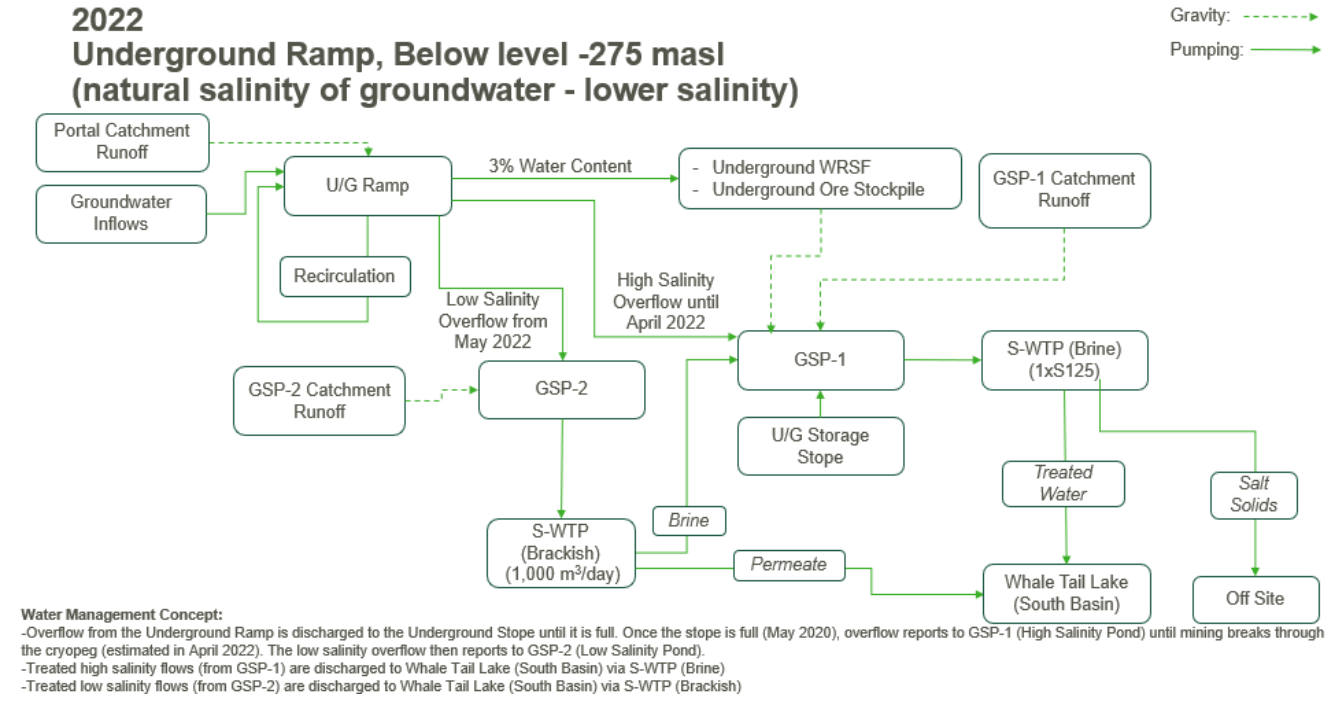

Figure 5: Conceptual Flow Diagram– Underground Ramp 2022 - Deeper than Level -275 masl (Natural Salinity of Groundwater – Lower Salinity)

3.0 WATER BALANCE BASIS

3.1 General

The mean annual water balance was derived in GoldSim® on a monthly timestep, in consideration of the following information:

- Site climate (Section 3.2);
- Mine plan (Section 3.3);
- Evolving catchments corresponding to the mine plan, derived based on watershed delineations provided for this update by SNC Lavalin (2019), with input from Golder, discretized by land and water areas;
- Evolving pit and underground mine elevation-area-storage characteristics (Agnico Eagle 2018b, available in Appendix C), derived from Project raster data provided by Agnico Eagle;
- Pond elevation-area-storage characteristics (Appendix D), derived from Project raster data provided by Agnico Eagle;
- Evolving groundwater inflows and infiltration derived by Golder for the Whale Tail open pit and the underground mine. Groundwater inputs are described in Section 3.5;
- Mine operation consumptive flows provided by Agnico Eagle (Section 3.4); and
- Waste rock cover runoff and seepage values as provided by O'Kane Consultants Inc (OKC; Appendix E).

3.2 Climate Input

Water balance results presented herein were based on mean annual climate input summarized in Table 1, consistent with previous studies (Agnico Eagle 2016b). Thus, results presented herein are expected to vary from predicted under wet or dry conditions.

Precipitation presented in Table 1 was applied in water balance calculations as follows:

- Precipitation was adjusted for undercatch using a factor of 1.15 for rainfall, and 1.55 for snowfall following previous studies (Agnico Eagle 2016c);
- Frozen conditions were assumed from October to May;
- Rainfall during frozen conditions, as defined above, was applied as rainfall during the month of June of the same year if fallen between the months of January and May inclusively, or during the month of June of the following year if fallen between the months of October and December inclusively;
- Snowfall outside of frozen conditions, as defined above, was applied as rainfall during the same month; and,
- Infiltration losses were assumed to be negligible in natural areas based on permafrost conditions.

Table 1: Climate Input for Mean Year

Month	Mean Air Temperature (°C)	Precipitation (mm)		Losses (mm)		
		Rainfall	Snow-Water Equivalent	Lake Evaporation	Evapo-transpiration	Sublimation
January	-31.3	0.0	6.9	0	0	9
February	-31.1	0.0	6.2	0	0	9
March	-26.3	0.0	9.1	0	0	9
April	-17.0	0.4	13.3	0	0	9
May	-6.4	5.2	8.1	0	0	9
June	4.9	18.1	3.0	9	3	0
July	11.6	38.5	0.0	99	32	0
August	9.8	42.1	0.6	100	32	0
September	3.1	34.7	6.8	40	13	0
October	-6.5	6.4	22.4	0	0	9
November	-19.3	0.2	16.6	0	0	9
December	-26.8	0.0	10.0	0	0	9
Annual	-11.3	145.7	103.0	248	80	72

3.3 Mine Plan

Water management facilities are presented on Figure 1, representative of end of mine life largest footprint conditions (2025). Conceptual flow diagrams are presented in Appendix A and the mine plan drawings are presented in Appendix B for the entire life of mine. Milestones relevant to the mean annual water balance are summarized in chronological order below:

- Quarry 1 is initiated in 2017 (i.e., prior to the start of the water balance in January 2018).
- Underground Mine is initiated in 2017 (i.e., prior to the start of the water balance).
- GSP-1 is initiated in 2017 (i.e., prior to the start of the water balance).
- The Whale Tail Dike is initiated in June 2018 and was assumed to retain upstream flows starting in July 2018.
- The Starter Pit is initiated in July 2018.
- The Whale Tail waste rock storage facility (WRSF) Dike is initiated in October 2018 and retains upstream flows starting in freshet 2019.
- The Mammoth Dike is initiated in November 2018 and retains upstream flows starting in freshet 2019.
- The first phase of dewatering of Whale Tail Lake (North Basin) is initiated in March 2019 for approximately 45 days. About 2 million cubic meters (m^3) is dewatered and discharged to Whale Tail Lake (South Basin) during this phase.
- The second phase of dewatering starts in June 2019. About 1.1 m^3 is dewatered and discharged to Whale Tail Lake (South Basin) during this phase.

- The Northeast Dike is initiated in January 2019 and retains upstream flows starting in freshet 2019. It is decommissioned prior to the initiation of the IVR Pit.
- The Operational Water Treatment Plant (O-WTP) - arsenic (As) and total suspended solids (TSS) treatment unit - comes online in March 2019.
- The North Sector collection area is operational starting in June 2019 until closure.
- The East Channel is initiated in September 2019 and completed in November 2019. It diverts upstream flows starting in freshet 2020.
- The Whale Tail Dike Seepage Collection System is operational by January 2020.
- The IVR Pit is initiated by July 2020.
- The IVR Diversion is operational from July 2020 until closure.
- The IVR WRSF is operational from July 2020 until closure.
- The water treatment unit for low total dissolved solids (TDS) water or S-WTP (brackish) becomes available by October 2020.
- The water treatment unit for high TDS water, or S-WTP (brine) becomes available by April 2022; its capacity is increased in January 2023.
- GSP-2 becomes operational by April 2022.
- Drawdown of Lake A53 occurs prior to freshet 2022.
- The IVR Attenuation Pond (i.e., ex-Lake A53) is operational by freshet 2022.
- Construction of Mammoth sill and spillway is completed after January 2026 to maintain the flooded pit lake water elevation at 153.5 metres above sea level (masl) at closure and post-closure.
- Closure is initiated in January 2026 and active and passive flooding occurs until Whale Tail Lake (North Basin) is refilled to overtop the Mammoth Lake sill and spillway to 153.5 masl by 2042).
- Post-closure reconnection of Whale Tail Lake (North Basin) with Whale Tail Lake (South Basin) by decommissioning of the Whale Tail Dike, Mammoth Dike and Whale Tail WRSF Dike. This occurs once the flooding has reached 153.5 masl and the quality of the flooded pit lake is acceptable to fish and fish habitat (estimated by 2042).

The schedule for construction of the third GSP is adaptive, depending on need.

3.4 Consumptive Flows

Consumptive flows were provided by Agnico Eagle as follows:

- Camp use:
  - 77.8 m^3/day from January 2018 to December 2020. This increases to 192 m^3/day from January 2021 to the end of operations;
    - Sourced from Whale Tail Lake (South Basin) until the end of August 2018; and
    - Sourced from Lake C38 (Nemo Lake) from September 2018 to the end of operations.
  - 12.0 m^3/day during closure, sourced from Whale Tail Lake (South Basin).
- Truck shop:
  - 103.1 m^3/day from January 2018 to the end of operations.
- Drilling water for open pits:
  - 48.0 m^3/day from the initiation of the Whale Tail Pit to December 2018;
  - 24.0 m^3/day from January 2019 to June 2019; and
  - 48.0 m^3/day from July 2019 to the end of operations.
- The water intake from Mammoth Lake for the emulsion plant is estimated to be approximately 2.9 m^3/day, or 1,060 m^3/year. This volume is considered to be negligible and was not considered in the Project's water balance.
- Dust control was not considered in the Project's water balance given that its volume is expected to be fully lost to evaporation without runoff generation to Project storages. This approach is consistent with guidance from Agnico Eagle.
- 1% of the ore's weight trucked from the open pits to the Meadowbank mine was assumed to be saturated, as advised by Agnico Eagle.
- 3% of the waste rock's weight from the Underground Mine was assumed to be water, as advised by Agnico Eagle.

3.5 Hydrogeological Inputs

A numerical groundwater model was developed for the Expansion Project (Golder 2019b) and included two sets of predictions based on two scenarios:

- The Base Case: this scenario represents the best estimate of groundwater inflows and TDS based on the measured data.
- The Environmental Assessment (EA) Case: this scenario represents a more conservative, yet reasonable, scenario than the Base Case. This case was used for the water balance.

Table 2 and Table 3 present a summary of the groundwater inflows to the mine development areas during dewatering and mining for the Base Case and EA Case. Groundwater inflow to the IVR Pit during mining is not included as the pit is in permafrost (groundwater inflow is negligible).

The predicted inflows for the Whale Tail Pit, the Whale Tail Attenuation Pond and Whale Tail Lake (North Basin) are slightly greater (under 2%) under the EA Case than under the Base Case. The predicted inflows for the Underground Mine are approximately 2 to 3 times greater under the EA Case than for the Base Case.

The EA Case was used over the Base Case in the water balance, affecting the water balance as follows:

- No change in groundwater flow to the Whale Tail Attenuation Pond/Whale Tail Lake (North Basin);
- An increase in the outflow from the Attenuation Pond/ North Basin of up to 1%;
- An increase in inflows to GSPs for treatment.

Table 2: Predicted Groundwater Inflow during Dewatering and Mining - Whale Tail Pit and Underground

Phase	Time Period	Whale Tail Pit Groundwater Inflow (m^3/day)			Underground Groundwater Inflow (m^3/day)		
		Base Case	EA Case	Percent Increase	Base Case	EA Case	Percent Increase
Lake Dewatering	March-July 2019	NA	NA	NA	NA	NA	NA
Mining	August-December 2019[1]	970	970	0.0%	NA	NA	NA
	2020	1160	1170	0.9%	20	60	200%
	2021	1310	1320	0.8%	30	70	133%
	2022	1340	1360	1.5%	110	250	127%
	2023	1340	1360	1.5%	180	420	133%
	2024	1340	1350	0.7%	170	410	141%
	2025	1340	1350	0.7%	130	340	162%

Notes:
[1] Mining prior to Q4 2019 is within permafrost and groundwater inflow is negligible.
NA = not applicable; % = percent

Table 3: Predicted Groundwater Inflow during Dewatering and Mining - Whale Tail Attenuation Pond and Whale Tail Lake (North Basin)

Phase	Time Period	Whale Tail Attenuation Pond Groundwater Inflow (m^3/day)			Whale Tail Attenuation Pond Outflow (m^3/day)			Whale Tail Lake (North Basin) Groundwater Inflow (m^3/day)		
		Base Case	EA Case	Percent Increase	Base Case	EA Case	Percent Increase	Base Case	EA Case	Percent Increase
Dewatering	Match-August 2019	NA	NA	NA	NA	NA	NA	1320	1330	NA
Mining	August-December 2019	350	350	0%	180	180	0.0%	650	650	0%
	2020	120	120	0%	860	860	0.0%	720	720	0%
	2021	90	90	0%	1040	1050	1.0%	730	730	0%
	2022	90	90	0%	1080	1090	0.9%	720	720	0%
	2023	90	90	0%	1080	1090	0.9%	720	720	0%
	2024	90	90	0%	1080	1090	0.9%	720	720	0%
	2025	90	90	0%	1080	1090	0.9%	720	720	0%

Notes:

[1] Predictions of groundwater inflow to North Basin of Whale Tail lake represents the discharge of groundwater to the lake basin during dewatering and mining. This excludes discharges to the pit and Whale Tail Attenuation Pond, which are within the North Basin of Whale Tail Lake.

NA = not applicable, % = percent

Table 4 and Table 5 present a summary of the updated predicted Base Case and EA Case groundwater flow rates to the mine development areas during reflooding at closure. Groundwater inflow to/from the IVR Pit during mining is not included as the pit is in permafrost (groundwater inflow is negligible).

The groundwater inflows to Whale Tail Pit at closure are initially up to 100% higher in the EA case, with the disparity shrinking gradually until 2037, when the EA Case groundwater inflows equal the base case. The groundwater inflows to the Whale Tail Attenuation Pond range from 3% higher to 6% lower than for the Base Case. The net groundwater outflow from the Whale Tail Lake (North Basin) ranges -1% and 1% of the Base Case values. EA Case groundwater flows to the underground range from inflows up to 7 times higher, to outflows up to 1.5 times lower than for the Base Case.

Table 4: Predicted Groundwater Inflow during Closure - Whale Tail Pit, Whale Tail Attenuation Pond and Whale Tail Lake (North Basin)

Phase	Time Period	Whale Tail Pit Groundwater Inflow/Outflow (m^3/day)			Whale Tail Attenuation Pond Groundwater Inflow (m^3/day)			Whale Tail Lake (North Basin) Net Groundwater Discharge to Surface (m^3/day)		
		Base Case	EA Case	Percent Increase	Base Case	EA Case	Percent Increase	Base Case	EA Case	Percent Increase
Flooding	2026	NA	NA	NA	145	150	3%	340	345	1%
	2027	NA	NA	NA	170	170	0%	340	345	1%
	2028	NA	NA	NA	180	180	0%	345	345	0%
	2029	NA	NA	NA	185	180	-3%	345	345	0%
	2030	10	20	100%	190	185	-3%	345	345	0%
	2031	60	90	50%	180	170	-6%	345	345	0%
	2032	90	130	44%	170	160	-6%	345	340	-1%
	2033	120	170	42%	160	150	-6%	340	340	0%
	2034	130	170	31%	155	145	-6%	340	335	-1%
	2035	700	730	4%	125	120	-4%	330	330	0%
	2036	1160	1170	1%	85	85	0%	300	300	0%
	2037	910	910	0%	90	90	0%	300	300	0%
	2038	360	360	0%	115	115	0%	315	315	0%
	2039	-30	-30	0%	70	70	0%	370	370	0%
	2040	-10	-10	0%	0	0	0%	155	155	0%
	2041	0	0 to -5	0%	0	0	0%	-10	-10	0%

Notes:
Positive values indicate flow to the pit/pond and negative values indicate flow to bedrock.
NA = not applicable; % = percent

Table 5: Predicted Groundwater Inflow during Closure - Underground

Phase	Time Period	Underground Net Groundwater Inflow/Outflow (m^3/day)		
		Base Case	EA Case	Percent Increase
Flooding	2026	-30	10	133%
	2027	<-5	30	700%
	2028	<-5	20	500%
	2029	<-5	10	300%
	2030	<-5	10	300%
	2031	<-5	5	200%
	2032	<-5	5	200%
	2033	-5	-5	0%
	2034	-10	-5	50%
	2035	-10	-10	0%
	2036	-10	-15	-50%
	2037	-10	-20	-100%
	2038	-25	-35	-40%
	2039	-15	-25	-67%
	2040	-10	-25	-150%
	2041	-10	-20	-100%

Notes:
Positive values indicate flow to the pit/pond and negative values indicate flow to bedrock.
NA = not applicable; % = percent

4.0 UPDATES TO THE WATER BALANCE

Since the submission of the water balance report in support of the Expansion Project FEIS Addendum (Golder 2018a), several inputs to the water balance have been refined:

- Updated Project layout (Appendix B) and watershed areas. Differences can be attributed to the following:
  - Change in the location of ore, overburden and non-potentially acid generating (NPAG) stockpiles;
  - Updated Whale Tale WRSF Dike alignment provided by SNC Lavalin (2019), with input from Golder;
  - Updated watershed areas delineations provided by SNC Lavalin (2019), with input from Golder; and
  - Updates to the GSP footprints.

Table 6 compares the areas from the FEIS Addendum water balance Golder (2018a) and the updated water balance.

- Runoff and seepage from the WRSFs:

  Previously, runoff from the WRSFs was conservatively estimated as 50% and 70% of rainfall/snowmelt during operations and closure, respectively. Seepage was estimated as the overflow from the stockpile once the retention capacity (assumed to be up to 5% water by mass) has been reached. However, OKC has since performed hydrological modelling and updated the water balances for the Whale Tail and IVR WRSFs. A draft memorandum of the hydrological modelling results is available in Appendix E and is summarized here.

  OKC performed hydrological modelling to assist in developing the expected seasonal active layer thickness for the Whale Tail and IVR WRSFs. As a part of this study, estimates of runoff, interflow and basal seepage rates for the WRSF were developed. The results of the surface water balance for the WRSFs indicate that the hydrologic regimes are expected to be different for the north and south aspects of the WRSFs and for bare waste rock versus the cover system. However, the general runoff for the WRSFs can be summarized as a percentage of annual presentation. Runoff from the WRSF is an average of 5% of annual precipitation, with the majority of runoff (4%) occurring as a result of spring melt. For the purposes of the water balance presented in this report, this annual runoff is constant in operations and closure as the model results assume no change in runoff due to the placement of the closure cover.

  The OKC modelling indicates a high infiltration capacity. As water infiltrates into the surficial materials, it eventually freezes at depth. The base layer of the WRSF is predicted to be consistently frozen from the time of placement. As a result, basal seepage from the WRSFs is negligible.

- Dewatering schedule:

  The dewatering schedule has been modified slightly. Where previously the dewatering to Whale Tail Lake (South Basin) was assumed to occur between March and June 2019, the schedule has been split into two phases: Phase 1 is initiated in March 2019 for approximately 45 days; Phase 2 starts in June 2019.

- Treatment:

  The O-WTP is available starting in March 2019 instead of June 2019.

- Consumptive Flows:

  To accommodate increased camp capacity during operations, Camp water use now increases from 77.8 m^3/day to 192 m^3/day from January 2021 to the end of operations.

- Hydrogeological inputs:

  The groundwater model inputs are based on the latest EA Case hydrogeological predictions presented in Golder 2019b). A summary of the hydrogeological predictions is presented in Section 3.5. The updated groundwater flows for the Whale Tail Pit range from 1% - 15% lower than predicted for the Expansion Project FEIS Addendum. Groundwater to the underground is 14% to 21% lower. Groundwater flows to the Whale Tail Attenuation Pond and Whale Tail Lake (North Basin) remain unchanged.

The impacts of these modifications on the water balance are highlighted in the relevant sections of this report.

Table 6: Change in Facility Watershed Areas

Facility	Time Period	Maximum Contributing Watershed Area (km^2)		Percent Difference (%)
		FEIS Addendum	Update	
Quarry 1	Baseline	0.04	0.04	0.3
	2018 to June 2019	1.48	1.62	9.4
GSP-1	Baseline	0.117	0.140	19.6
	2018 to Closure	0.162	0.156	-3.7
	Closure to Post-Closure	0.117	0.140	19.6
GSP-2	Baseline to 2022	0.034	0.078	129.3
	2022 to Closure	0.034	0.078	129.3
	Closure to Post-Closure	0.034	0.062	82.1
Underground Mine	Baseline to Post-Closure	0.011	0.011	-3.0
Northeast sector	Baseline to July 2020	1.880	1.91	1.5
	July 2020 to Post-Closure	0.643	0.684	6.4
Whale Tail WRSF	Baseline to Post-Closure	1.10	1.09	-0.7
North Sector	Baseline to Post Closure	0.289	0.243	-16.1
Whale Tail Pit	Baseline to Closure	1.16	1.17	0.6
	Closure (> IVR Pit full) to Post-Closure)	29.5	29.8	1.1
Whale Tail Lake (North Basin) / Whale Tail Attenuation Pond	Baseline to 2019	28.4	28.6	0.7
	2019	3.86	3.05	-20.9
	Whale Tail Lake (North) Dewatered to Closure	5.07	5.16	1.8
IVR Pit	Q3 2020 to Closure	1.05	1.18	12.0
	Closure to Post-Closure	27.3	25.4	-6.9
IVR WRSF	Baseline to Closure	0.788	0.92	16.2
	Closure to Post-Closure	0.822	0.977	18.9
IVR Attenuation Pond	Baseline to 2022	1.35	1.32	-2.5
	2022 to Closure	6.42	6.48	0.9
	Closure to Post-Closure	1	0.86	-14.1
Whale Tail Lake (South Basin)	Baseline	22.3	22.3	0.0
	Construction to Closure	28.7	28.8	0.3
	Closure to Post-Closure	22.3	22.3	0.0

5.0 MEAN ANNUAL WATER BALANCE

5.1 Quarry 1

5.1.1 Catchment Characteristics and Water Management

Prior to mining activities, the natural area of Quarry 1 drains to Whale Tail Lake (North Basin). The Quarry 1 catchment is primarily used to manage contact water until Whale Tail Lake (North Basin) is dewatered and the Whale Tail Attenuation Pond becomes available. Contact water accumulated in Quarry 1 is discharged entirely to Lake A16 (Mammoth Lake) through the O-WTP once available in March 2019. Quarry 1 becomes part of the Whale Tail Pit thereafter.

An overview of the local Quarry 1 catchment, along with natural and operational drainage pathways, is provided in Figure 6.

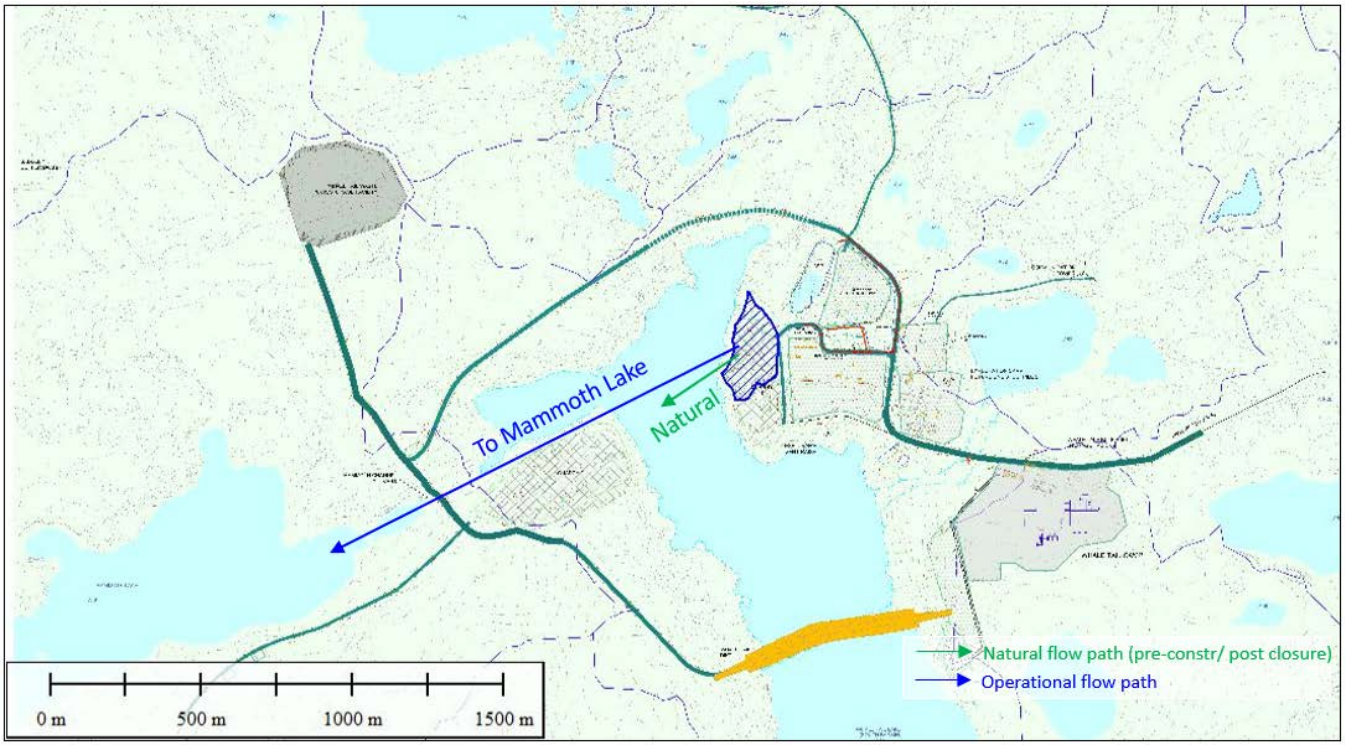

Figure 6: Quarry 1 Catchment Overview

Storage characteristics are summarized in Table 7, and elevation-storage-area relationships are provided in Appendix C. Drainage areas of Quarry 1 over time are summarized in Figure 7.

Quarry 1 has a baseline drainage area of 0.040 km^2. Contributing catchments - the Starter Pit, Whale Tail WRSF, the Camp Sector (i.e., disturbed area surrounding the camp), the Industrial Sector (i.e., disturbed area east of Quarry 1 consisting of developed pad areas and ore stockpiles), and the Overburden Sector (i.e., disturbed area south of the Starter Pit consisting of construction material and ore stockpiles- increase the area to 1.62 km^2 in 2018 until the Whale Tail Attenuation Pond is available.

Table 7: Storage Characteristics (Quarry 1)

Snapshot	Peak Drainage Area (km^2)	Operating Level		Capacity	
		Water Surface Elevation (masl)	Storage (m^3)	Water Surface Elevation (masl)	Storage (m^3)
Baseline	0.040	155.00	0	155.00	0
2018 to June 2019	1.62	139.00	0	155.00	203,450

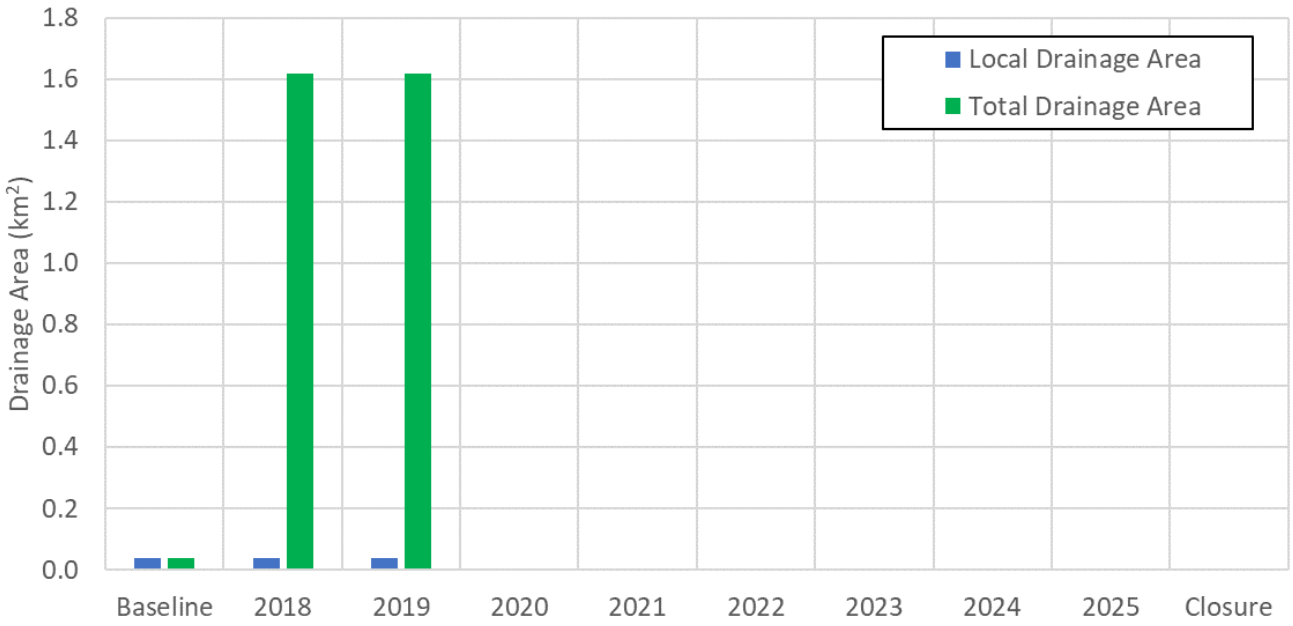

Figure 7: Drainage Area Progression through the Project (Quarry 1)

5.1.2 Water Balance

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

Table 8: Water Balance Flow Components (Quarry 1)

Figure	Flow Component	Flow Type	Start	End	Note / Comment
INFLOWS					
■ Figure 8 (Construction / Operations) ■ Figure 9 (Closure)	■ Runoff from the Quarry drainage area	■ Natural drainage	■ 2018	■ June 2019	■ Catchment runoff until decommissioning of Quarry 1 by June 2019 once Whale Tail Lake (North Basin) is dewatered.
	■ Runoff from the Starter Pit	■ Pump / Pipeline	■ July 2018	■ June 2019	■ Runoff collected from the Starter Pit until decommissioning of Quarry 1 by June 2019 once Whale Tail Lake (North Basin) is dewatered.
	■ Runoff from the Whale Tail WRSF Contact Water Collection System	■ Pump / Pipeline	■ 2018	■ June 2019	■ Runoff collected from the Whale Tail WRSF until decommissioning of Quarry 1 by June 2019 once Whale Tail Lake (North Basin) is dewatered and Whale Tail Attenuation Pond becomes operational.
	■ Runoff from the Industrial Sector, Overburden Sector and Camp Sector	■ Pump / Pipeline	■ 2018	■ June 2019	■ Runoff collected until decommissioning of Quarry 1 by June 2019 once Whale Tail Lake (North Basin) is dewatered and Whale Tail Attenuation Pond becomes operational. ■ Runoff diversion from the Camp Sector is initiated following completion of mining in Quarry 1 by end of July 2018.
	■ Pumped flows from the Truck Shop	■ Pump / Pipeline	■ 2018	■ June 2019	■ Flow from the Truck Shop until decommissioning of Quarry 1 by June 2019 once Whale Tail Lake (North Basin) is dewatered and Whale Tail Attenuation Pond becomes operational.
	■ Drilling Water	■ Pump / Pipeline	■ 2018	■ August 2018	■ Drilling water from Whale Tail Lake (South Basin) until mining of Quarry 1 is completed by August 2018.
OUTFLOWS					
■ Figure 10 (Construction / Operations) ■ Figure 11 (Closure)	■ Evaporation	■ n/a	■ 2018	■ June 2019	■ Evaporative losses proportional to the water surface area in Quarry 1.
	■ Drawdown through O-WTP	■ Pump / Pipeline	■ June 2019	■ June 2019	■ Drawdown of Quarry 1 to Lake A16 (Mammoth Lake) via the O-WTP. ■ Drawdown volume is expected to be approximately 237,250 m^3.

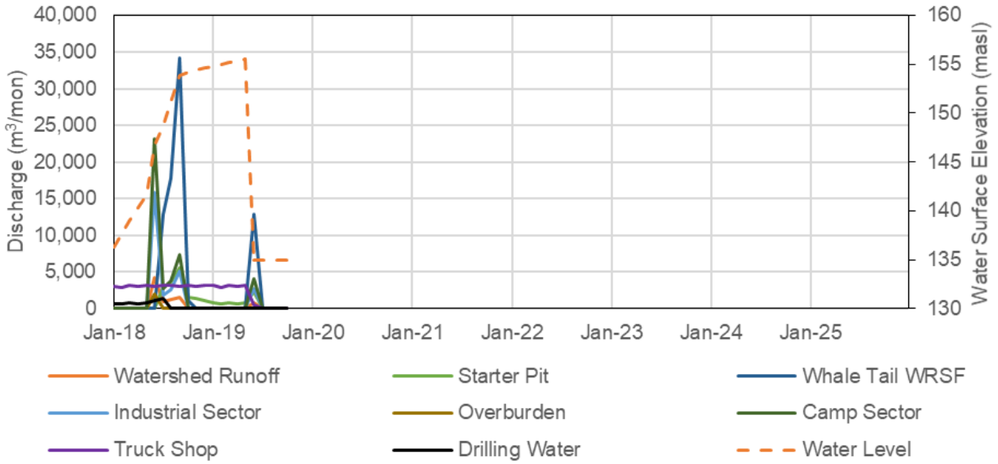

Figure 8: Inflows to Quarry 1 (Construction and Operations)

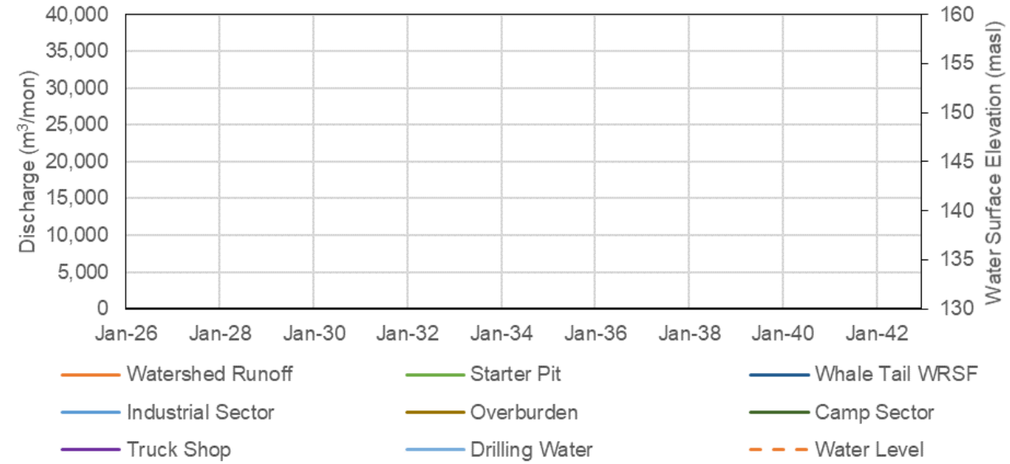

Figure 9: Inflows to Quarry 1 (Closure) – Quarry 1 integrated into the pit, waters report to the pit

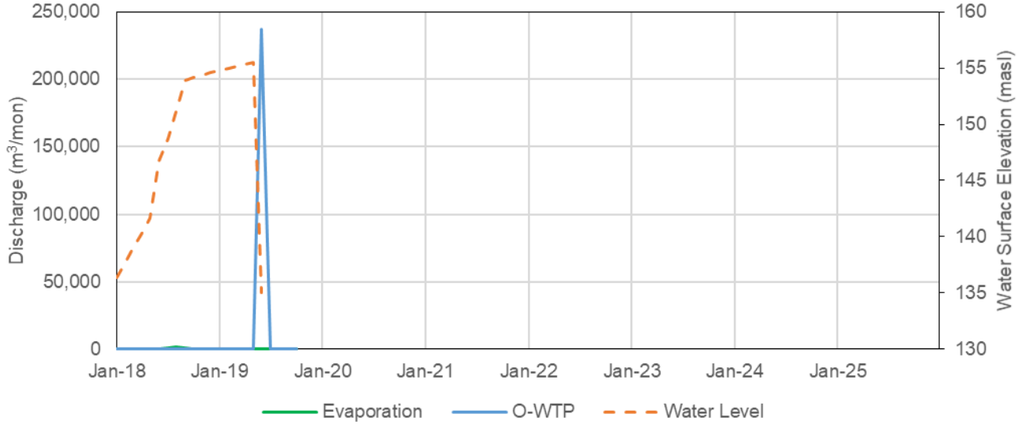

Figure 10: Outflows from Quarry 1 (Construction and Operations)

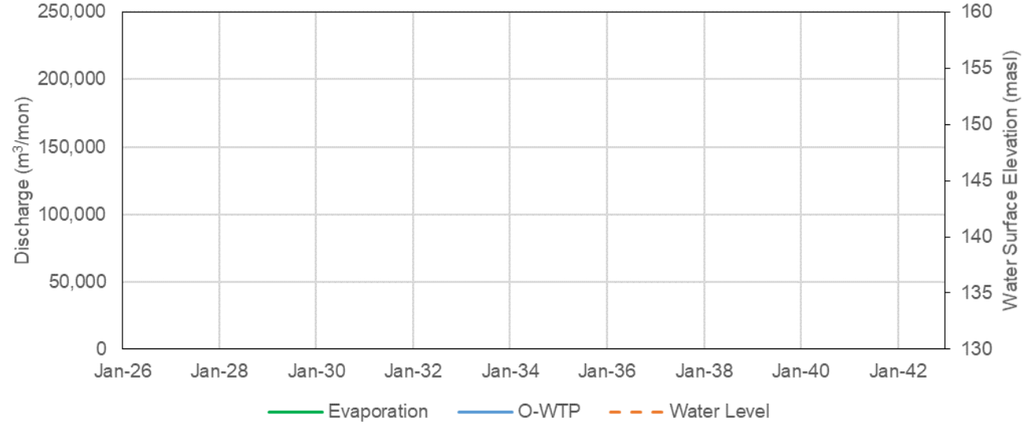

Figure 11: Outflows from Quarry 1 (Closure) – Quarry 1 integrated into the pit, waters report to the pit

5.1.3 Changes from the FEIS Addendum

The following changes are relevant to the Quarry 1 water balance:

- The total drainage area reporting to Quarry 1 is approximately 9% higher than for the Expansion Project FEIS Addendum reported in 2018 (Table 6). Other than the minor changes in catchment area due to the updated delineations, this increase is primarily due to the updated overburden and ore stockpile footprints.
- Changes to the runoff calculations for the Whale Tail WRSF. Although the runoff on the waste rock is significantly reduced, due to the small proportion of waste rock in the Whale Tail WRSF in the drainage area in 2018, there is only a small reduction in overall contribution from the WRSF drainage area.
- Dewatering schedule. In the model, once Whale Tail North is completely dewatered, flows are pumped to the Whale Tail Attenuation Pond instead of Quarry 1. Although the total volume dewatered from Whale Tail North remains constant, the schedule has changed (as described in Section 4.0). As a result, flows are still pumped to Quarry 1 in early June.

The combined impact of these changes results in an additional 52,400 m^3 reporting to Quarry 1 by June 2019 (240,730 m^3 compared with 188,330 m^3) (Figure 12).

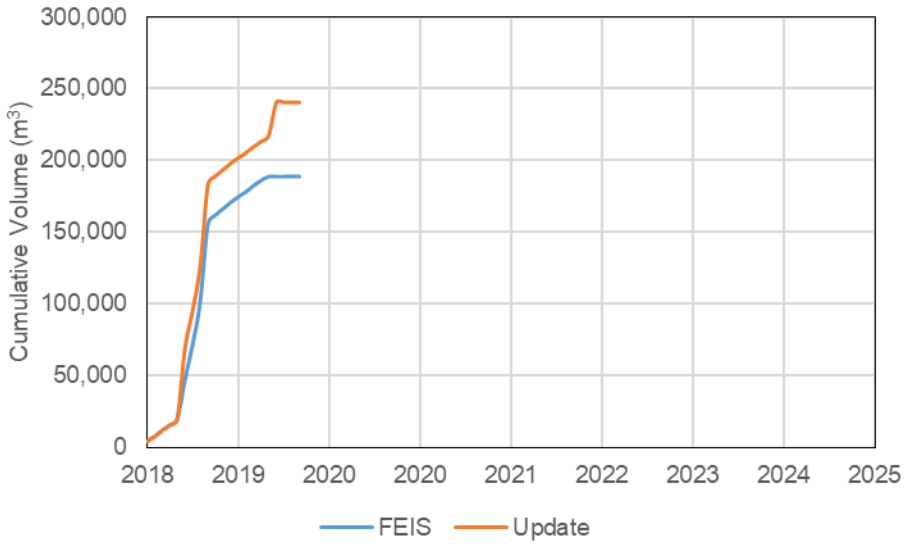

Figure 12: Comparison of Cumulative Inflows to Quarry 1 under the FEIS Addendum and the Current Water Balances

5.2 Groundwater Storage Pond System

A GSP system is designed to capture TDS (salt) affected waters. Up to three GSPs are planned to provide operational flexibility and adaptive management opportunity. GSP-1 is used to store high salinity water from early mining operations through the permafrost. GSP-2 is used to store low salinity water. A potential third pond is planned as a contingency.

5.2.1 Groundwater Storage Pond 1 (GSP-1)

5.2.1.1 Catchment Characteristics and Water Management

GSP-1 (former Pond AP-5) is located just northeast of, and drains naturally to, Whale Tail Lake. The pond is excavated and pumped dry prior to 2018 to permanently increase capacity in order to manage runoff, consumptive flows, groundwater inflows from the Underground Mine and the S-WTP (brackish) treatment unit brine concentrate reject throughout construction and operations. It is referred to as a GSP-1 once operational, and represented by GSP-1 in drawings provided in Appendix B. The purpose of this pond is to manage the high salinity flows from underground at the start of underground mining when a 20% brine is added to drilling water; and to receive the brine concentrate from S-WTP (brackish). This pond also receives excess water from the Whale Tail Attenuation Pond over the winter of 2019-2020, increasing its water level. The pond is subsequently flushed prior to freshet 2020 through the O-WTP to increase its storage capacity for the remainder of operations. An underground storage stope of approximately 10,000 m^3 capacity will also assist in retaining brine until January 2022 when it is pumped out to GSP-1.

The salt content of inflows from the Underground Mine is expected to decrease once underground development is advanced below the permafrost, after which drill water brining will stop and groundwater inflows will have a substantially lower natural TDS content (generally less than 1%; Golder 2016). This lower TDS water is managed separately in another Groundwater Storage Pond (GSP-2) to manage brackish water, as described in Section 5.2.1.3.

At closure, the content of GSP-1 is drawn down by pumping to flood the Underground Mine, and the empty pond is backfilled with clean (low leachable and non-acid generating (NML/NPAG)) waste rock, permanently reducing its storage to zero. Natural drainage patterns are then re-established towards Whale Tail Lake (North Basin) via the Whale Tail Pit.

An overview of the catchment, along with its drainage pathways, is provided in Figure 13.

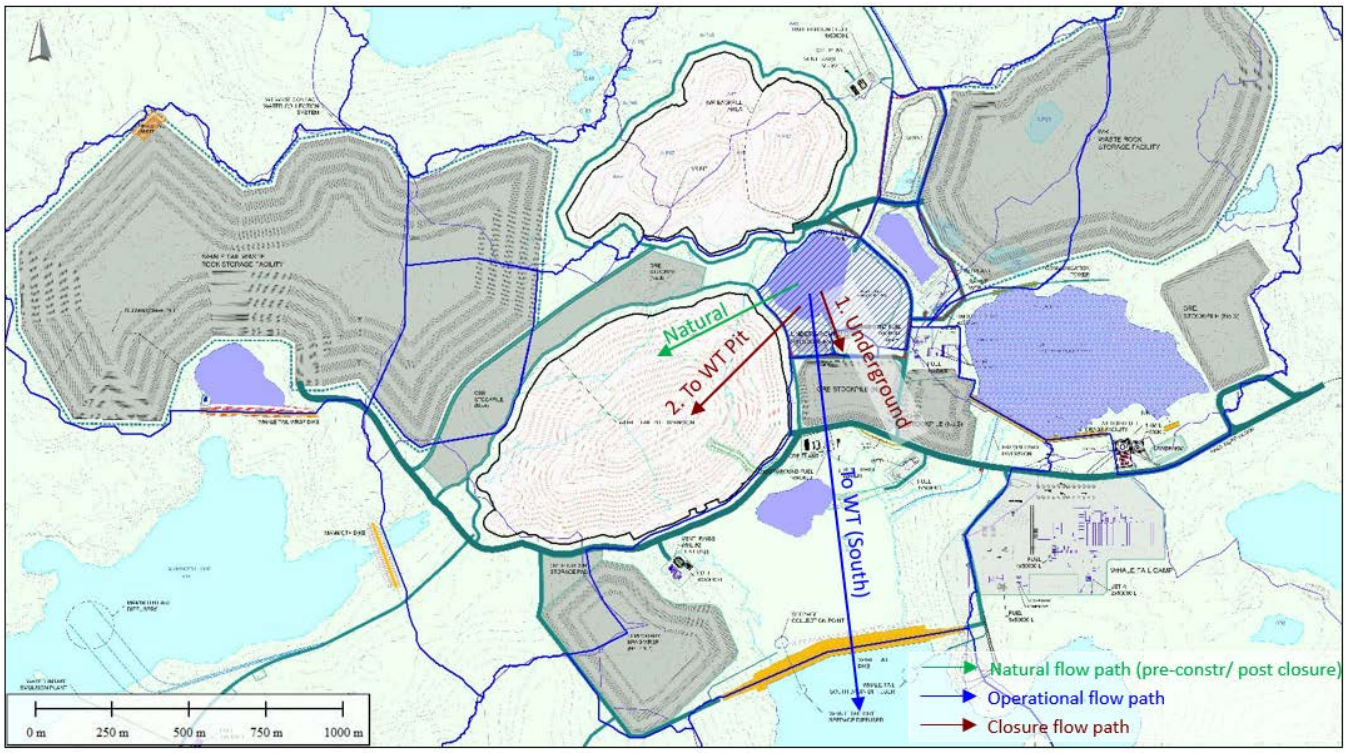

Figure 13: GSP-1 Catchment Overview

Storage characteristics are summarized in Table 9, and elevation-storage-area relationships are provided in Appendix D. Drainage areas of GSP-1 are summarized in Figure 14 through the Project.

The drainage area of GSP-1 increases temporarily from baseline conditions (0.140 km^2) to 0.156 km^2 due to the management of the Underground Mine overflow starting in 2018 until GSP-2 becomes operational in 2022. At closure, GSP-1 is backfilled and natural drainage patterns are re-established.

Table 9: Storage Characteristics (GSP-1)

Snapshot	Drainage Area (km^2)	Operating Level		Capacity	
		Water Surface Elevation (masl)	Storage (m^3)	Water Surface Elevation (masl)	Storage (m^3)
Baseline	0.140	160.9	n/a	160.9	n/a
2018 to 2022	0.156	144.0 – 160.9	0 – 309,150	160.9	309,150
2022 to Post-Closure	0.140	160.9	n/a	160.9	0

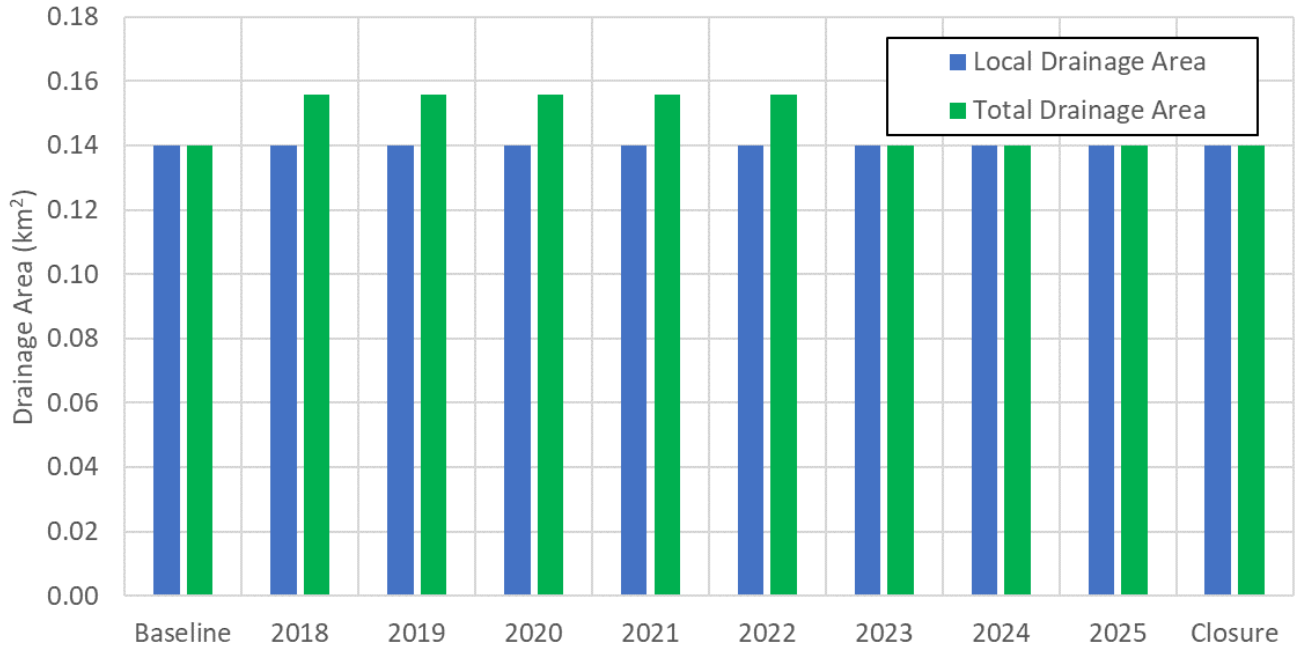

Figure 14: Drainage Area Progression through the Project (GSP-1)

5.2.1.2 Water Balance

Inflows and outflows are summarized in Table 10, and presented in tabular form in Appendix F.

Table 10: Water Balance Flow Components (GSP-1)

Figure	Flow Component	Flow Type	Start	End	Note / Comment
INFLOWS					
■ Figure 15 (Construction / Operations) ■ Figure 16 (Closure)	■ 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 waste rock pad	■ Natural drainage	■ 2018	■ Closure	■ Runoff volumes are expected to be proportional to the area of the waste rock pad.
	■ Overflow from the Underground Mine	■ Pump / Pipeline	■ 2018	■ Closure	■ Overflow from the Underground Mine is expected by April 2020 to June 2022. ■ Overflow results primarily from groundwater inflows once the Underground Stope (intended to supplement the capacity of GSP-1) is full (assumed to be 10,000 m^3).
	■ Drawdown from the Underground Stope	■ Pump / Pipeline	■ 2018	■ Closure	■ Drawdown of the Underground Stope in January 2022.
	■ Overflow from the Whale Tail Attenuation Pond	■ Pump / Pipeline	■ Oct 2019	■ May 2020	■ Overflow from the Whale Tail Attenuation Pond during frozen conditions from October 2019 to May 2020.
	■ Brine from the S-WTP (brackish) Unit	■ Pump / Pipeline	■ Oct 2020	■ Closure	■ S-WTP (brackish) brine concentrate reject from treatment of the Whale Tail Attenuation Pond during frozen conditions from October 2020 to May 2021. ■ S-WTP (brackish) brine concentrate reject from treatment of GSP-2 which collects excess groundwater inflows from the Underground Mine from May 2022 to Closure.
OUTFLOWS					
■ Figure 17 (Construction / Operations) ■ Figure 18 (Closure)	■ Evaporation	■ n/a	■ 2018	■ Closure	■ Evaporative losses expected to be proportional to the water surface area of GSP-1. ■ At closure, GSP-1 is backfilled. It has negligible storage or evaporation potential.
	■ Discharge to the Underground Mine	■ Pump / Pipeline	■ 2018	■ 2021 Level > -275 masl	■ Supplemental consumptive flows to the Underground Mine when elevation of the development of the Underground Mine is shallower than -275 masl (i.e., below the base of the permafrost).
	■ Drawdown to the O-WTP	■ Pump / Pipeline	■ Jun 2020	■ Jun 2020	■ Drawdown of GSP-1 to Lake A16 (Mammoth Lake) via the O-WTP in June 2020. ■ Intended to prevent untreated overflow of the GSP-1 to the receiving environment and dilution of high salinity waters.
	■ Discharge to the S-WTP (brine) Unit	■ Pump / Pipeline	■ 2022 Level < -275	■ Closure	■ Treatment at a rate of 60 m^3/day in 2022. ■ Treatment at a rate of 90 m^3/day from 2023 to closure. ■ Treated water (permeate) is discharged to Whale Tail Lake (South Basin).
	■ Drawdown to the Underground Mine	■ Pump / Pipeline	■ Closure	■ Closure	■ Drawdown of GSP-1 to the Underground Mine to expedite refilling of the Underground Mine. ■ Drawdown is expected to be completed in January 2026.
	■ Runoff to Whale Tail Pit	■ Natural drainage	■ Closure	■ Post-Closure	■ Following drawdown, GSP-1 is backfilled with clean waste rock and its natural drainage patterns are re-established. ■ GSP-1 drains towards Whale Tail Lake via Whale Tail Pit.

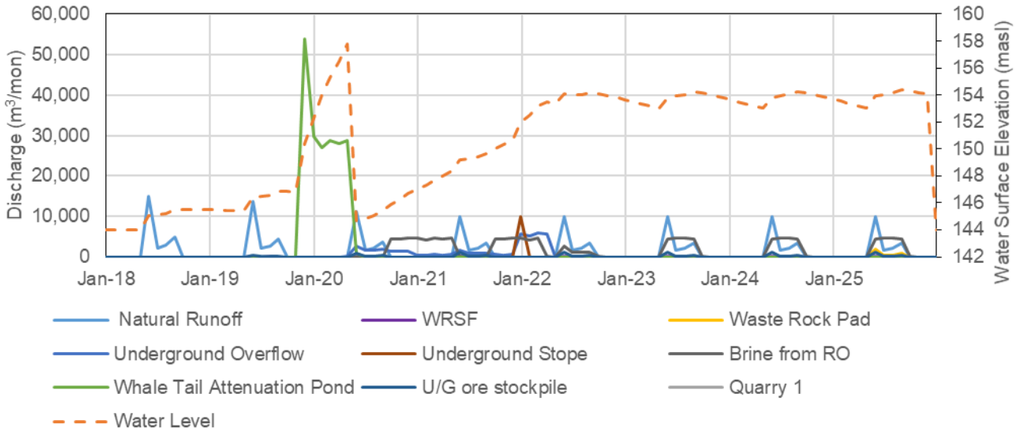

Figure 15: Inflows to GSP-1 (Construction and Operations)

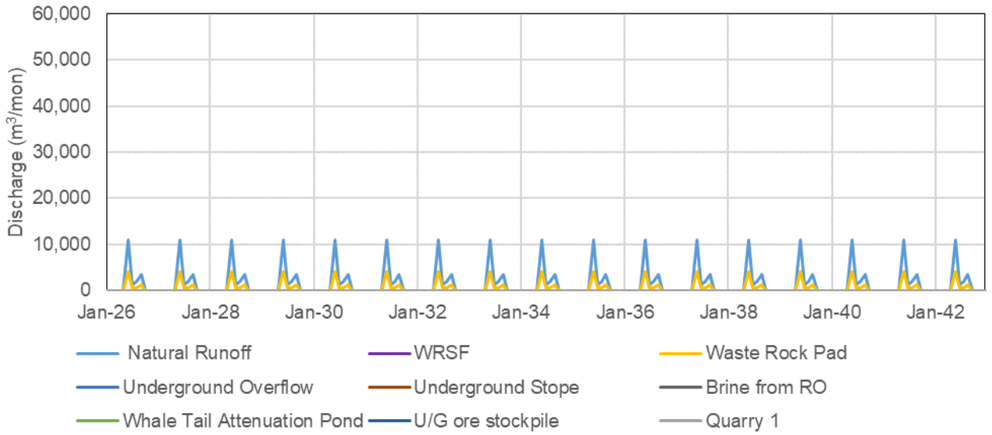

Figure 16: Inflows to GSP-1 Area (Closure)

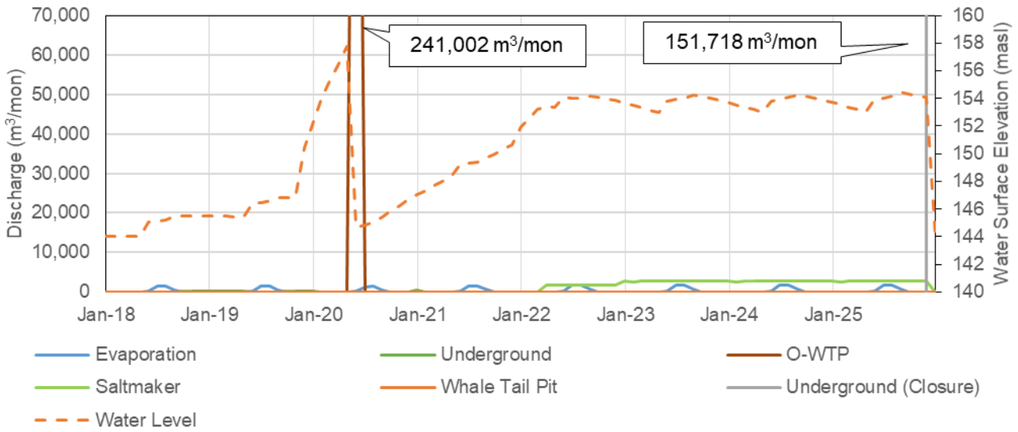

Figure 17: Outflows from GSP-1 (Construction and Operations)

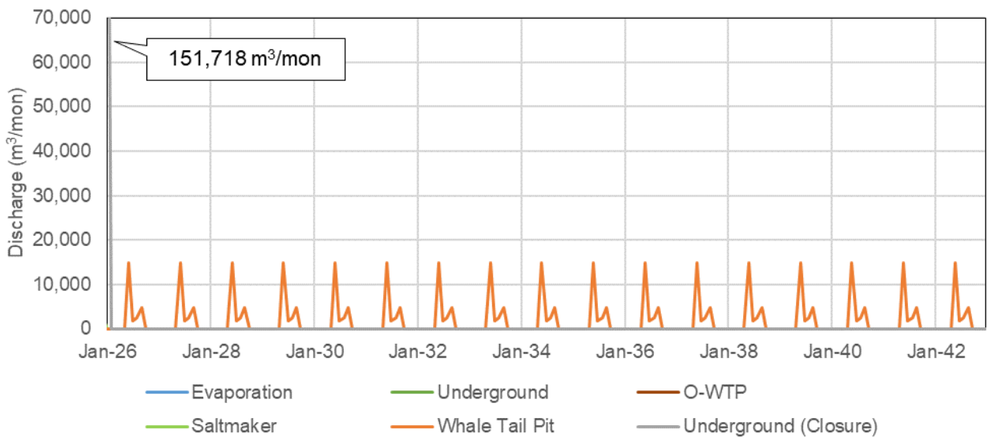

Figure 18: Outflows from GSP-1 Area (Closure)

5.2.1.3 Changes from the FEIS Addendum

The following changes are relevant to the GSP-1 water balance:

- The local drainage area reporting to GSP-1 has increased from 0.12 km^2 to 0.14 km^2 (20%). This is due to the larger footprint of the GSP as well as the footprints of the underground waste pad and the underground ore stockpile. However, the total drainage area is slightly smaller (0.156 km^2 compared to 0.162 km^2). This is approximately 9% higher than reported for the FEIS Addendum reported in 2018 (Table 6).
- The reduction of runoff from the Underground WRSF based on the OKC method of calculating runoff. This reduction only applies during operations. Once this waste rock is moved underground at closure, runoff from the pad reverts to the original calculation method.
- The reduction of overflow from the underground due to the updated hydrogeological inputs. The impact of these inputs on the underground flows is discussed further in Section 5.3.3.

The impact of these changes results in a slight decrease (approximately 1%) in cumulative inflows to GSP-1 in operations (540,650 m^3 vs. 545,100 m^3). In closure however, there is more inflow to the watershed. By the time Whale Tail Lake (North Basin) reaches its final elevation in 2042, the cumulative inflows are 11% higher than for the FEIS case (947,100 m^3 vs 853,200 m^3) (Figure 19).

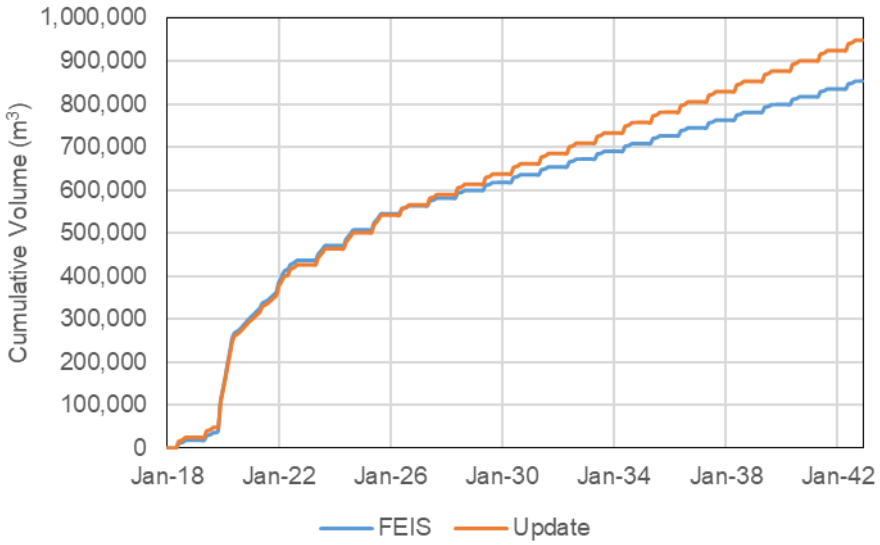

Figure 19: Comparison of Cumulative Inflows to GSP-1 under the FEIS Addendum and the Current Water Balances

5.2.2 Groundwater Storage Pond 2 (GSP-2)

5.2.2.1 Catchment Characteristics and Water Management

The catchment of the Groundwater Storage Pond 2 (GSP-2) is located just east of the catchment of GSP-1 and naturally drains to Lake A50 or to the IVR WRSF Contact Water Collection System once operational (see Section 5.9.3). The catchment of GSP-2 is part of the Northeast Sector (see Section 5.2.2.3) until Q3 2020 when the IVR Pit is initiated. It then becomes part of the IVR WRSF catchment until GSP-2 becomes operational in 2022 to manage excess low salinity water from the Underground Mine. Water from this pond is treated through the S-WTP

(brackish), producing a brine concentrate (sent to GSP-1) and a clean water permeate (sent to Whale Tail Lake (South Basin)) until closure when GSP-2 is drawn down by pumping to the Underground Mine, backfilled with NML/NPAG waste rock, and the natural drainage patterns are re-established.

An overview of the catchment, along with its drainage pathways, is provided in Figure 20.

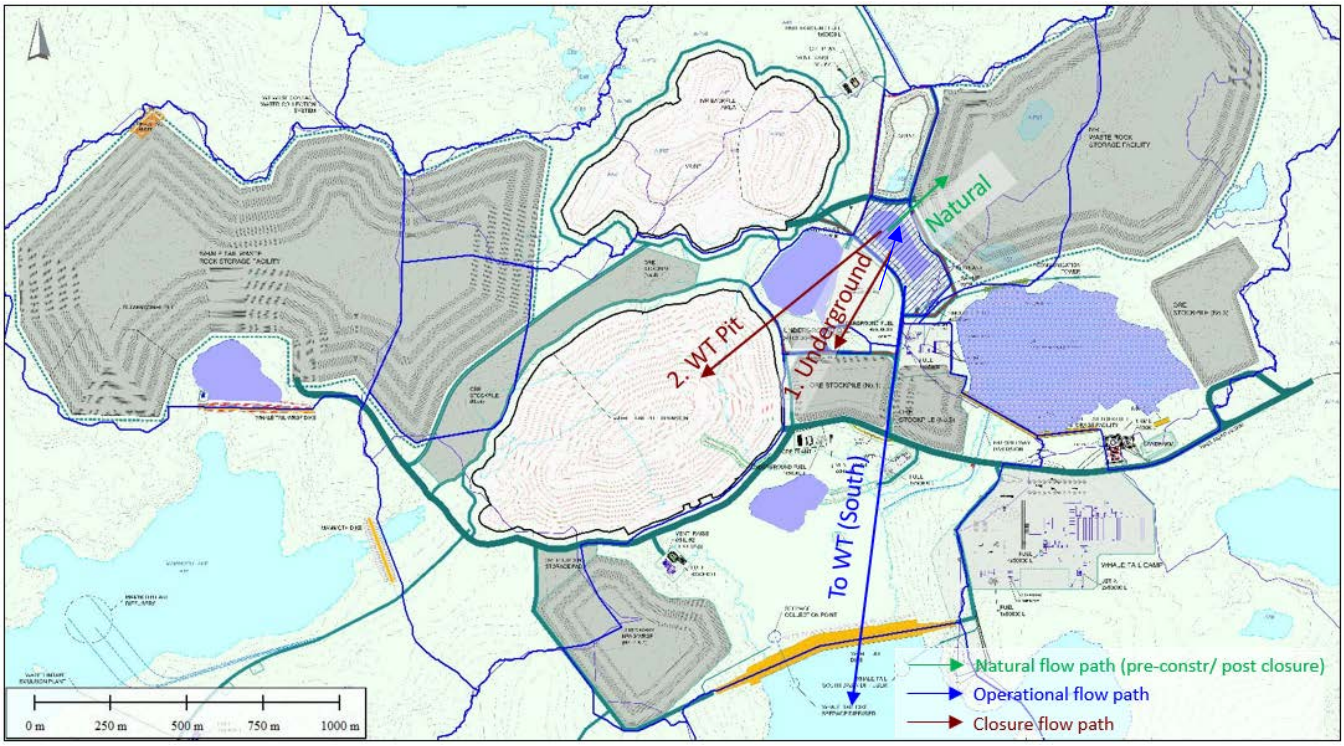

Figure 20: GSP-2 Catchment Overview

Storage characteristics, as determined based on this mean annual water balance, are summarized in Table 11. Drainage areas of GSP-2 are summarized in Figure 21.

The drainage area of GSP-2 is augmented from 0.062 km^2 to 0. 078 km^2 due to the management of the Underground Mine overflow starting in 2022. At closure, GSP-2 is backfilled and natural drainage patterns are re-established.

Table 11: Storage Characteristics (GSP-2)

Snapshot	Drainage Area (km^2)	Operating Level		Capacity	
		Water Surface Elevation (masl)	Storage (m^3)	Water Surface Elevation (masl)	Storage (m^3)
2022 to Closure	0.078	142.0 – 160.0	0 - 352,900	160.0	352,900
Closure to Post-closure	0.062	160.0	0	160.0	0

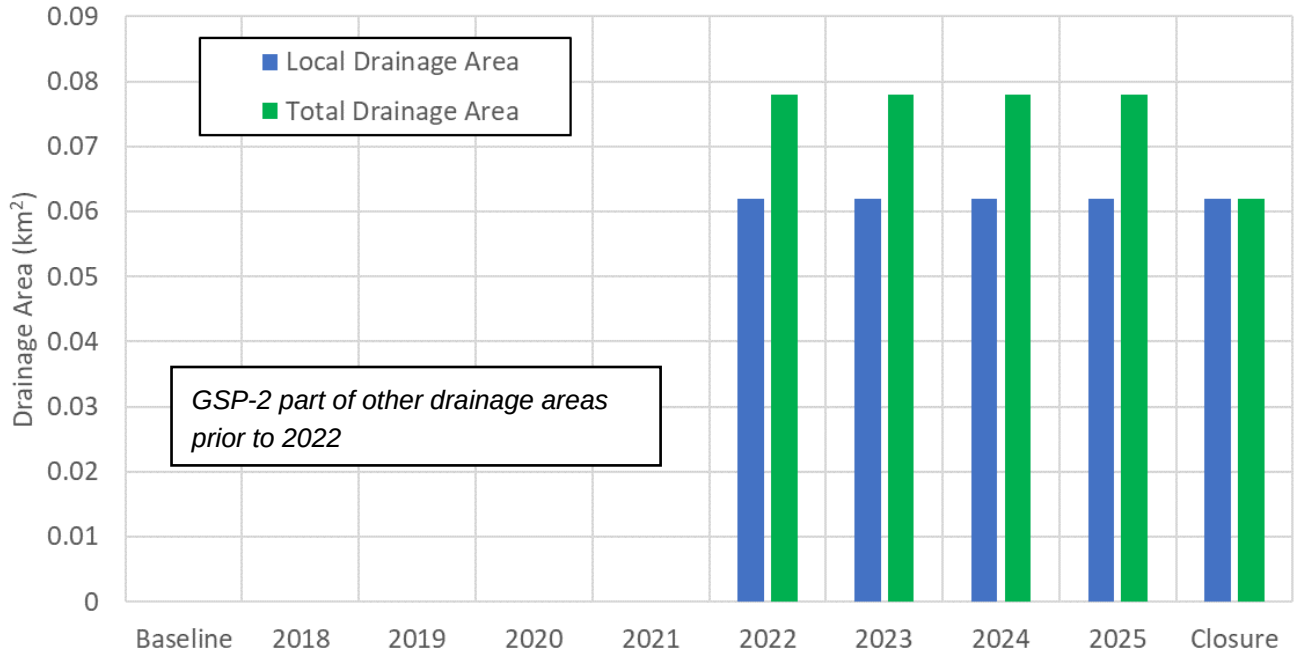

Figure 21: Drainage Area Progression through the Project for GSP-2

5.2.2.2 Water Balance

Inflows and outflows are summarized and discussed in Table 12, and presented in tabular form in Appendix F.

Table 12: Water Balance Flow Components (GSP-2)

Figure	Flow Component	Flow Type	Start	End	Note / Comment
INFLOWS					
■ Figure 22 (Construction / Operations) ■ Figure 23 (Closure)	■ Watershed runoff	■ Natural drainage	■ 2022	■ Post-Closure	■ Runoff to the GSP-2 catchment. ■ Prior to the initiation of GSP-2, runoff volumes are accounted for in the Northeast Sector until Q3 2020, and in the IVR WRSF catchment from Q3 2020 to 2022.
	■ Low salinity overflow from the Underground Mine Sump	■ Pump / Pipeline	■ 2022	■ Closure	■ Overflow from the Underground Mine Sump when salinity is appropriate to be managed through GSP-2. ■ Runoff volumes are expected to be consistent with groundwater inflows to the Underground Mine.
OUTFLOWS					
■ Figure 24 (Construction / Operations) ■ Figure 25 (Closure)	■ Evaporation	■ n/a	■ 2022	■ Closure	■ Evaporative losses expected to be proportional to the water surface area of GSP-2. ■ At closure, GSP-2 is backfilled. It has negligible storage or evaporation potential.
	■ Discharge to the S-WTP (brackish)	■ Pump / Pipeline	■ 2022	■ Closure	■ Runoff treatment at a maximum rate of 1,000 m^3 per day. ■ Resulting brine concentrate (assumed to be 15% of the treated volume) is conveyed to GSP-1. ■ Resulting treated water permeate (assumed to be 85% of the treated volume) is conveyed to Whale Tail Lake (South Basin).
	■ Drawdown to the Underground Mine	■ Pump / Pipeline	■ Closure	■ Closure	■ Drawdown of GSP-2 to the Underground Mine in January 2026 prior to backfilling.

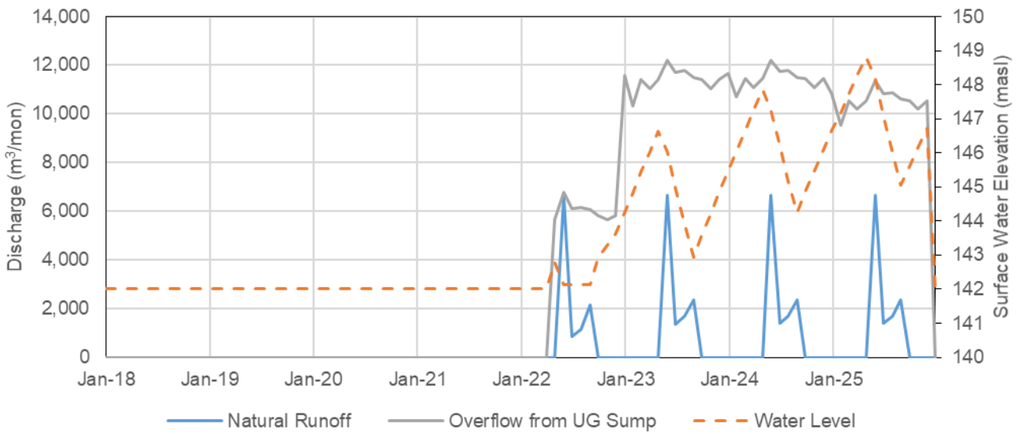

Figure 22: Inflows to GSP-2 (Construction and Operations)

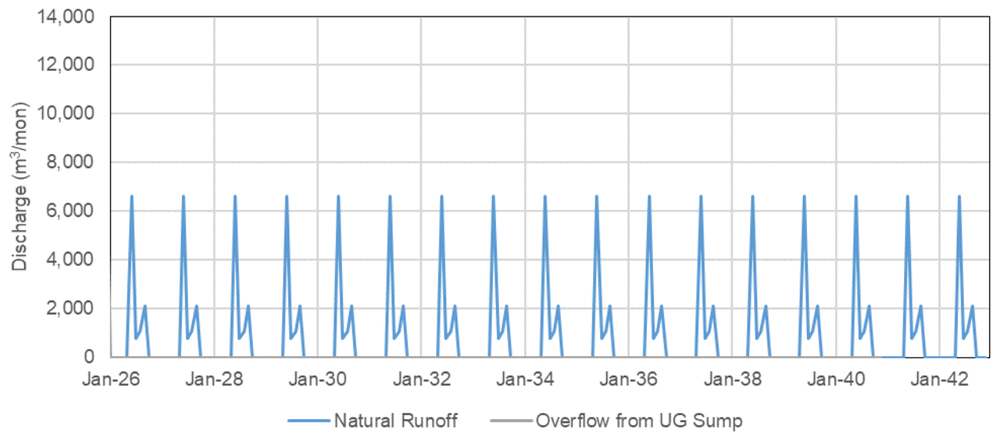

Figure 23: Inflows to GSP-2 (Closure)

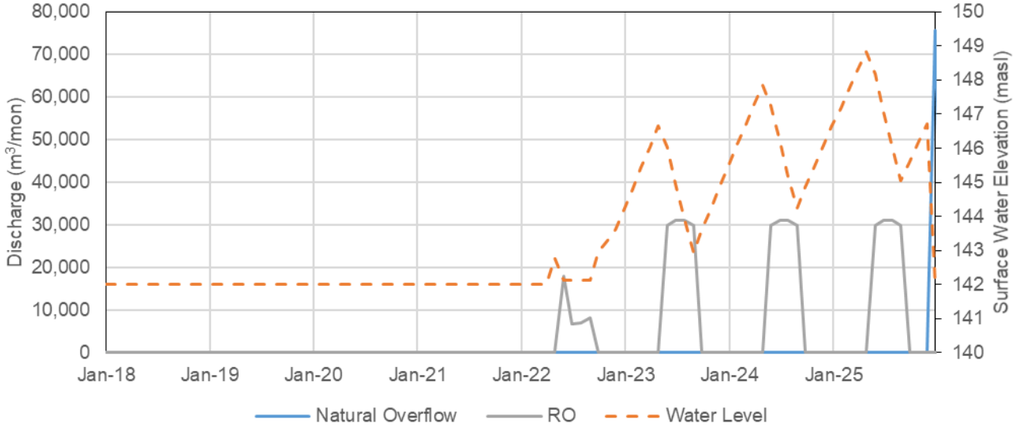

Figure 24: Outflows from GSP-2 (Construction and Operations)

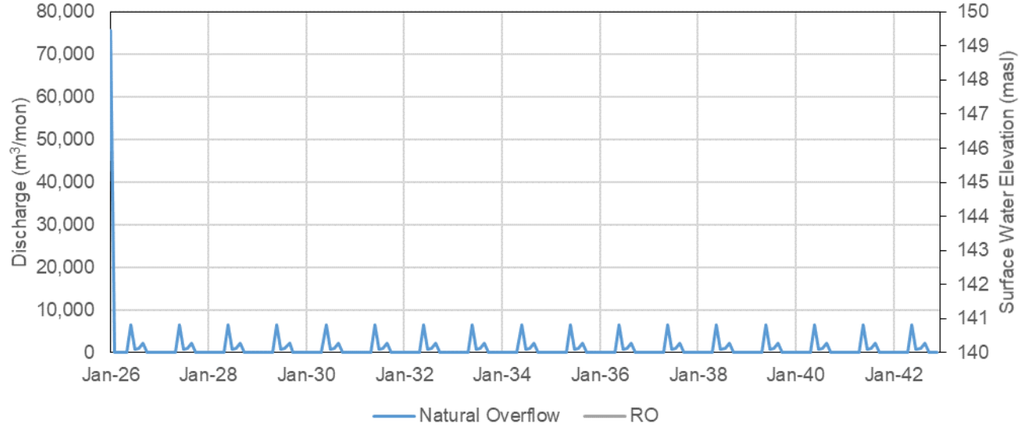

Figure 25: Outflows from GSP-2 (Closure)

5.2.2.3 Changes from the FEIS Addendum

The following changes are relevant to the GSP-2 water balance:

- The previous model did not have a defined location or footprint for GSP-2. GSP-2 has since been defined, with the storage curve presented in Appendix D. The local drainage area is also now defined. As a result, the local drainage area reporting to GSP-2 has increased by over 80%, from 0.034 km^2 to 0.062 km^2.
- The reduction of overflow from the underground due to the updated hydrogeological inputs. The impact of these inputs on the underground flows is discussed further in Section 5.3.3.

The impact of these changes results in a decrease (approximately 15%) in cumulative inflows to GSP-2 in operations (496,200 m^3 vs. 587,450 m^3). This changes in closure, when there is no longer overflow from the underground. By the time Whale Tail Lake (North Basin) reaches its final elevation in 2042, the cumulative inflows are only 1.5% lower than for the FEIS case (676,050 m^3 vs 686,600 m^3) (Figure 26).

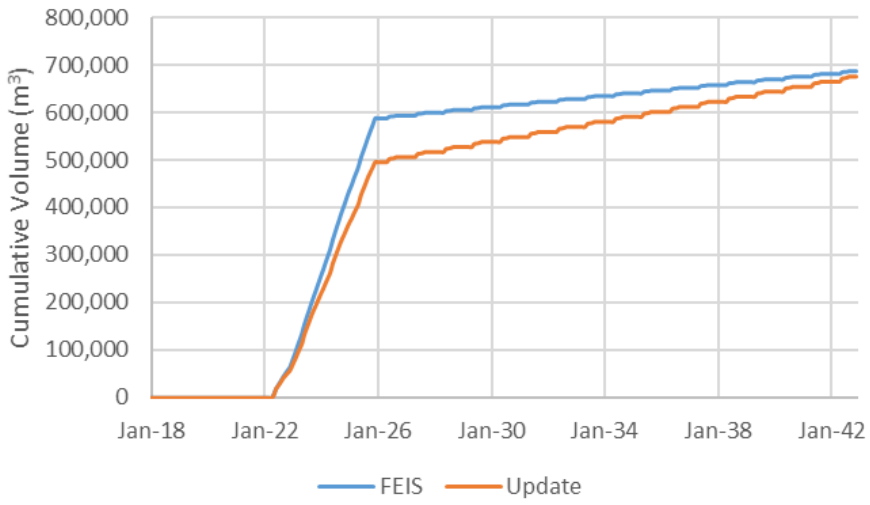

Figure 26: Comparison of Cumulative Inflows to GSP-2 under the FEIS Addendum and the Current Water Balances

5.2.3 Groundwater Storage Pond 3 (GSP-3)

Although currently not included in the water balance, GSP-3 is planned as a contingency for operational flexibility and adaptive management opportunities. The pond may provide additional storage capacity on surface if in the event of an increase in groundwater flows, or if underground storage is permanently or temporarily unavailable. This would allow for increased flexibility for treatment and discharge of site water.

If required, it would be constructed west of the IVR WRSF and north of GSP-2. Its potential location is shown in Figure 27. The potential catchment of GSP-3 is within the IVR Pit (see Section 5.8.3) watershed.

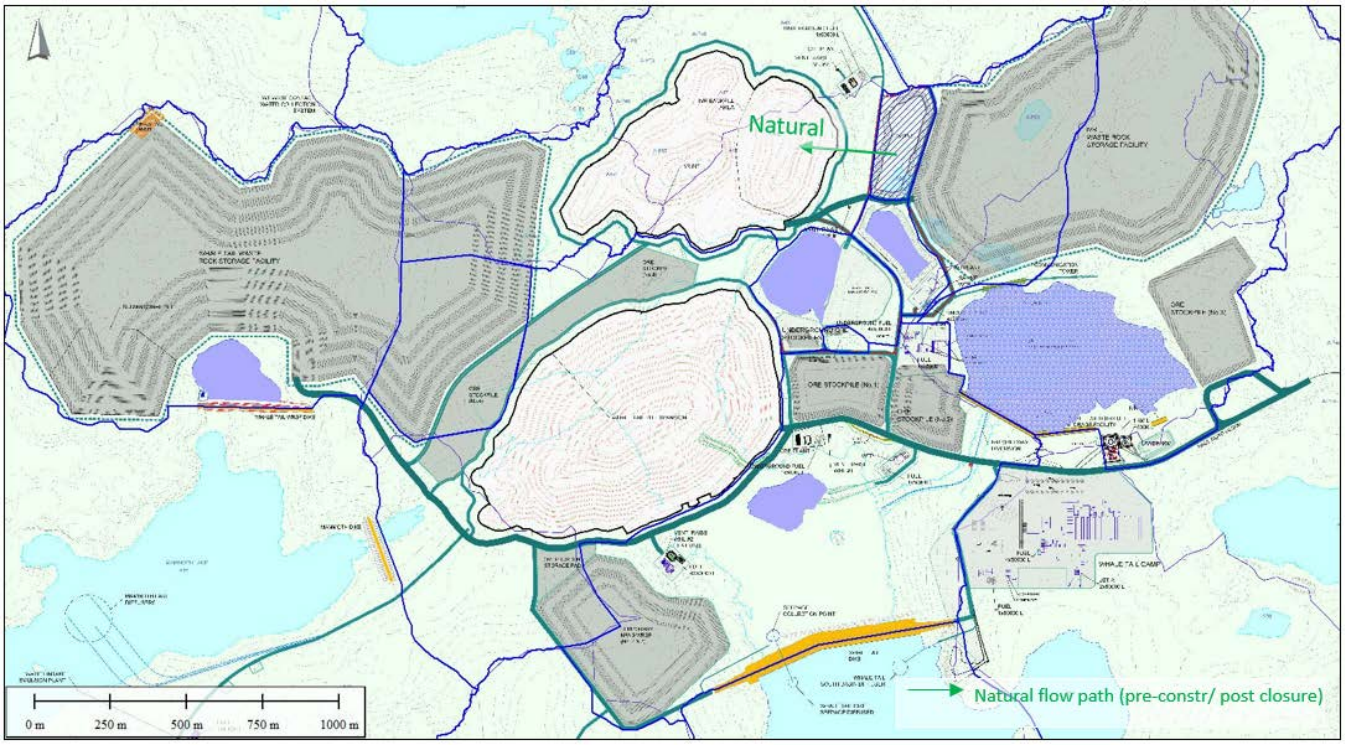

Figure 27: GSP-3 Catchment Overview

5.3 Underground Mine

5.3.1 Catchment Characteristics and Water Management

The catchment of the Underground Mine is located just northeast of, and drains naturally to, Whale Tail Lake. It includes the area south of GSP-1. Make-up water for the mine is supplied by GSP-1 (i.e., primary source), or by Lake C38 (Nemo Lake) (i.e., secondary source). Excess water volumes in the mine are managed through the Underground Mine Stope and GSP-1 (Section 5.2.1) for high salinity water, and through GSP-2 (Section 5.2.1.3) for low salinity water. If necessary, excess water volumes may also be managed in GSP-3 (Section 31).

At closure, the mine is partially backfilled by cemented rock fill and the remaining volume is flooded by water drawn down from the GSPs, the IVR Attenuation Pond, and Whale Tail Lake (South Basin). Once refilled, its water surface elevation is expected to remain below ground elevation at a maximum elevation of 152.5 masl (i.e., the baseline elevation of Whale Tail Lake) or less, depending on the groundwater regimes.

An overview of the catchment, along with its flow pathways, is provided in Figure 28.

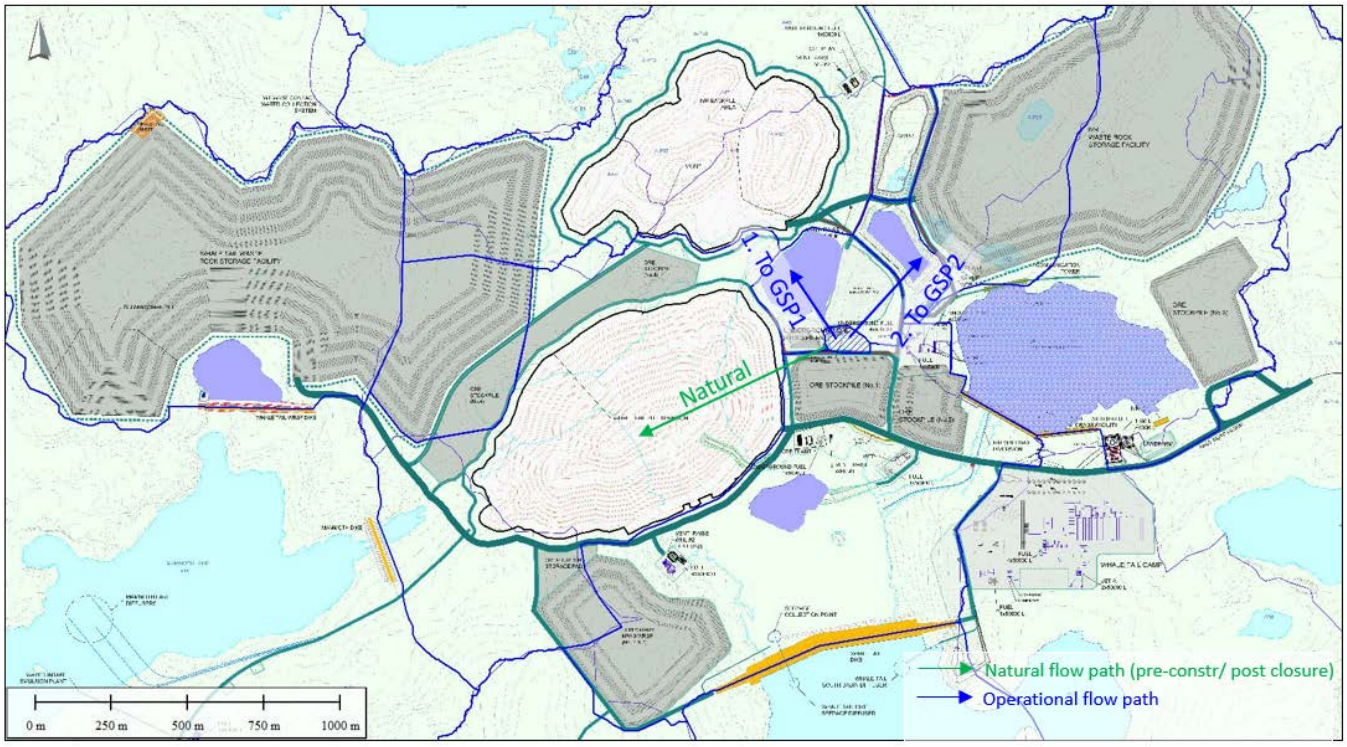

Figure 28: Underground Mine Catchment Overview

Storage characteristics are summarized in Table 13, and elevation-storage-area relationships are provided in Appendix C. Drainage areas of the underground are summarized in Figure 29.

The drainage area of Underground Mine remains constant at 0.011 km^2.

Table 13: Storage Characteristics (Underground Mine)

Snapshot	Drainage Area (km^2)	Operating Level		Capacity	
		Water Surface Elevation (masl)	Storage (m^3)	Water Surface Elevation (masl)	Storage (m^3)
Baseline to Post-Closure	0.011	-501.10 to 149.00	10,000	149.00	1,268,546*

Note: * Accounts for backfilled volume and is representative of free water volume.

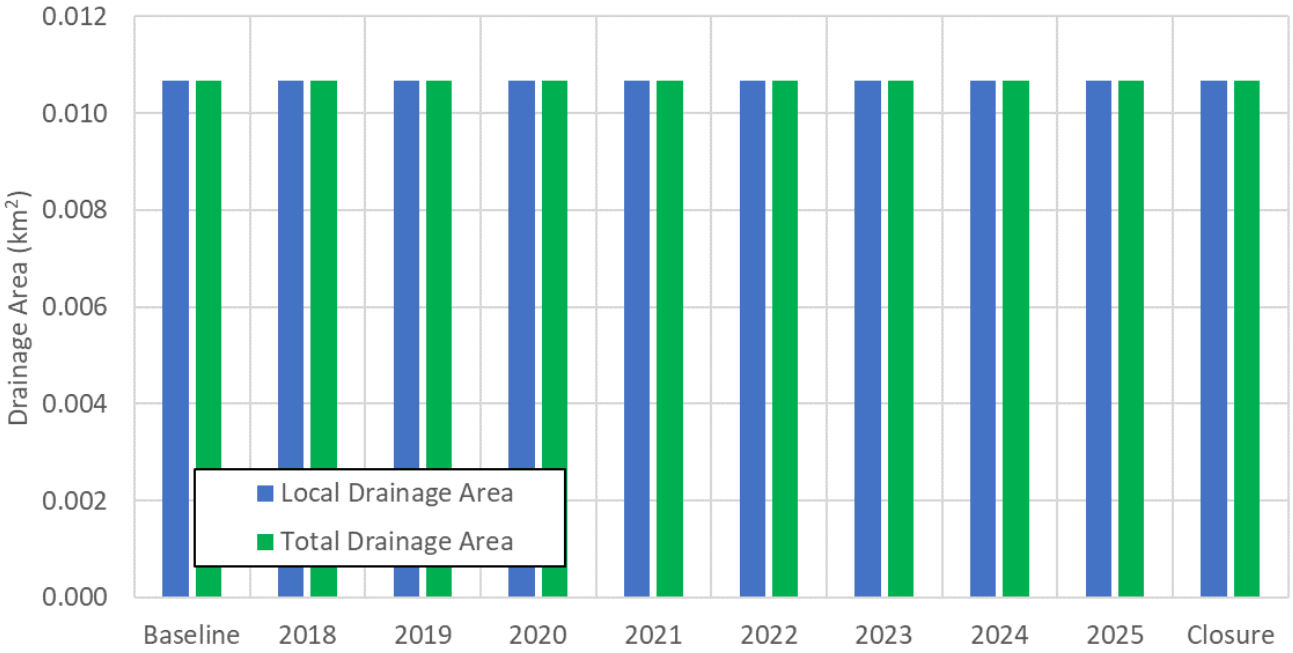

Figure 29: Drainage Area Progression through the Project (Underground Mine)

5.3.2 Water Balance

Inflows and outflows are summarized in Table 14, and presented in tabular form in Appendix F.

Table 14: Water Balance Flow Components (Underground Mine)

Figure	Flow Component	Flow Type	Start	End	Note / Comment
INFLOWS					
■ Figure 30 (Construction / Operations) ■ Figure 31 (Closure)	■ Watershed runoff	■ Natural drainage	■ 2018	■ Post-Closure	■ Annual runoff volumes are expected to be constant.
	■ Make-up water from Nemo Lake	■ Pump / pipeline	■ 2018	■ 2018	■ Make-up water when the elevation of the Underground Mine is shallower than -275 masl. ■ Above this elevation, drilling fluid will be brined to facilitate operations within the permafrost. ■ Source of make-up water until GSP-1 is available to supply make-up water.
	■ Make-up water from GSP-1	■ Pump / pipeline	■ 2018	■ 2021 Level > -275 masl	■ Make-up water when the elevation of the Underground Mine is shallower than -275 masl. ■ Above this elevation, drilling fluid will be brined to facilitate operations within the permafrost.
	■ Recirculation of consumptive flows	■ Pump / pipeline	■ 2018	■ Closure	■ Recirculation is assumed to be 100%. ■ Consumption is expected to be consistent with the extraction rate of waste rock.
	■ Groundwater	■ Natural drainage	■ 2020	■ Post-Closure	■ Groundwater inflows are expected by January 2020. ■ Groundwater volumes are expected to increase in 2022, and in 2023, as the mine progresses below the permafrost. ■ Groundwater volumes are expected to decrease slightly in 2025, and further decrease as the mine is refilled.
	■ Drawdown of Whale Tail Lake (South Basin)	■ Pump / pipeline	■ Closure	■ Closure	■ Drawdown of Whale Tail Lake (South Basin) from 156.0 masl to 152.5 masl to expedite refilling of the Underground Mine, initiated in May 2026. ■ The Underground Mine is expected to be refilled by May 2026.
	■ Drawdown of the IVR Attenuation Pond, GSP-1 and GSP-2	■ Pump / pipeline	■ Closure	■ Closure	■ Drawdown of the IVR Attenuation Pond, GSP-1 and GSP-2 to expedite refilling of the Underground Mine, initiated in January 2026. ■ The Underground Mine is expected to be refilled by May 2026.
OUTFLOWS					
■ Figure 32 (Construction / Operations) ■ Figure 33 (Closure)	■ Recirculation of consumptive flows	■ Pump / pipeline	■ 2018	■ Post-Closure	■ Recirculation is assumed to be 100%. ■ Consumption is expected to be consistent with the extraction rate of waste rock.
	■ Discharge to the Underground Mine Stope	■ Pump / pipeline	■ 2018	■ 2020	■ Volumes exceeding the capacity of the Underground Mine sump are managed through the Underground Mine Stope. ■ The Underground Mine Stope is expected to be full by April 2020.
	■ Water content in waste rock	■ n/a	■ 2018	■ 2025	■ Volumes are expected to be consistent with the extraction rate of waste rock. ■ Water content of waste rock to surface was assumed to be 3% by weight.
	■ Discharge to GSP-1	■ Pump / pipeline	■ 2018	■ Closure	■ Overflow from the Underground Mine sump discharged to GSP-1 is expected by April 2020 (once the Stope is full). Ongoing until May 2022 when salinity is appropriate to be managed through GSP-2.
	■ Discharge to GSP-2	■ Pump / pipeline	■ 2022	■ Closure	■ Overflow of low salinity water from the Underground Mine Sump when the elevation of development is deeper than -275 masl (May 2022). ■ Water volumes are expected to be consistent with groundwater inflows to the Underground Mine.
	■ Groundwater	■ Natural drainage	■ Closure	■ Post-Closure	■ Annual losses to groundwater are expected to be constant (approximately 2,200 m^3/year) once the Underground Mine is refilled.

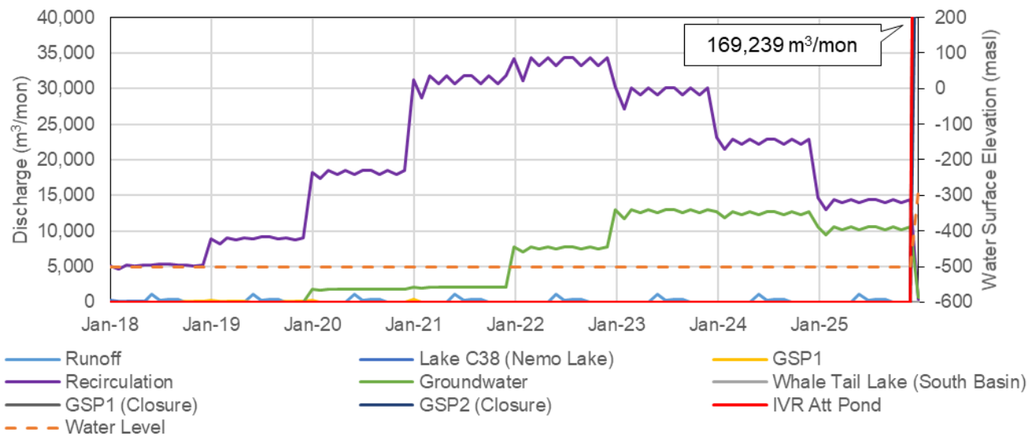

Figure 30: Inflows to Underground Mine (Construction and Operations)

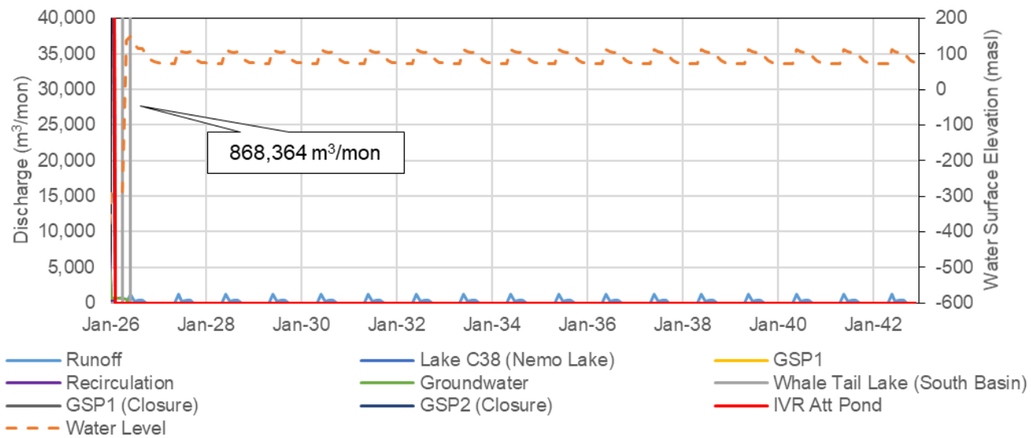

Figure 31: Inflows to Underground Mine (Closure)

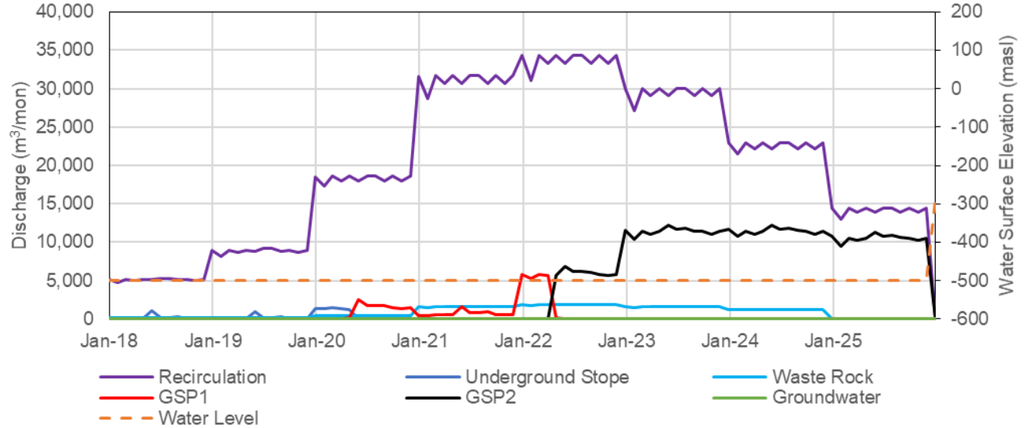

Figure 32: Outflows from Underground Mine (Construction and Operations)

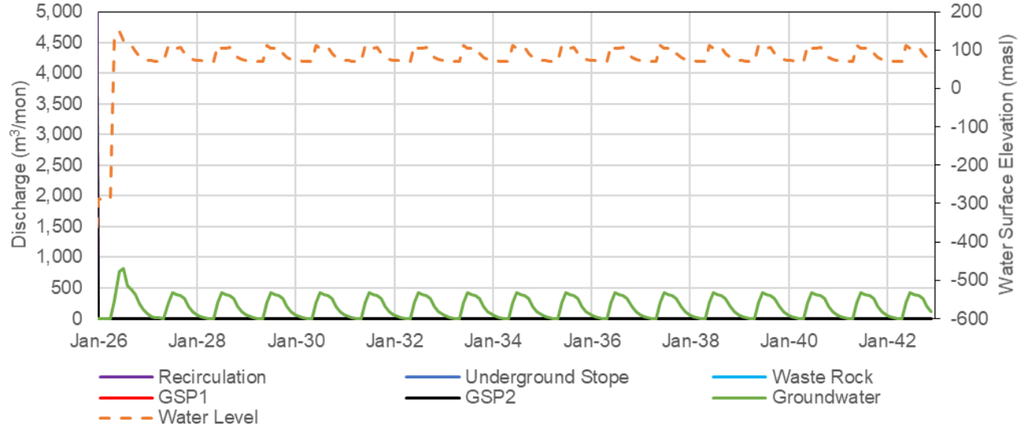

Figure 33: Outflows from Underground Mine (Closure)

5.3.3 Changes from the FEIS Addendum

The change in Underground Mine flows is due to the changes in groundwater as described in Section 4.0. The impact of these changes results in a slight decrease (approximately 5%) in cumulative inflows to the Underground Mine in operations (2,546,700 m^3 vs. 2,675,400 m^3). This trend continues through closure. The cumulative inflows to the Underground Mine by the end of 2042 are approximately 3% lower than for the FEIS case (3,852,800 m^3 vs 3,983,250 m^3) (Figure 34).

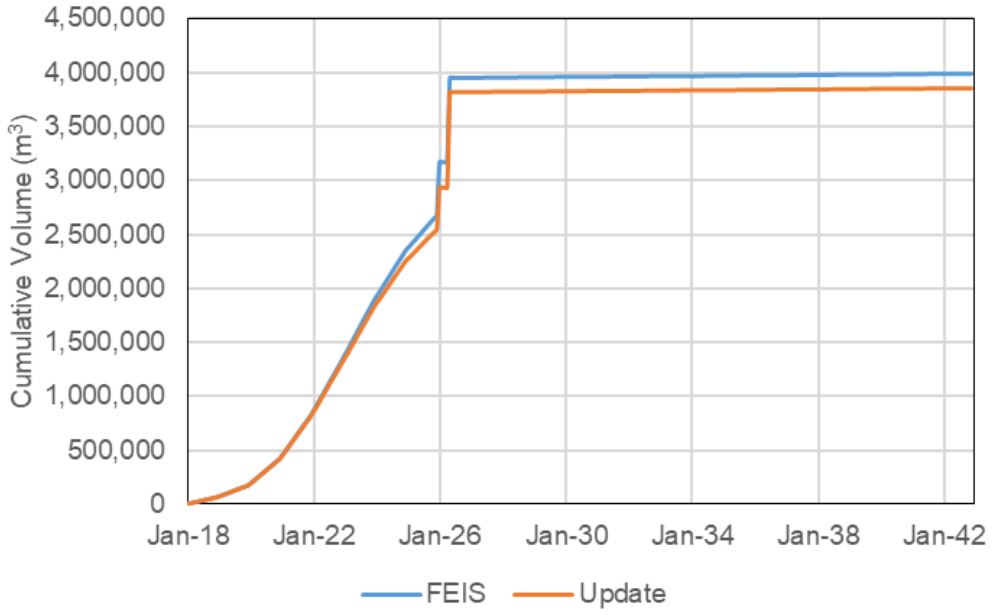

Figure 34: Comparison of Cumulative Inflows to the Underground under the FEIS Addendum and the Current Water Balances

5.4 Northeast Sector

5.4.1 Catchment Characteristics and Water Management

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 diverted to Lake A16 (Mammoth Lake) via the O-WTP from June 2019 to July 2020, prior to the initiation of the IVR Pit. Although dewatering of the lakes in the Northeast Sector (A46, A47, A49) was not included in the water balance, the dewatering volume required (138,000 m^3) is less than 40% of the annual runoff from the Northeast sector watershed. This additional volume is within the capacity of the O-WTP. Once the IVR Pit is initiated, the Northeast Sector is reduced to the catchment upstream of the IVR Diversion and diverted to Lake C38 (Nemo Lake) until closure. At closure, the IVR Diversion is decommissioned thereby re-establishing drainage patterns towards Whale Tail Lake (North Basin) via the IVR Pit during refilling.

Overviews of the catchment prior to and following the initiation of the IVR Pit, along with their drainage pathways, are provided in Figure 35 and Figure 36.

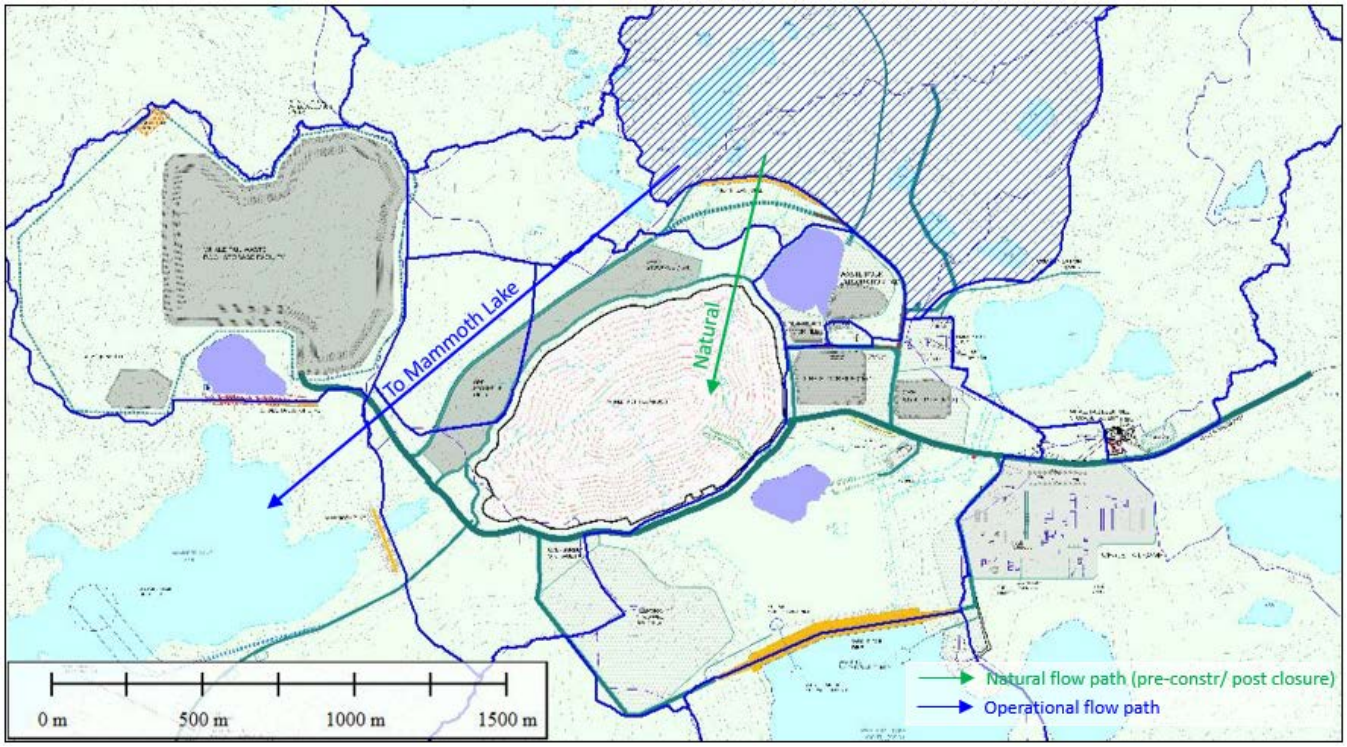

Figure 35: Northeast Sector Catchment Overview Prior to IVR Pit Initiation

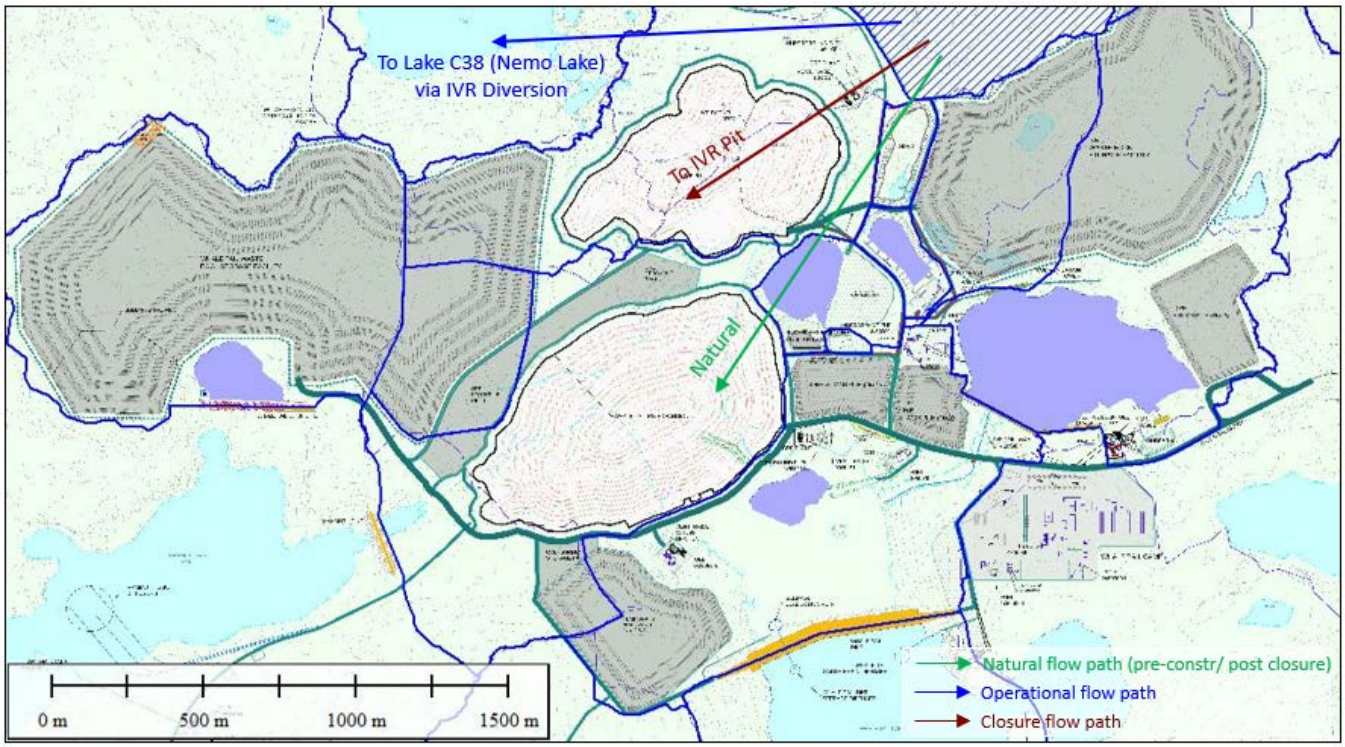

Figure 36: Northeast Sector Catchment Overview Following IVR Pit Initiation

Storage characteristics are summarized in Table 15. Drainage areas of the Northeast Sector are summarized in Figure 37.

The Northeast Sector has a drainage area of 1.91 km^2 until the IVR Pit is initiated in July 2020. It is then reduced to the drainage area of the IVR Diversion, to 0.684 km^2.

Table 15: Storage Characteristics (Northeast Sector)

Snapshot	Drainage Area (km^2)	Operating Level		Capacity	
		Water Surface Elevation (masl)	Storage (m^3)	Water Surface Elevation (masl)	Storage (m^3)
Baseline to July 2020	1.91	n/a	0	n/a	0
July 2020 to Post-Closure	0.684	n/a	0	n/a	0

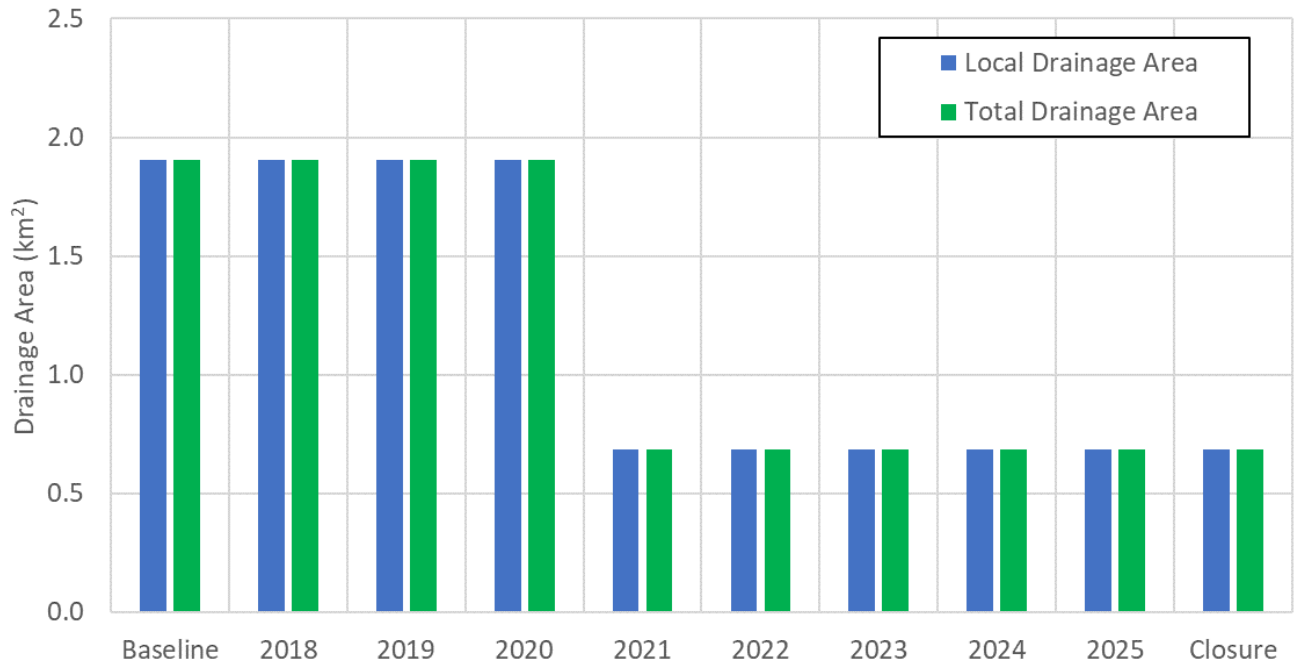

Figure 37: Drainage Area Progression through the Project (Northeast Sector)

5.4.2 Water Balance

Inflows and outflows are summarized in Table 16, and presented in tabular form in Appendix F.

Table 16: Water Balance Flow Components (Northeast Sector)

Figure	Flow Component	Flow Type	Start	End	Note / Comment
INFLOWS					
■ Figure 38 (Construction / Operations) ■ Figure 39 (Closure)	■ Runoff from Lake A49	■ Natural drainage	■ 2018	■ July 2020	■ The Lake A49 sub-watershed becomes part of the IVR Pit watershed once the IVR Pit is initiated in July 2020 and is no longer part of the Northeast Sector.
	■ Runoff from natural areas	■ Natural drainage	■ 2018	■ Post-Closure	■ Runoff volumes are expected to be proportional to the catchment area of the Northeast Sector. The catchment area of the Northeast Sector decreases once the IVR Pit is initiated in July 2020.
OUTFLOWS					
■ Figure 40 (Construction / Operations) ■ Figure 41 (Closure)	■ Evaporation	■ n/a	■ 2018	■ July 2020	■ Evaporative losses are expected to be proportional to the collective waterbody areas of the Northeast Sector. There are no waterbodies in the Northeast Sector once the IVR Pit is initiated in July 2020.
	■ Runoff to Whale Tail Lake (North Basin)	■ Natural drainage	■ 2018	■ 2019	■ Natural runoff to Whale Tail Lake (North Basin) until the Whale Tail Dike is operational.
	■ Runoff diversion to Lake A16 (Mammoth Lake)	■ Pump / Pipeline	■ 2019	■ July 2020	■ Runoff diversion to Lake A16 (Mammoth Lake) via the O-WTP once the Whale Tail Dike is operational until the IVR Pit is initiated.
	■ Runoff diversion to Lake C38 (Nemo Lake)	■ Channel	■ July 2020	■ Closure	■ Runoff diversion to Lake C38 (Nemo Lake) following the initiation of the IVR Pit once the IVR Diversion is operational and prior to Closure.
	■ Runoff to Whale Tail Lake (North Basin) via the IVR Pit	■ Natural drainage	■ Closure	■ Post-Closure	■ The IVR Diversion is decommissioned at Closure, and natural drainage patterns towards Whale Tail Lake (North Basin) are re-established.

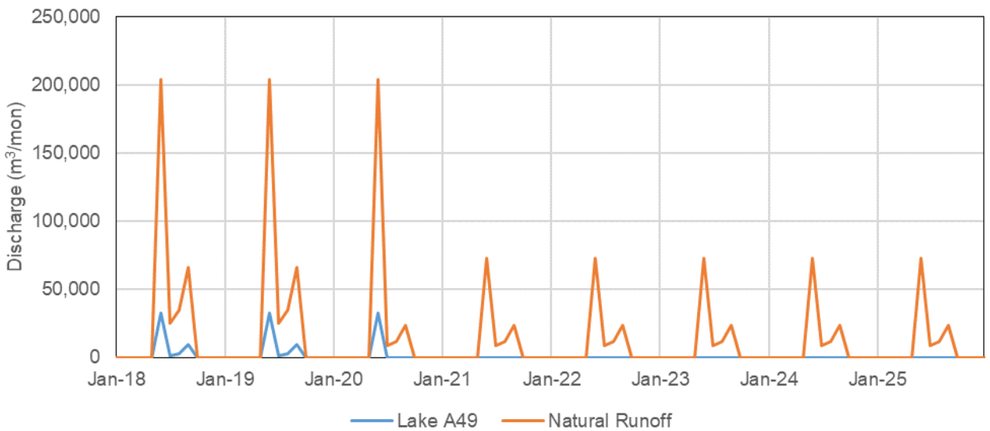

Figure 38: Inflows to the Northeast Sector (Construction and Operations)

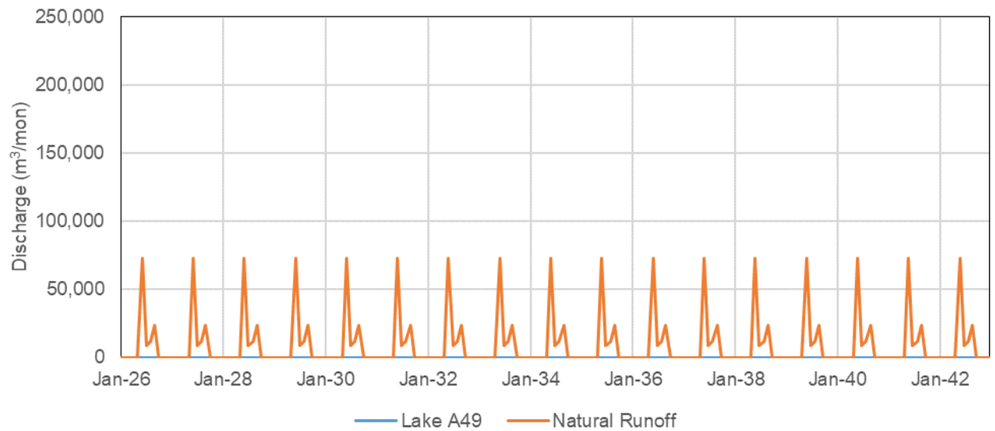

Figure 39: Inflows to the Northeast Sector (Closure)

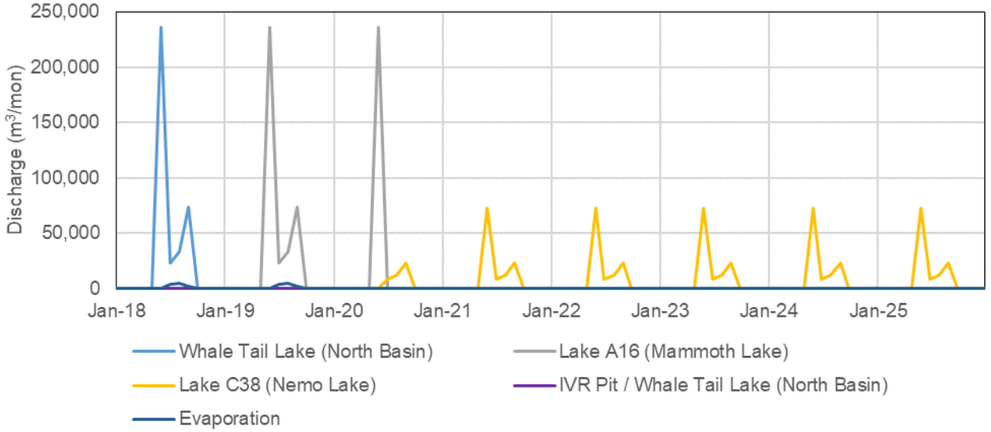

Figure 40: Outflows from the Northeast Sector (Construction and Operations)

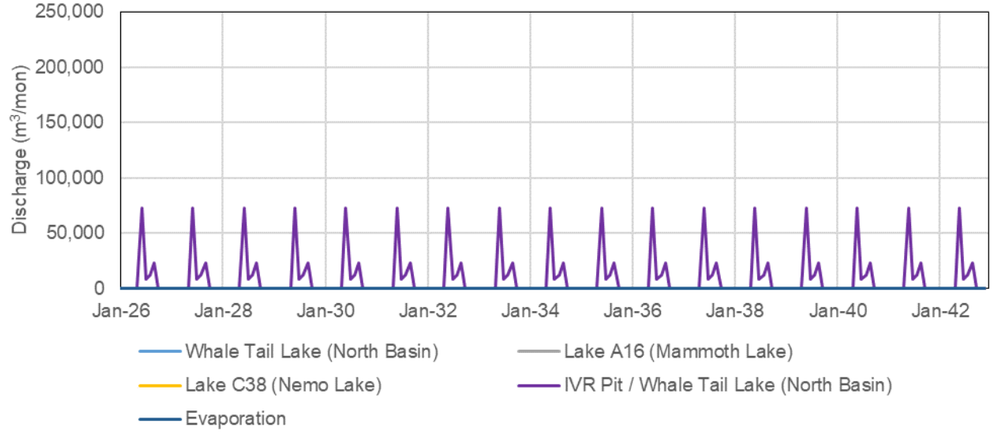

Figure 41: Outflows from the Northeast Sector (Closure)

5.4.3 Changes from the FEIS Addendum

The updated drainage area delineation results in a slightly larger drainage area prior to the initiation of the IVR Pit (1.91 km^2 vs 1.88 km^2 previously). Once the IVR diversion is in place, the drainage area increases slightly from 0.643 km^2 to 0.684 km^2. As a result, there is a cumulative increase of a 37,800 m^3 (996,950 m^3 vs. 959,150 m^3 previously) by the time the IVR Pit is initiated (a 4% increase). By the end of operations, the cumulative increase is 75,150 m^3 (1,646,700 m^3 vs. 1,541,550 m^3 previously) - approximately 5% higher (Figure 42).

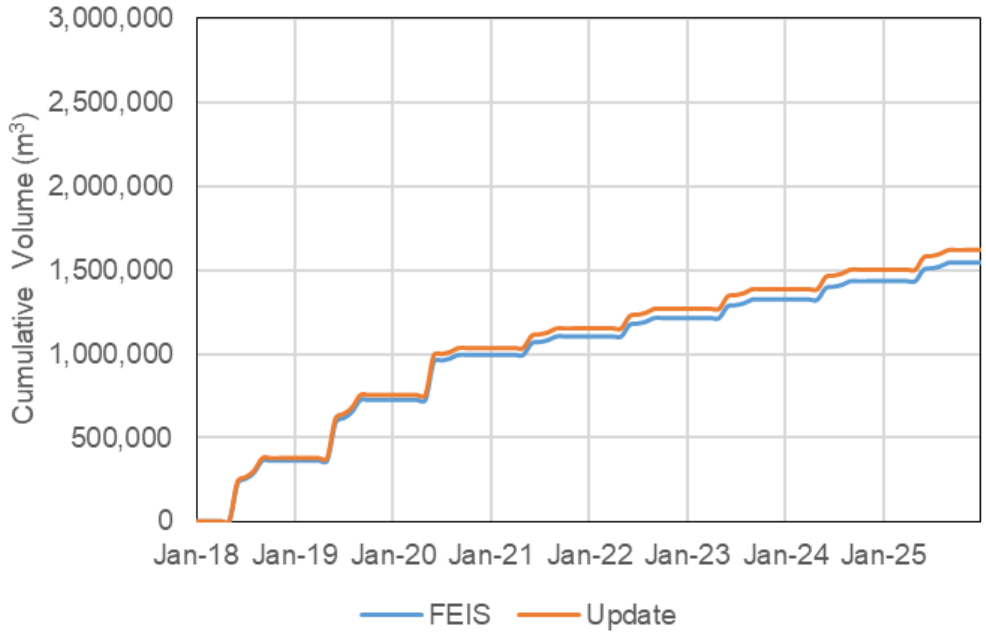

Figure 42: Comparison of Cumulative Inflows to the Northeast Sector under the FEIS Addendum and the Current Water Balances

5.5 Whale Tail Waste Rock Storage Facility Contact Water Collection System

5.5.1 Catchment Characteristics and Water Management

The catchment of the Whale Tail WRSF Contact Water Collection System is located in the northern headwaters of the Lake A16 (Mammoth Lake) catchment. Its runoff drained naturally to Lake A16 (Mammoth Lake) until Licence A was received (approved in July 2018). At this point, runoff is collected in a temporary sump and diverted to Quarry 1 until the Whale Tail Attenuation Pond becomes operational in 2019 (once the Whale Tail WRSF Dike is completed at the end of 2018). Runoff from the Whale Tail WRSF and catchment area is then collected in the Whale Tail WRSF Contact Water Collection System and discharged to the Whale Tail Attenuation Pond in 2019. Once the IVR Attenuation Pond becomes operational in 2022, flows are discharged to the IVR Attenuation Pond until closure. At closure, runoff is then pumped to the IVR Pit to expedite refilling of the pit and Whale Tail Lake (North Basin). Natural drainage patterns are re-established at Post-Closure if water quality criteria are met (i.e., the assumed scenario in this water balance). Alternatively, collected runoff could be conveyed to Whale Tail Lake (North Basin).

An overview of the Whale Tail WRSF catchment, along with its drainage pathways, is provided in Figure 43.

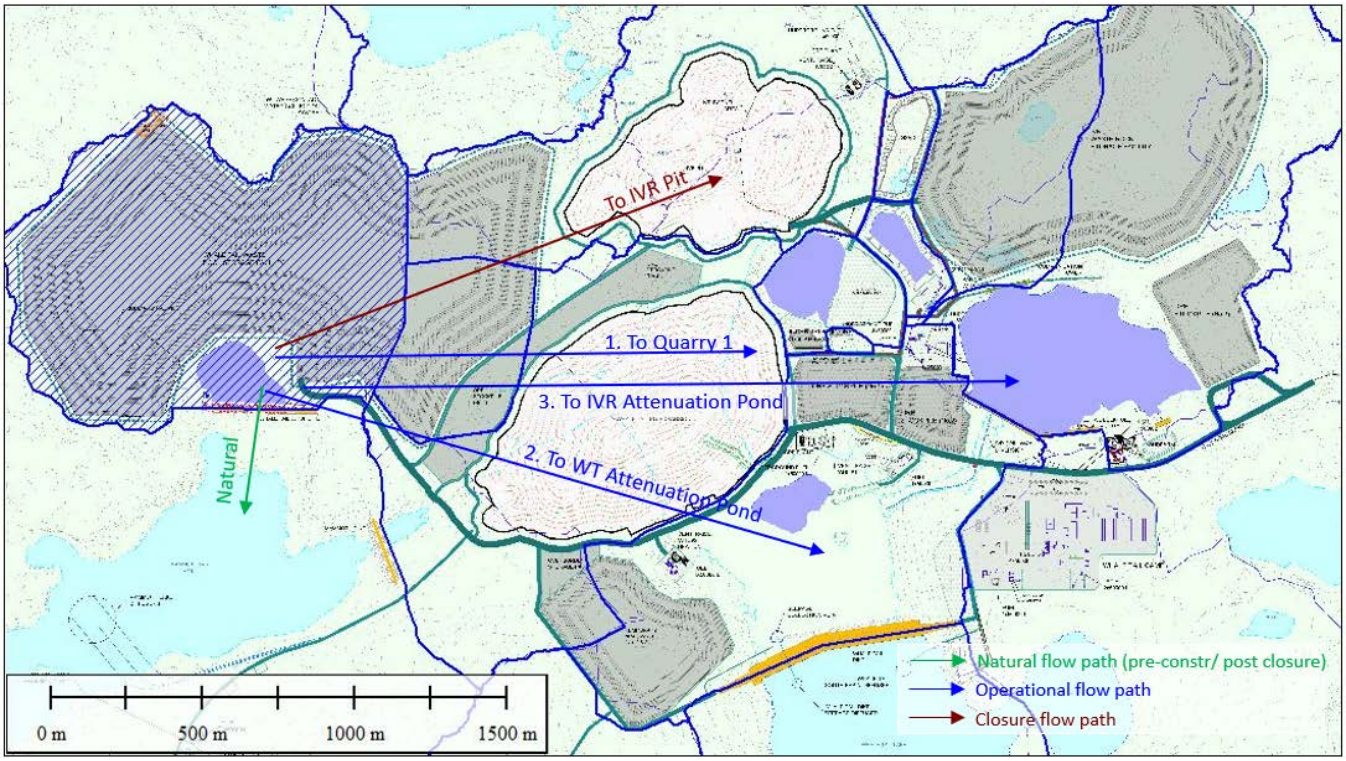

Figure 43: Whale Tail Waste Rock Storage Facility Contact Water Collection System Catchment Overview

Storage characteristics are summarized in Table 17 and elevation-storage-area relationships are presented in Appendix D. Drainage areas of the Northeast Sector are summarized in Figure 44.

The Whale Tail WRSF has a drainage area of 1.09 km^2. The storage capacity of the Whale Tail WRSF Contact Water Collection System once the WRSF Dike is constructed is shown in Table 17.

Table 17: Storage Characteristics (Whale Tail WRSF Contact Water Collection System)

Snapshot	Drainage Area (km^2)	Operating Level		Capacity	
		Water Surface Elevation (masl)	Storage (m^3)	Water Surface Elevation (masl)	Storage (m^3)
Baseline to October 2018	1.09	n/a	n/a	n/a	n/a
October 2018 to Post-Closure	1.09	154.0 to 157.8	0 to 195,500	158.4	240,900

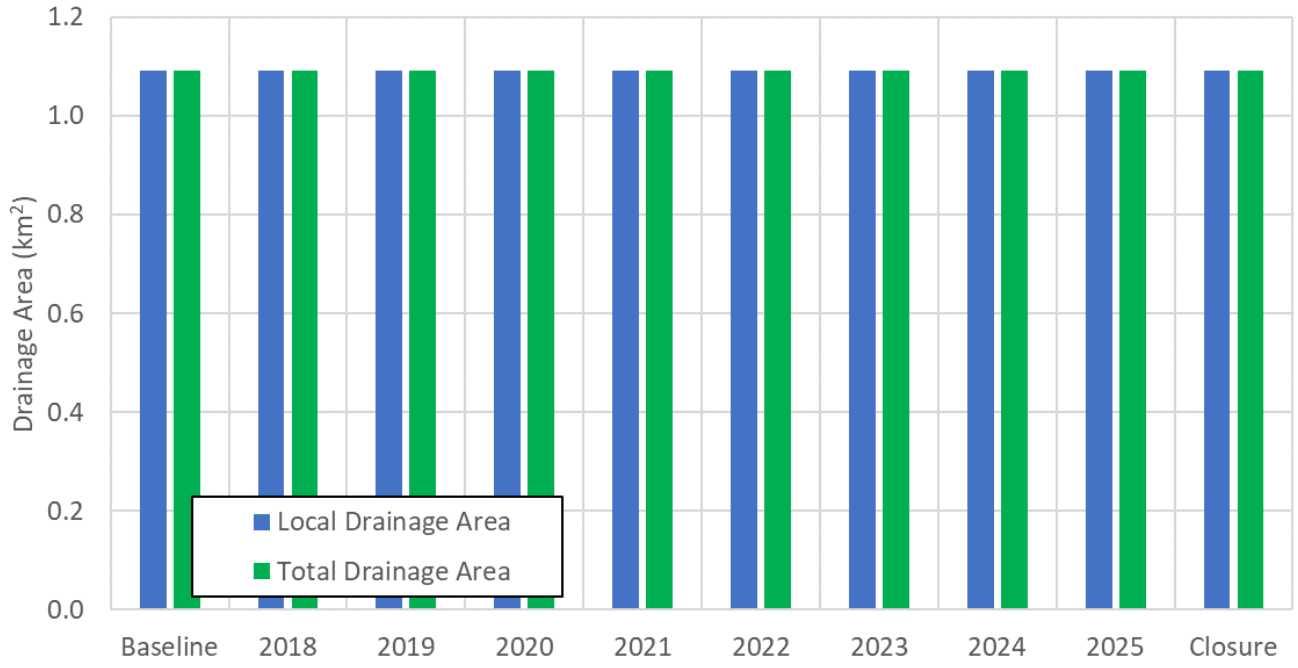

Figure 44: Drainage Area Progression through the Project (Whale Tail WRSF Contact Water Collection System)

5.5.2 Water Balance

Inflows and outflows are summarized in Table 18, and presented in tabular form in Appendix F.

Table 18: Water Balance Flow Components (Whale Tail WRSF Contact Water Collection System)

Figure	Flow Component	Flow Type	Start	End	Note / Comment
INFLOWS					
■ Figure 45 (Construction / Operations) ■ Figure 46 (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 (including submarginal waste rock)	■ 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 (including submarginal waste rock)	■ Natural drainage	■ Q3 2018	■ Post-Closure	■ Based on OKC modelling results, seepage from the WRSF is negligible (See Section 4.0).
OUTFLOWS					
■ Figure 47 (Construction / Operations) ■ Figure 48 (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 Lake A16 (Mammoth Lake)	■ Natural drainage	■ 2018 ■ Post-Closure	■ Q3 2018 ■ Post-Closure	■ Natural drainage to Lake A16 (Mammoth Lake) until Licence A is received. ■ Natural drainage to Lake A16 (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.
	■ Runoff discharged to Whale Tail Attenuation Pond	■ Pump / Pipeline	■ 2019	■ 2022	■ Runoff discharged to the Whale Tail Attenuation Pond once operational until the IVR Attenuation Pond becomes operational. ■ 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 IVR Attenuation Pond	■ Pump / Pipeline	■ 2022	■ Closure	■ Runoff discharged to the IVR Attenuation Pond once operational, until closure. ■ Annual runoff volumes are expected to be constant.
	■ Runoff discharged to Whale Tail Lake (North Basin) via IVR Pit	■ Pump / Pipeline	■ Closure	■ Post-Closure	■ Runoff discharged to Whale Tail Lake (North Basin) via IVR Pit to expedite refilling of the pit. ■ Runoff volumes are expected to increase from operations once freezing of the outer layer of the Whale Tail WRSF become more frequent at closure.

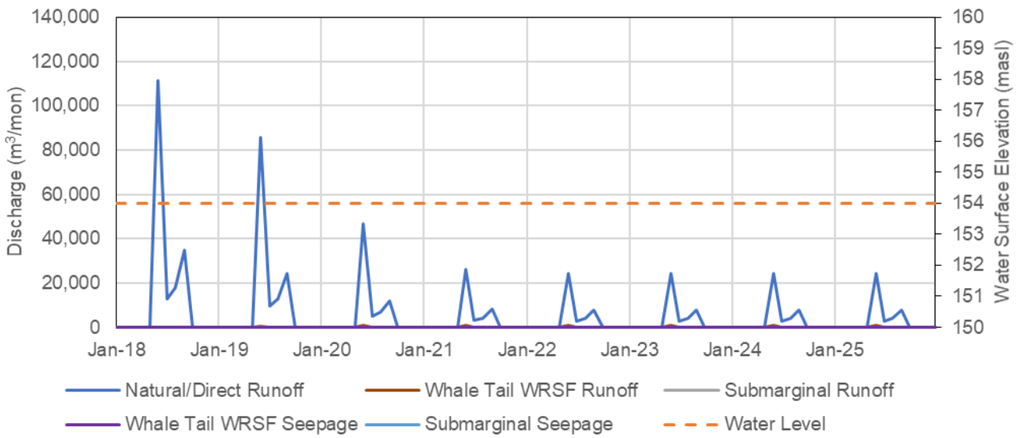

Figure 45: Inflows to the Whale Tail WRSF Contact Water Collection System (Construction and Operations)

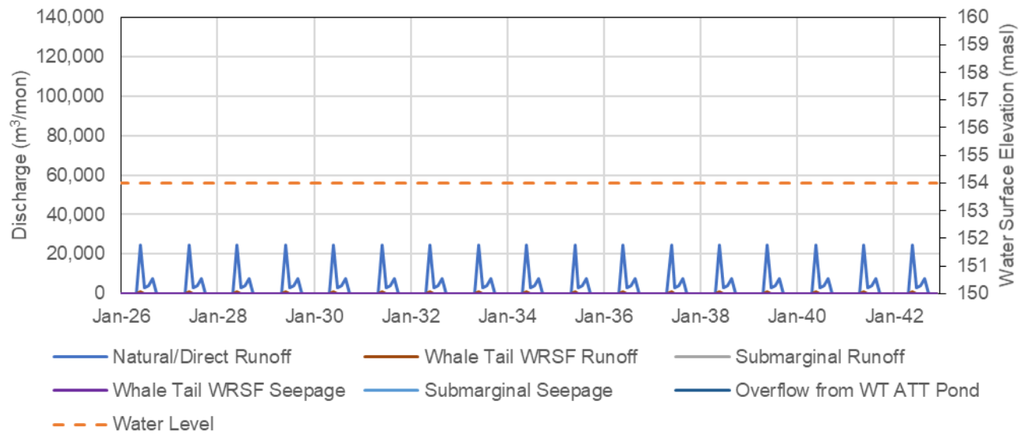

Figure 46: Inflows to the Whale Tail WRSF Contact Water Collection System (Closure)

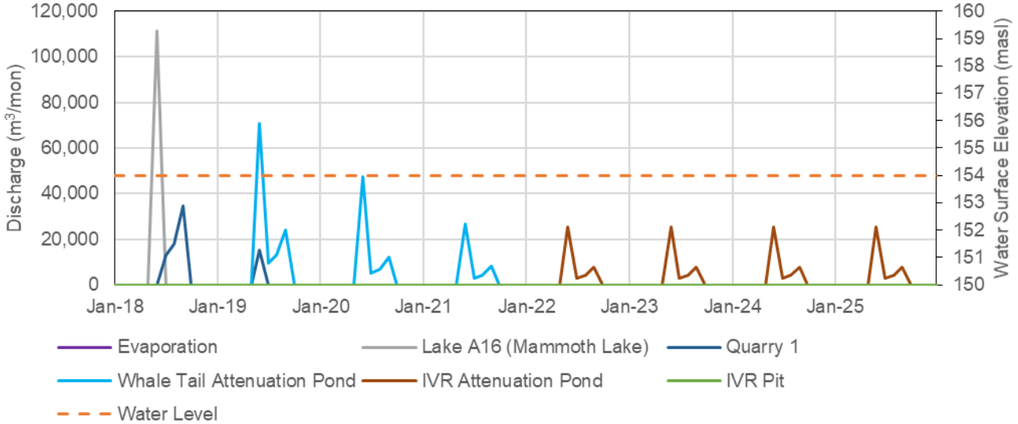

Figure 47: Outflows from the Whale Tail WRSF Contact Water Collection System (Construction and Operations)

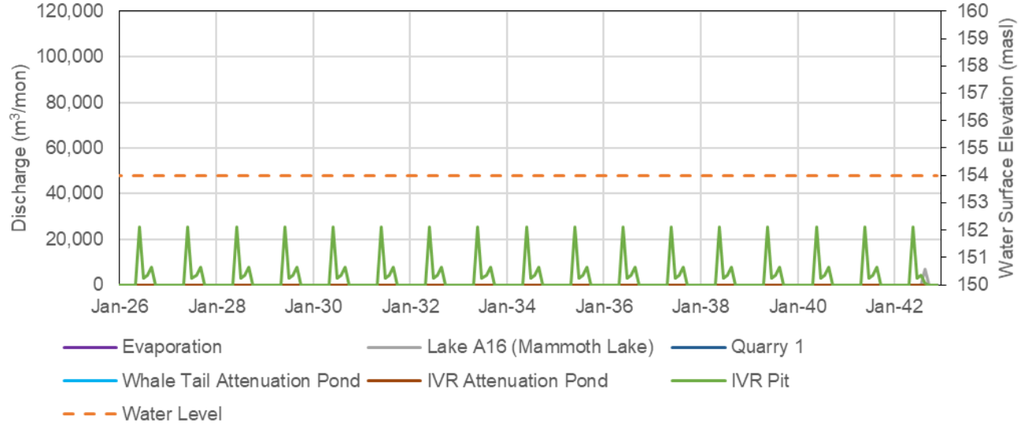

Figure 48: Outflows from the Whale Tail WRSF Contact Water Collection System (Closure)

5.5.3 Changes from the FEIS Addendum

The following changes are relevant to the Whale Tail WRSF water balance:

- The updated drainage area delineation results in a slightly smaller drainage area for the Whale Tail WRSF Contact Water Collection System (1.09 km^2 vs 1.10 km^2 previously).
- The primary difference in this update is the calculation of runoff and seepage from the WRSF. As explained in Section 4.0, the updated calculation method significantly reduces the generated runoff from the stockpile and sets the seepage to zero.

The impact of these changes results in a substantial decrease (approximately 45%) in cumulative inflows to the Whale Tail WRSF Contact Water Collection System during operations (583,800 m^3 vs. 1,061,800 m^3). By the time Whale Tail Lake (North Basin) reaches its ultimate water level elevation in 2042, the cumulative inflows are 67% lower than for the FEIS case (1,265,750 m^3 vs 3,827,700 m^3) (Figure 49).

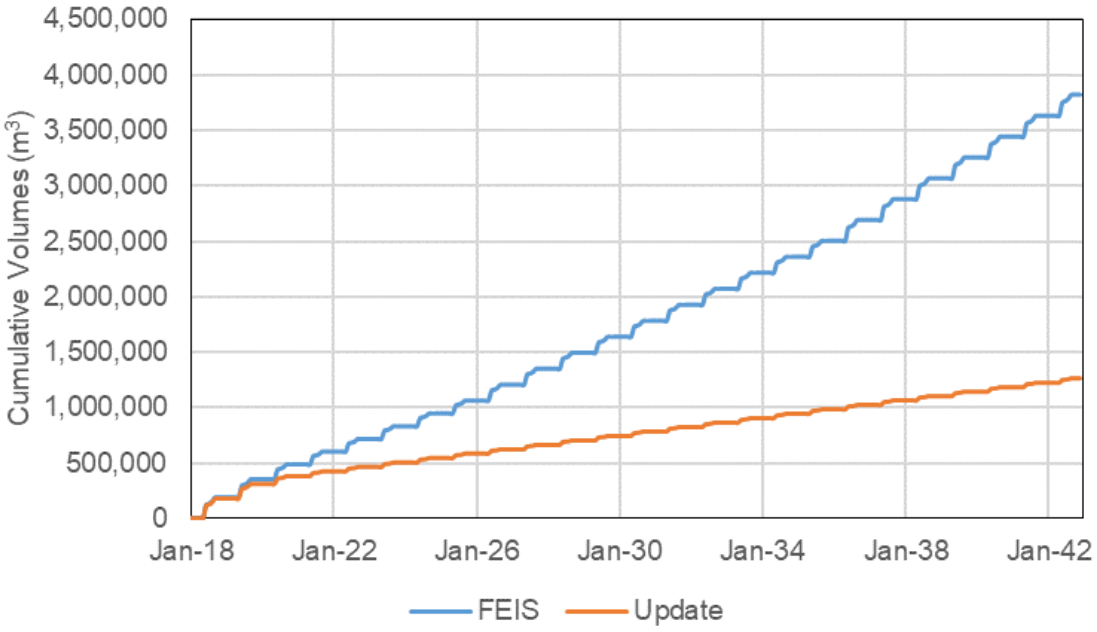

Figure 49: Comparison of Cumulative Inflows to the Whale Tail WRSF Contact Water Collection System under the FEIS Addendum and the Current Water Balances

5.6 North Sector

5.6.1 Catchment Characteristics and Water Management

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 in 2019, and is intended to collect and convey contact water draining from the portion of the Whale Tail WRSF encroaching on the Whale Tail Lake (North Basin) watershed starting in 2021, to the active attenuation pond (i.e., either the Whale Tail Attenuation Pond or the IVR 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.

An overview of the sector, along with its drainage pathways, is provided in Figure 50.

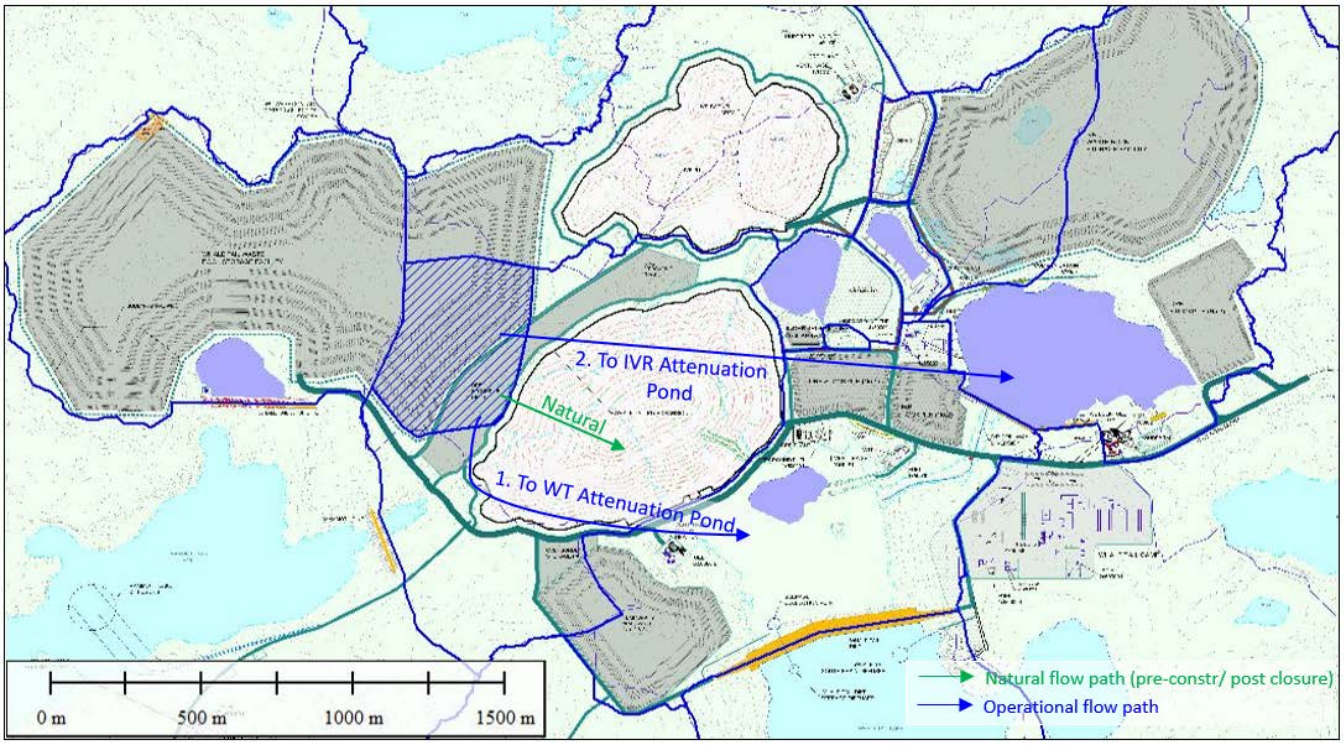

Figure 50: North Sector Catchment Overview

Storage characteristics are summarized in Table 19. Drainage areas of the North Sector are summarized in Figure 51.

The North Sector collection area has a drainage area of 0.243 km^2 and was assumed to have no storage in the water balance.

Table 19: Storage Characteristics (North Sector)

Snapshot	Drainage Area (km^2)	Operating Level		Capacity	
		Water Surface Elevation (masl)	Storage (m^3)	Water Surface Elevation (masl)	Storage (m^3)
Baseline to Closure	0.243	n/a	0	n/a	0

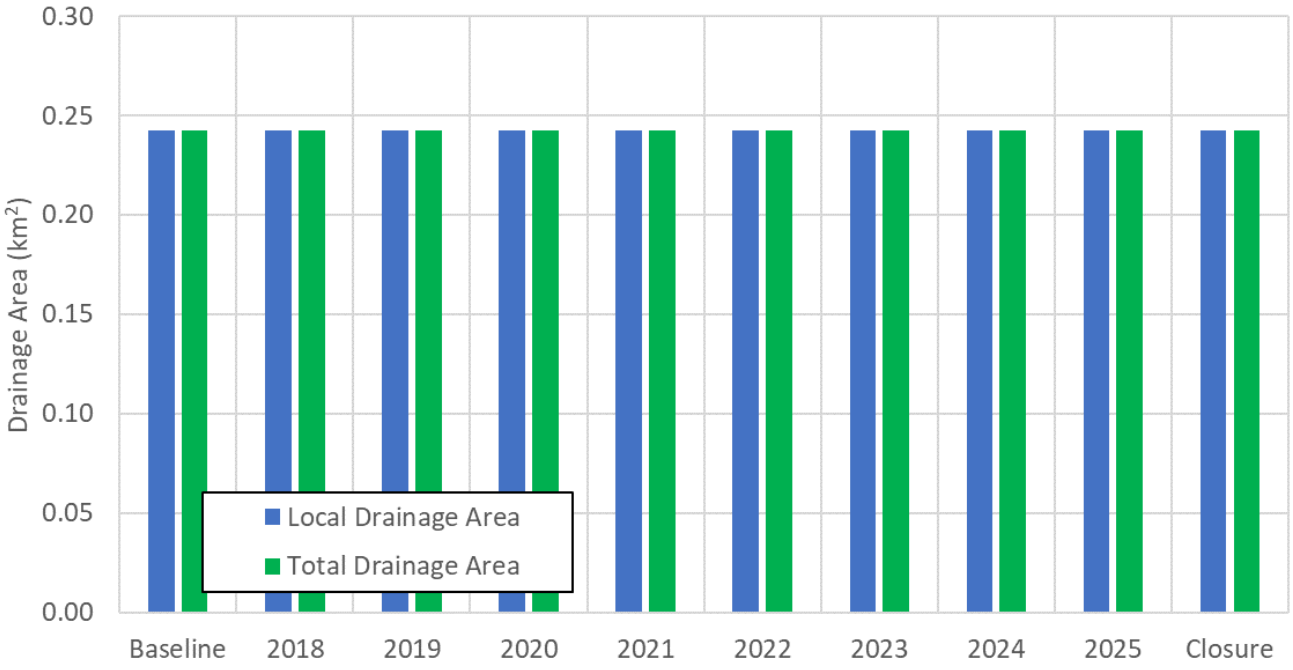

Figure 51: Drainage Area Progression through the Project (North Sector)

5.6.2 Water Balance

Inflows and outflows are summarized in Table 20, and presented in tabular form in Appendix F.

Table 20: Water Balance Flow Components (North Sector)

Figure	Flow Component	Flow Type	Start	End	Note / Comment
INFLOWS					
■ Figure 52 (Construction / Operations) ■ Figure 53 (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 encroaching on the North Sector / Sump watershed from 2021 until the end of operations.
	■ Runoff from the Whale Tail WRSF	■ Natural drainage	■ 2021	■ Post-Closure	■ Runoff volumes are expected to be proportional to the footprint of the Whale Tail WRSF encroaching on the North Sector / Sump watershed from 2021 until the end of operations.
	■ Seepage from the Whale Tail WRSF	■ Natural drainage	■ 2021	■ Post-Closure	■ Based on OKC modelling results, seepage from the WRSF is negligible (See Section 4.0).
OUTFLOWS					
■ Figure 54 (Construction / Operations) ■ Figure 55 (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 the IVR Attenuation Pond becomes available. ■ Runoff volumes are expected to decrease as the footprint of the Whale Tail WRSF in the North Sector catchment increases.
	■ Runoff diversion to the IVR Attenuation Pond	■ Pump / Pipeline	■ 2022	■ Closure	■ Runoff volumes are expected to be constant due to the constant footprint of the Whale Tail WRSF.
	■ Runoff to Whale Tail Pit / Lake (North Basin)	■ Natural drainage	■ Closure	■ Post-Closure	■ Runoff volumes remain the same as in closure based on the runoff assumptions described in Section 4.0

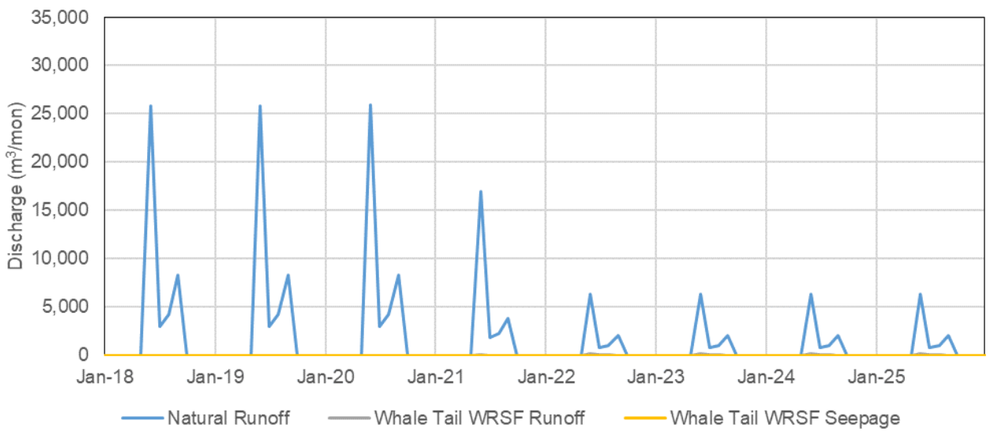

Figure 52: Inflows to the North Sector (Construction and Operations)

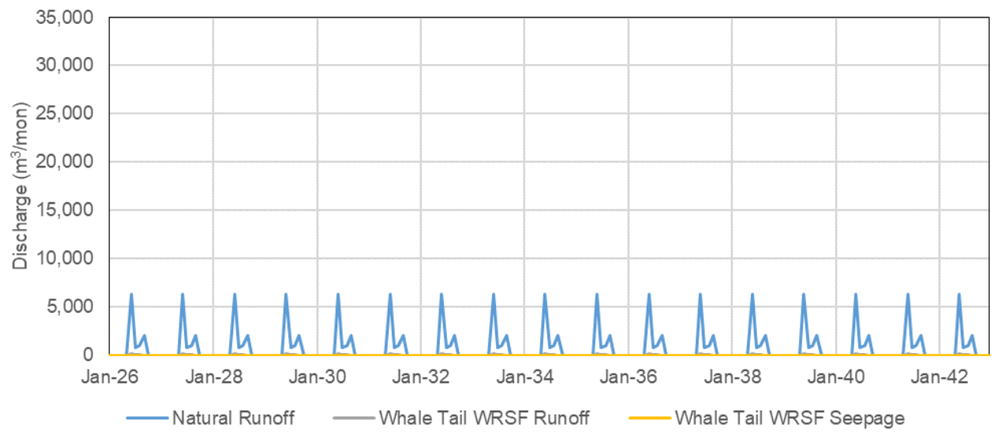

Figure 53: Inflows to the North Sector (Closure)

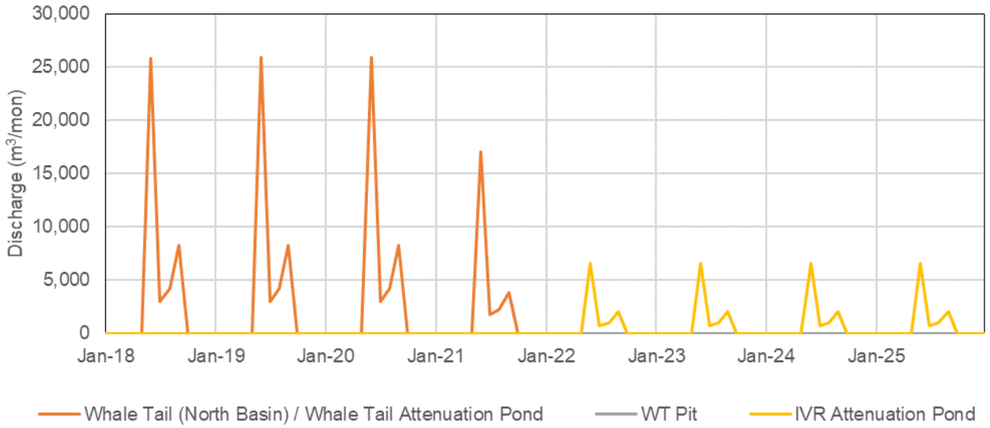

Figure 54: Outflows from the North Sector (Construction and Operations)

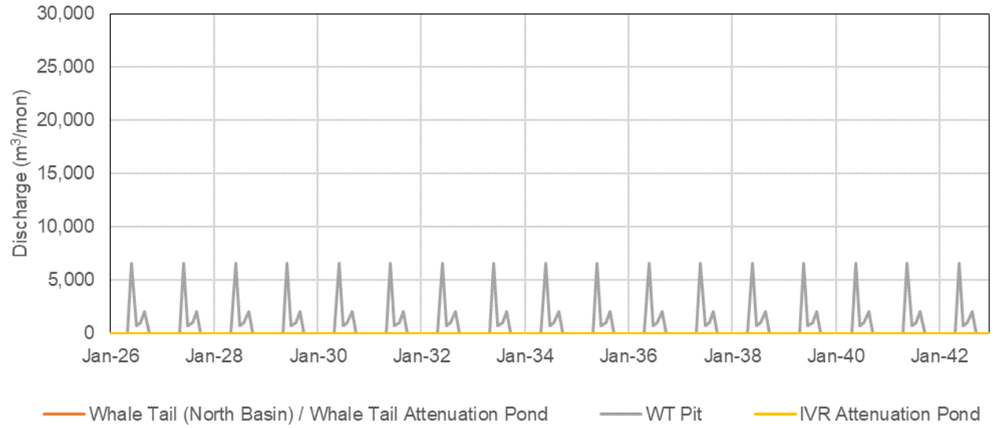

Figure 55: Outflows from the North Sector (Closure)

5.6.3 Changes from the FEIS Addendum

The following changes are relevant to the North Sector water balance:

- The updated drainage area delineation results in a smaller drainage area for the Whale Tail WRSF Contact Water Collection System (0.243 km^2 vs 0.289 km^2 previously).
- The primary difference in this update is the calculation of runoff and seepage from the WRSF. As explained in Section 4.0, the updated calculation method significantly reduces the generated runoff from the stockpile and sets the seepage to zero.

The impact of these changes results in a substantial decrease (approximately 38%) in cumulative inflows to the North Sump (191,050 m^3 vs. 308,000 m^3 previously). By 2042, the cumulative inflows are 67% lower than for the FEIS case (368,300 m^3 vs 1,111,650 m^3 previously) (Figure 56).

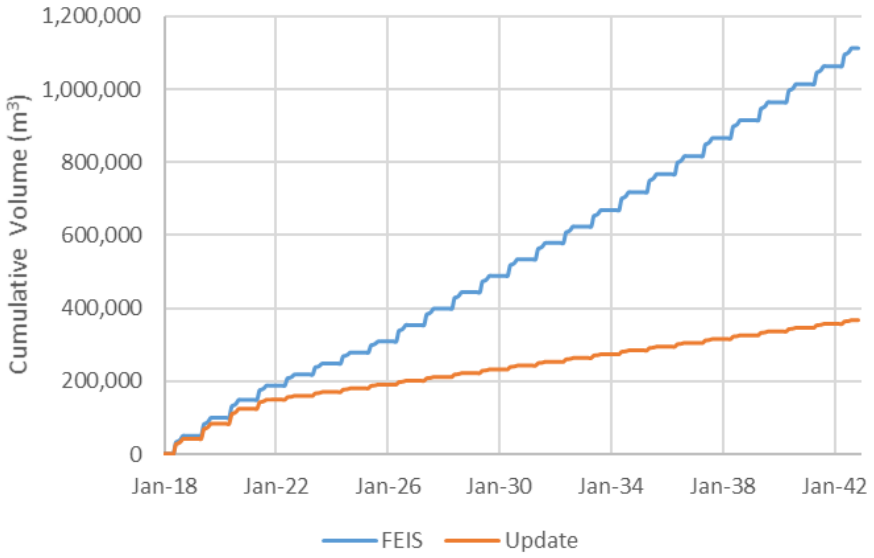

Figure 56: Comparison of Cumulative Inflows to the North Sector under the FEIS Addendum and the Current Water Balances

5.7 Whale Tail Pit

5.7.1 Catchment Characteristics and Water Management

The proposed Whale Tail Pit is located within the northern portion of Whale Tail Lake, just north of the Whale Tail Attenuation Pond. The Whale Tail Pit is initiated following the dewatering of Whale Tail Lake (North Basin) in 2019. Its operational runoff is conveyed to the active attenuation pond (i.e., either the Whale Tail Attenuation Pond or the IVR Attenuation Pond).

An overview of the catchment, along with its drainage pathways, is provided in Figure 57.

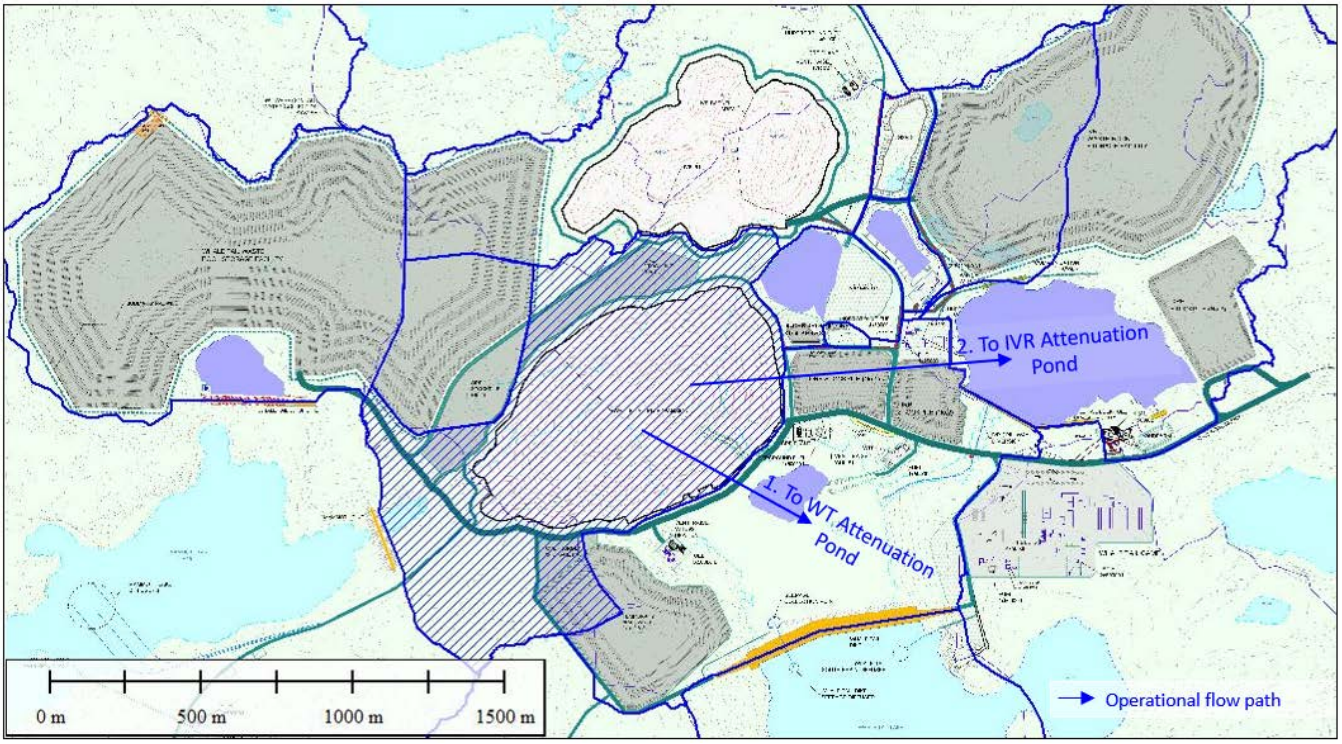

Figure 57: Whale Tail Pit Catchment Overview

Storage characteristics are summarized in Table 21. Drainage areas of the Whale Tail Pit are summarized in Figure 58.

The Whale Tail Pit catchment remains local with a drainage area of 1.17 km^2 until closure. At closure and following the refilling of IVR Pit (see Section 5.8.3), 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.

Table 21: Storage Characteristics (Whale Tail Pit)

Snapshot	Drainage Area (km^2)	Operating Level		Capacity	
		Water Surface Elevation (masl)	Storage (m^3)	Water Surface Elevation (masl)	Storage (m^3)
Baseline to Closure	1.17	-129 (2025) to 79 (2019)	0	146.3	54,907,880
Closure (> IVR Pit full) to Post-Closure	29.6	n/a	n/a	146.3	54,907,880

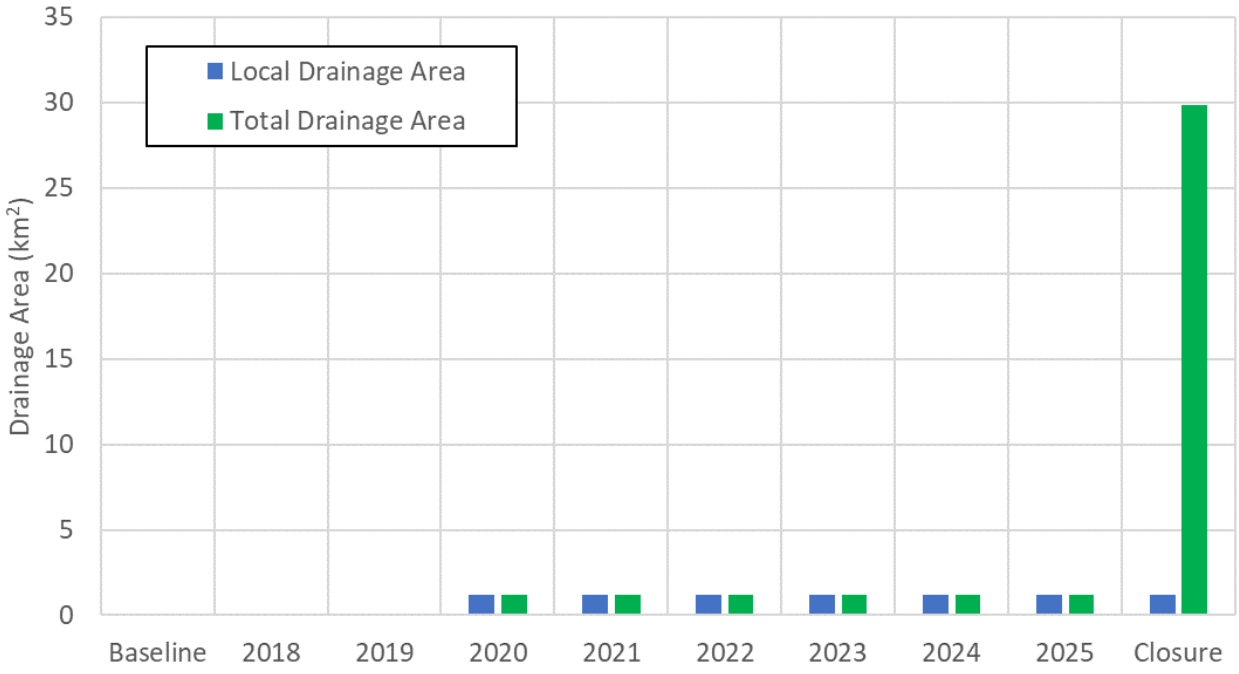

Figure 58: Drainage Area Progression through the Project (Whale Tail Pit)

5.7.2 Water Balance

Inflows and outflows are summarized in Table 22, and presented in tabular form in Appendix F. Whale Tail Pit is expected to be refilled to 146.3 masl by 2040.

Table 22: Water Balance Flow Components (Whale Tail Pit)

Figure	Flow Component	Flow Type	Start	End	Note / Comment
INFLOWS					
■ Figure 59 (Construction / Operations) ■ Figure 60 (Closure)	■ Catchment Runoff	■ Natural drainage	■ 2019	■ Post-Closure	■ Annual runoff volumes are expected to decrease slightly in 2022 with the encroachment of the NPAG WRSF into the Whale Tail Pit drainage area.
	■ Groundwater	■ Natural drainage	■ 2019	■ 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 (Golder, 2019b).
	■ Drilling Water	■ Pump / Pipeline	■ 2019	■ Closure	■ Drilling water from Lake C38 (Nemo Lake) during operations of the pit.
	■ Runoff from overburden storage	■ Natural drainage	■ 2019	■ Post-Closure	■ Annual runoff volumes are expected to be constant.
	■ Runoff from NPAG WRSF	■ Natural drainage	■ 2022	■ Post-Closure	■ Annual runoff volumes are expected to be constant.
	■ Runoff from GSP-1	■ Natural drainage	■ Closure	■ Post-Closure	■ Runoff from GSP-1 following its backfill at closure, re-establishing its natural drainage patterns. ■ 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 IVR WRSF	■ Diverted or Pumped	■ Closure	■ Post-Closure	■ Although the IVR WRSF drains naturally to the IVR Pit, its runoff is diverted to the Whale Tail Pit for water quality purposes (Golder 2019a).
	■ Overflow from IVR Pit	■ Natural drainage	■ IVR Pit full	■ Post-Closure	■ Overflow from the IVR Pit (water surface elevation of 149.3 masl) into Whale Tail Pit during closure. ■ Annual runoff volumes are expected to be constant.
	■ 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. ■ Annual runoff volumes are expected to be constant until these are influenced by net groundwater losses in 2035.
OUTFLOWS					
■ Figure 61 (Construction / Operations) ■ Figure 62 (Closure)	■ Drill water losses	■ n/a	■ 2019	■ Closure	■ Water locked within the ore
	■ Discharge to Whale Tail Attenuation Pond	■ Pump / Pipeline	■ 2019	■ 2022	■ Runoff is managed through the Whale Tail Attenuation Pond until the IVR Attenuation pond becomes operational. ■ Annual runoff volumes are expected to be approximately constant, with minor fluctuations from groundwater inflows.
	■ Evaporation	■ n/a	■ 2019	■ Post-Closure	■ Evaporative losses proportional to the water surface area of Whale Tail Pit.
	■ Discharge to IVR Attenuation Pond	■ Pump / Pipeline	■ 2022	■ Closure	■ Runoff is managed through the IVR Attenuation Pond once operational, until closure. ■ Annual runoff volumes are expected to be constant.

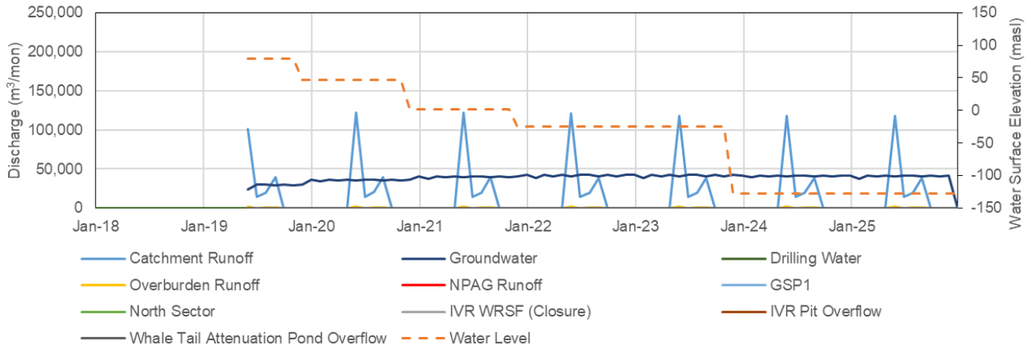

Figure 59: Inflows to the Whale Tail Pit (Construction and Operations)

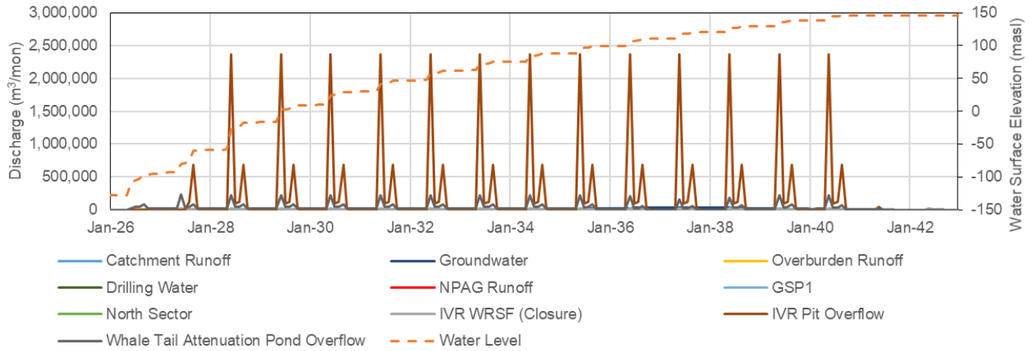

Figure 60: Inflows to the Whale Tail Pit (Closure)

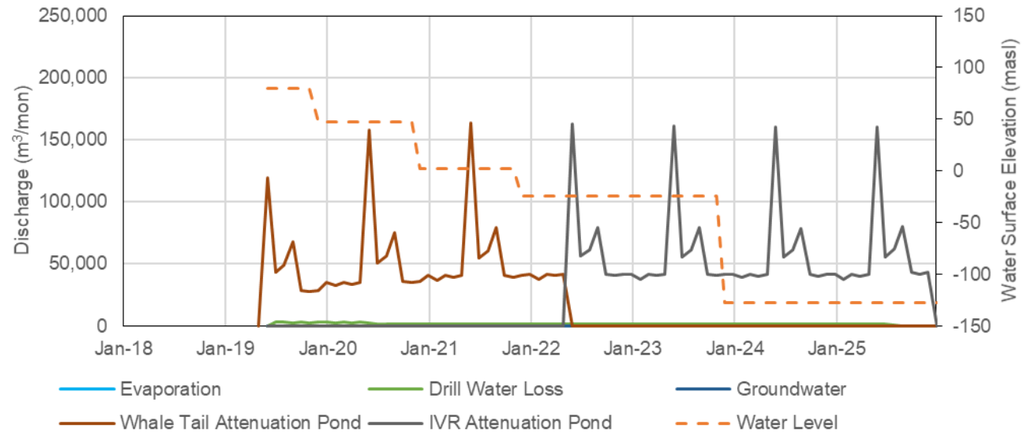

Figure 61: Outflows from the Whale Tail Pit (Construction and Operations)

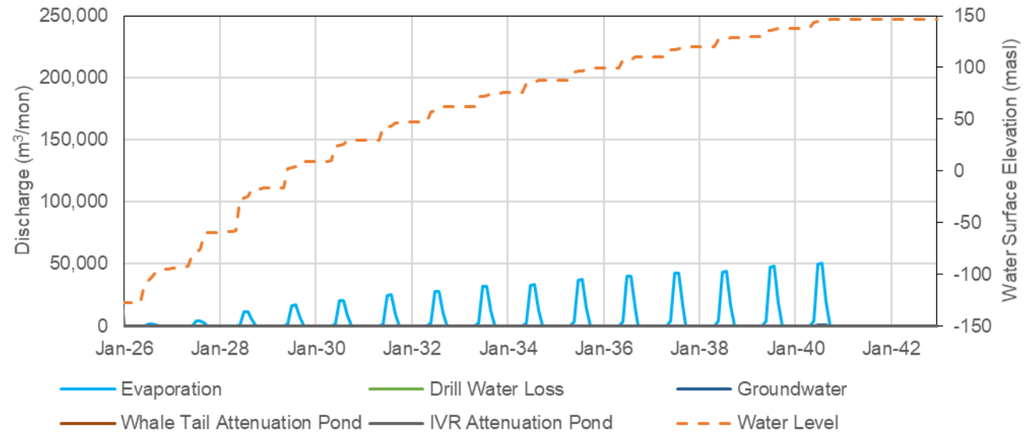

Figure 62: Outflows from the Whale Tail Pit (Closure)

5.7.3 Changes from the FEIS Addendum

The most significant changes to inflows to the Whale Tail Pit are caused by the following:

- The updated drainage area delineation results in a slightly larger drainage area for the Whale Tail Pit (1.17 km^2 vs 1.16 km^2 previously).
- North Sector and IVR WRSF Inflows. Runoff from the North Sector and the IVR WRSF are significantly reduced due to the updated calculation of runoff and seepage from the WRSFs.
- The reduction of predicted groundwater flows to and from the pit (see Section 4.0).

By the end of operations, there is 121,600 m^3 (3%) less inflow to the pit than previously predicted (4,559,850 m^3 vs. 4,681,450 m^3) (Figure 63). For closure, the result of these updates is that the filling of Whale Tail pit is delayed by a year (2040 instead of 2039) (Figure 64).

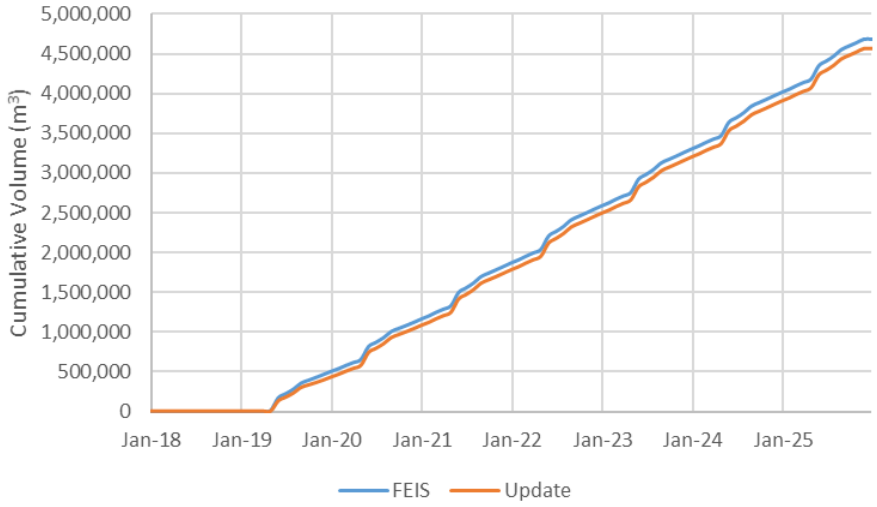

Figure 63: Comparison of Cumulative Inflows to the Whale Tail Pit during Operations under the FEIS Addendum and the Current Water Balances

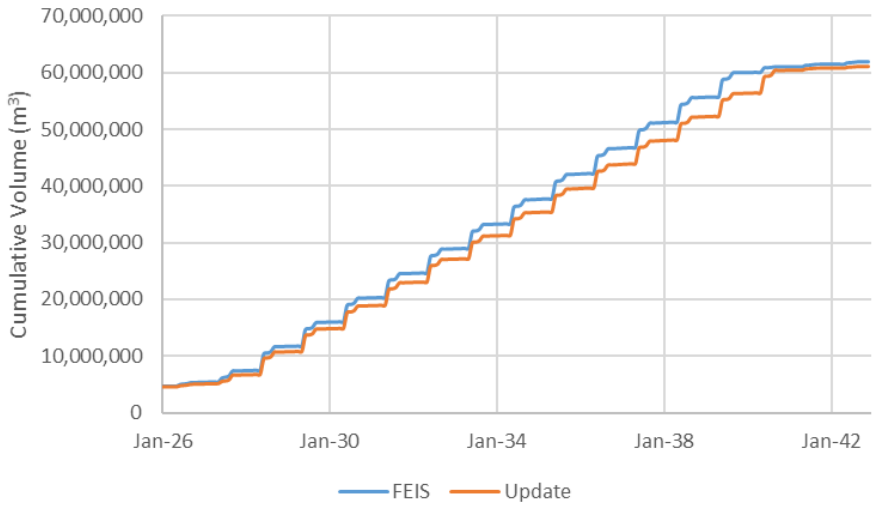

Figure 64: Comparison of Cumulative Inflows to the Whale Tail Pit during the filling period under the FEIS Addendum and the Current Water Balances

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

5.8.1 Catchment Characteristics and Water Management

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. Dewatering of Whale Tail Lake (North Basin) is planned in two phases - Phase 1, when approximately 2 million m^3 is dewatered in March and April 2019 for a period of approximately 45 days; and Phase 2, when approximately 1.1 million m^3 is dewatered in June 2019.

Aside from contact water managed within Quarry 1 and GSP-1, the Whale Tail Attenuation Pond is intended to manage all contact water until the IVR Attenuation Pond becomes operational in 2022. During this period, contributing catchments include those from the Whale Tail WRSF Contact Water Collection System, the North Sump, Whale Tail Pit, the IVR Pit, the IVR WRSF, the camp site and a portion of the NPAG Stockpile. Collected water is discharged to Lake A16 (Mammoth Lake) via the O-WTP during open water conditions. Prior to the availability of the S-WTP (brackish) in October 2020, contact water is pumped to GSP-1 during winter conditions to prevent overflow of the Whale Tail Attenuation Pond. After October 2020, this collected water is discharged to Lake A16 (Mammoth Lake) via the S-WTP (brackish) during winter (i.e., October 2020 to April 2022).

Once the IVR Attenuation Pond becomes operational, the Whale Tail Attenuation Pond only manages contact water from its local contributing area until closure. Winter discharge to the IVR Attenuation Pond is not required during this period due to a net groundwater loss from the Whale Tail Attenuation Pond.

At closure, the Whale Tail Attenuation Pond becomes part of Whale Tail Lake (North Basin) once more upon the filling of the Whale Tail and IVR Pits. The final elevation of the pit lake is 153.5 masl. This level is maintained by the Mammoth Lake sill constructed at closure. The Mammoth Dike and Whale Tail Dike remain in place until pit lake water meets quality objectives, predicted to occur by the end of 2042 (Golder 2019a).

Post-closure is initiated in 2042. It is defined as when the pit lake is fully flooded, and water quality is acceptable. At that time, drainage patterns are then re-established towards Lake A16 (Mammoth Lake) (i.e., water overflows

the Mammoth Lake sill) and Mammoth Dike and Whale Tail Dike are decommissioned reconnecting the North and South basins of Whale Tail Lake.

An overview of the catchment, along with its drainage pathways, is provided in Figure 65.

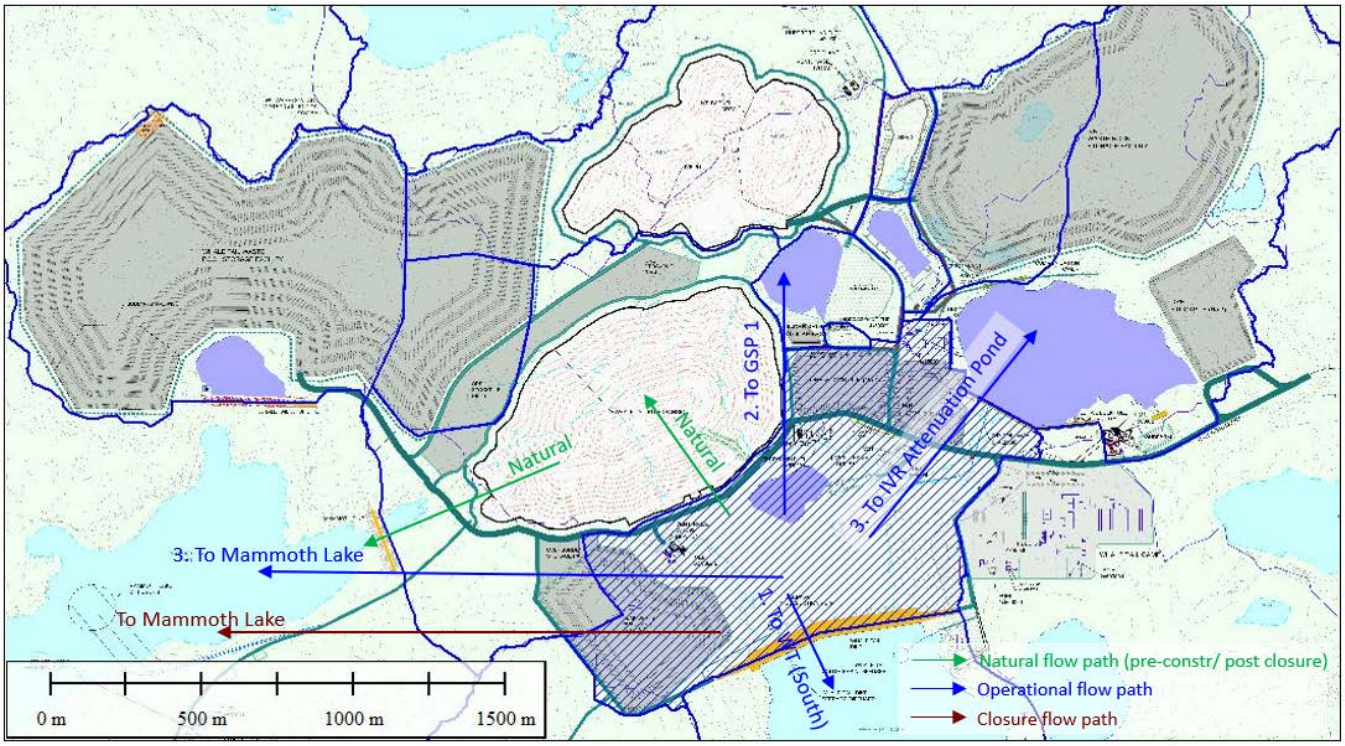

Figure 65: Whale Tail Lake (North Basin) / Whale Tail Attenuation Pond Catchment Overview

Storage characteristics are summarized in Table 23. Drainage areas of the Whale Tail Pit are summarized in Figure 66.

Whale Tail Lake (North Basin) has a baseline catchment area of 28.6 km^2. This catchment area is reduced to 28.4 km^2 in 2017 from the isolation of the Underground Mine and related water management systems. It is further reduced to 6.12 km^2 with the construction of Whale Tail Dike in 2018. In 2019, the construction of the North East Diversion and the dewatering of Whale Tail Lake (North Basin) further reduce the catchment area to 3.05 km^2. The final reduction in catchment area (to 1.03 km^2) occurs at the end of 2019 when the East Channel comes online, diverting the A53/IVR Attenuation Pond catchment towards Whale Tail Lake (South Basin). The Whale Tail Lake Attenuation Pond, once operational, has a catchment area ranging from 1.03 km^2 (i.e., the local catchment to 5.16 km^2 (i.e., the total contributing drainage area prior to the operations of the IVR Attenuation Pond). At closure, the natural drainage is restored, returning to baseline conditions.

Table 23: Storage Characteristics (Whale Tail Lake [North Basin] / Whale Tail Attenuation Pond)

Snapshot	Drainage Area (km^2)	Operating Level		Capacity	
		Water Surface Elevation (masl)	Storage (m^3)	Water Surface Elevation (masl)	Storage (m^3)
Baseline	28.4 to 28.6	152.5	3,029,705	152.5	3,029,705
2018	6.12	152.5	3,029,705	152.5	3,029,705
2019	3.05	134.6 to 152.5	0 to 3,029,705	152.5	3,029,705
Whale Tail Lake (North Basin) Dewatered to Closure	1.03 to 5.16	134.6 to 143.5	0 to 133,232	143.5	133,232
Closure (> Whale Tail Pit full) to Post-Closure	28.6	134.6 to 153.5	0 to 7,171,781	153.5	7,171,781

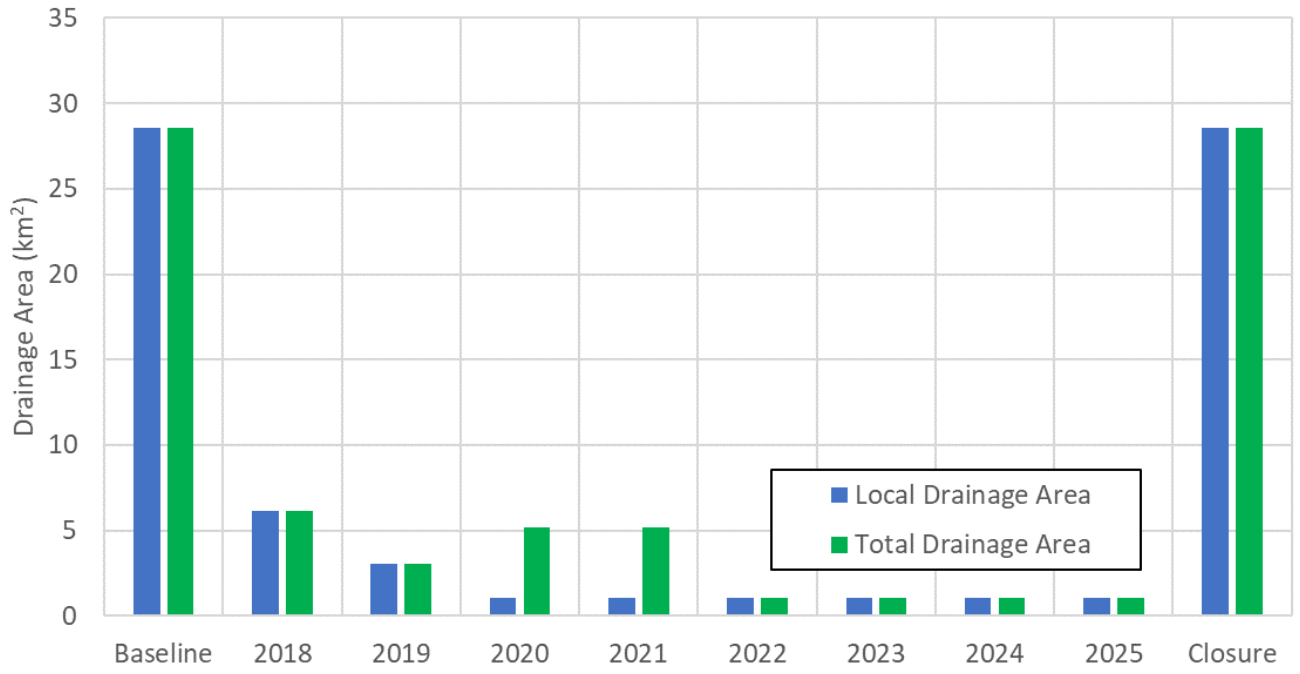

Figure 66: Drainage Area Progression through the Project (Whale Tail Lake [North Basin] / Whale Tail Attenuation Pond)

5.8.2 Water Balance

Inflows and outflows are summarized in Table 24, and presented in tabular form in Appendix F. Whale Tail Lake (North Basin) is expected to reach the elevation of 153.5 masl by 2042.

Table 24: Water Balance Flow Components (Whale Tail Lake [North Basin] / Whale Tail Attenuation Pond)

Figure	Flow Component	Flow Type	Start	End	Note / Comment
INFLOWS					
■ Figure 67 (Construction / Operations) ■ Figure 68 (Closure)	■ Catchment runoff and direct precipitation	■ Natural drainage	■ 2018	■ Post-Closure	■ Runoff from the local catchment. ■ Annual runoff volumes are expected to be constant following the installation of the Whale Tail Dike and Mammoth Dike.
	■ Runoff from the Whale Tail Pit, IVR Pit, Northeast Sector, and Lake A53	■ Natural drainage	■ 2018	■ 2018	■ Runoff from the catchments of Whale Tail Pit, IVR Pit, the Northeast Sector, and Lake A53 naturally draining to Whale Tail Lake (North Basin) prior to dewatering activities.
	■ Whale Tail Lake (South Basin)	■ Natural drainage	■ 2018	■ 2019	■ Natural runoff from Whale Tail Lake (South Basin) to Whale Tail Lake (North Basin) until the installation of the Whale Tail Dike.
	■ Runoff from the North Sector	■ Natural drainage	■ 2018	■ 2021	■ Runoff from the North Sector / Sump prior to the operations of the IVR Attenuation Pond in 2022. ■ Annual runoff volumes are expected to be constant.
	■ Flows from the Camp Biodisk	■ Pump / pipeline	■ 2018 ■ 2026	■ 2022 ■ Post-Closure	■ Flows from the camp biodisk prior to the initiation of the Whale Tail Attenuation Pond until the IVR Attenuation Pond becomes operational in 2022. ■ Flows from the camp biodisk during closure.
	■ Intercepted runoff from the Industrial Sector, Camp Sector and Ore Stockpile	■ Pump / Pipeline	■ June 2018 ■ 2019	■ 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 in June 2019 until post-closure.
	■ Runoff collected in the Whale Tail WRSF Contact Water Collection System	■ Pump / pipeline	■ 2019	■ 2022	■ Runoff collected once the Whale Tail Attenuation Pond becomes operational in June 2019 until the IVR Attenuation Pond becomes operational in 2022.
	■ 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 June 2019 to Post-Closure.
	■ Seepage through the Whale Tail Dike	■ Natural drainage	■ 2019	■ Post-Closure	■ Seepage from Whale Tail Lake (South Basin) thru the Whale Tail Dike once the Whale Tail Attenuation Pond becomes operational in June 2019, 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 by January 2020 and recirculated to Whale Tail Lake (South Basin).
	■ Flows from the Truck Shop	■ Pump / pipeline	■ 2019	■ 2022	■ Flows from the truck shop once the Whale Tail Attenuation Pond becomes operational in June 2019 until the IVR Attenuation Pond becomes operational in 2022.
	■ Discharge from the Whale Tail Pit, IVR Pit, and IVR WRSF	■ Pump / pipeline	■ 2019	■ 2022	■ Discharges until the IVR Attenuation Pond becomes operational in 2022.
	■ Runoff from NPAG stockpile	■ Natural drainage	■ 2020	■ Post-Closure	■ Runoff during operation is based on OKC runoff calculations. At closure, when the stockpile is removed, the Golder-calculated land runoff calculations are used

Figure	Flow Component	Flow Type	Start	End	Note / Comment
OUTFLOWS					
■	■ 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.
■ Figure 69 (Construction / Operations) ■ Figure 70 (Closure)	■ Runoff to Lake A16 (Mammoth Lake)	■ Natural drainage	■ 2018 ■ Post-Closure	■ 2019 ■ Post-Closure	■ Natural runoff to Lake A16 (Mammoth Lake) until the Mammoth Dike is operational and following the refilling of Whale Tail Lake (North Basin).
	■ Drawdown to Whale Tail Lake (South Basin)	■ Pump / pipeline	■ 2019	■ 2019	■ Dewatering of 66% of the Whale Tail Lake (North Basin) to Whale Tail Lake (South Basin) starting in March for 45 days9, without treatment (assumed not be required).
	■ Drawdown to C-WTP	■ Pump / pipeline	■ 2019	■ 2019	■ Dewatering of the remaining 34% of the Whale Tail Lake (North Basin) to Whale Tail Lake (South Basin) via the C-WTP.
	■ Discharge via the O-WTP	■ Pump / pipeline	■ 2019	■ 2022	■ Discharge of collected water to Lake A16 (Mammoth Lake) until May 2021 and to Whale Tail Lake (South Basin) from June 2021 until May 2022 via the O-WTP during open water conditions.
	■ Discharge to GSP-1	■ Pump / pipeline	■ 2019	■ 2020	■ Discharge of collected water to GSP-1 during winter conditions from October 2019 to May 2020 before the S-WTP (brackish) becomes available to treat winter discharges.
	■ Groundwater	■ Natural drainage	■ 2019	■ Post-Closure	■ Infiltration once the Whale Tail Attenuation Pond becomes operational until post-closure.
	■ Discharge to the S-WTP (brackish)	■ Pump / pipeline	■ 2020	■ 2022	■ Discharge of collected water to Lake A16 (Mammoth Lake) via the S-WTP (brackish) during winter conditions from October (i.e., when the treatment unit becomes operational) to April in 2020-2021 and 2021-2022, after which the S-WTP (brackish) is required to treat low TDS salinity water from the Underground Mine.
	■ Discharge to the IVR Attenuation Pond	■ Pump / pipeline	■ 2022	■ Closure	■ Discharge of collected water during open water conditions to the IVR Attenuation Pond when it becomes available in 2022 to the end of operations.
	■ 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 June 2026.

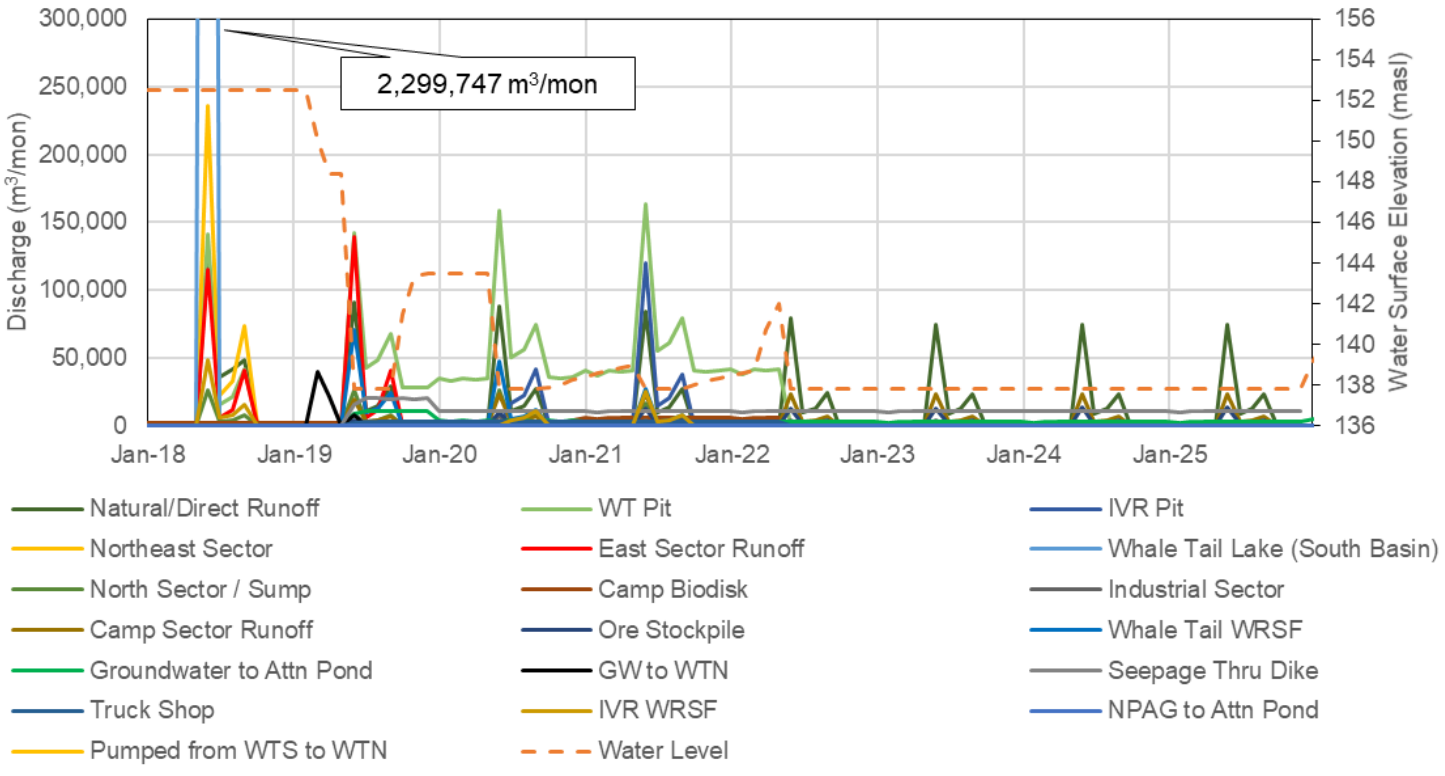

Figure 67: Inflows to the Whale Tail Lake [North Basin] / Whale Tail Attenuation Pond (Construction and Operations)

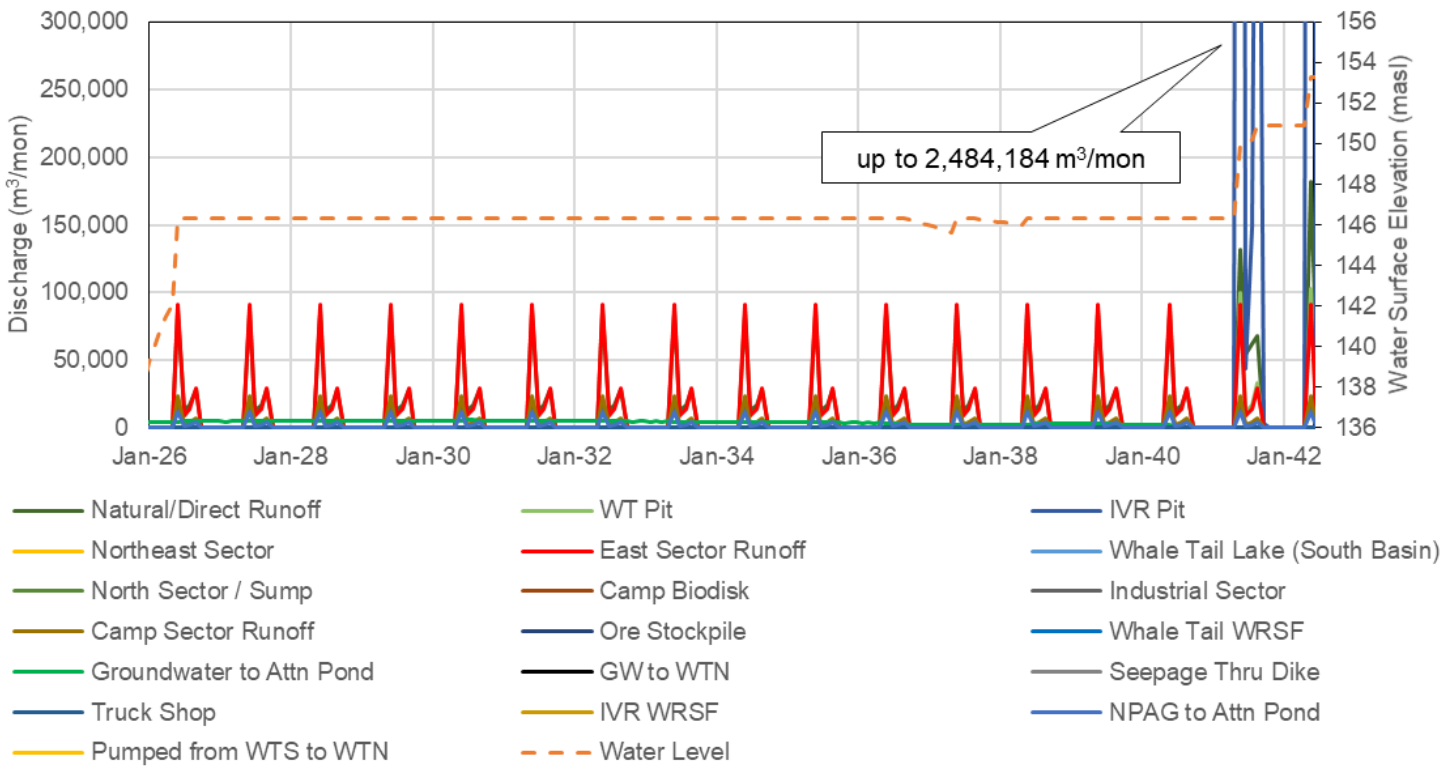

Figure 68: Inflows to the Whale Tail Lake [North Basin] / Whale Tail Attenuation Pond (Closure)

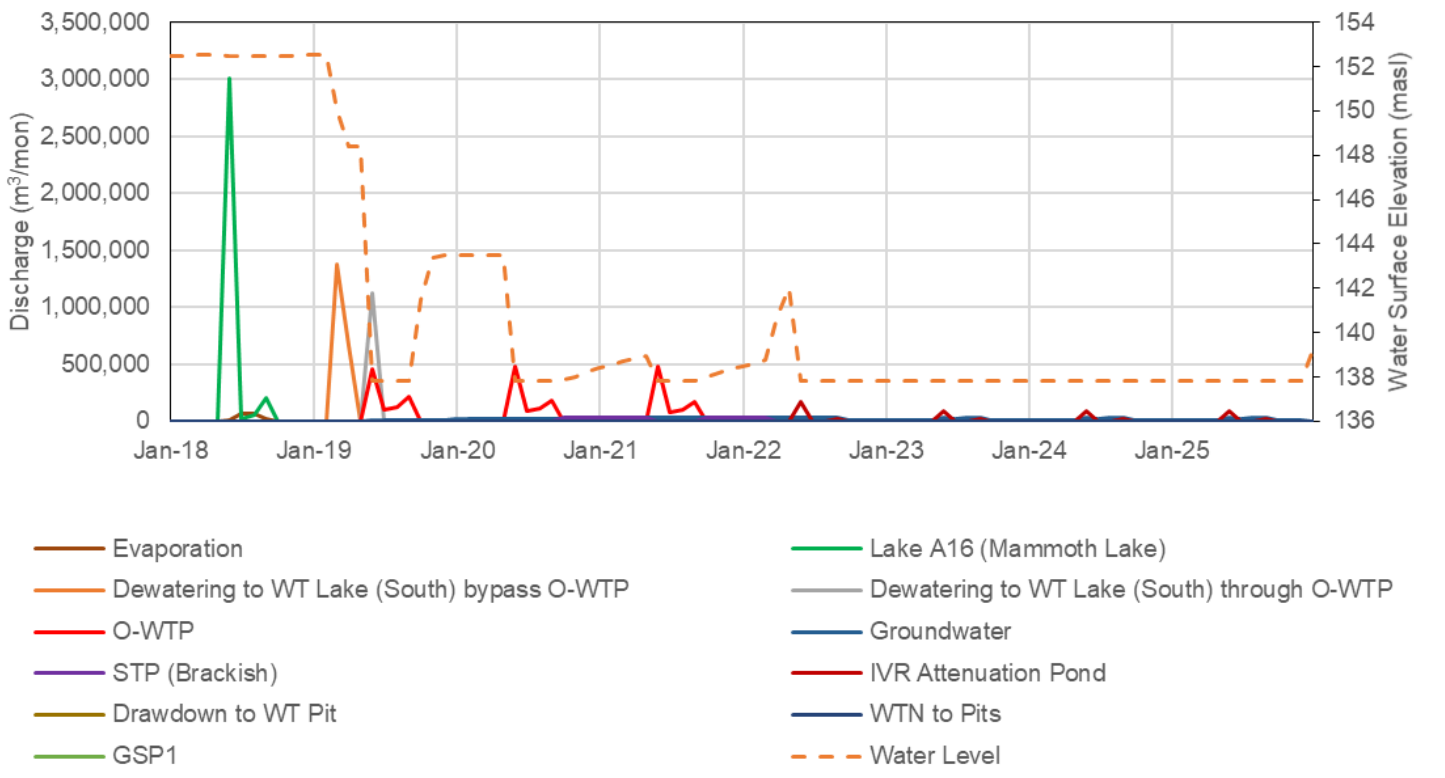

Figure 69: Outflows from the Whale Tail Lake [North Basin] / Whale Tail Attenuation Pond (Construction and Operations)

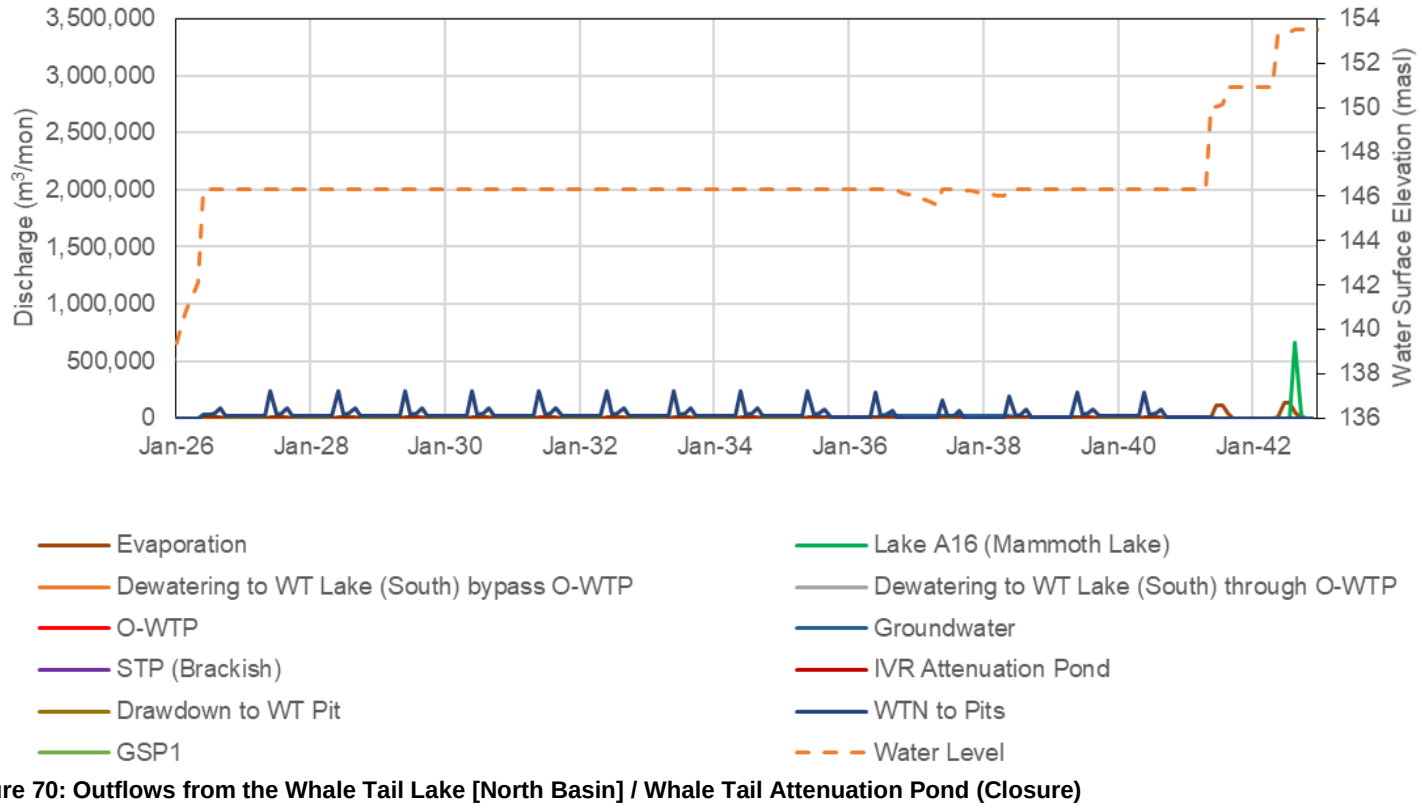

Figure 70: Outflows from the Whale Tail Lake [North Basin] / Whale Tail Attenuation Pond (Closure)

5.8.3 Changes from the FEIS Addendum

The most significant changes to inflows to the Whale Tail Attenuation Pond are caused by the following:

- The updated drainage area delineation results in a 21% smaller local drainage area in 2019 (3.05 km^2 vs 3.86 km^2 previously). However once Whale Tail Lake (North Basin) is dewatered, the difference drops to only 2% (5.16 km^2 vs 5.07 km^2 previously).
- WRSF Inflows. Runoff from the watersheds containing WRSFs are significantly reduced due to the updated calculation of runoff and seepage from the WRSFs.
- Consumptive flows. The operational camp flows starting in 2021 are approximately 1.5 times higher (192 m^3/day vs 77.8 m^3/day previously).

There is no change in the predicted groundwater flows to and from the pond (see Section 4.0).

By the end of operations, there is 1,695,350 m^3 (16%) less inflow to the pond than previously predicted (9,139,900 m^3 vs. 10,835,250 m^3). For closure, the result of these updates is that the filling of Whale Tail Lake (North Basin) is delayed by a year (2042 instead of 2041) (Figure 71).

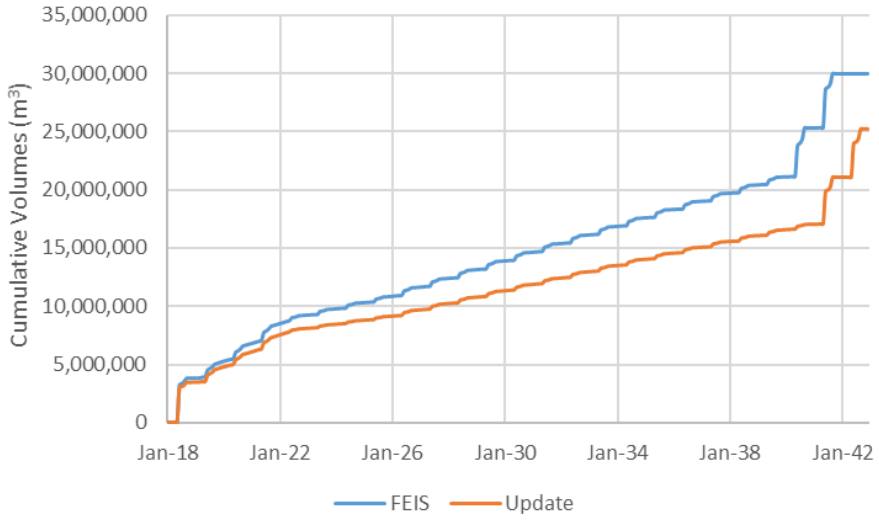

Figure 71: Comparison of Cumulative Inflows to the Whale Tail Attenuation Pond under the FEIS Addendum and the Current Water Balances

5.9 IVR Pit

5.9.1 Catchment Characteristics and Water Management

The proposed IVR Pit is located just north of Whale Tail Lake, within the Northeast Sector (see Section 5.2.1.3). The IVR Pit is initiated in Q3 2020. Its operational runoff is conveyed to the active attenuation pond (i.e., either the Whale Tail Attenuation Pond or the IVR Attenuation Pond).

An overview of the catchment, along with its drainage pathways, is provided in Figure 72.

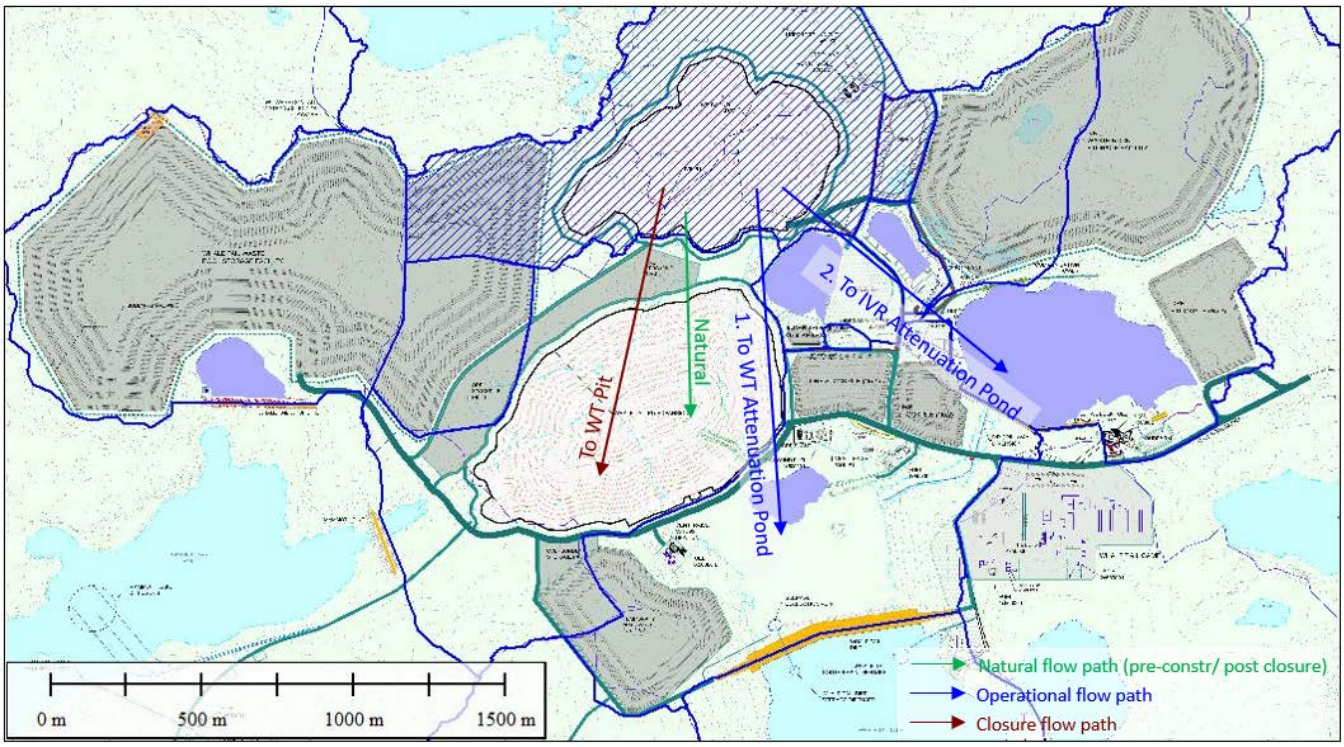

Figure 72: IVR Pit Catchment Overview

Storage characteristics are summarized in Table 25. Drainage areas of the Whale Tail Pit are summarized in Figure 73.

The IVR Pit catchment remains local with a drainage area of 1.18 km^2 until closure. At closure, natural drainage patterns surrounding the IVR Pit are mostly re-established, including the IVR Diversion and the Northeast Sector watersheds. The IVR WRSF watershed is diverted to Whale Pit. Runoff from the Whale Tail Lake (South Basin), the GSP-1 watershed area, the Underground Mine watershed area and the Whale Tail WRSF Contact Water Collection System are pumped to the IVR Pit to expedite its refilling. The drainage area of the IVR Pit Tail Pit increases to 25.4 km^2 which includes the sum of the natural drainage area of Whale Tail Lake (South Basin) and of the Whale Tail WRSF.

Table 25: Storage Characteristics (IVR Pit)

Snapshot	Drainage Area (km^2)	Operating Level		Capacity	
		Water Surface Elevation (masl)	Storage (m^3)	Water Surface Elevation (masl)	Storage (m^3)
Q3 2020 to Closure	1.18	46 (2025) to 130 (2020)	0	149.3	10,107,510
Closure to Post-Closure	25.4	n/a	0	149.3	10,107,510

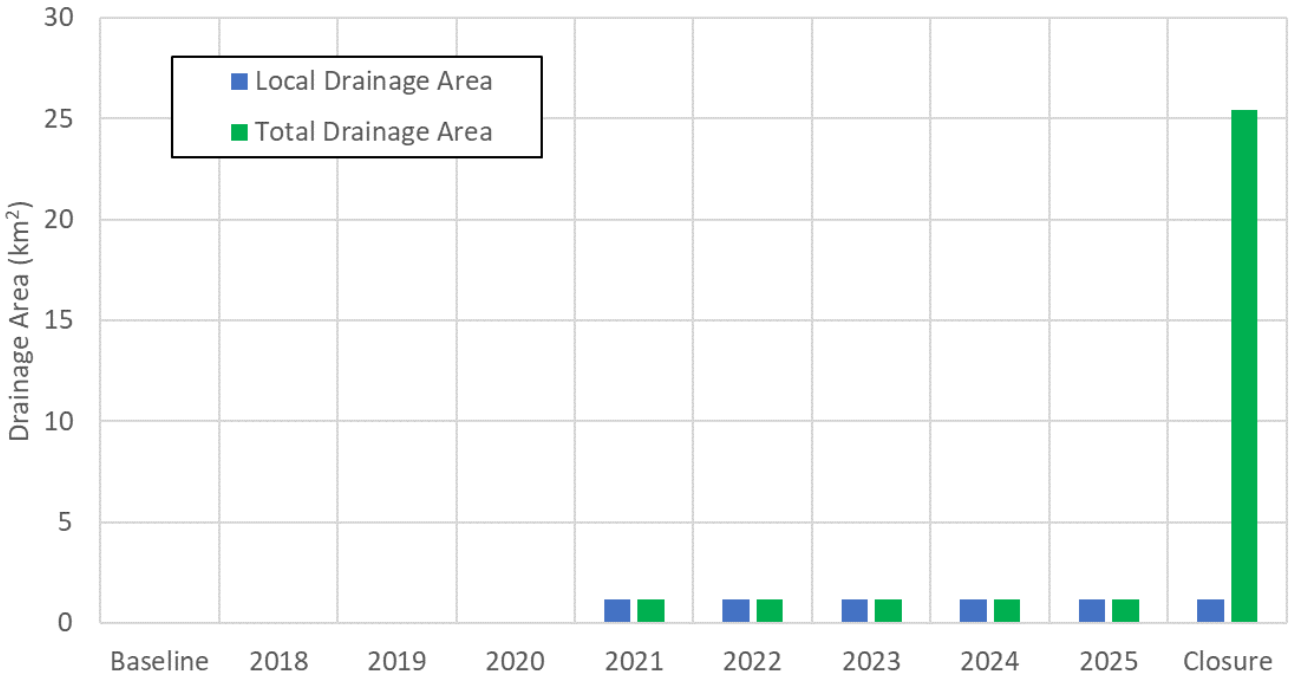

Figure 73: Drainage Area Progression through the Project (IVR Pit)

5.9.2 Water Balance

Inflows and outflows are summarized in Table 26, and presented in tabular form in Appendix F. IVR Pit is expected to be refilled to 149.3 masl by 2027.

Table 26: Water Balance Flow Components (IVR Pit)

Figure	Flow Component	Flow Type	Start	End	Note / Comment
INFLOWS					
■ Figure 74 (Construction / Operations) ■ Figure 75 (Closure)	■ Direct and indirect runoff from natural areas	■ Natural drainage	■ Q3 2020	■ Post-Closure	■ Runoff volumes are expected to be constant on an annual basis, with minor fluctuations from direct runoff at various pit surface areas.
	■ Drilling Water	■ Pump / Pipeline	■ Q3 2020	■ Closure	■ Drilling water from Lake C38 (Nemo Lake) during operations of the pit.
	■ Runoff from the IVR Diversion sub-watershed	■ Natural drainage	■ Closure	■ Post-Closure	■ Runoff from the IVR Diversion sub-watershed following its decommissioning at closure, re-establishing its natural drainage patterns. ■ Runoff volumes are expected to be constant on an annual basis.
	■ Drawdown of Whale Tail Lake (South Basin)	■ Pump / Pipeline	■ Closure	■ WTS drawn down	■ Runoff from Whale Tail Lake (South Basin) during its drawdown from 156.0 masl to 153.5 masl in 2026.
	■ Discharge of overflow from the Whale Tail Lake (South Basin)	■ Pump / Pipeline	■ WTS drawn down	■ Post-Closure	■ Discharge of water from Whale Tail Lake (South Basin) following its drawdown in 2026 to maintain its water surface elevation at 153.5 masl during closure. ■ Annual runoff volumes are expected to be constant.
	■ Runoff from the northeast portion of the Whale Tail WRSF	■ Pump / Pipeline	■ Closure	■ Post-Closure	■ Annual runoff volumes are expected to be constant.
OUTFLOWS					
■ Figure 76 (Construction / Operations) ■ Figure 77 (Closure)	■ Evaporation	■ n/a	■ Q3 2020	■ Post-Closure	■ Evaporative losses proportional to the water surface area of IVR Pit.
	■ Discharge to Whale Tail Attenuation Pond	■ Pump / Pipeline	■ Q3 2020	■ 2022	■ Runoff is managed through the Whale Tail Attenuation Pond until the IVR Attenuation pond becomes operational. ■ Runoff volumes are expected to be approximately constant on an annual basis, with minor fluctuations from direct runoff at various pit surface areas.
	■ Drilling Water Losses	■ n/a	■ Q3 2020	■ 2025	■ Water locked within the ore
	■ Discharge to IVR Attenuation Pond	■ Pump / Pipeline	■ 2022	■ Closure	■ Runoff is managed through the IVR Attenuation Pond once operational, until closure. ■ Annual runoff volumes are expected to be constant.
	■ Overflow to Whale Tail Pit	■ Natural drainage	■ IVR Pit full	■ WT Pit full	■ Runoff overflows from IVR Pit when full (water surface elevation of 149.3 masl) to Whale Tail Pit by natural drainage patterns until Whale Tail Pit is full (water surface elevation of 146.3 masl). ■ Annual runoff volumes are expected to be constant.
	■ Overflow to Whale Tail Lake (North Basin)	■ Natural drainage	■ WT Pit full	■ Post-Closure	■ Runoff overflows from IVR Pit when full (elevation of 149.3 masl) to Whale Tail Lake (North Basin) by natural drainage patterns once Whale Tail Pit is full. ■ Annual runoff volumes are expected to be constant.

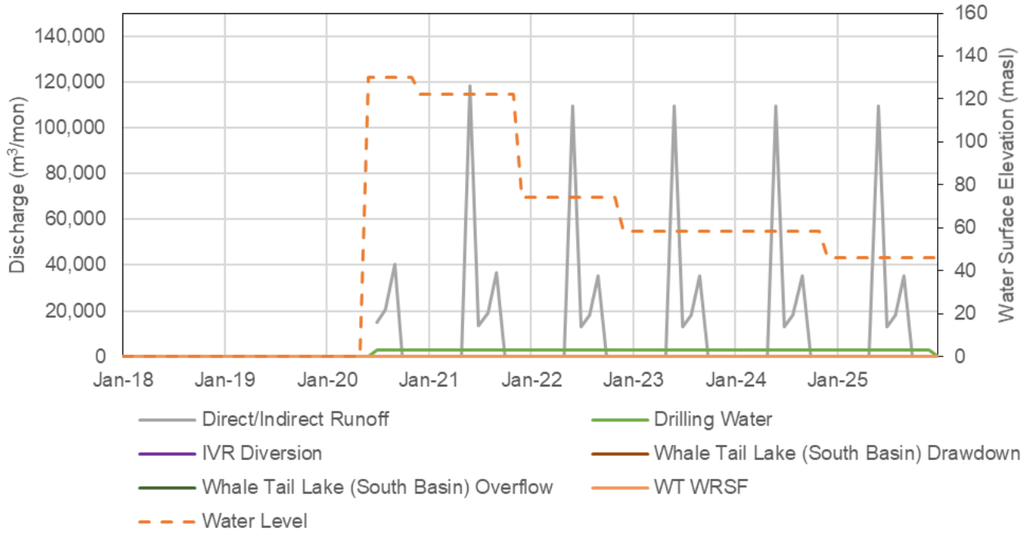

Figure 74: Inflows to the IVR Pit (Construction and Operations)

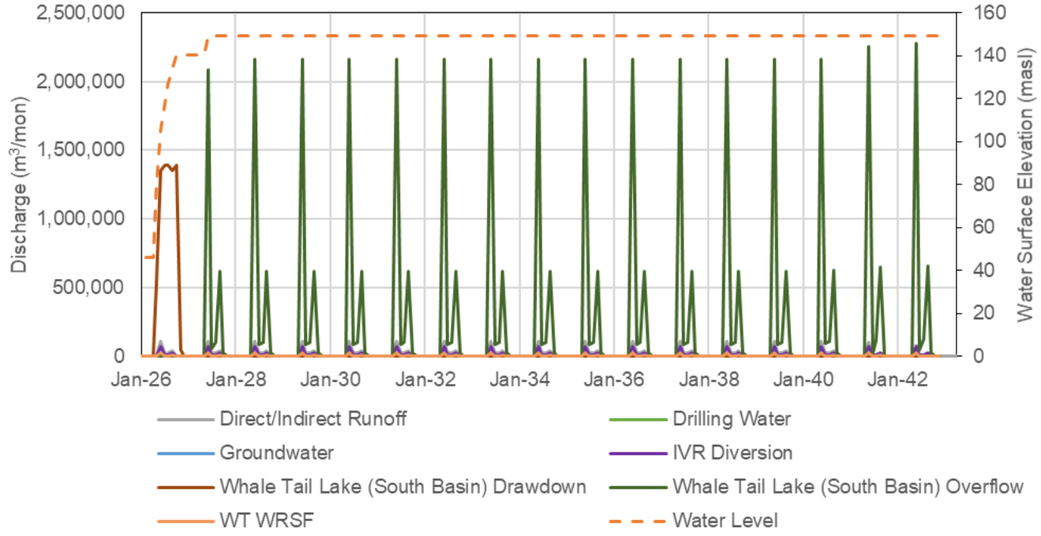

Figure 75: Inflows to the IVR Pit (Closure)

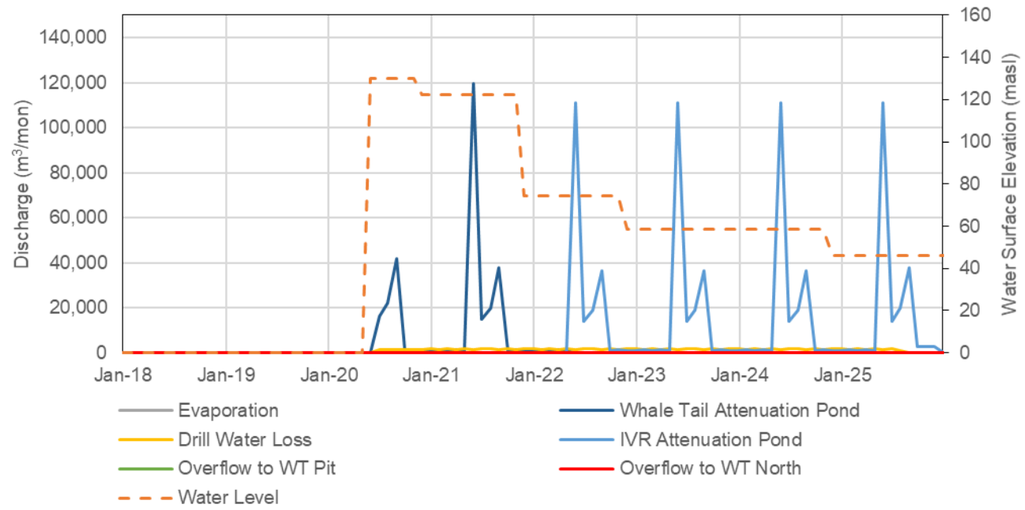

Figure 76: Outflows from the IVR Pit (Construction and Operations)

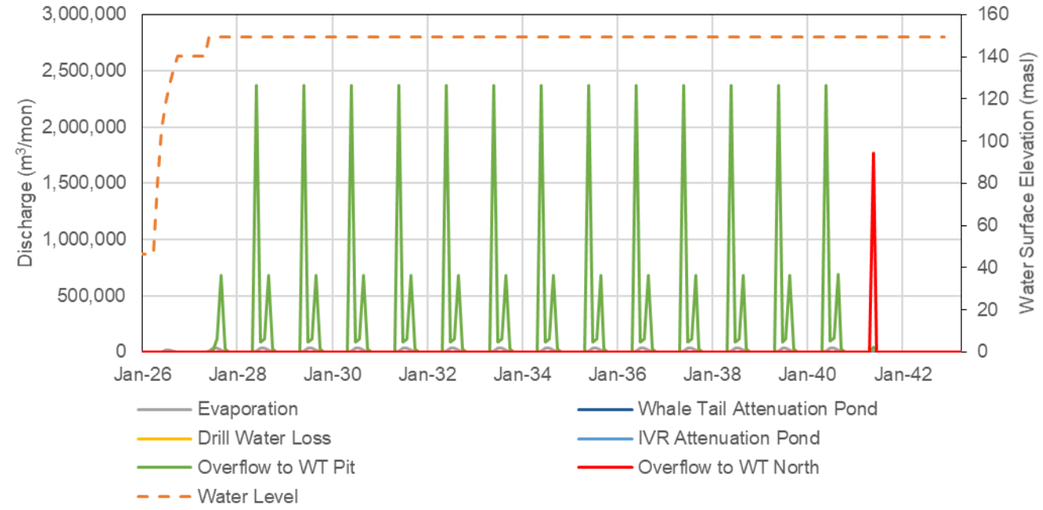

Figure 77: Outflows from the IVR Pit (Closure)

5.9.3 Changes from the FEIS Addendum

The most significant changes to inflows to the IVR Pit are caused by the following:

- The updated drainage area delineation results in a 12% higher local drainage area during operations (1.18 km^2 vs 1.05 km^2 previously). At closure, the contributing drainage area is 7% smaller (25.4 km^2 vs 27.3 km^2 previously).

By the end of operations, there is 38, 950 m^3 (3.5%) more inflow to the pit than previously predicted (1,159,650 m^3 vs. 1,120,700 m^3). For closure, there is no change to the pit filling schedule (2027) (Figure 78).

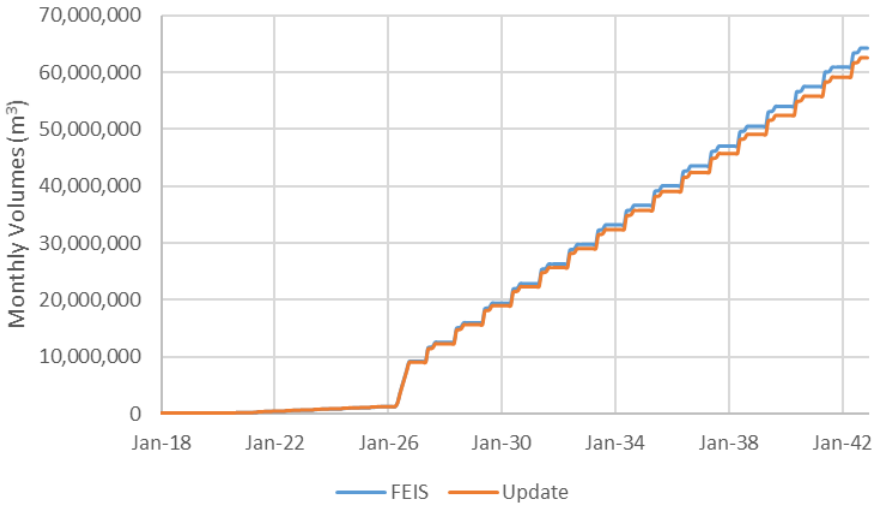

Figure 78: Comparison of Cumulative Inflows to the IVR Pit under the FEIS Addendum and the Current Water Balances

5.10 IVR Waste Rock Storage Facility Contact Water Collection System

5.11 Catchment Characteristics and Water Management

The IVR WSRF Contact Water Collection System becomes operational once the IVR Pit is initiated. Prior to its operation, the natural catchment forms a portion of the Northeast Sector (see Section 5.2.1.3). Runoff from the IVR WRSF is captured by perimeter ditches and conveyed to the IVR WRSF Contact Water Collection System prior to being pumped to the active attenuation pond (i.e., either the Whale Tail Attenuation Pond or the IVR Attenuation Pond). At closure, the runoff from this area is diverted to Whale Tail Pit.

An overview of the catchment, along with its drainage pathways, is provided in Figure 79.

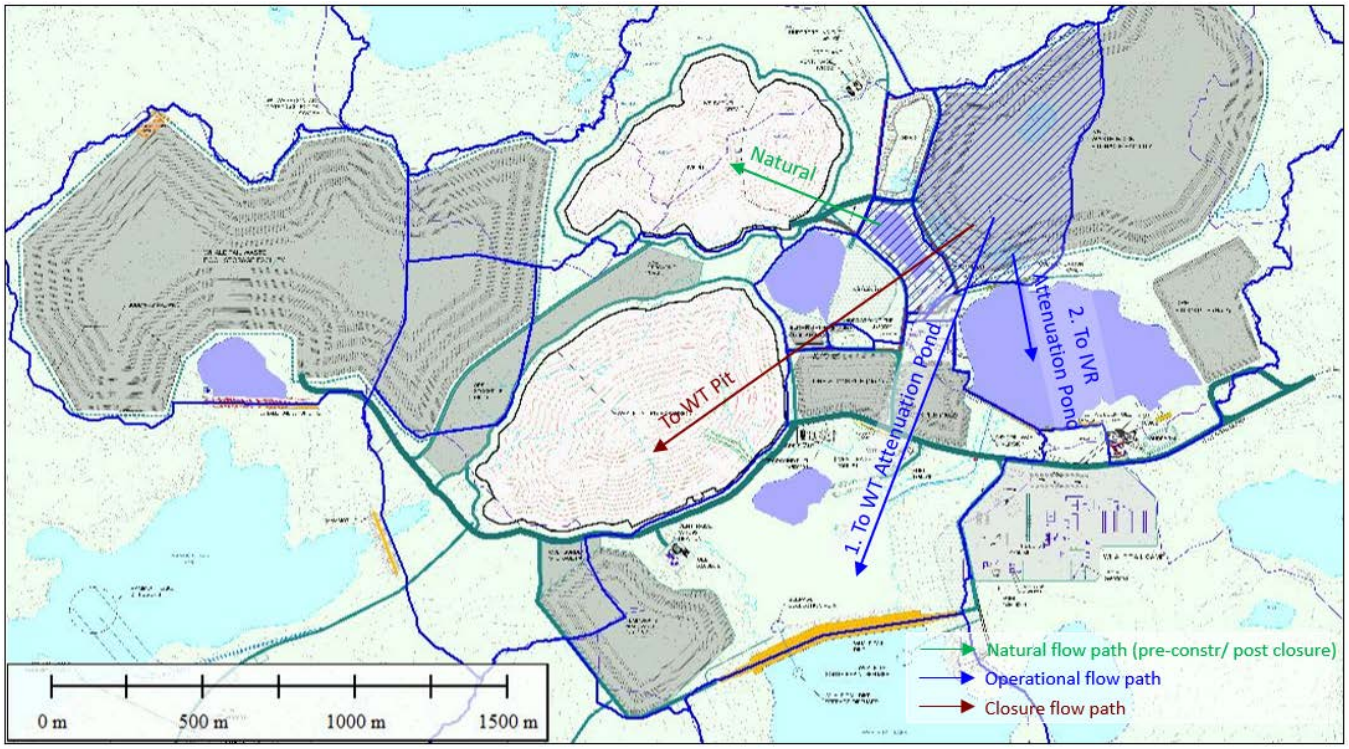

Figure 79: IVR Waste Rock Storage Facility Contact Water Collection System Catchment Overview

Storage characteristics are summarized in Table 27. Drainage areas of the IVR Waste Rock Storage Facility Contact Water Collection System are summarized in Figure 80.

The total catchment of the IVR WRSF Contact Water Collection System increases proportionally with the increase in waste rock footprint which encroaches on the natural catchment of the IVR Attenuation Pond over time. At closure, GSP-2 drains to the IVR WRSF thereby increasing its total catchment area. Thus, its total catchment area ranges from 0.459 km^2 during baseline conditions, to 0.915 km^2 in 2023, to 0.977 km^2 at closure. The water balance assumes that the IVR WRSF Contact Water Collection System has no capacity.

Table 27: Storage Characteristics (IVR WRSF Contact Water Collection System)

Snapshot	Drainage Area (km^2)	Operating Level		Capacity	
		Water Surface Elevation (masl)	Storage (m^3)	Water Surface Elevation (masl)	Storage (m^3)
Baseline to Closure	0.441 to 0.915	n/a	0	n/a	0
Closure to Post-Closure	0.977	n/a	0	n/a	0

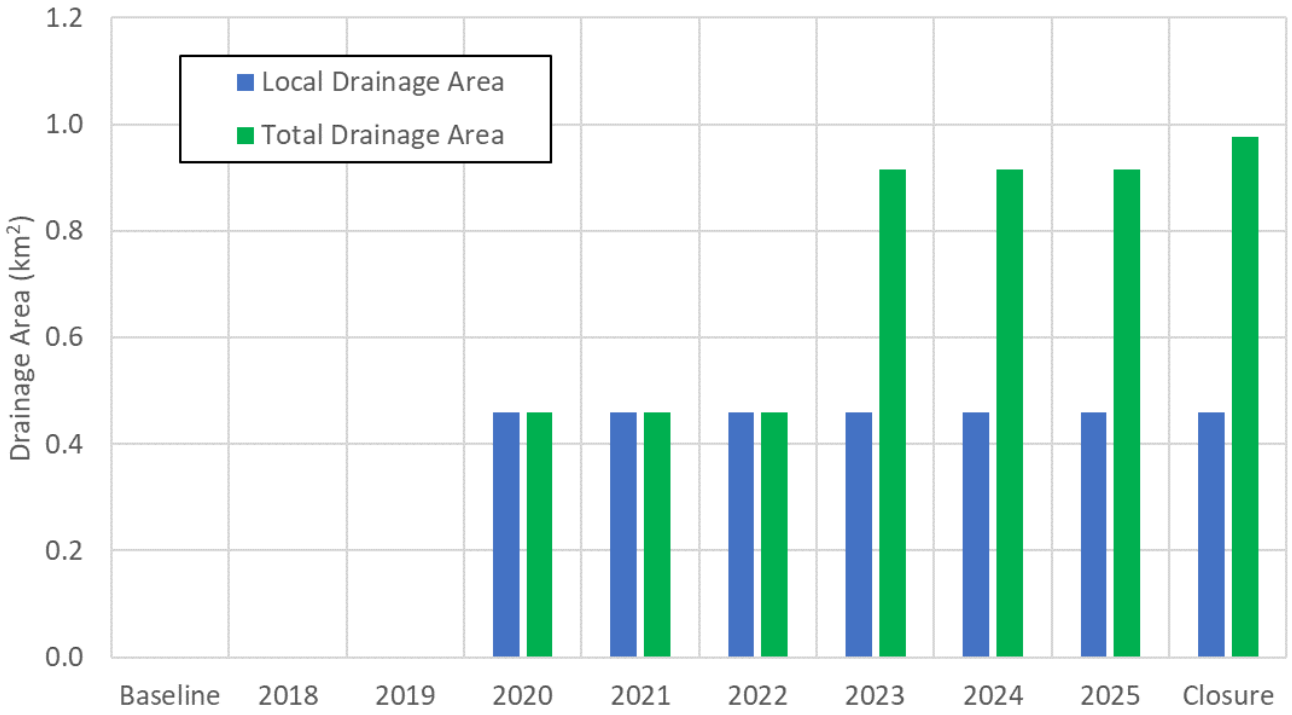

Figure 80: Drainage Area Progression through the Project (IVR WRSF Contact Water Collection System)

5.11.1 Water Balance

Inflows and outflows are summarized in Table 28, and presented in tabular form in Appendix F.

Table 28: Water Balance Flow Components (IVR WRSF Contact Water Collection System)

Figure	Flow Component	Flow Type	Start	End	Note / Comment
INFLOWS					
■ Figure 81 (Construction / Operations) ■ Figure 82 (Closure)	■ Runoff from natural areas	■ Natural drainage	■ 2018	■ Post-Closure	■ Runoff volumes are expected to be inversely proportional to the footprint of the IVR WRSF which increases until 2025.
	■ Runoff from the IVR WRSF	■ Natural drainage	■ Q3 2020	■ Post-Closure	■ Runoff volumes are expected to be proportional to the footprint of the IVR WRSF which increases until 2025.
	■ Seepage from the IVR WRSF	■ Natural drainage	■ 2034	■ Post-Closure	■ Based on OKC modelling results, seepage from the WRSF is negligible (See Section 4.0)
	■ Runoff from GSP-2	■ Natural drainage	■ Closure	■ Post-Closure	■ GSP-2 is backfilled at the start of closure and its runoff will follow natural drainage patterns towards the IVR WRSF
OUTFLOWS					
■ Figure 83 (Construction / Operations) ■ Figure 84 (Closure)	■ Runoff to Whale Tail Lake (North Basin)	■ Natural drainage	■ 2018	■ 2019	■ Runoff to Whale Tail Lake (North Basin) until the Northeast Dike is constructed in October 2018
	■ Runoff discharge to the Northeast Sector	■ Pump / Pipeline	■ 2019	■ Q3 2020	■ Runoff discharge to Lake A16 (Mammoth Lake) via the Northeast Sector diversion (see Section 5.2.1.3) once the Northeast Dike is constructed in October 2018, until the IVR Pit is initiated in Q3 2020.
	■ Runoff discharge to the Whale Tail Attenuation Pond	■ Pump / Pipeline	■ Q3 2020	■ 2022	■ Runoff discharge to Whale Tail Attenuation Pond once the IVR Pit is initiated in Q3 2020, until the IVR Attenuation Pond is operational in 2022. ■ Runoff volumes decrease slightly from baseline conditions resulting from temporary storage in the IVR WRSF (i.e., released as seepage in 2034).
	■ Runoff discharge to the IVR Attenuation Pond	■ Pump / Pipeline	■ 2022	■ Closure	■ Runoff discharge to IVR Attenuation Pond once operational 2022 until closure.
	■ Runoff to Whale Tail Lake (North Basin) via the Whale Tail Pit	■ Natural drainage	■ Closure	■ Post-Closure	■ Runoff to Whale Tail Lake (North Basin) via the IVR Pit at closure, following natural drainage pattern. ■ Runoff volumes are expected to increase from baseline conditions from freezing of the Whale Tail WRSF and runoff from GSP-2.

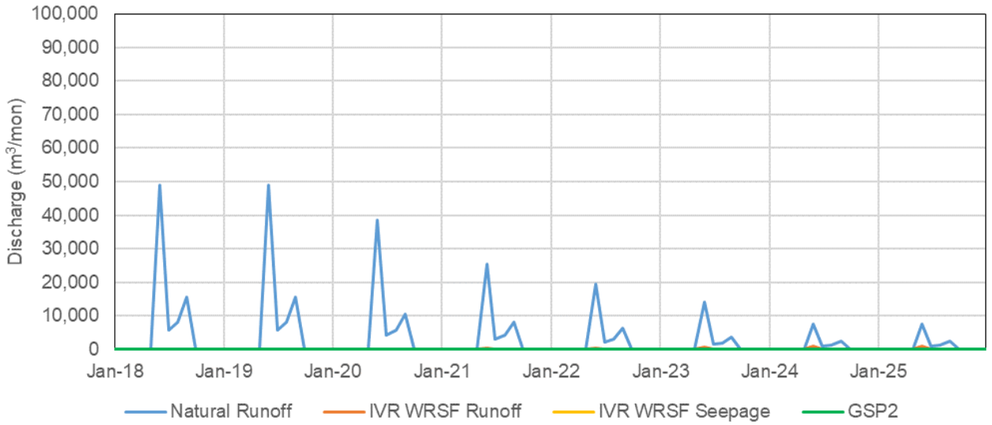

Figure 81: Inflows to the IVR WRSF Contact Water Collection System (Construction and Operations)

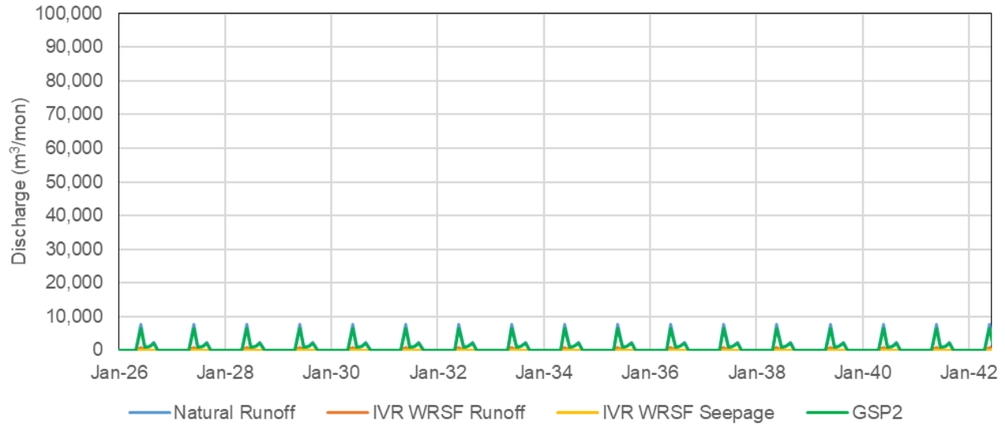

Figure 82: Inflows to the IVR WRSF Contact Water Collection System (Closure)

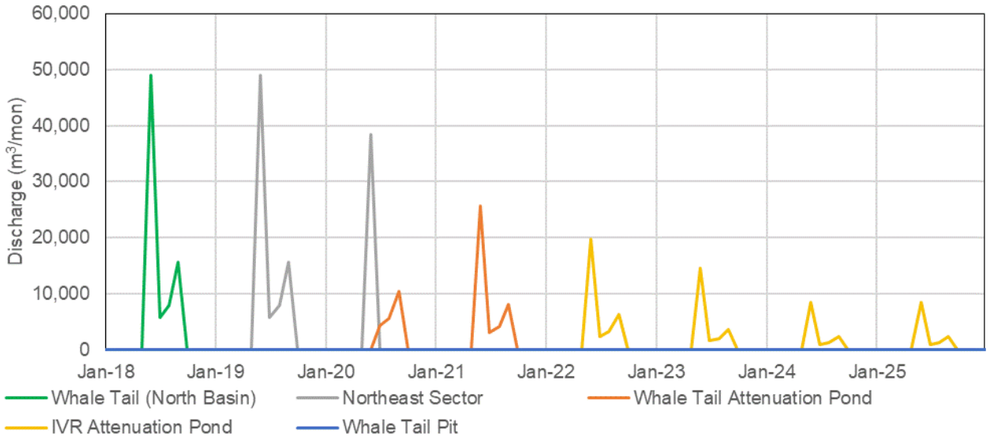

Figure 83: Outflows from the IVR WRSF Contact Water Collection System (Construction and Operations)

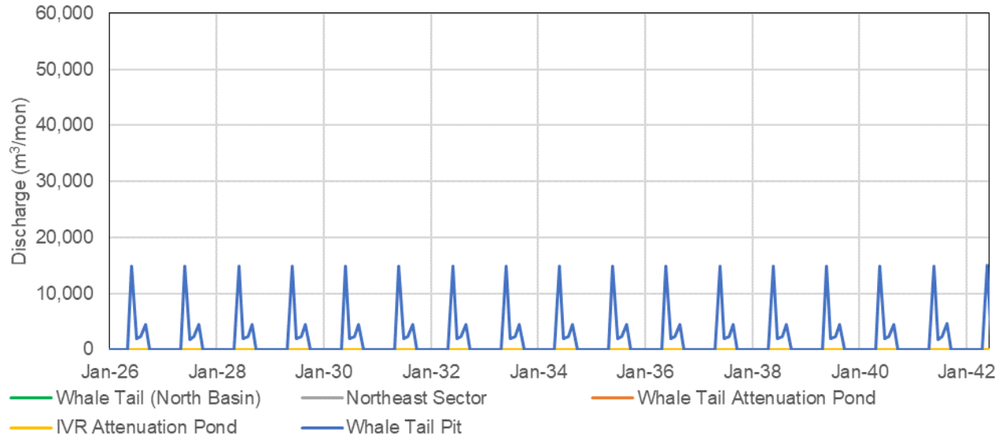

Figure 84: Outflows from the IVR WRSF Contact Water Collection System (Closure)

5.11.2 Changes from the FEIS Addendum

The most significant changes to inflows to the IVR WRSF are caused by the following:

- The primary difference in this update is the calculation of runoff and seepage from the WRSF. As explained in Section 4.0, the updated calculation method significantly reduces the generated runoff from the stockpile and sets the seepage to zero.
- The updated drainage area delineation results in a 16% higher local drainage area during operations (0.92 km^2 vs 0.788 km^2 previously). At closure, the contributing drainage area is 19% higher (0.977 km^2 vs 0.822 km^2 previously).

By the end of operations, there is 225,700 m^3 (40%) less runoff from the IVR WRSF than previously predicted (336,200 m^3 vs. 560,850 m^3). For closure, the cumulative runoff is 72% less (739,700 m^3 vs. 2,623,900 m^3). (Figure 85).

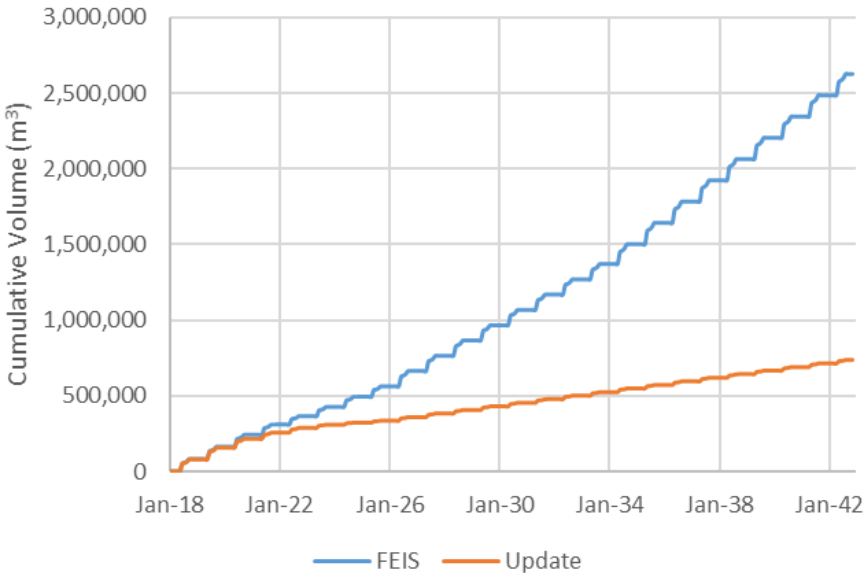

Figure 85: Comparison of Cumulative Inflows to the IVR WRSF under the FEIS Addendum and the Current Water Balances

5.12 East Sector / IVR Attenuation Pond

5.12.1 Catchment Characteristics and Water Management

The East Sector, inclusive of the Lake A53 catchment, is located east of Whale Tail Lake. The catchment remains at baseline conditions until 2022, when it becomes the IVR Attenuation Pond following fishout, construction of the IVR Attenuation Pond Dike, and dewatering of Lake A53. Its outlet drains naturally to Whale Tail Lake (North Basin) in 2018, after which its flow is diverted to Whale Tail Lake (South Basin) from 2019 to 2022. The IVR Attenuation Pond is operational by freshet 2022. The IVR Attenuation Pond is intended to manage all contact water from 2022 to closure while discharging through the O-WTP during open water conditions. At closure, it is drawn down by pumping to the Underground Mine, is backfilled with NML/NPAG waste rock to decrease its storage to zero and its

natural drainage patterns are re-established towards Whale Tail Lake (North Basin) via the Whale Tail Attenuation Pond.

An overview of the catchment, along with drainage pathways, is provided in Figure 86.

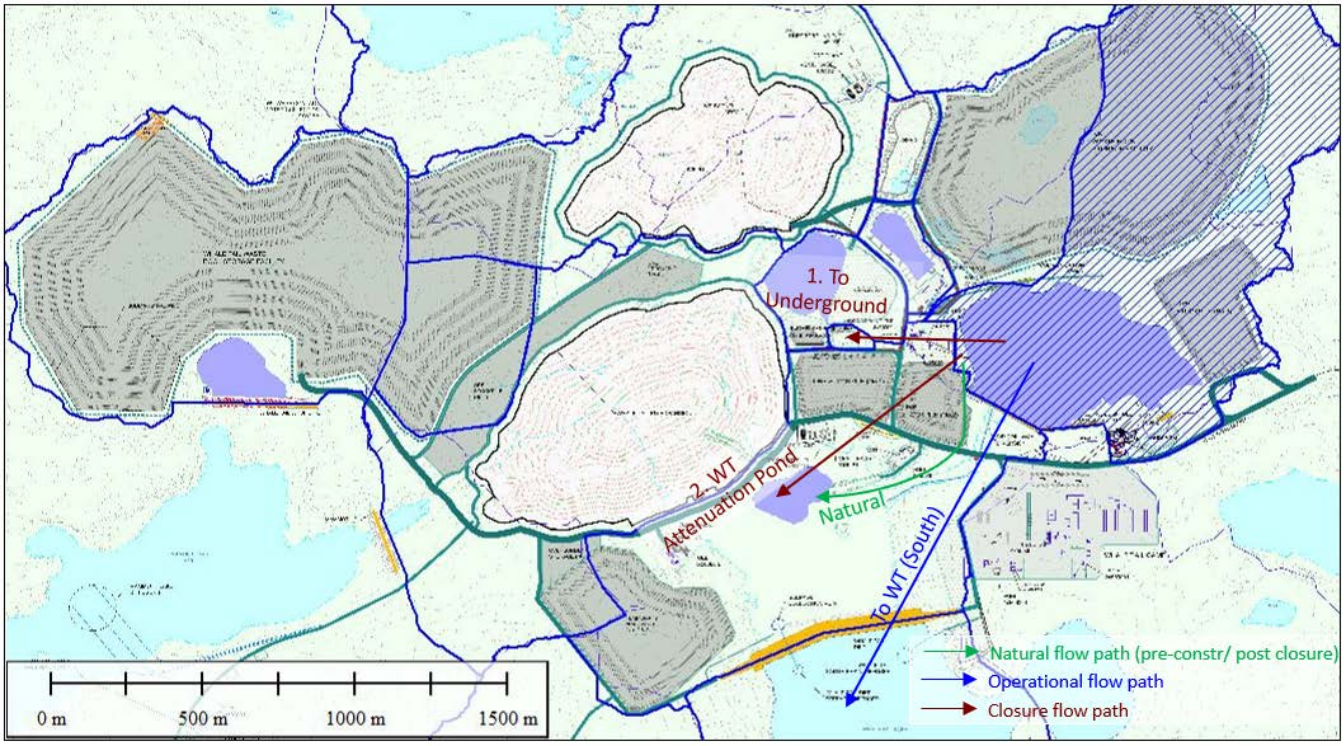

Figure 86: East Sector / IVR Attenuation Pond Catchment Overview

Storage characteristics are summarized in Table 29. Drainage areas of the IVR Attenuation Pond are summarized in Figure 87.

The East Sector / IVR Attenuation Pond has a drainage area of 1.32 km^2 at baseline. Its local drainage area diminishes with the increasing IVR WRSF footprint. Contributing catchments include those from the Whale Tail WRSF Contact Water Collection System, the North Sump, the Whale Tail Attenuation Pond, the Whale Tail Pit, the IVR Pit and the IVR WRSF Contact Water Collection System resulting in a total drainage area of 6.48 km^2 during operations. At closure, its drainage area consists of its local drainage area of 0.86 km^2.

Table 29: Storage Characteristics (East Sector / IVR Attenuation Pond)

Snapshot	Contributing Drainage Area (km^2)	Operating Level		Capacity	
		Water Surface Elevation (masl)	Storage (m^3)	Water Surface Elevation (masl)	Storage (m^3)
Baseline to 2022	1.32	161.73	154,735	161.73	154,735
2022 to Closure	6.48	157.75 to 163.9	534,819	163.9	534,819
Closure to Post-Closure	0.86	161.73	0	161.73	0

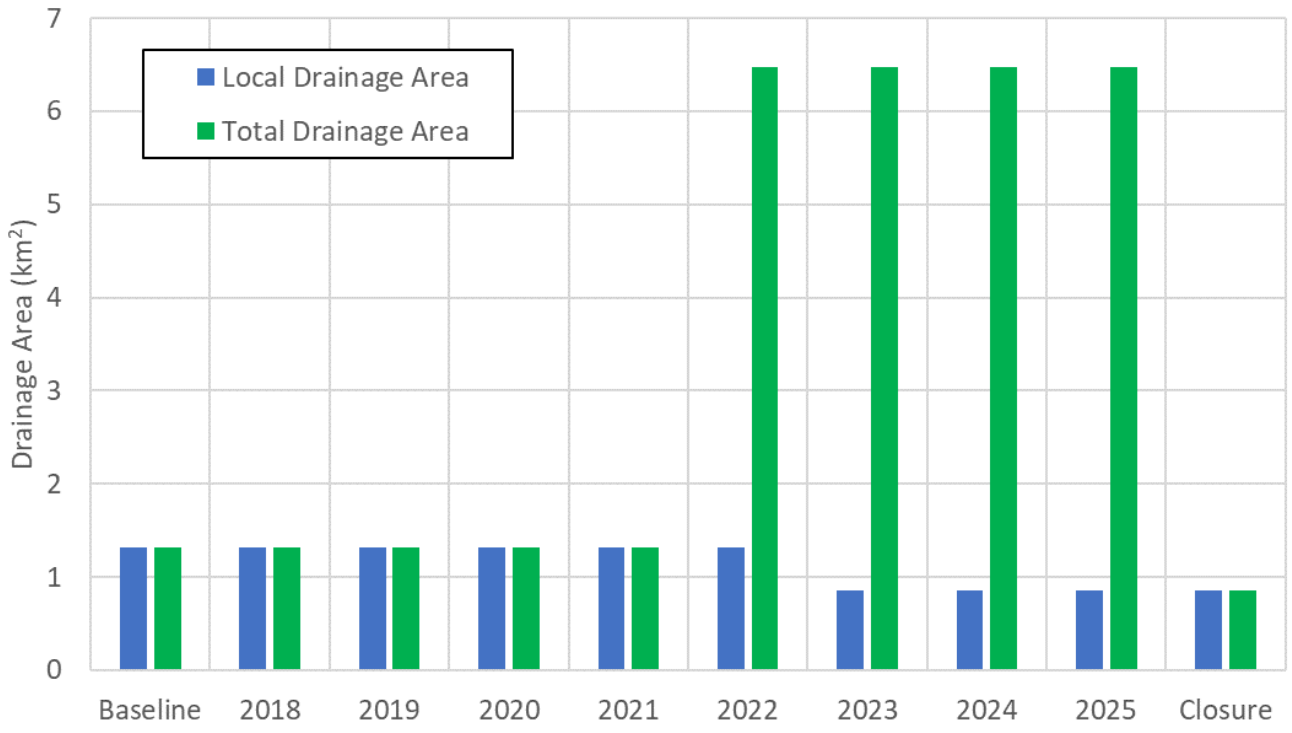

Figure 87: Drainage Area Progression through the Project (East Sector / IVR Attenuation Pond)

5.12.2 Water Balance

Inflows and outflows are summarized in Table 30, and presented in tabular form in Appendix F.

Table 30: Water Balance Flow Components (East Sector / IVR Attenuation Pond)

Figure	Flow Component	Flow Type	Start	End	Note / Comment
INFLOWS					
■ Figure 88 (Construction / Operations) ■ Figure 89 (Closure)	■ Natural direct and indirect runoff	■ Natural drainage	■ 2018	■ Post-Closure	■ Runoff volumes are expected to be inversely proportional to the footprint of the IVR WRSF encroaching on the East Sector / IVR Attenuation catchment until 2025.
	■ Runoff from the landfarm located in the watershed	■ Natural drainage	■ 2018	■ Post-Closure	■ Runoff volumes are expected to be constant.
	■ Runoff from Whale Tail Ore Stockpile No. 3 located in the watershed	■ Natural drainage	■ 2022	■ Post-Closure	■ Runoff volumes are expected to be constant.
	■ Camp biodisk and truck shop inflows	■ Pump / Pipeline	■ 2022	■ Closure	■ Runoff volumes are expected to be constant.
	■ Discharge from the Whale Tail Attenuation Pond	■ Pump / Pipeline	■ 2022	■ Closure	■ Runoff volumes are expected to be greater in 2022 to reduce the water level in the Whale Tail Attenuation and constant on annual basis thereafter.
	■ Discharge from the IVR Pit	■ Pump / Pipeline	■ 2022	■ Closure	■ Annual volumes expected to be constant.
	■ Runoff from the IVR WRSF	■ Pump / Pipeline	■ 2022	■ Closure	■ Runoff volumes are expected to be proportional to the footprint of the IVR WRSF increasingly encroaching on the East Sector / IVR Attenuation catchment until 2025.
	■ Runoff from the North Sump	■ Pump / Pipeline	■ 2022	■ Closure	■ Annual runoff volumes expected to be constant.
	■ Runoff from the Whale Tail Pit	■ Pump / Pipeline	■ 2022	■ Closure	■ Annual runoff volumes expected to be constant.
	■ Runoff from Whale Tail WRSF	■ Pump / Pipeline	■ 2022	■ Closure	■ Annual runoff volumes expected to be constant.
OUTFLOWS					
■ Figure 90 (Construction / Operations) ■ Figure 91 (Closure)	■ Evaporation	■ n/a	■ 2018	■ Post-Closure	■ Evaporative losses are expected to be proportional to the water surface elevation in Lake A53 / IVR Attenuation Pond
	■ Runoff to Whale Tail Lake (North Basin)	■ Natural drainage	■ 2018 ■ Closure	■ 2019 ■ Post-Closure	■ Runoff following natural drainage patterns prior to the diversion to Whale Tail Lake (South Basin), and during closure.
	■ Runoff to Whale Tail Lake (South Basin)	■ Channel	■ 2019	■ 2022	■ Runoff diversion to Whale Tail Lake (South Basin) starting during the dewatering of Whale Tail Lake (North Basin) and ending once the IVR Attenuation Pond becomes operational.
	■ Drawdown and runoff diversion bypassing the O-WTP	■ Pump / Pipeline	■ 2022	■ 2022	■ Drawdown of 66% of Lake A53 to Whale Tail Lake (South Basin) assumed not to require treatment, following fishout and prior to operations of the IVR Attenuation Pond in April 2022.
	■ Runoff diversion to the O-WTP	■ Pump / Pipeline	■ 2022	■ Closure	■ Drawdown of 34% of the Lake A53 to Whale Tail Lake (South Basin) prior to operations of the IVR Attenuation Pond in May 2022. ■ Diversion to the O- WTP during open water conditions.
	■ Drawdown to the Underground Mine	■ Pump / Pipeline	■ Start of closure	■ Start of closure	■ Pumping of the IVR Attenuation Pond to the underground mine prior to backfilling with NML/NPAG waste rock at the start of closure.

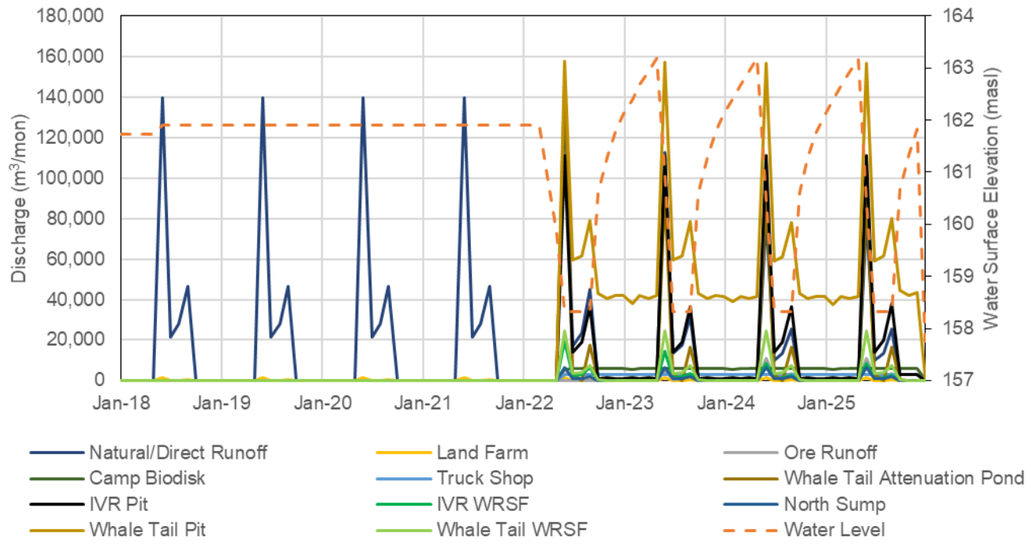

Figure 88: Inflows to the East Sector / IVR Attenuation Pond (Construction and Operations)

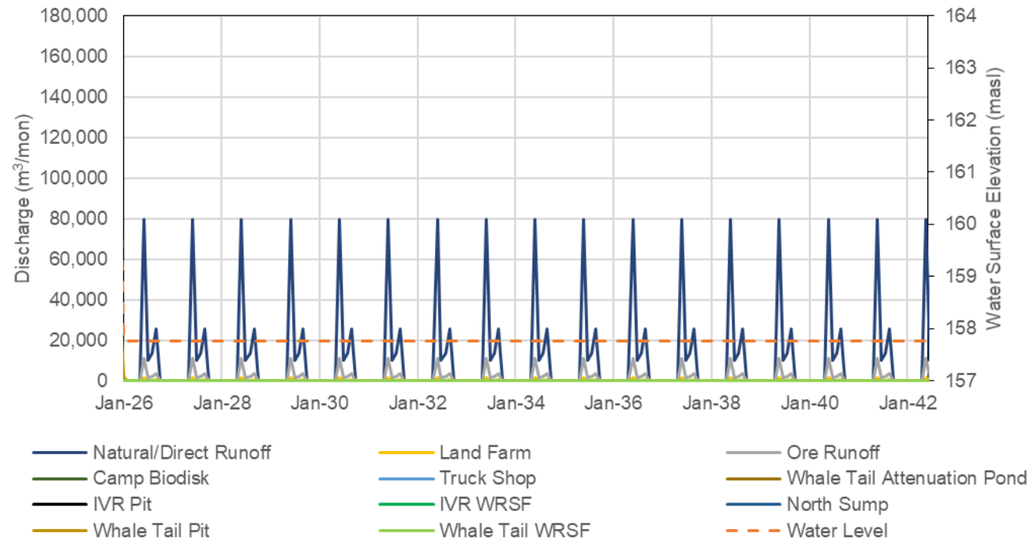

Figure 89: Inflows to the East Sector / IVR Attenuation Pond Area (Closure)

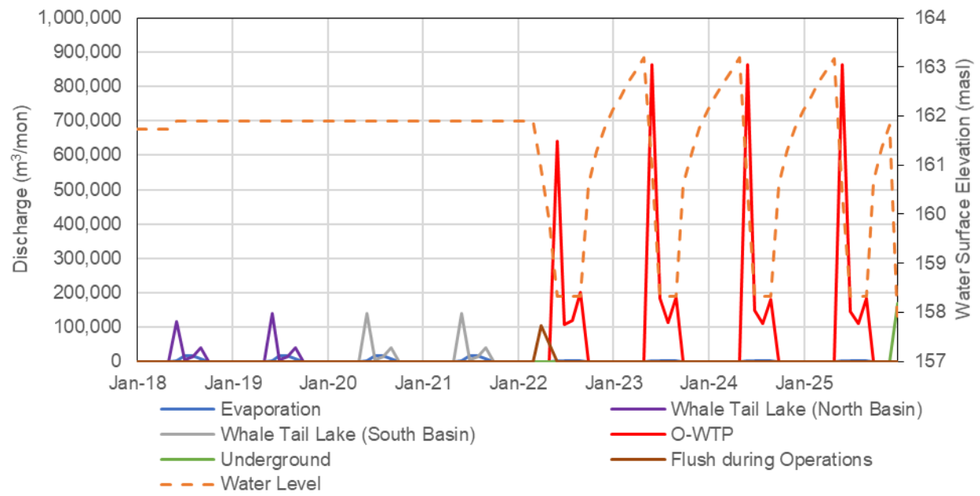

Figure 90: Outflows from the East Sector / IVR Attenuation Pond (Construction and Operations)

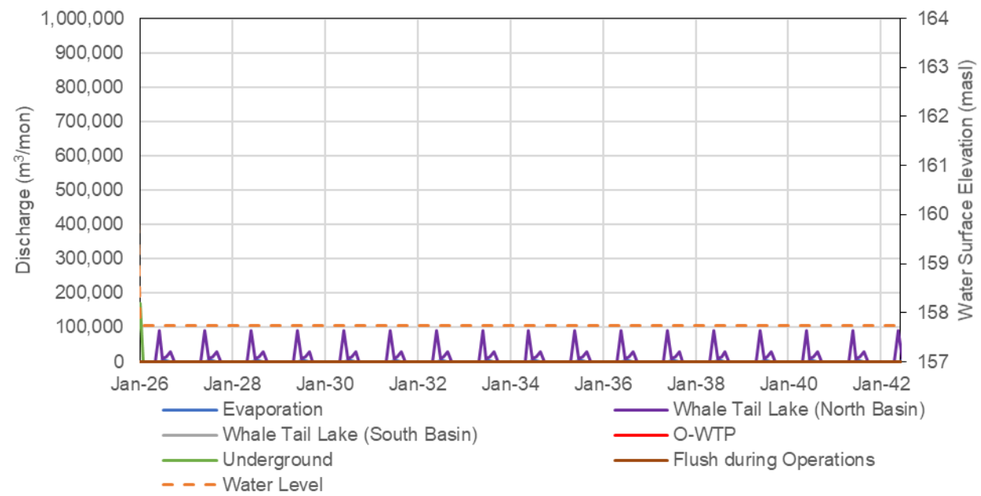

Figure 91: Outflows from the East Sector / IVR Attenuation Pond Area (Closure)

5.12.3 Changes from the FEIS Addendum

The most significant changes to inflows to the IVR Attenuation Pond are caused by the following:

- The updated drainage area delineation results in a 2.5% smaller local drainage area before 2022 (1.32 km^2 vs 1.35 km^2 previously). From 2022 to closure, the total contributing drainage is 0.9% larger (6.48 km^2 vs 6.42 km2 previously). At closure, the local drainage area is approximately 14% smaller (0.86 km^2 vs 1.00 km^2 previously).
- WRSF Inflows. Runoff from the watersheds containing WRSFs are significantly reduced due to the updated calculation of runoff and seepage from the WRSFs.
- Consumptive flows. The camp flows are substantially higher (192 m^3/day vs 77.8 m^3/day previously).

The change in runoff prior to 2022 is due solely to the updated area delineation and is less than 1% (950,900 m^3 vs. 966,750 m^3 previously). By the end of operations, however, the reduction of inflow due to the runoff from the WRSFs is slightly offset by the increase in consumptive flows. The resulting cumulative inflow is 8% lower (6,143,800 m^3 vs. 6,670,250 m^3). During closure, the consumptive flows are no longer required. By 2042, there is a 10% decrease in the cumulative inflows (8,666,450 m^3 vs. 9,599,300 m^3) (Figure 92).

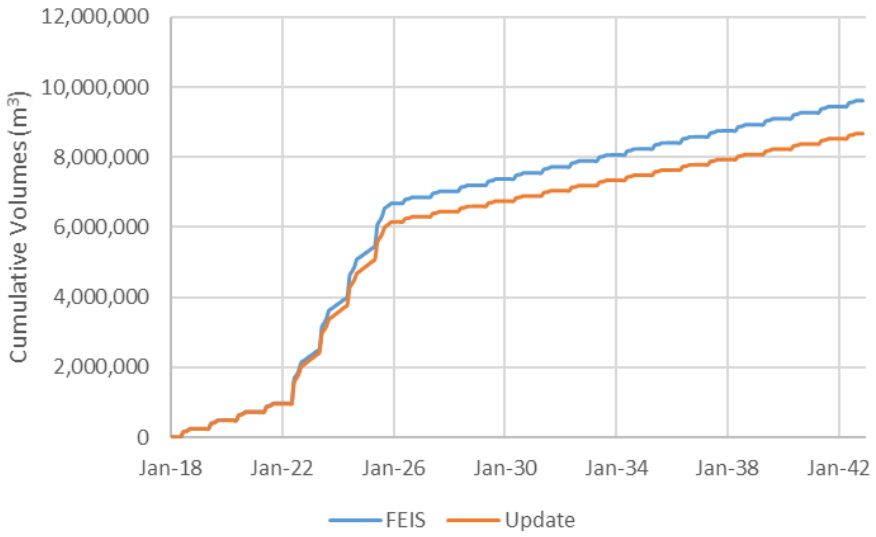

Figure 92: Comparison of Cumulative Inflows to the IVR Attenuation Pond under the FEIS Addendum and the Current Water Balances

5.13 Whale Tail Lake (South Basin)

5.13.1 Catchment Characteristics and Water Management

Whale Tail Lake (South Basin) is located south of and adjacent to the proposed Whale Tail Dike. Whale Tail Lake (South Basin) is 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 Lake A16 (Mammoth Lake) watershed via an engineered channel during operations. From June 2021 to closure, Whale Tail Lake (South Basin) receives effluent from the O-WTP.

At the end of operations and into closure, the water level in the South Basin is lowered permanently to 153.5 masl (i.e., one metre above baseline level) by pumping the flooded volume into the Underground Mine and the IVR Pit. This water level is permanently maintained. During closure, water level is maintained by pumping from Whale Tail Lake (South Basin) into Whale Tail Lake (North Basin). Post-closure, the Mammoth Dike and the Whale Tail Dike are decommissioned to re-establish natural drainage patterns in Whale Tail Lake. Whale Tail Lake then flows to Lake A16 (Mammoth Lake) via the Mammoth sill.

An overview of the sector, along with its natural drainage pattern and operational pathways, is provided in Figure 93.

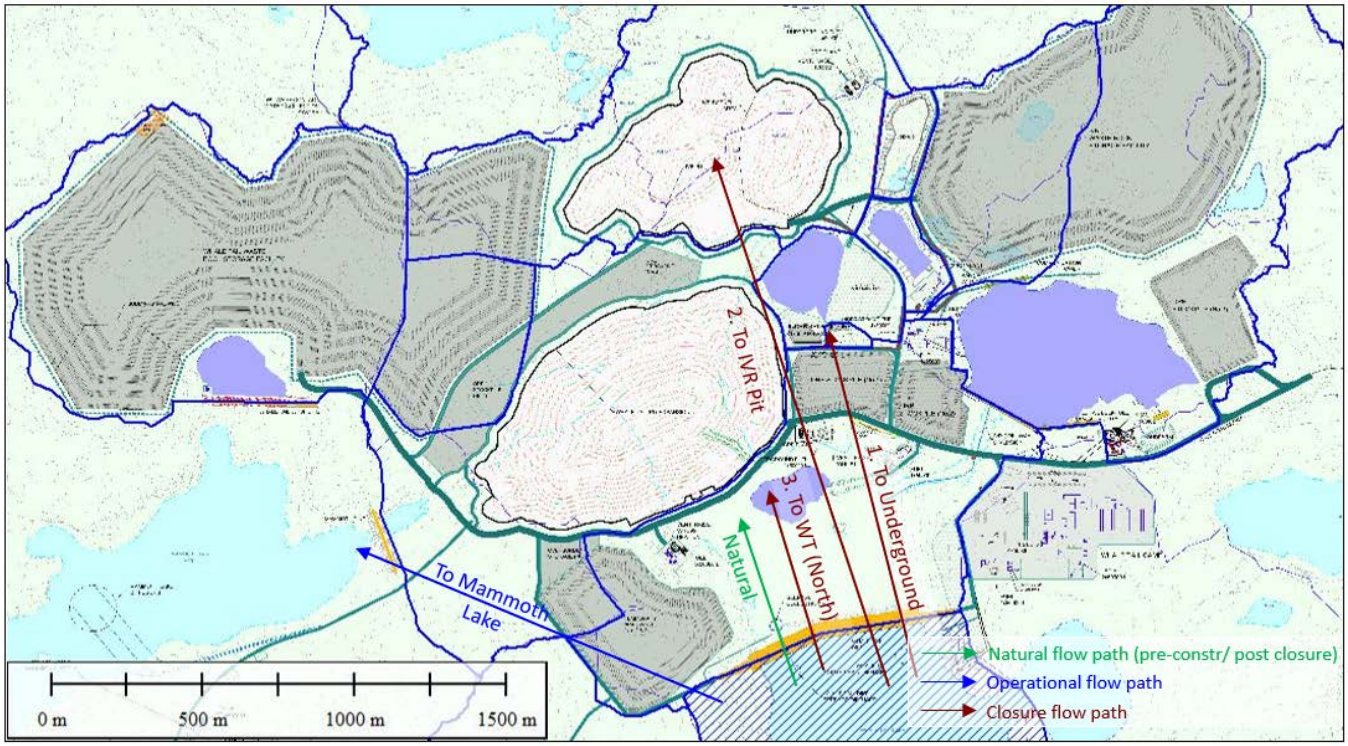

Figure 93: Whale Tail Lake (South Basin) Catchment Overview

Storage characteristics are summarized in Table 31. Drainage areas of Whale Tail Lake (South Basin) are summarized in Figure 94. 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 diversion of the East Sector to Whale Tail Lake (South Basin) from2019 to 2021). From 2021 to closure, the drainage area is augmented by treated flows from first the Whale Tail Attenuation Pond (2021 only) and then the IVR Attenuation Pond (via the O-WTP).

Table 31: Storage Characteristics (Whale Tail Lake [South Basin])

Snapshot	Drainage Area (km^2)	Operating Level		Capacity	
		Water Surface Elevation (masl)	Storage (m^3)	Water Surface Elevation (masl)	Storage (m^3)
Baseline	22.3	152.50	4,597,768	152.50	4,597,768
Construction to Closure	22.3 to 28.8	156.00	11,832,960	156.00	11,832,960
Closure to Post-Closure	22.3	153.50	5,547,803	153.50	5,547,803

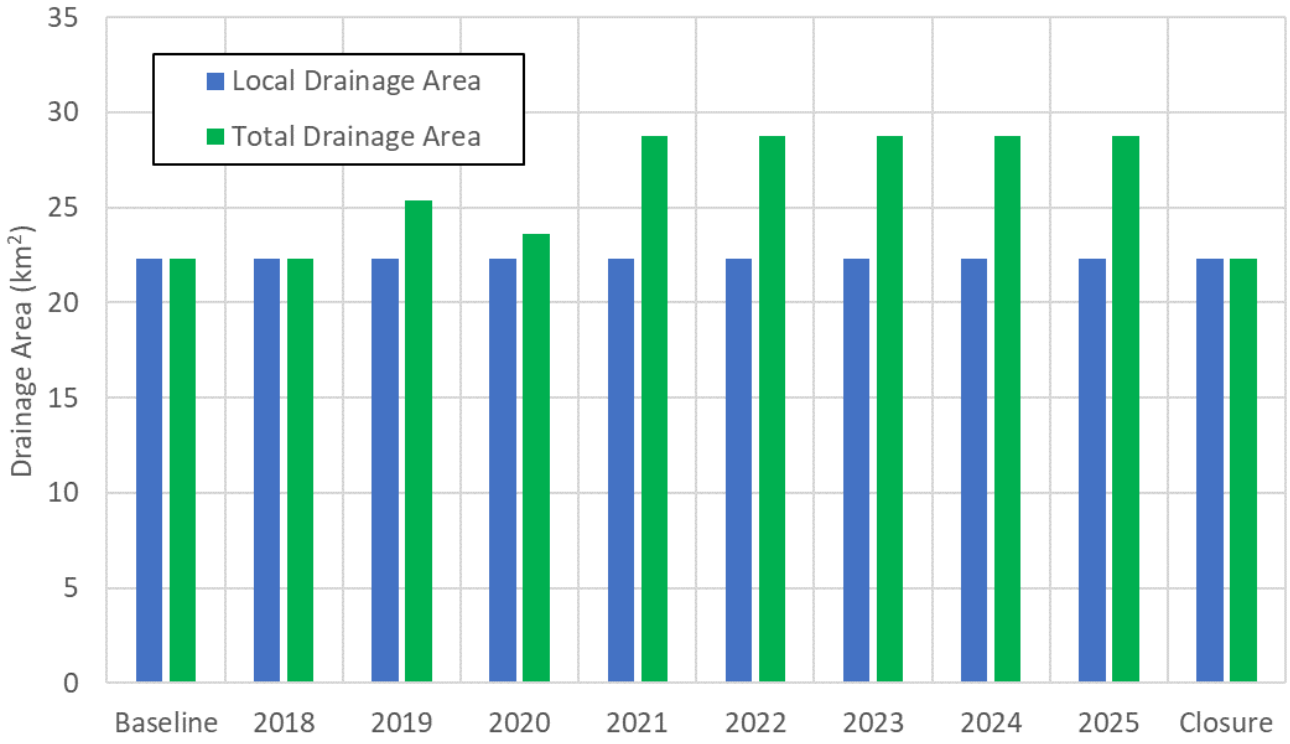

Figure 94: Drainage Area Progression through the Project (Whale Tail Lake [South Basin])

5.13.2 Water Balance

Inflows and outflows are summarized in Table 32, and presented in tabular form in Appendix F.

Table 32: Water Balance Flow Components (Whale Tail Lake [South Basin])

Figure	Flow Component	Flow Type	Start	End	Note / Comment
INFLOWS					
■ Figure 95 (Construction / Operations) ■ Figure 96 (Closure)	■ Runoff from natural areas	■ Natural drainage	■ 2018	■ Post-Closure	■ Runoff volumes are proportional to the lake surface area of Whale Tail Lake (South Basin). ■ Runoff volumes include those from tributary lakes when they become part of the flooded area of Whale Tail Lake (South Basin).
	■ Runoff from tributary Lakes A18, A55, A60, A62, and A65	■ Natural drainage	■ 2018	■ Post-Closure	■ Runoff volumes of tributary lakes are included in runoff volumes of Whale Tail Lake (South Basin) when they become part of the flooded area of Whale Tail Lake (South Basin), as noted above.
	■ Runoff diversion from the East Sector	■ Channel	■ 2019	■ 2022	■ Runoff diversion from the Lake A53 watershed until the IVR Attenuation Pond becomes operational. ■ 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) through Whale Tail Lake (South Basin) from March to May 2019.
	■ Discharge from Whale Tail Attenuation Seepage Well	■ Pump / Pipeline	■ 2020	■ Closure	■ Discharge from the Whale Tail Attenuation Pond Seepage Pumping Station operational by 2020 and decommissioned by closure.
	■ Effluent discharge from the O-WTP	■ Pump / Pipeline	■ June 2021	■ Closure	■ The O-WTP discharges to Whale Tail Lake (South Basin) from June 2021 to closure.
OUTFLOWS					
■ Figure 97 (Construction / Operations) ■ Figure 98 (Closure)	■ Natural connection to Whale Tail Lake (North Basin)	■ Natural drainage	■ 2018	■ July 2018	■ Runoff to Whale Tail Lake (North Basin) following natural drainage patterns until construction of the Whale Tail Dike assumed to prevent runoff by July 2018.
	■ Evaporation	■ n/a	■ 2018	■ Post-Closure	■ Evaporative losses proportional to the lake surface area of Whale Tail Lake (South Basin).
	■ Drilling Water	■ Pump / Pipeline	■ 2018	■ Sep 2018	■ Drilling water until the water intake at Lake C38 (Nemo Lake) becomes operational.
	■ Camp Use	■ Pump / Pipeline	■ 2018 ■ 2026	■ Sep 2018 ■ Post-Closure	■ Camp use until the water intake at Lake C38 (Nemo Lake) becomes operational. ■ Camp use during closure.
	■ Truck Use	■ Pump / Pipeline	■ 2018	■ Sep 2018	■ Truck use until the water intake at Lake C38 (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 Lake A16 (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 Lake A16 (Mammoth Lake) by June 2020 until closure.
	■ Drawdown to the Underground Mine and IVR Pit	■ Pump / Pipeline	■ 2026	■ WTS drawn down	■ Drawdown of Whale Tail Lake (South Basin) from 156.0 masl at the start of closure to 153.5 masl by October 2026. ■ Drawdown through the Underground Mine until it is refilled and through IVR Pit thereafter.
	■ Runoff diversion to IVR Pit	■ Pump / Pipeline	■ 2027	■ Post-Closure	■ Runoff diversion from Whale Tail Lake (South Basin) to maintain water surface elevations at 153.5 masl, to the IVR Pit. ■ Annual runoff volumes are expected to be constant.

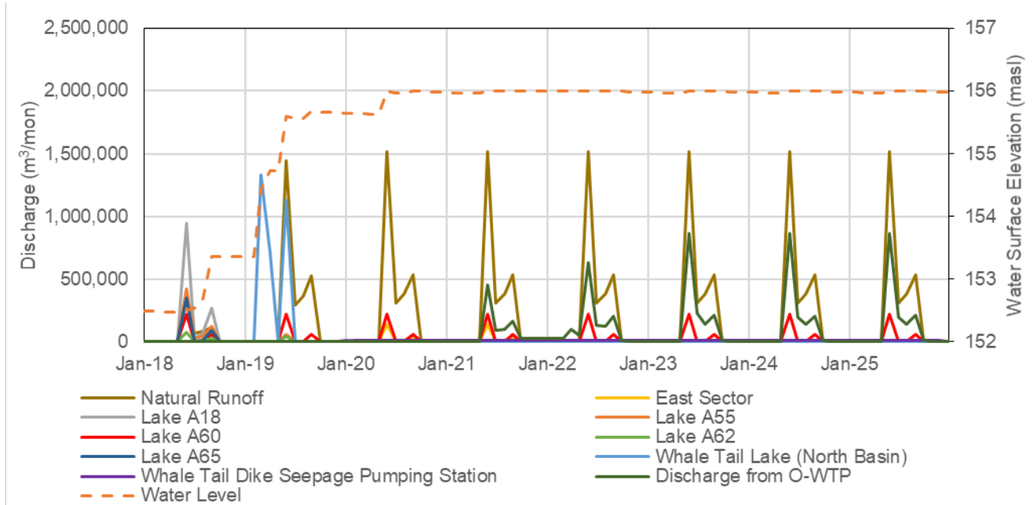

Figure 95: Inflows to Whale Tail Lake (South Basin) (Construction and Operations)

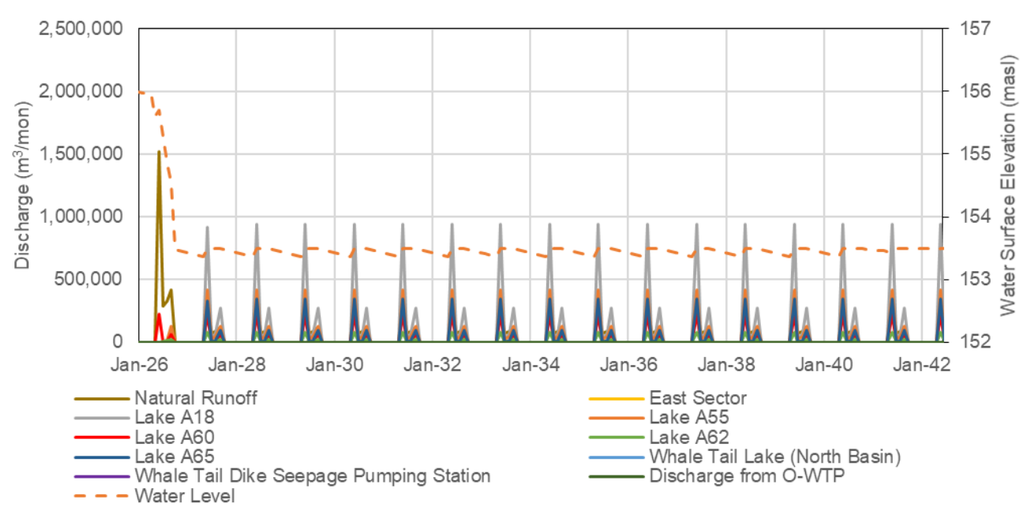

Figure 96: Inflows to Whale Tail Lake (South Basin) (Closure)

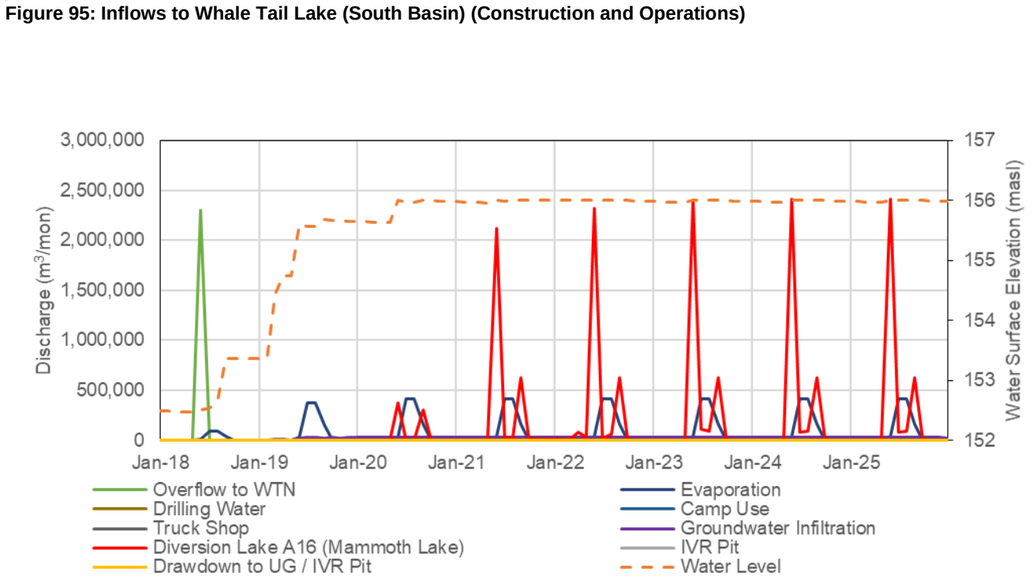

Figure 97: Outflows from Whale Tail Lake (South Basin) (Construction and Operations)

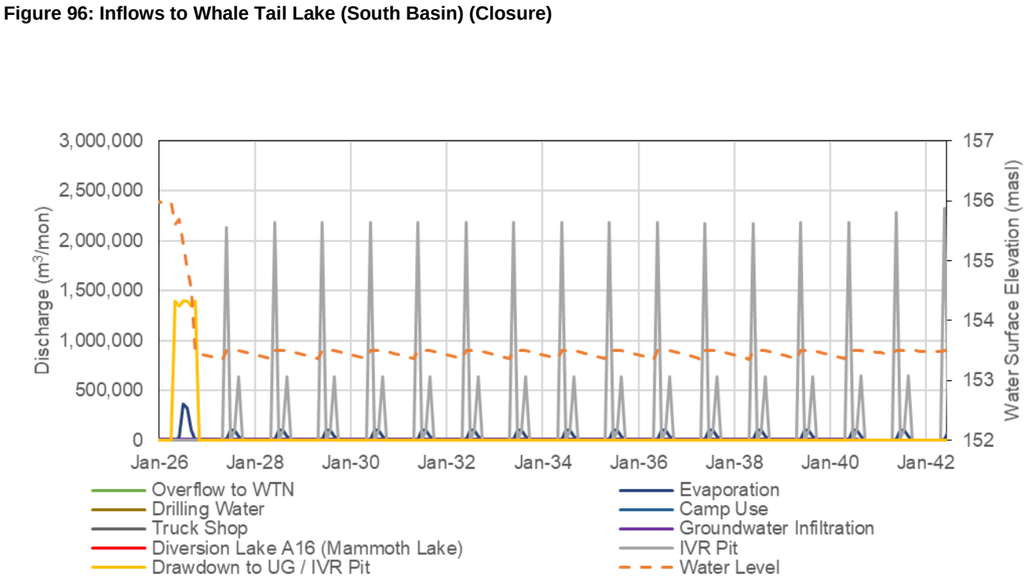

Figure 98: Outflows from Whale Tail Lake (South Basin) (Closure)

5.13.3 Changes from the FEIS Addendum

The most significant changes to inflows to Whale Tail Lake (South Basin) are caused by the following:

- The updated drainage area delineation results in a 0.3% larger local drainage area during operations (28.8 km^2 vs 28.7 km^2 previously).
- Impact of all changes in the previously described drainage areas that eventually report to Whale Tail Lake (South Basin) via the treatment plants.

The change in inflow during operations prior to 2025 is approximately 2% smaller than previously reported (35,335,650 m^3 vs. 36,207,500 m^3 previously). During closure, the impact of site drainage areas is no longer a consideration. By 2042, the difference reduces to under 1% (92,849,350 m^3 vs. 93,452,650 m^3) (Figure 99).

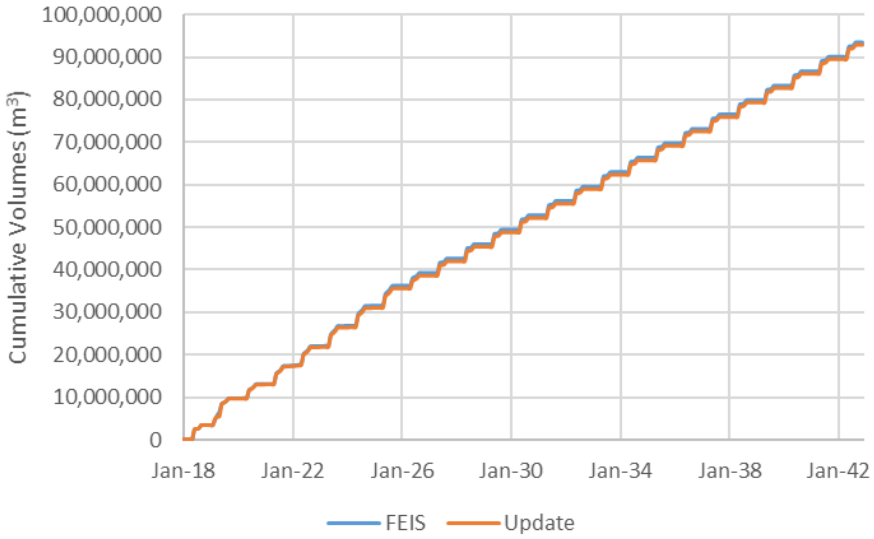

Figure 99: Comparison of Cumulative Inflows to Whale Tail Lake (South Basin) under the FEIS Addendum and the Current Water Balances

5.14 Water Treatment Plants: Treatment Requirement Summary

This section summarizes water treatment requirements identified in previous sections. All water treatment plant designs (type of treatment units, water treatment capacity and flow rate, treated water quality and sludge/brine characteristics) are provided by Agnico Eagle (2018b).

Inflows and outflows are summarized in Table 33, and presented in tabular form in Appendix F.

Table 33: Water Balance Flow Components (Water Treatment Plants)

Figure	Flow Component	Flow Type	Start	End	Note / Comment
O-WTP for TSS removal (non-contact water)					
■ Figure 100 (Inflows) ■ Figure 104 (Outflows)	■ Drawdown from Whale Tail Lake (North Basin)	■ Pump / pipeline	■ April 2019	■ May 2019	■ Drawdown of last third of the volume (34% or approximately 1,100,000 m^3) of Whale Tail Lake (North Basin) via the O-WTP. The first two-thirds of the volume is presumed free of suspended solids and is discharged directly to Whale Tail Lake South Basin.
O-WTP for TSS and arsenic removal					
■ Figure 101 (Inflows) ■ Figure 104 (Outflows)	■ Discharge from Quarry 1	■ Pump / pipeline	■ June 2019	■ June 2019	■ Drawdown of Quarry 1 to Lake A16 (Mammoth Lake) via the O- WTP once available in March 2019. ■ Drawdown volume is expected to be approximately 237,250 m^3.
	■ Discharge from the Whale Tail Attenuation Pond	■ Pump / pipeline	■ 2019	■ 2022	■ Discharge of collected water to Lake A16 (Mammoth Lake) until May 2021 and to Whale Tail Lake (South Basin) from June 2021 until May 2022 via the O-WTP during open water conditions. ■ Total treated volume is expected to be approximately 2,573,500 m^3.
	■ Discharge from GSP-1	■ Pump / pipeline	■ Jun 2020	■ Jun 2020	■ Drawdown of GSP-1 to Lake A16 (Mammoth Lake) via the O- WTP in June 2020. ■ Drawdown volume is expected to be approximately 237,700 m^3 ■ Intended to prevent untreated overflow of GSP-1 to the receiving environment and dilution of high salinity waters.
	■ Drawdown from Lake A53	■ Pump / pipeline	■ May 2022	■ May 2022	■ Drawdown of last third of the volume (34% or approximately 51,600 m^3) of Lake A53 to Whale Tail Lake (South Basin) prior to operations of the IVR Attenuation Pond in May 2022. This water is expected to require TSS control only but is run through the O-WTP as well. The first two-thirds of the volume is presumed free of suspended solids and is discharged directly to Lake A16 (Mammoth Lake).
	■ Runoff diversion from the Northeast Sector	■ Pump / pipeline	■ 2019	■ July 2020	■ Runoff diversion to Lake A16 (Mammoth Lake) once the Whale Tail Dike is operational and until the IVR Pit is initiated. This water is expected to require TSS control only but is run through the O-WTP as well.
	■ Diversion from the IVR Attenuation Pond	■ Pump / pipeline	■ 2022	■ Closure	■ Diversion to Whale Tail Lake (South Basin) during open water seasons via the O-WTP.
S-WTP (brine) Unit					
■ Figure 102 (Inflows) ■ Figure 104 (Outflows)	■ Discharge from GSP-1	■ Pump / pipeline	■ 2022	■ Closure	■ Treatment at a rate of 60 m^3/day in 2022. ■ Treatment at a rate of 90 m^3/day from 2023 to closure. ■ Treated water (permeate) is discharged to Whale Tail Lake (South Basin).
S-WTP (brackish) Unit					
■ Figure 103 ■ (Inflows) ■ Figure 104 (Outflows)	■ Discharge from the Whale Tail Attenuation Pond	■ Pump / pipeline	■ Winter 2020 - 2021	■ Winter 2021 - 2022	■ Diversion of collected water to Lake A16 (Mammoth Lake) via the S-WTP (brackish) during winter only from October 2020 (i.e., when the treatment unit becomes operational) to April 2022 (i.e., when treatment is required for low salinity water from the Underground Mine). ■ Treatment at a maximum rate of 1,000 m^3 per day. ■ Resulting brine concentrate reject (assumed to be 15% of the treated volume) is conveyed to GSP-1. ■ Resulting permeate (assumed to be 85% of the treated volume) is conveyed to Lake A16 (Mammoth Lake) from October 2020 to May 2021 and to Whale Tail Lake (South Basin) from October 2021 to April 2022.
	■ Diversion from GSP-2	■ Pump / pipeline	■ 2022	■ Closure	■ Treatment at a maximum rate of 1,000 m^3 per day. ■ Resulting brine (assumed to be 15% of the treated volume) is conveyed to GSP-1. ■ Resulting permeate (assumed to be 85% of the treated volume) is discharged to Whale Tail Lake (South Basin).

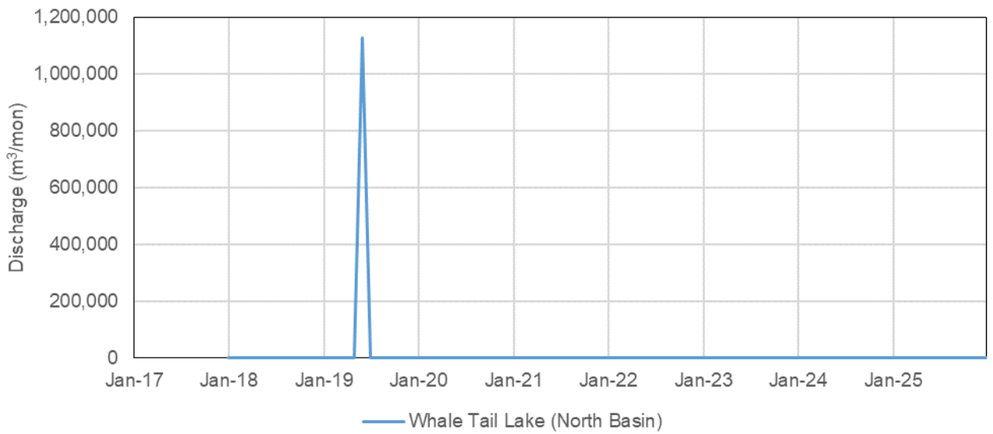

Figure 100: Non-Contact Water flows to the O-WTP (Construction and Operations)

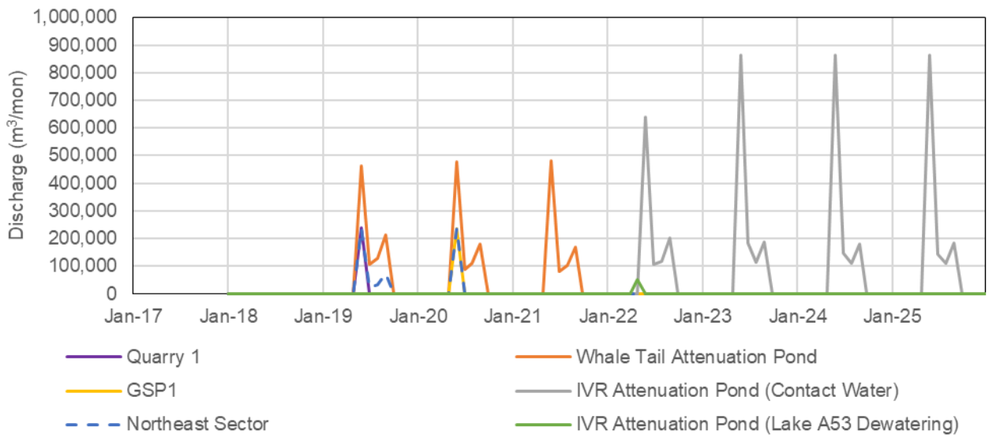

Figure 101: Contact Water Inflows to the O-WTP (Construction and Operations)

Figure 102: Inflows to the S-WTP (brine) Unit (Construction and Operations)

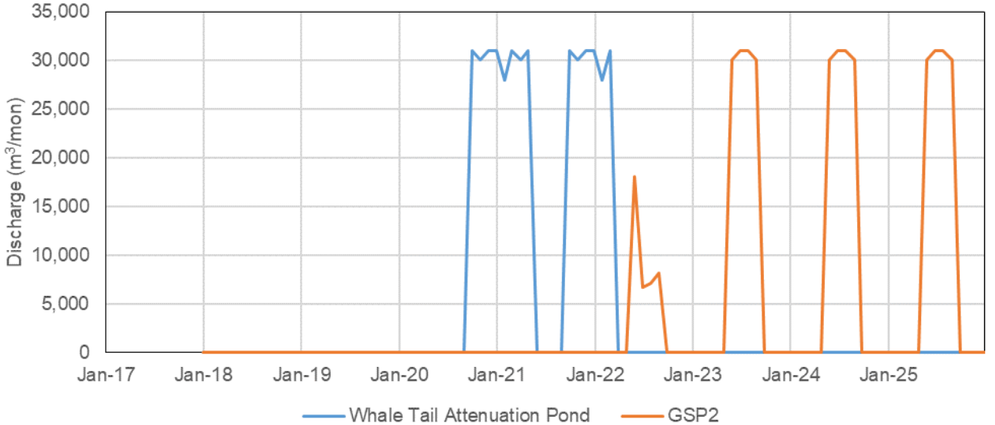

Figure 103: Inflows to the S-WTP (brackish) Unit (Construction and Operations)

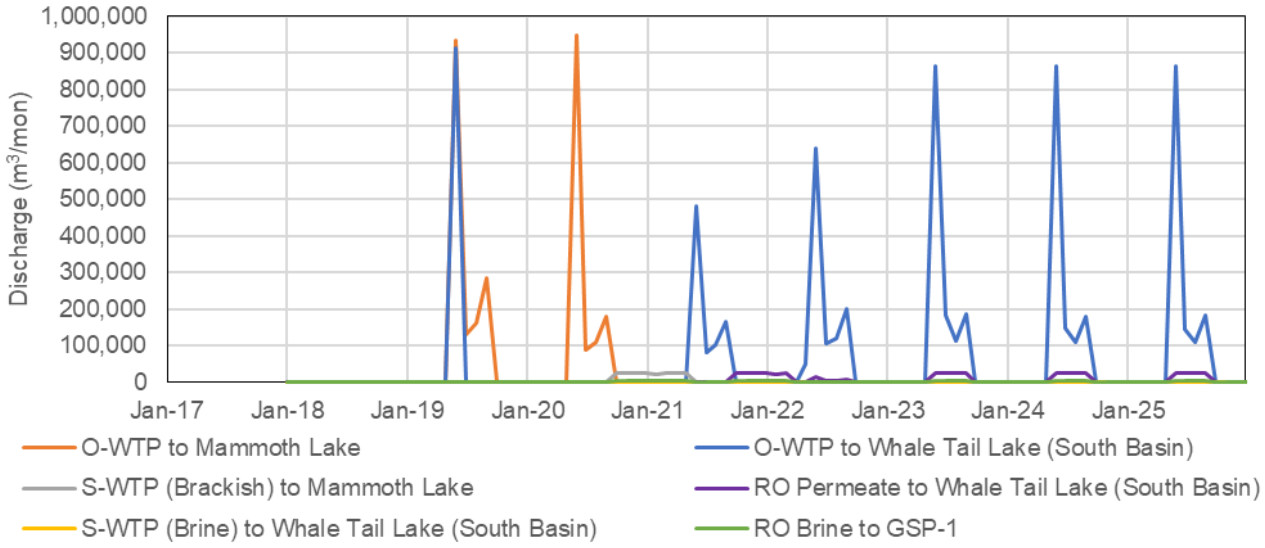

Figure 104: Outflows from the Water Treatment Plants

5.14.1 Changes from the FEIS Addendum

Changes to the treatment are an accumulation of all the upstream updates described above. The flows through the Project's treatment streams are summarized below, relative to the flows considered in the FEIS Addendum:

- O-WTP for TSS removal (non-contact water): Due to the change in the dewatering schedule (Section 4.0), there is a slight change in the fraction of the dewatering from the Whale Tail Lake (North Basin) that is sent to the O-WTP for TSS removal. The updated treated volume is 2% lower (1,128,350 m^3 vs. 1,150,300 m^3 previously).
- O-WTP for TSS and arsenic removal: Overall, there is less contact water pumped to the attenuation ponds that collect the surface water requiring treatment (primarily due to the reduction in runoff from the WRSFs – see Sections 5.5.3 and 5.12.3 for further details). As a result, there is a 5% reduction in contact water pumped to the O-WTP during operations (8,750,300 m^3 vs. 9,241,350 m^3 previously).
- S-WTP (brine) Unit: Flows to the S-WTP (brine) unit are pumped at a constant rate, which was not changed in this update. There is therefore no change in the flows from this unit.
- S-WTP (brackish) Unit: In addition to water from the underground, the S-WTP (brackish) treats runoff from the Whale Tail Attenuation Pond during the winters of 2021 and 2022. During this time, there is a 6% increase in the runoff pumped from the pond due to the increased camp flows described in Section 4.0. Flows from the Underground Mine are treated at a constant rate, which has not changed in this update. The overall inflow to the S-WTP (brackish) over operations is 831,000 m^3 (compared to 824,300 m^3 previously).

Overall, these updates result in a net 4% decrease in treatment (10,927,850 m^3 vs. 11,434,250 m^3 previously) over the operations period (Figure 105).

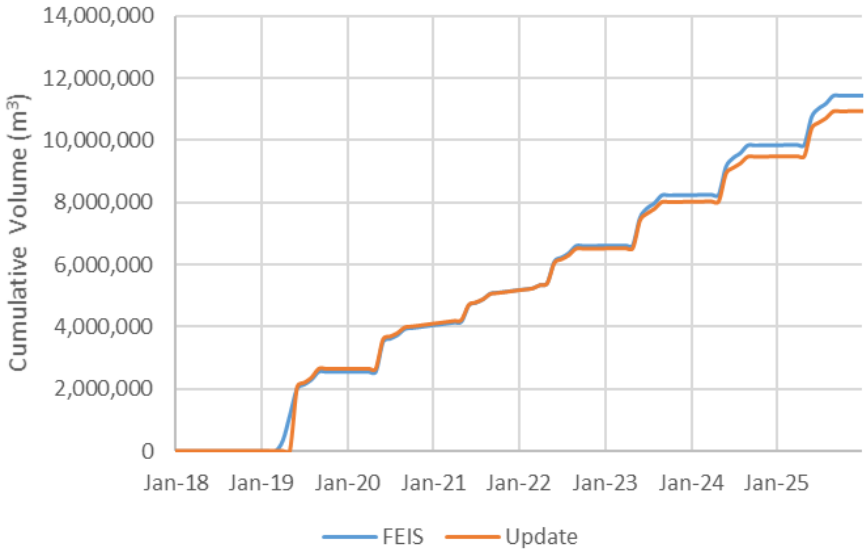

Figure 105: Comparison of Cumulative Inflows to Treatment under the FEIS Addendum and the Current Water Balances

5.15 Closure: Flooding of Open Pits, Underground Mine and Refilling of Whale Tail Lake (North Basin)

Mine closure is initiated after cessation of mining activities, in January 2026 until Whale Tail Lake (North Basin) reaches a water 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 106.

The refilling duration of Whale Tail Lake (North Basin) was estimated using the mean annual water balance based on the following assumptions:

- The Whale Tail Pit, IVR Pit, and Underground Mine are not hydraulically connected below the surface during the refilling period.
- Refilling of mining development is prioritized as follows:
  - Underground Mine;
  - IVR Pit; and,
  - Whale Tail Pit.
- The Underground Mine is refilled by local catchment runoff, drawdown of GSPs 1 and 2, IVR Attenuation Pond and partial drawdown of Whale Tail Lake (South Basin) to complete its flooding.
- The IVR Pit is refilled by local catchment runoff, runoff collected in the Whale Tail WRSF Contact Water Collection System, partial drawdown of Whale Tail Lake (South Basin), and diversion of runoff from Whale Tail Lake (South Basin) to maintain its closure water surface elevation (i.e., 153.5 masl).
- The Whale Tail Pit is refilled by local catchment runoff, runoff from the IVR WRSF Contact Water Management System, and overflow of the Whale Tail Attenuation Pond and of the IVR Pit. 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 2026 to 2042 (Figure 107) as follows:

- refilling of the Underground Mine expected to be completed in early 2026;
- refilling of the IVR Pit to 149.3 masl (i.e., the spill elevation of the IVR Pit onto the bed of Whale Tail Lake [North Basin]) expected in 2027;
- refilling of the Whale Tail Attenuation Pond and pit areas to the water surface elevation of 153.5 masl expected in 2042.
- Reconnection of the South Basin and North Basin will occur once water quality objectives are met within the flooded pit lake, currently predicted to occur in 2042 (Golder 2019a). 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 goals.

During this period, the total catchment area of Lake A16 (Mammoth Lake) will be reduced by 77% from 38.7 km^2 to 9.0 km^2, resulting in a proportional decrease in flows.

Elevation-storage-area relationships used for this estimate are provided in Appendices C and D.

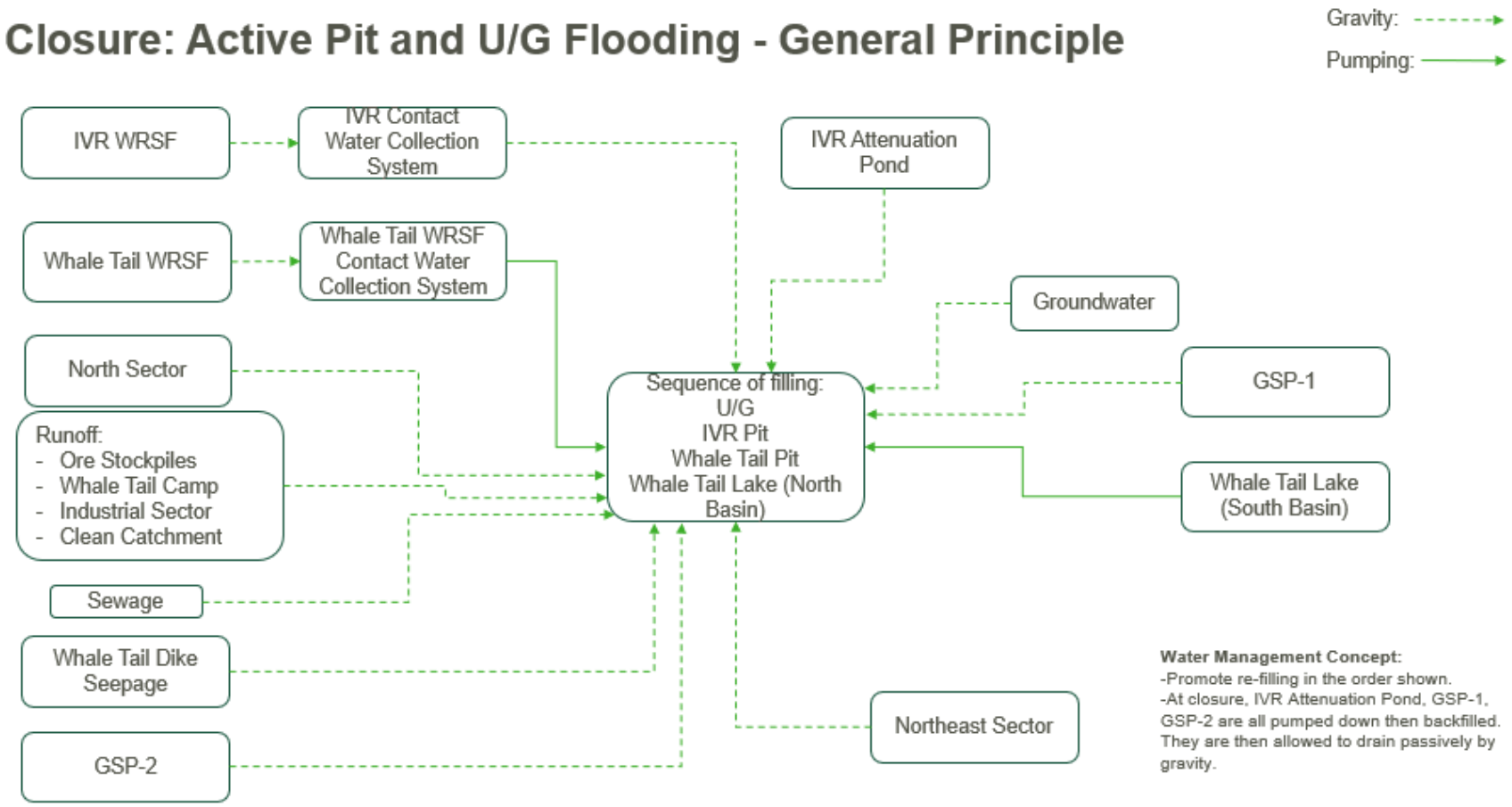

Figure 106: Mine Closure Period Flow Diagram – General Principle

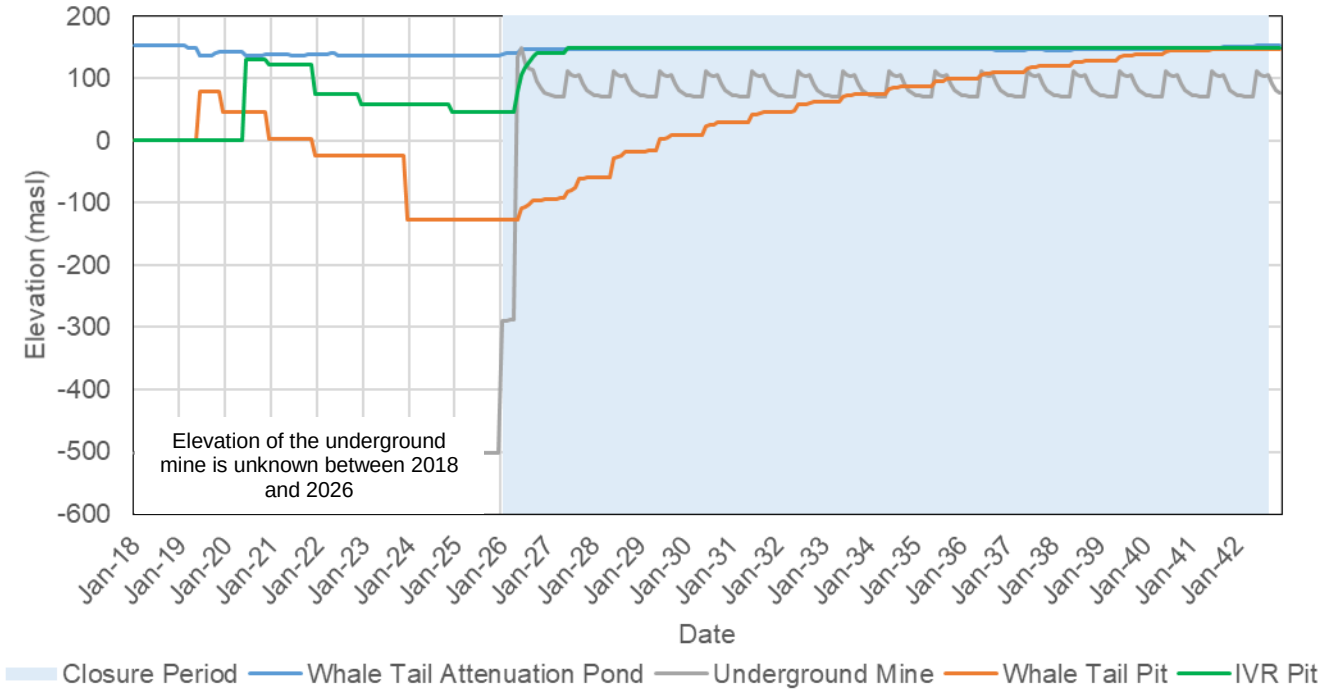

Figure 107: Refilling of Whale Tail Lake (North Basin) and Underground Mine

5.16 Post-Closure: Re-Establishment of Natural Drainage Patterns

Following refilling of Whale Tail Lake (North Basin) to 153.5 masl (i.e., to overtop the Mammoth Lake sill), and once the pit lake water quality is acceptable (full flooding predicted to occur in 2042; adequate water quality in 2042; Golder 2019a), the Whale Tail Dike, Mammoth Dike, and the Whale Tail WRSF Dike are decommissioned. Whale Tail Lake (North Basin) and Whale Tail Lake (South Basin) form Whale Tail Lake with a water surface area of 2.34 km^2, or a 41% increase from baseline, which flows to Lake A16 (Mammoth Lake) over the Mammoth Lake Dike via spillway. Runoff from the Whale Tail WRSF Contact Water Collection System area flows to Lake A16 (Mammoth Lake).

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

The configuration of Whale Tail Lake at Post-Closure, along with permanent drainage pathways, is shown in Figure 108. Water balance components are presented in Section 5.8 (Whale Tail Lake) and in Section 5.5 (Whale Tail WRSF Contact Water Collection System area).

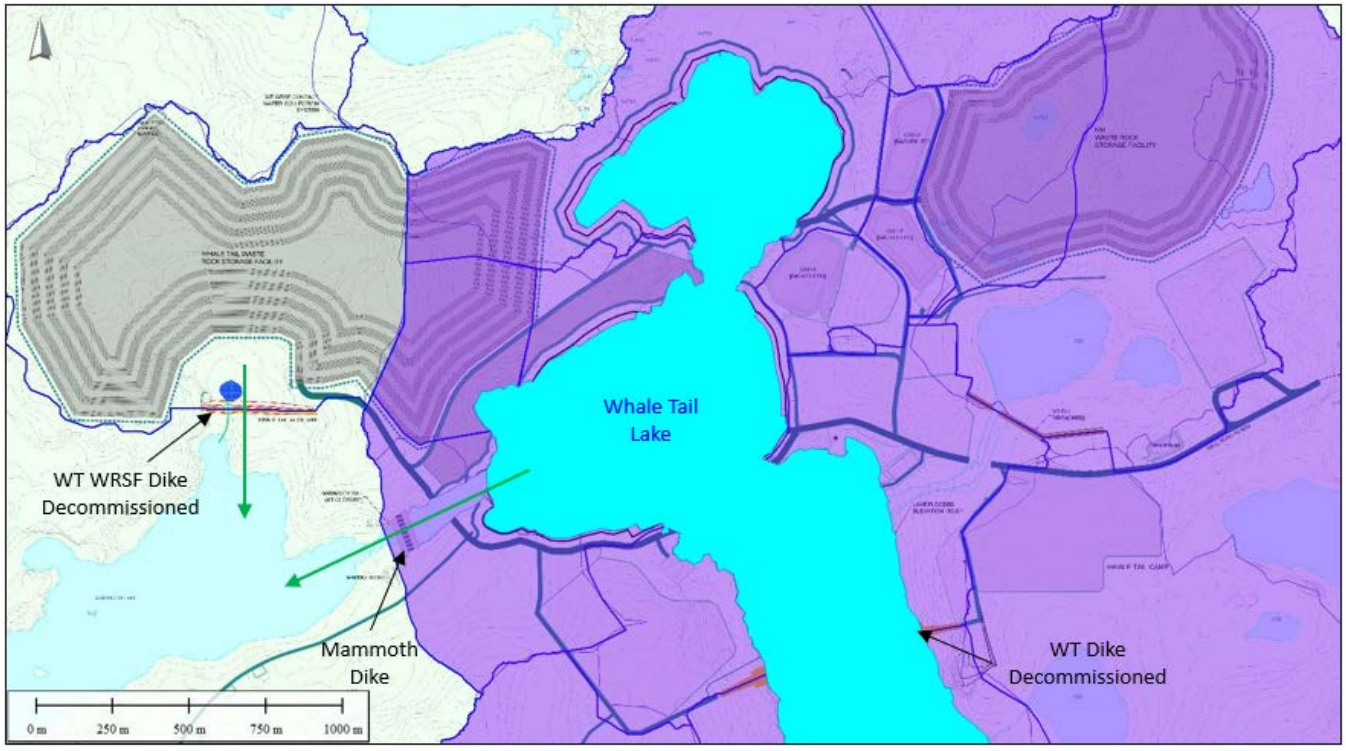

Figure 108: Post-Closure

6.0 RISKS AND OPPORTUNITIES

Based on the results of the water balance presented herein, risks and opportunities are listed as follows:

- Dry/Wet Precipitation Years: This water balance was based on mean annual precipitation. Runoff is therefore expected to vary from mean annual conditions under dry or wet annual conditions. These variations can affect filling and drawdown durations, as well as monthly runoff volumes managed on site. While short-term extreme events were not considered as part of the scope of the water balance, the site water management infrastructure will be designed based on guidelines provided in the Canadian Dam Association (CDA) Dam Safety Guidelines.
- Adaptive Water Management. Although this report presented potential adaptive water management in the form of GSP-3 (Section 5.2.3), the potential for contingencies may take several forms. Relevant examples for the Project include:
  - GSP-2. The water balance presented here assumes GSP-2 is online by 2022 in order to manage brackish water from the Underground Mine. However, this pond can potentially be constructed sooner if needed.
  - GSP-3. As previously described, based on the results of the water balance presented in this report, GSP-3 is not required. However, it can still be considered for contingency purposes. GSP-3 is a potential source of flexibility in site water management and treatment and is an adaptive management opportunity. As site water management optimization progresses, the use of this pond may be further considered. This pond could be used as either a surface or underground water storage pond depending on the water management needs of the project.
  - IVR Attenuation Pond. Another potential source for increased water storage capacity on site is the IVR Attenuation Pond. There is the potential to increase the design dike elevation to increase water storage capacity.
  - Underground Mine Storage. If surface storage of underground water is not available or insufficient, temporary use of the Underground Mine is a possibility. Partial flooding of the Underground Mine could provide time to review surface water containment and/or water treatment options.
- Conservative Groundwater Inflows: Groundwater inflows considered herein comprise a substantial proportion of total inflows. These inflows were based on the “EA Case” and are conservative by design (Golder 2019b). Thus, actual groundwater inflows may be less than those considered herein. The Base Case, described in Section 3.5, represents the best estimate of groundwater inflows based on measured data to date. Using the Base Case values would result in approximately 15% inflow reduction to the Underground Mine during operations than compared with the EA Case results presented in this report.
- Water Content in Waste Rock from the Pits: Losses from the pits due to the water content in waste rock were not considered. This results in a conservative water balance as it increases the volume of water in the pit that must ultimately be treated and discharged.

7.0 STUDY LIMITATIONS

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8.0 CLOSURE

This report presents methods and results of the Project's updated mean annual water balance with a focus on the construction, operation, and closure phases of the Expansion Project to provide input to the Project's design, water management plan, and environmental impact assessments. It is limited to catchments of the Project footprint and does not address the receiving environment within and downstream of the effluent discharge point. Where relevant, the report demonstrates the impacts of revisions since the FEIS Addendum.

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

Golder Associates Ltd.

REGISTERED PROFESSIONAL ENGINEER
J.C. LACRAMPE
LICENSEE
NT/NU
10 MAY 2019

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Senior Water Resources Engineer

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Principal, Project Director

AC/JL/VJBNS/sg
https://golderassociates.sharepoint.com/sites/102627/technical work/04_waterbalance-waterquality/04_reporting/water balance/rev1/18108905-294-rpt_2019waterbalance-rev1.docx

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Signature
Date 10 May 2019
PERMIT NUMBER: P 049
NT/NU Association of Professional Engineers and Geoscientists

9.0 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).

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. 2016c. 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. 2018a. Meadowbank Mine – Addendum to Project Certificate (No. 008/ File No. 16MN056) and Addendum to the Type A Water Licence (No. 2AM-WTP1826) – Phase 2. Reference to be updated when available. Golder (Golder Associates Ltd.). 2016. Hydrogeology Baseline Report – Whale Tail Project. Submitted as Volume 6, Appendix 6-A to Final Environmental Impact Statement. June 2016.

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Golder (Golder Associates Ltd.). 2018. Water Balance Expansion Project- Mean Annual Water Balance. 1789310_204_RPT_REV1. November 2018.

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Golder. 2019b. Updated Hydrogeological Assessment, Whale Tail Pit, Expansion Project. 18108905-291-TM-Rev0. 6 May 2019.

SNC Lavalin. 2019. Mine Layout Watersheds During Operations – Phase II. Figure 1-2. January 16, 2019.

APPENDIX A

Conceptual Flow Diagrams

Whale Tail Pit – Expansion Project
Water Management Flow Charts – March, 2019

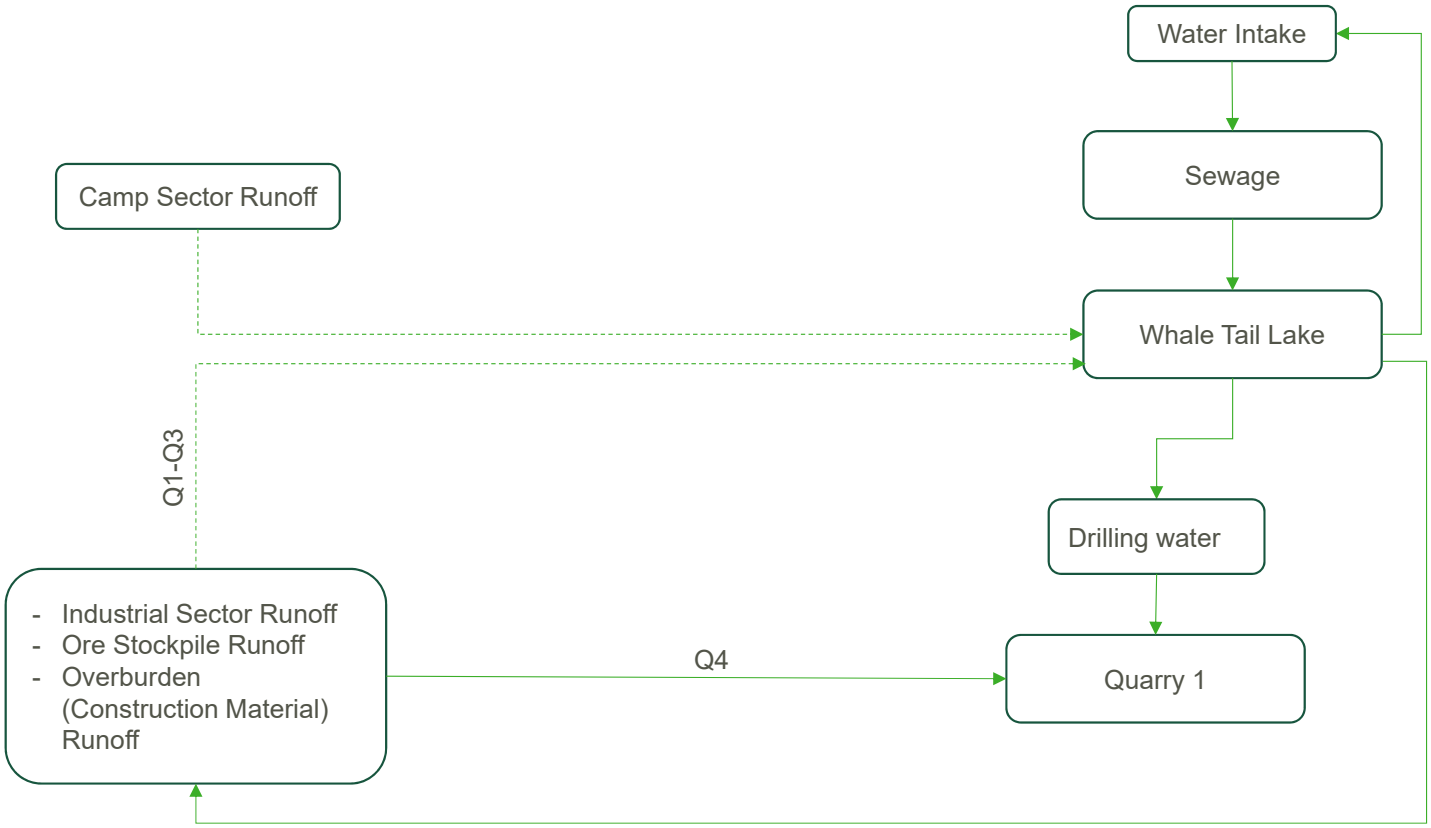
GOLDER

Surface Water Flow Charts

2017 (Pre-Construction)

Gravity: ----------→

Pumping: ——————→



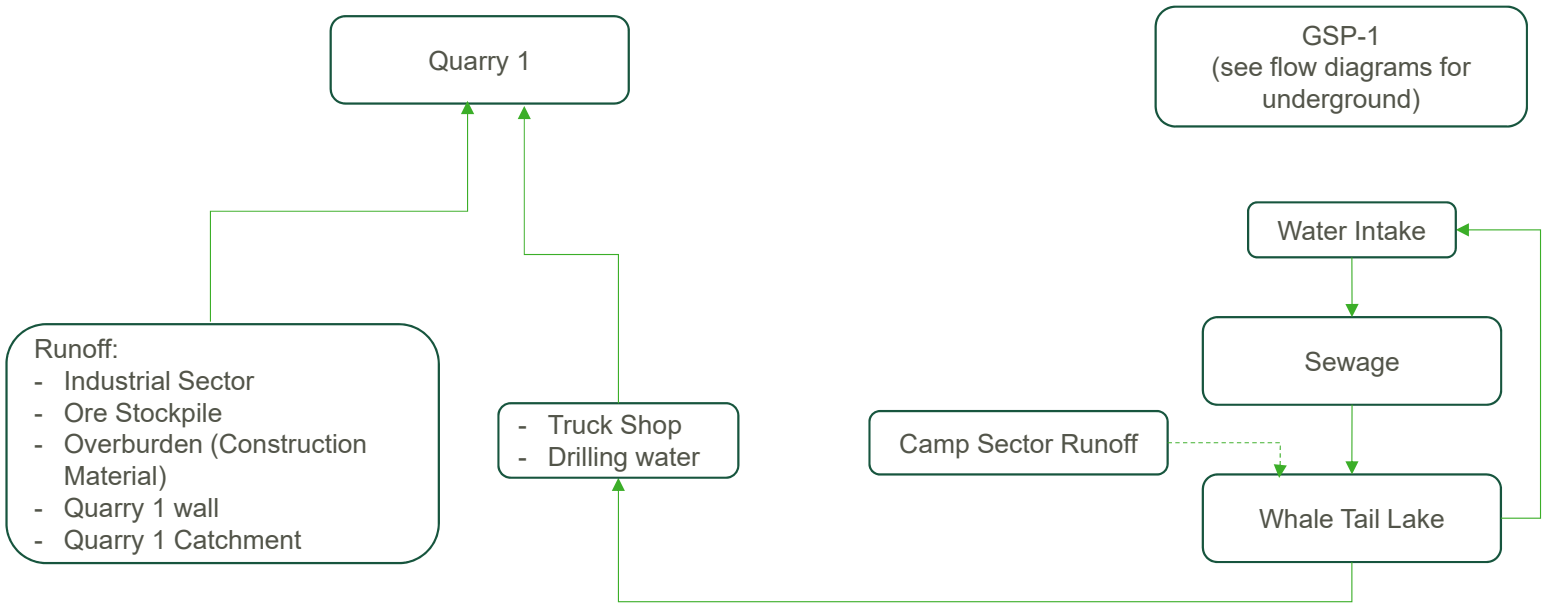
Water Management Concept:
-Contact water is managed through Quarry 1 once initiated.
-Whale Tail Lake is the source of fresh water.

Q1-Q2 2018 (Until Quarry 1 is mined out and Licence A is received)

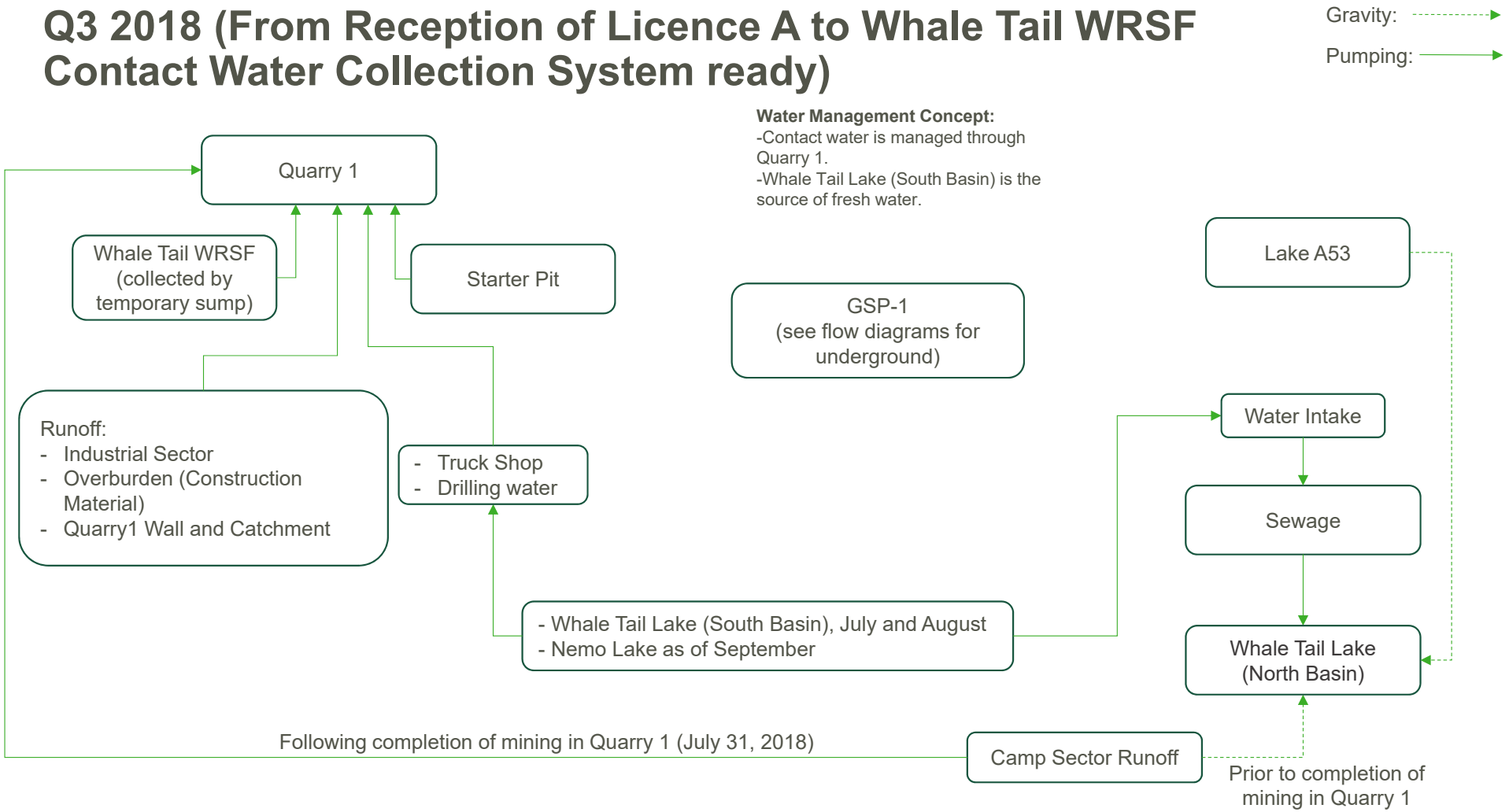
Gravity: ⇢

Pumping: →

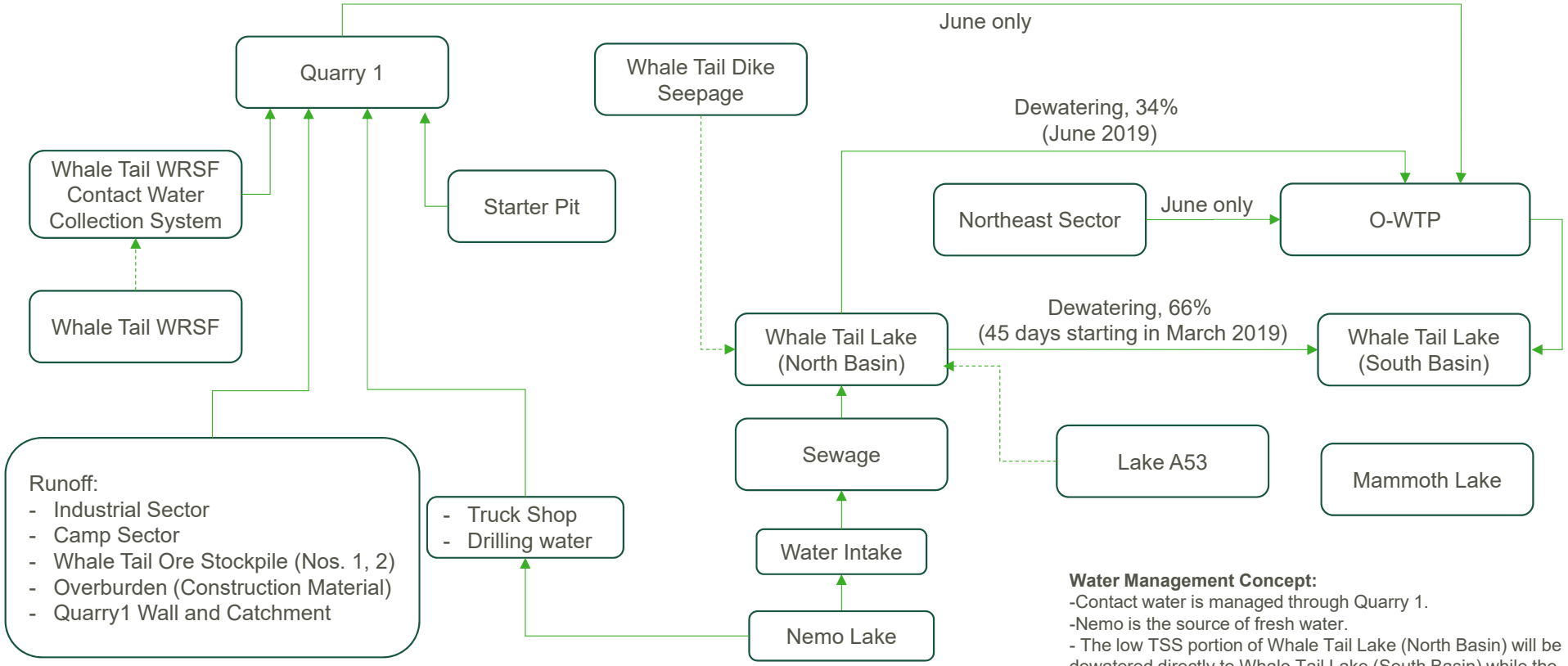
Water Management Concept:
-Contact water is managed through Quarry 1.
-Whale Tail Lake is the source of fresh water.



Q3 2018 (From Reception of Licence A to Whale Tail WRSF Contact Water Collection System ready)

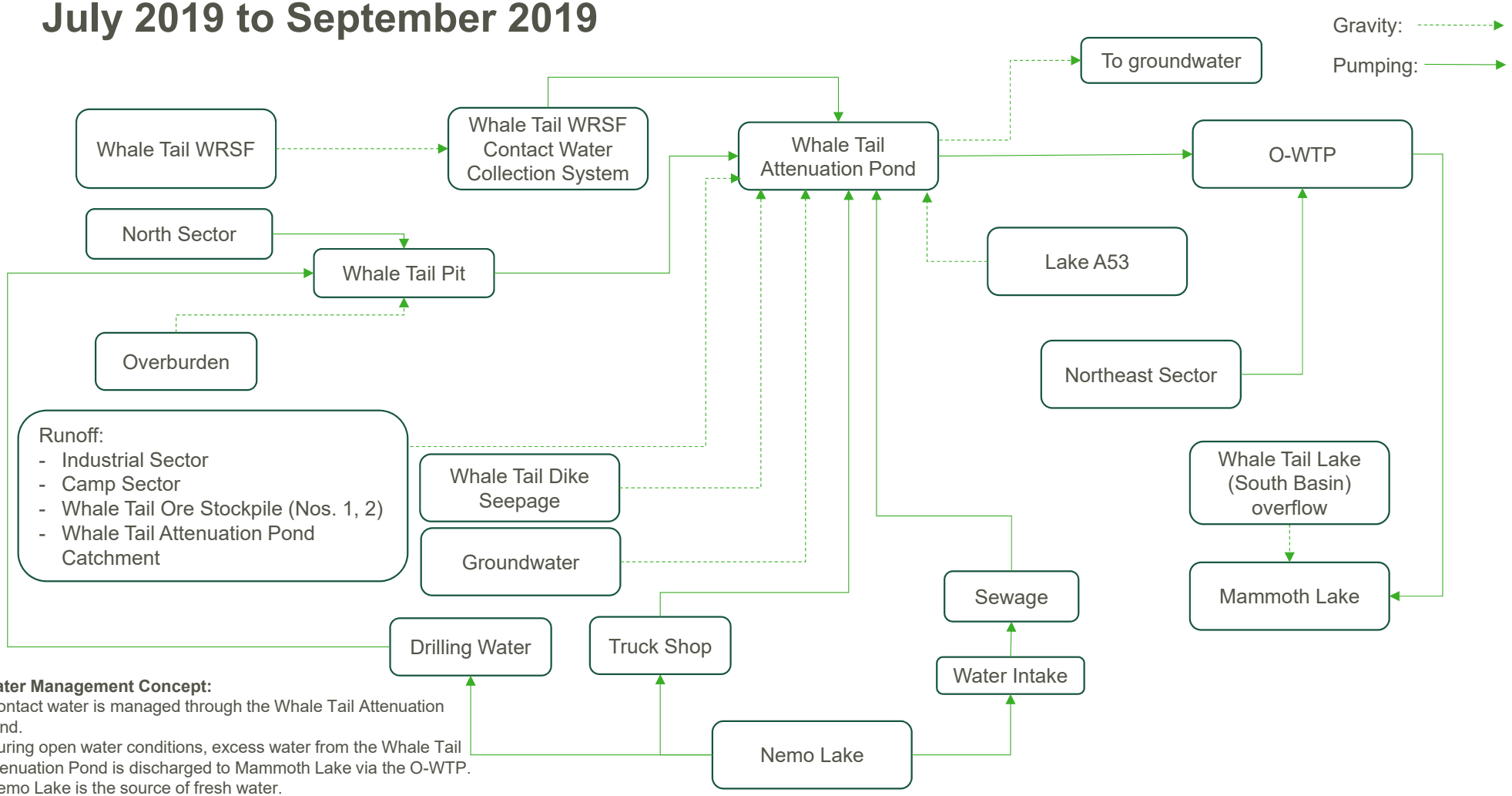


Q4 2018 (Whale Tail WRSF Contact Water Collection System ready) to June 2019 (Whale Tail North Dewatered)



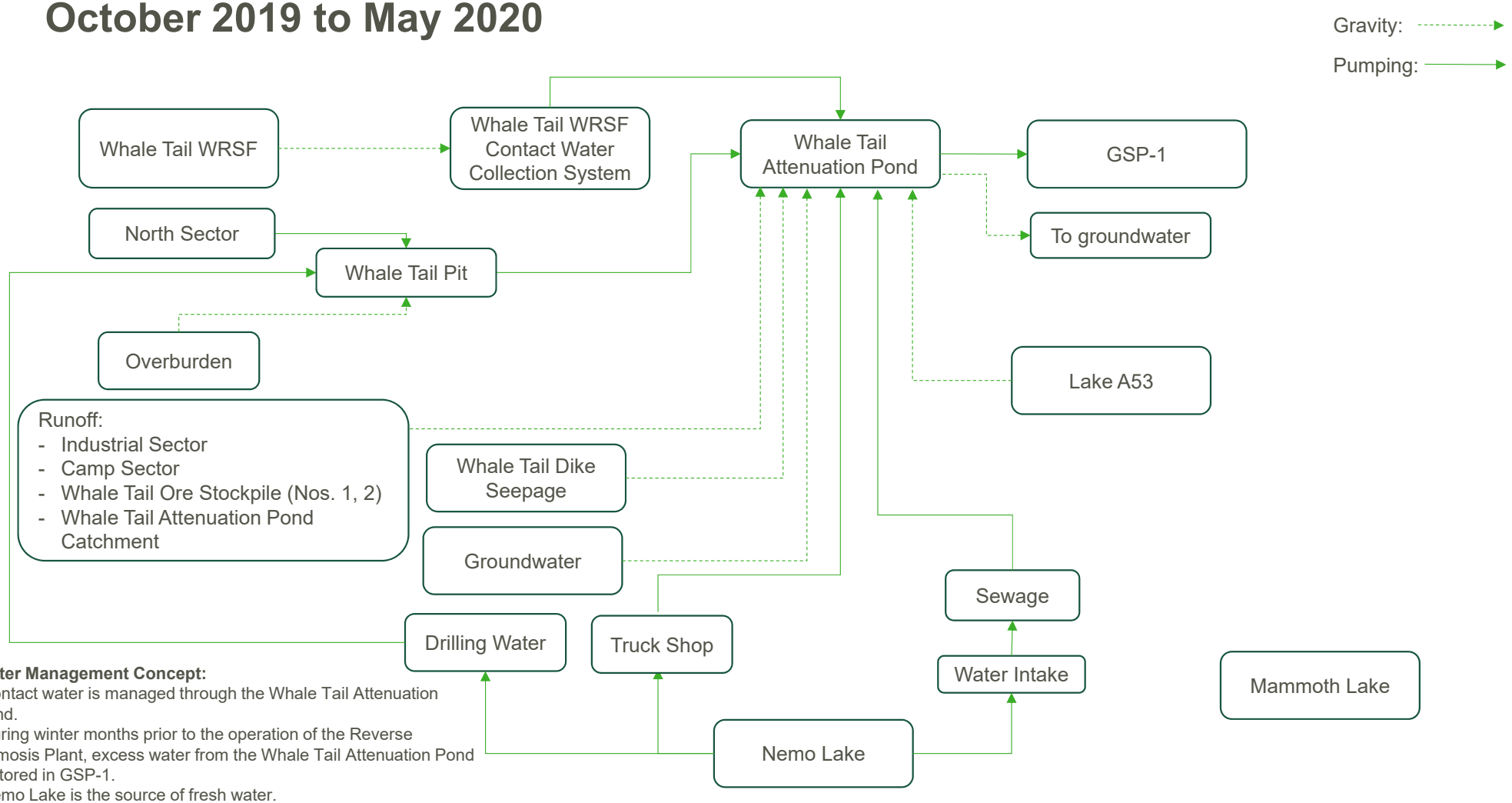
Water Management Concept:
-Contact water is managed through Quarry 1.
-Nemo is the source of fresh water.
- The low TSS portion of Whale Tail Lake (North Basin) will be dewatered directly to Whale Tail Lake (South Basin) while the remainder will be discharged through the O-WTP.

July 2019 to September 2019



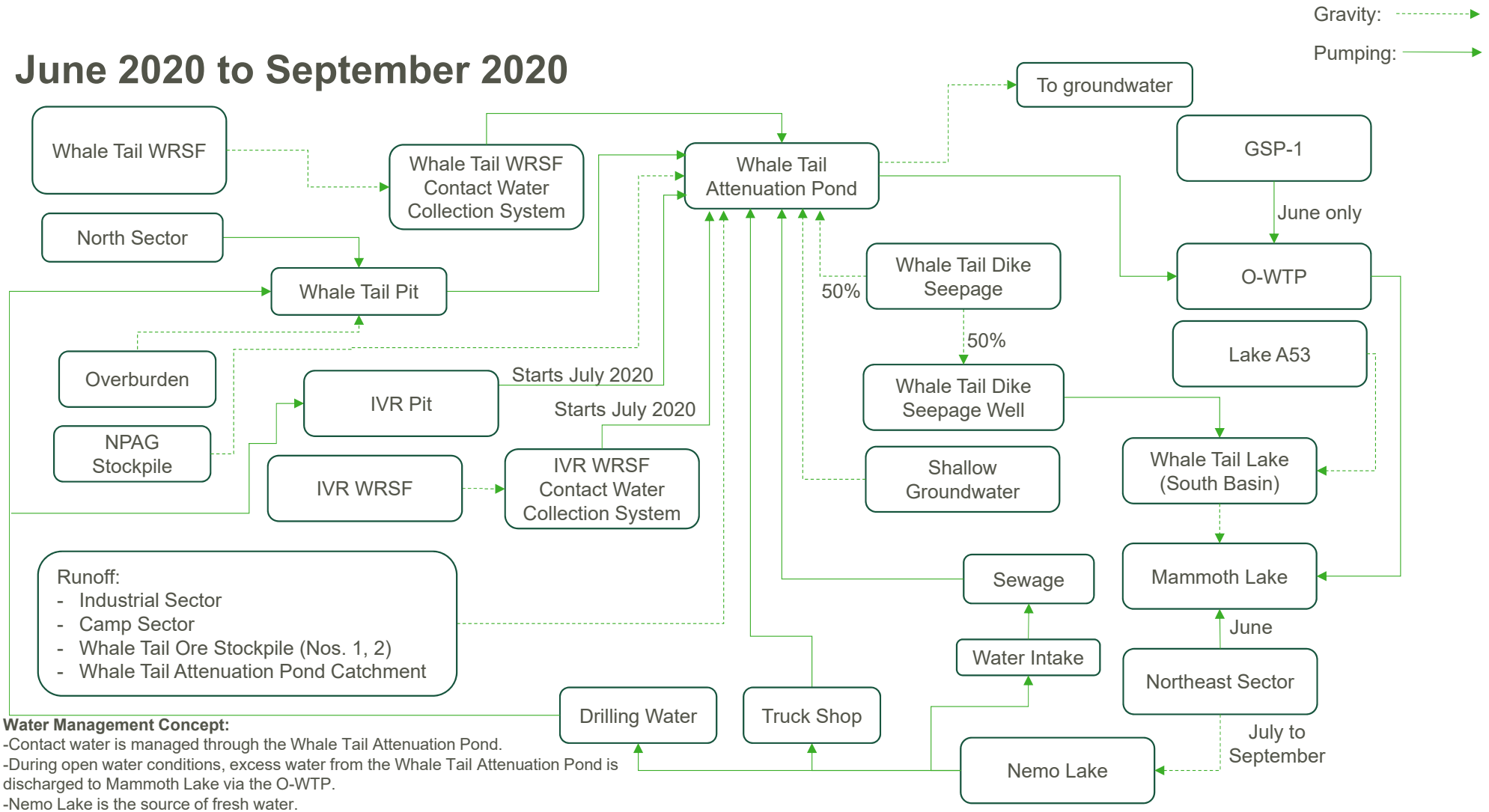
Water Management Concept:
-Contact water is managed through the Whale Tail Attenuation Pond.
-During open water conditions, excess water from the Whale Tail Attenuation Pond is discharged to Mammoth Lake via the O-WTP.
-Nemo Lake is the source of fresh water.

October 2019 to May 2020



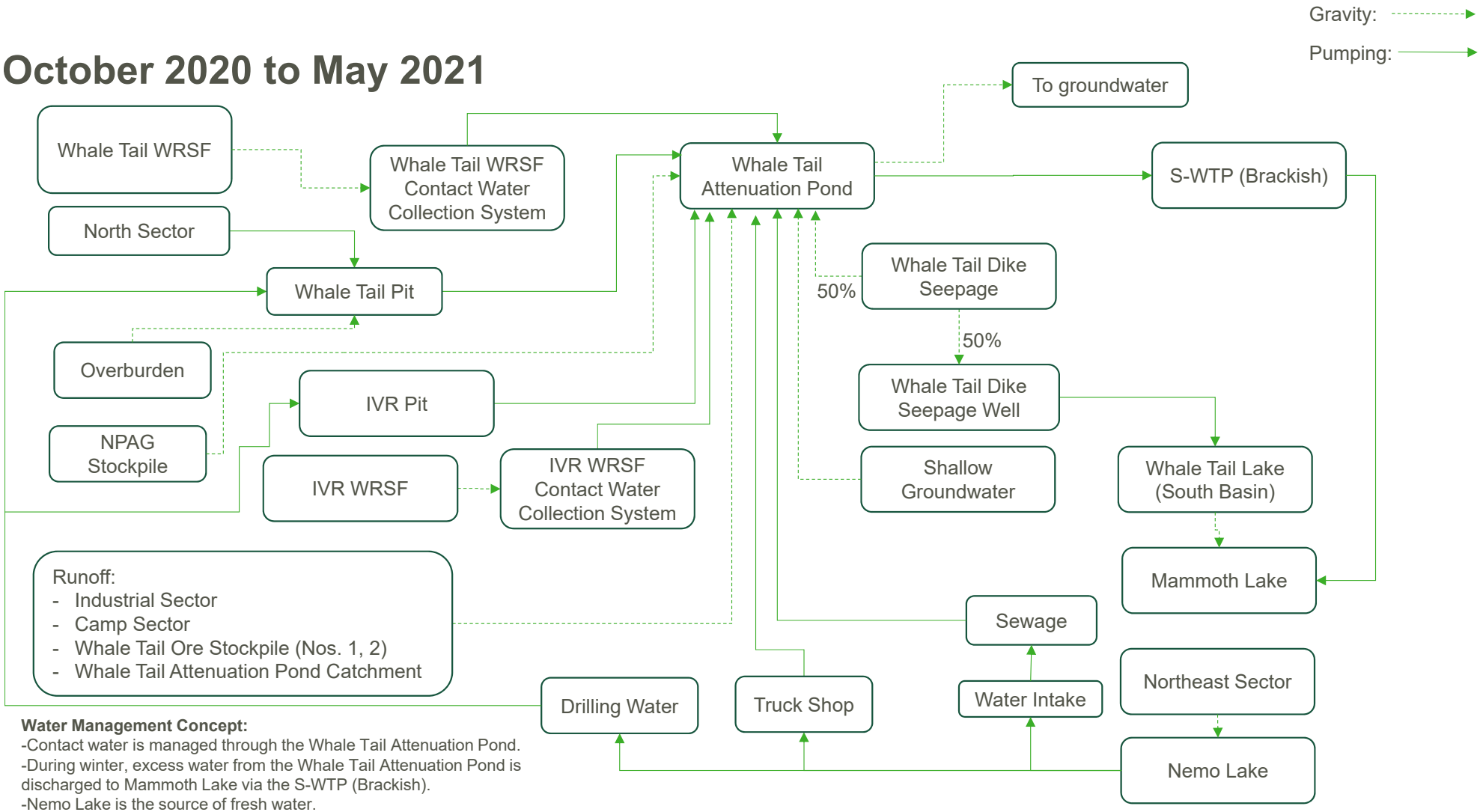
Water Management Concept:
-Contact water is managed through the Whale Tail Attenuation Pond.
-During winter months prior to the operation of the Reverse Osmosis Plant, excess water from the Whale Tail Attenuation Pond is stored in GSP-1.
-Nemo Lake is the source of fresh water.

June 2020 to September 2020



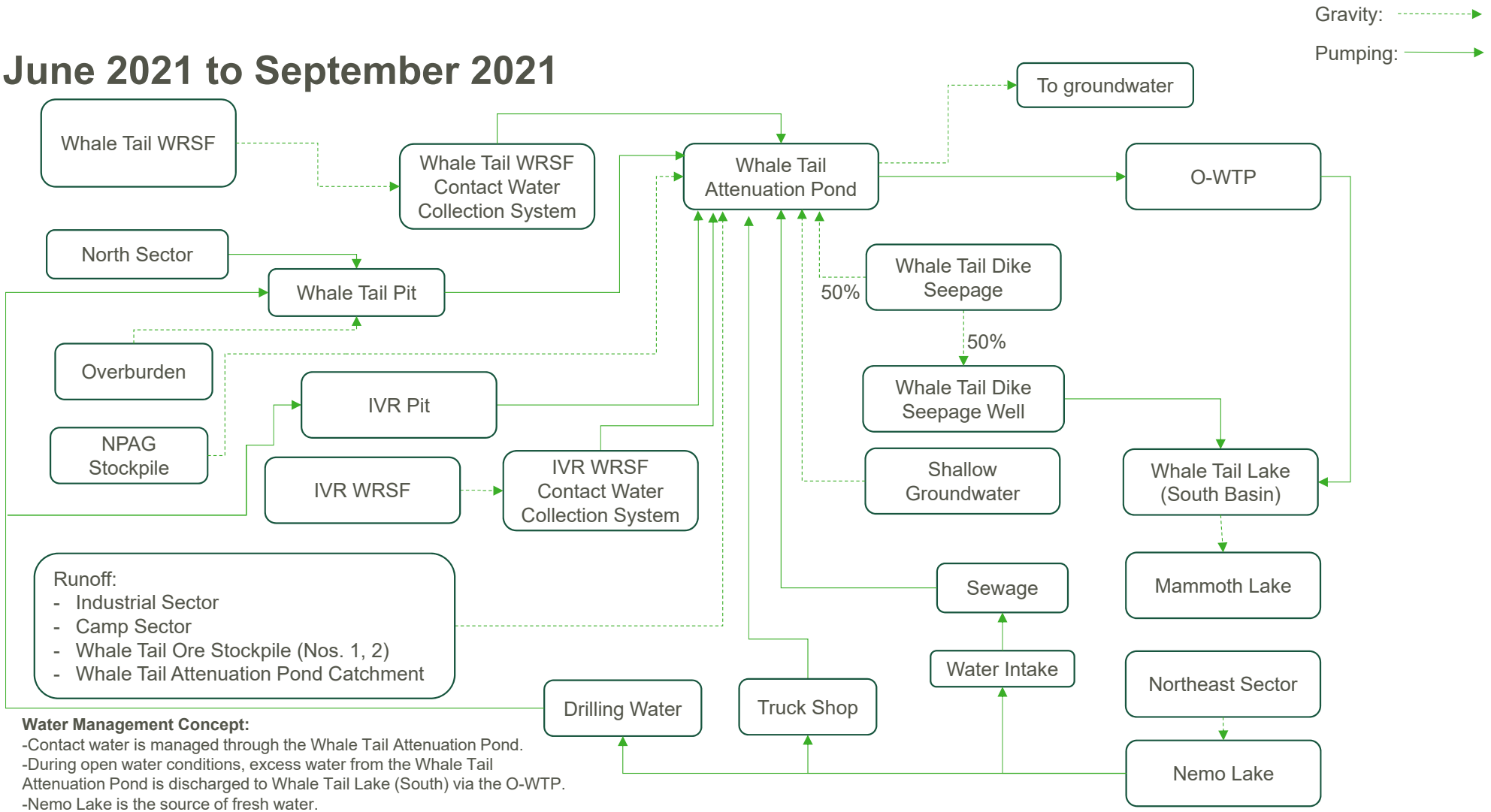
Water Management Concept:
-Contact water is managed through the Whale Tail Attenuation Pond.
-During open water conditions, excess water from the Whale Tail Attenuation Pond is discharged to Mammoth Lake via the O-WTP.
-Nemo Lake is the source of fresh water.

October 2020 to May 2021



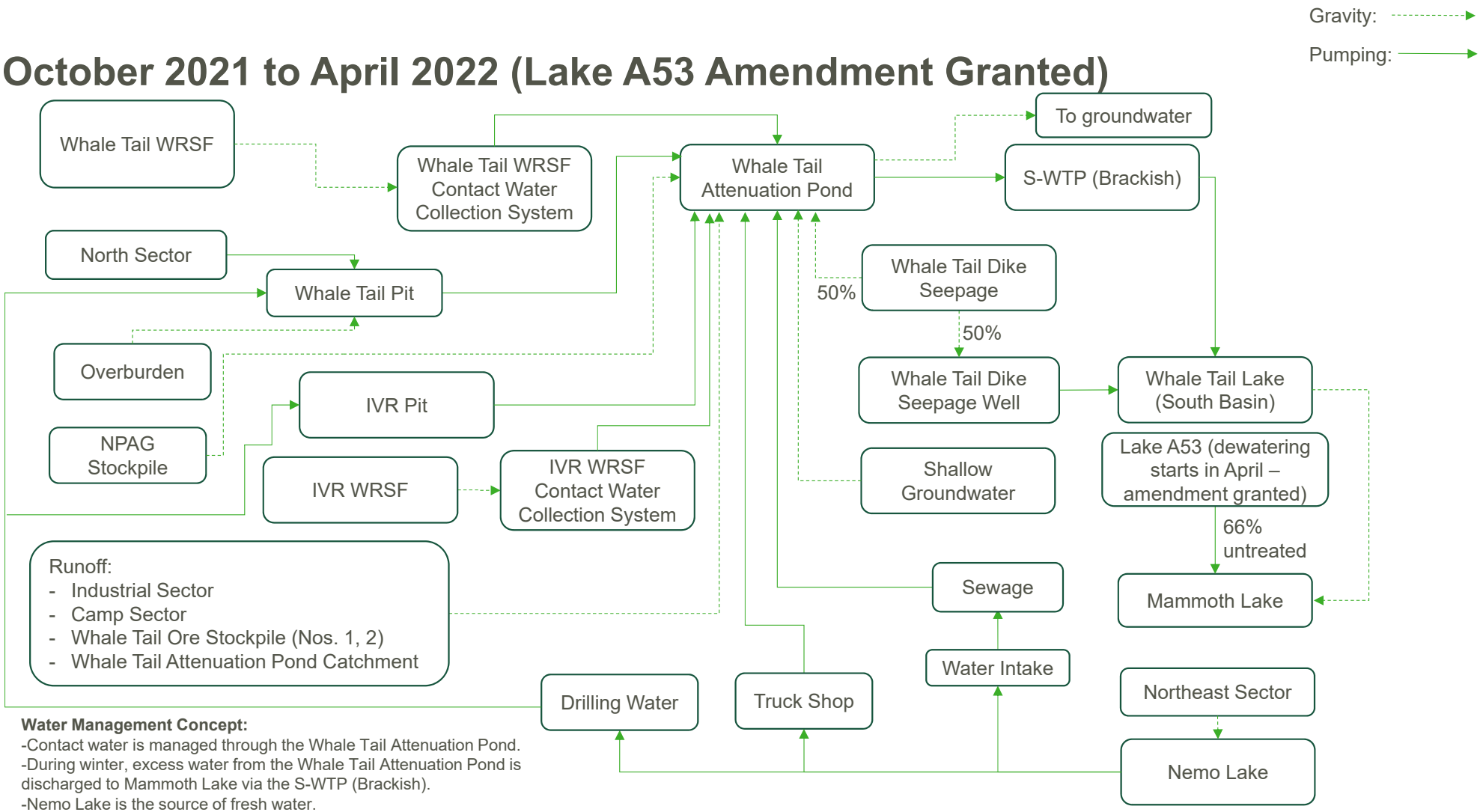
Water Management Concept:
-Contact water is managed through the Whale Tail Attenuation Pond.
-During winter, excess water from the Whale Tail Attenuation Pond is discharged to Mammoth Lake via the S-WTP (Brackish).
-Nemo Lake is the source of fresh water.

June 2021 to September 2021



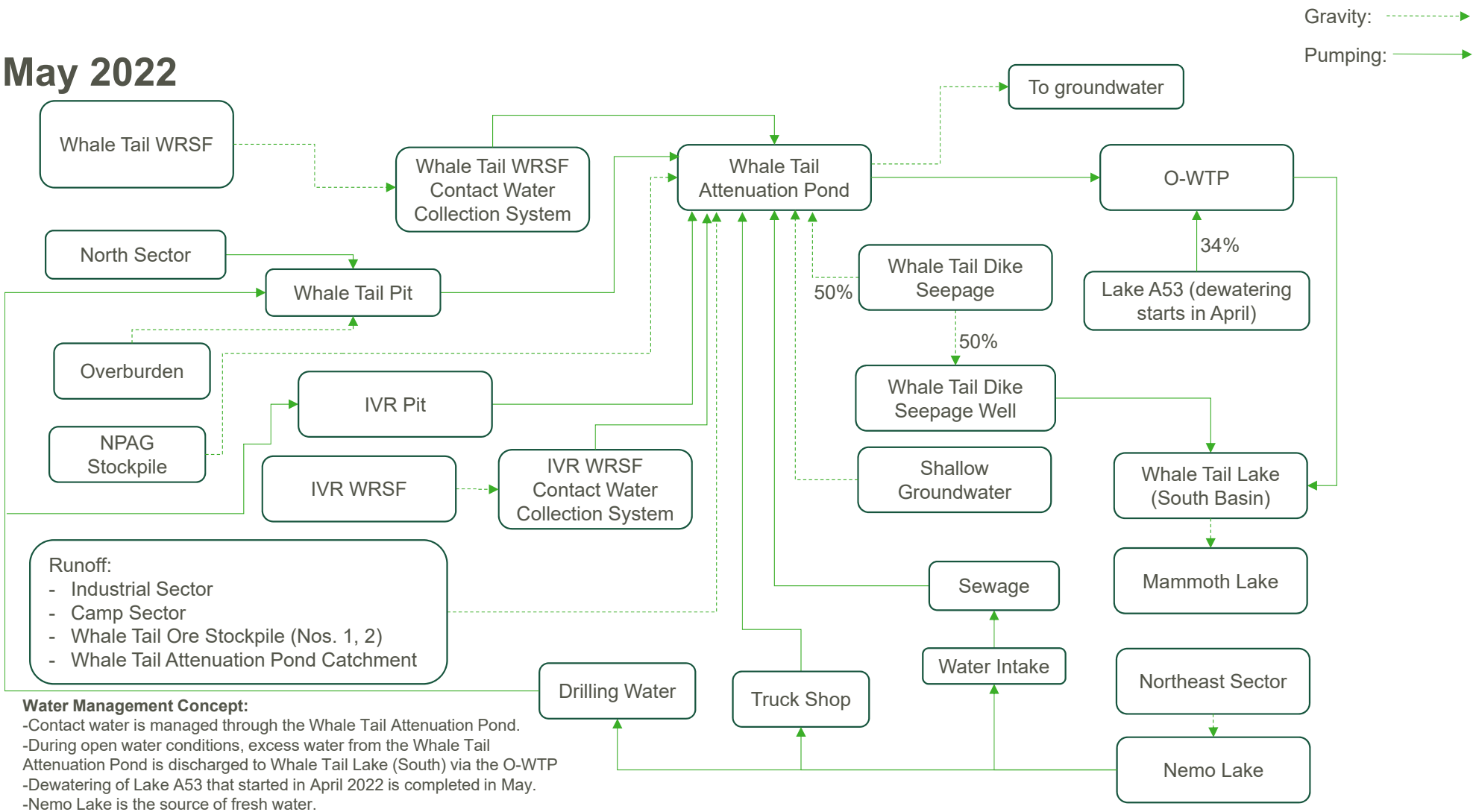
Water Management Concept:
-Contact water is managed through the Whale Tail Attenuation Pond.
-During open water conditions, excess water from the Whale Tail Attenuation Pond is discharged to Whale Tail Lake (South) via the O-WTP.
-Nemo Lake is the source of fresh water.

October 2021 to April 2022 (Lake A53 Amendment Granted)



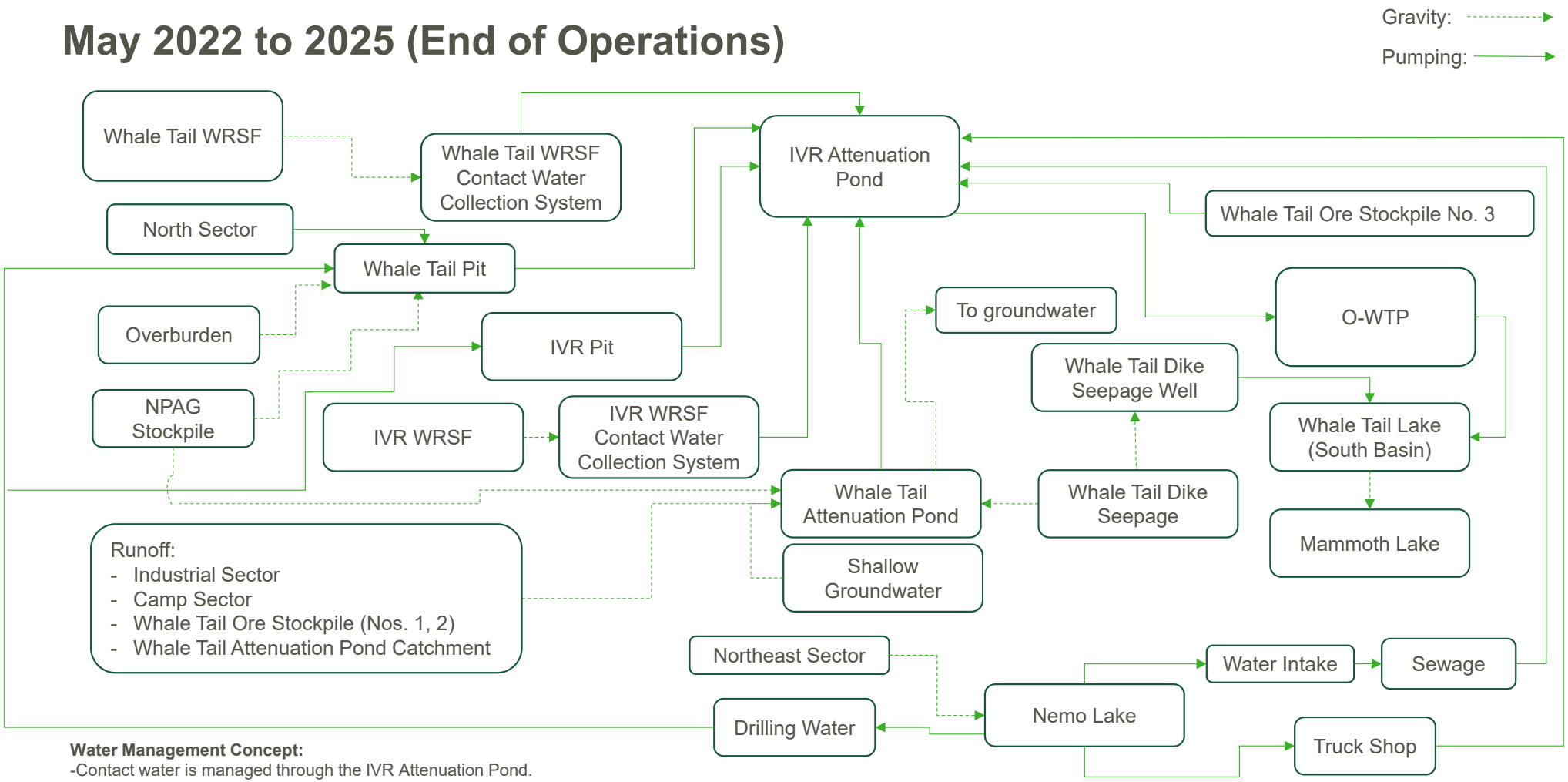
Water Management Concept:
-Contact water is managed through the Whale Tail Attenuation Pond.
-During winter, excess water from the Whale Tail Attenuation Pond is discharged to Mammoth Lake via the S-WTP (Brackish).
-Nemo Lake is the source of fresh water.

May 2022



Water Management Concept:
-Contact water is managed through the Whale Tail Attenuation Pond.
-During open water conditions, excess water from the Whale Tail Attenuation Pond is discharged to Whale Tail Lake (South) via the O-WTP
-Dewatering of Lake A53 that started in April 2022 is completed in May.
-Nemo Lake is the source of fresh water.

May 2022 to 2025 (End of Operations)

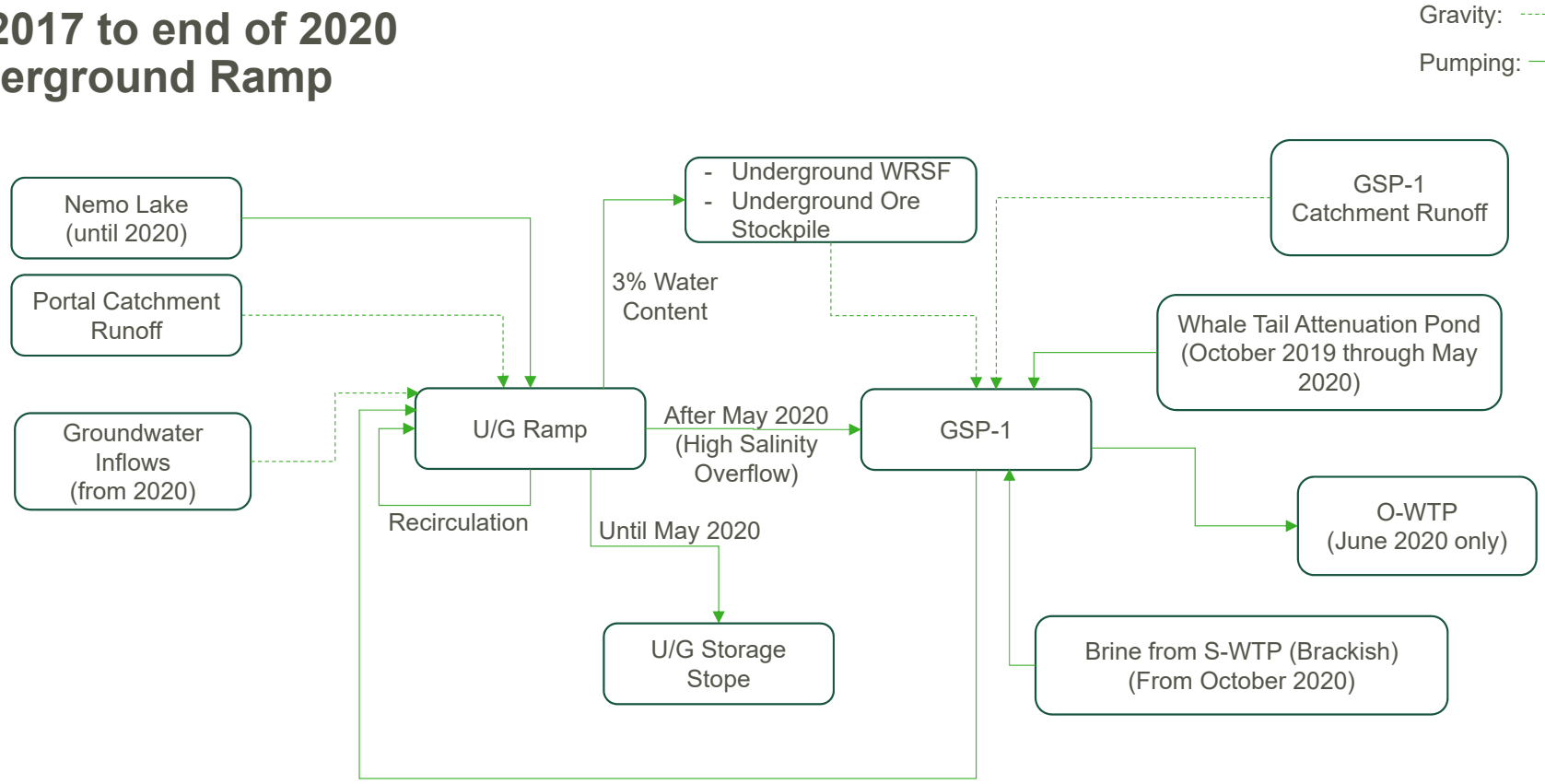


Water Management Concept:
-Contact water is managed through the IVR Attenuation Pond.
-Nemo Lake is the source of fresh water.

GOLDER

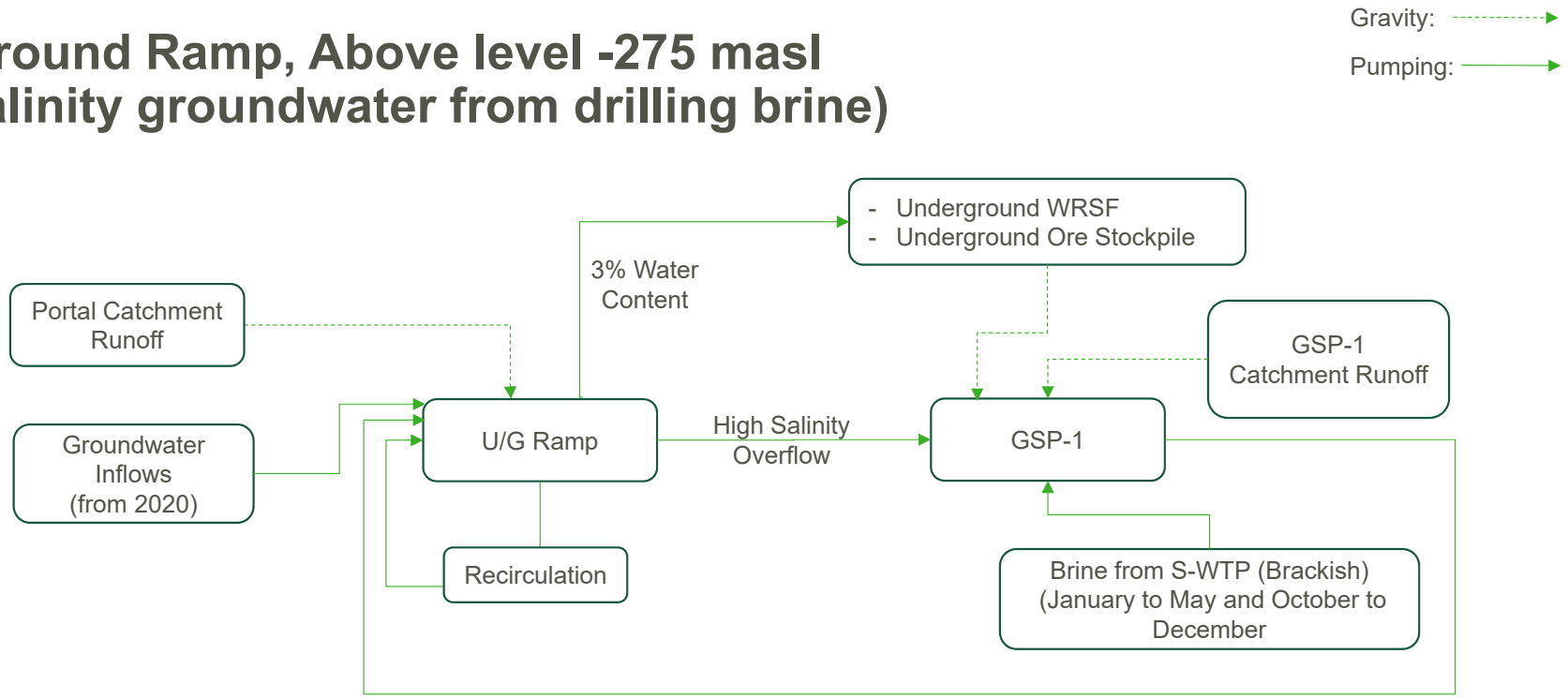
Underground Mine Water Flow Charts

Q4 2017 to end of 2020
Underground Ramp



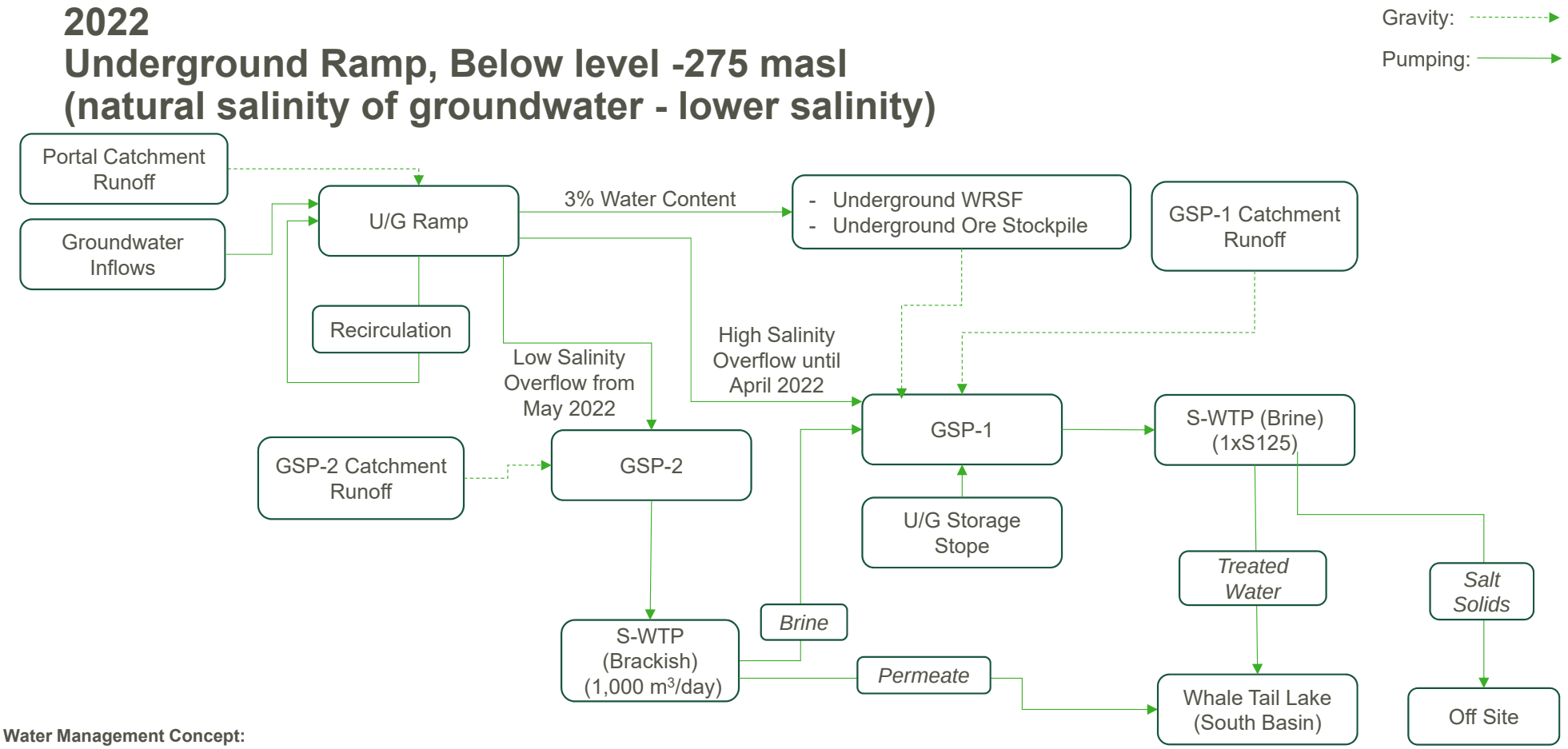
Water Management Concept:
-GSP-1 is the primary source of make-up water to feed the U/G Ramp. Nemo Lake is the secondary source.
-Overflow from the Underground Ramp is discharged to the Underground Stope until it is full. Once the stope is full, overflow reports to GSP-1 (High Salinity Pond) until mining breaks through the cryopeg (estimated in April 2022)

2021
Underground Ramp, Above level -275 masl (high salinity groundwater from drilling brine)



Water Management Concept:
-GSP-1 is the source of make-up water to feed the U/G Ramp.
-Overflow from the Underground Ramp is discharged to the Underground Stope until it is full. Once the stope is full (May 2020), overflow reports to GSP-1 (High Salinity Pond) until mining breaks through the cryopeg (estimated in April 2022)

2022
Underground Ramp, Below level -275 masl (natural salinity of groundwater - lower salinity)



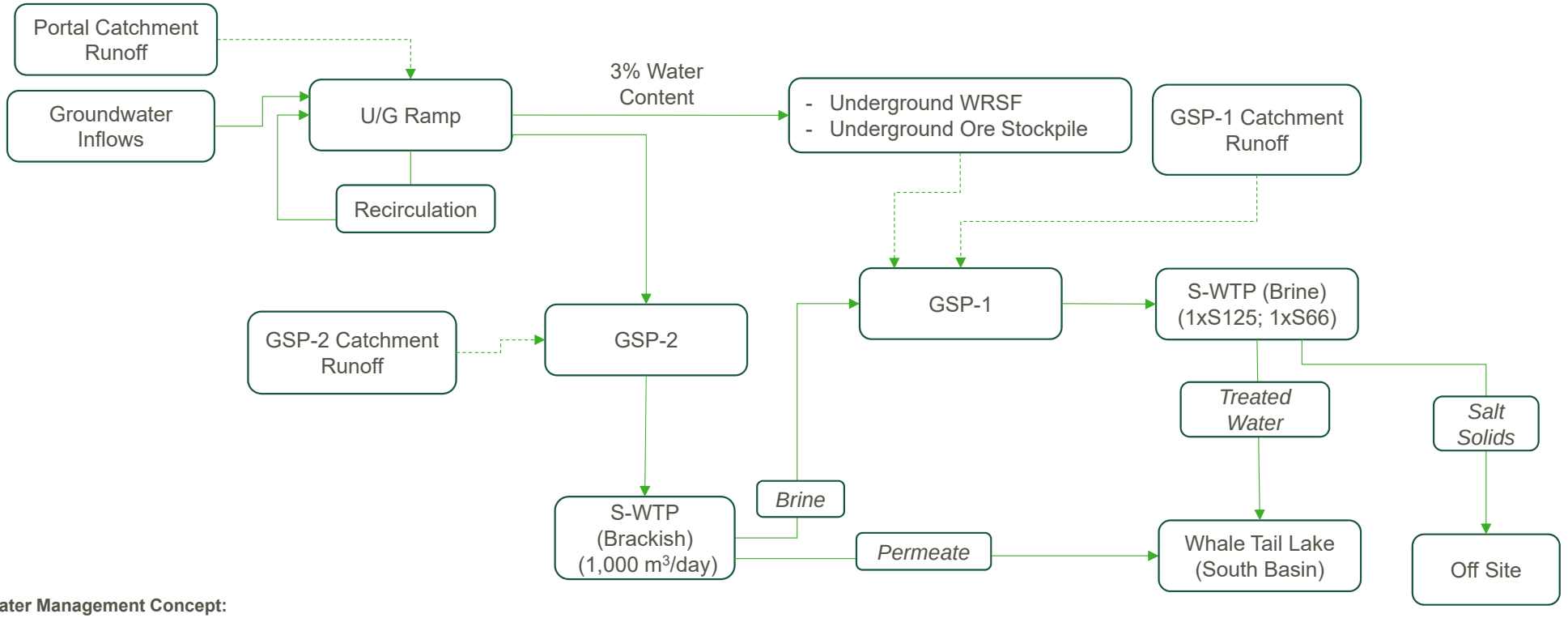
Water Management Concept:

-Overflow from the Underground Ramp is discharged to the Underground Stope until it is full. Once the stope is full (May 2020), overflow reports to GSP-1 (High Salinity Pond) until mining breaks through the cryopeg (estimated in April 2022). The low salinity overflow then reports to GSP-2 (Low Salinity Pond).

-Treated high salinity flows (from GSP-1) are discharged to Whale Tail Lake (South Basin) via S-WTP (Brine)

-Treated low salinity flows (from GSP-2) are discharged to Whale Tail Lake (South Basin) via S-WTP (Brackish)

2023, 2024
Underground Ramp, Below level -275 masl
(natural salinity of groundwater - lower salinity)



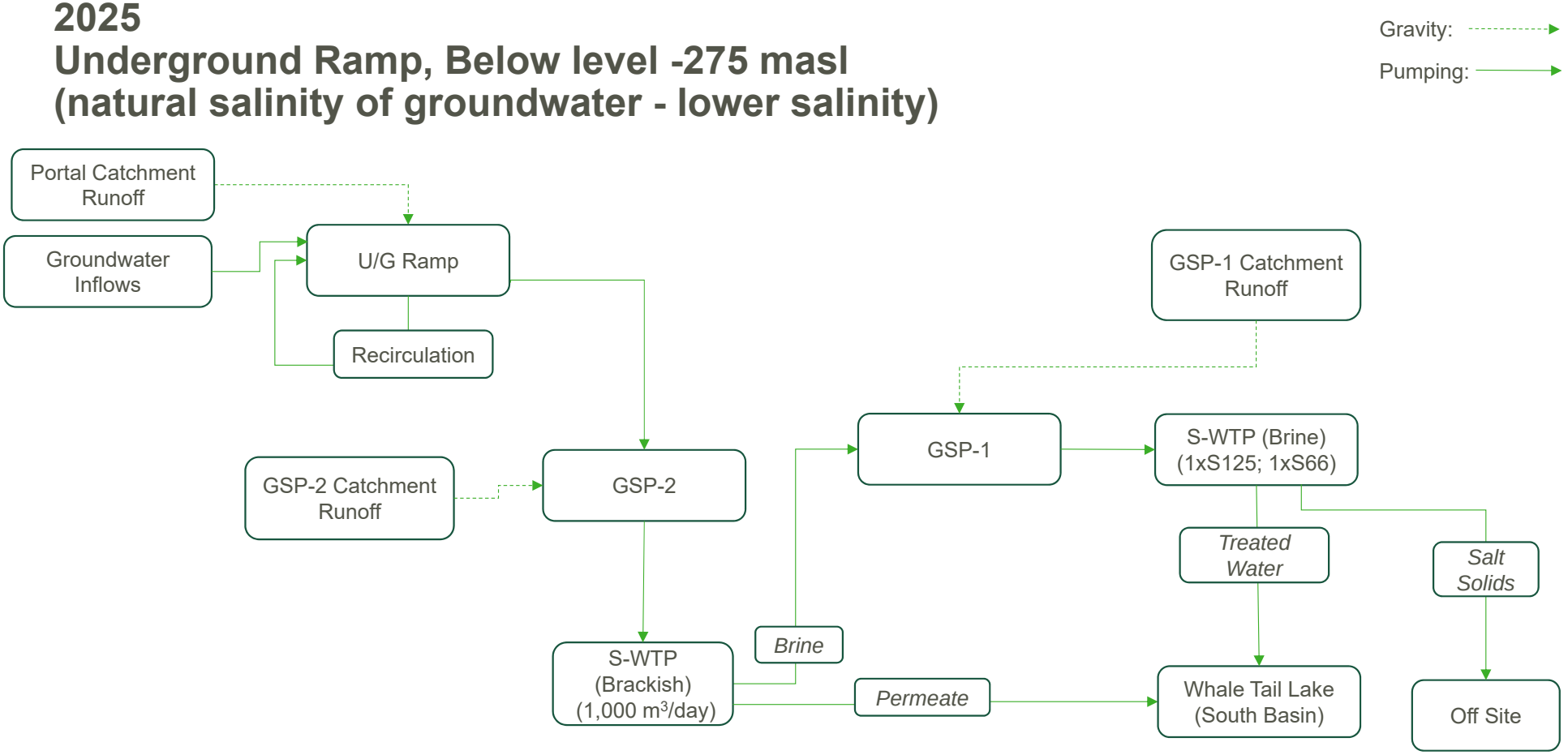
Water Management Concept:

-Overflow from the Underground Ramp is discharged to the Underground Stope until it is full. Once the stope is full (May 2020), overflow reports to GSP-1 (High Salinity Pond) until mining breaks through the cryopeg (estimated in April 2022). The low salinity overflow then reports to GSP-2 (Low Salinity Pond).

-Treated high salinity flows (from GSP-1) are discharged to Whale Tail Lake (South Basin) via S-WTP (Brine). The capacity is increased in January 2023

-Treated low salinity flows (from GSP-2) are discharged to Whale Tail Lake (South Basin) via S-WTP (Brackish)

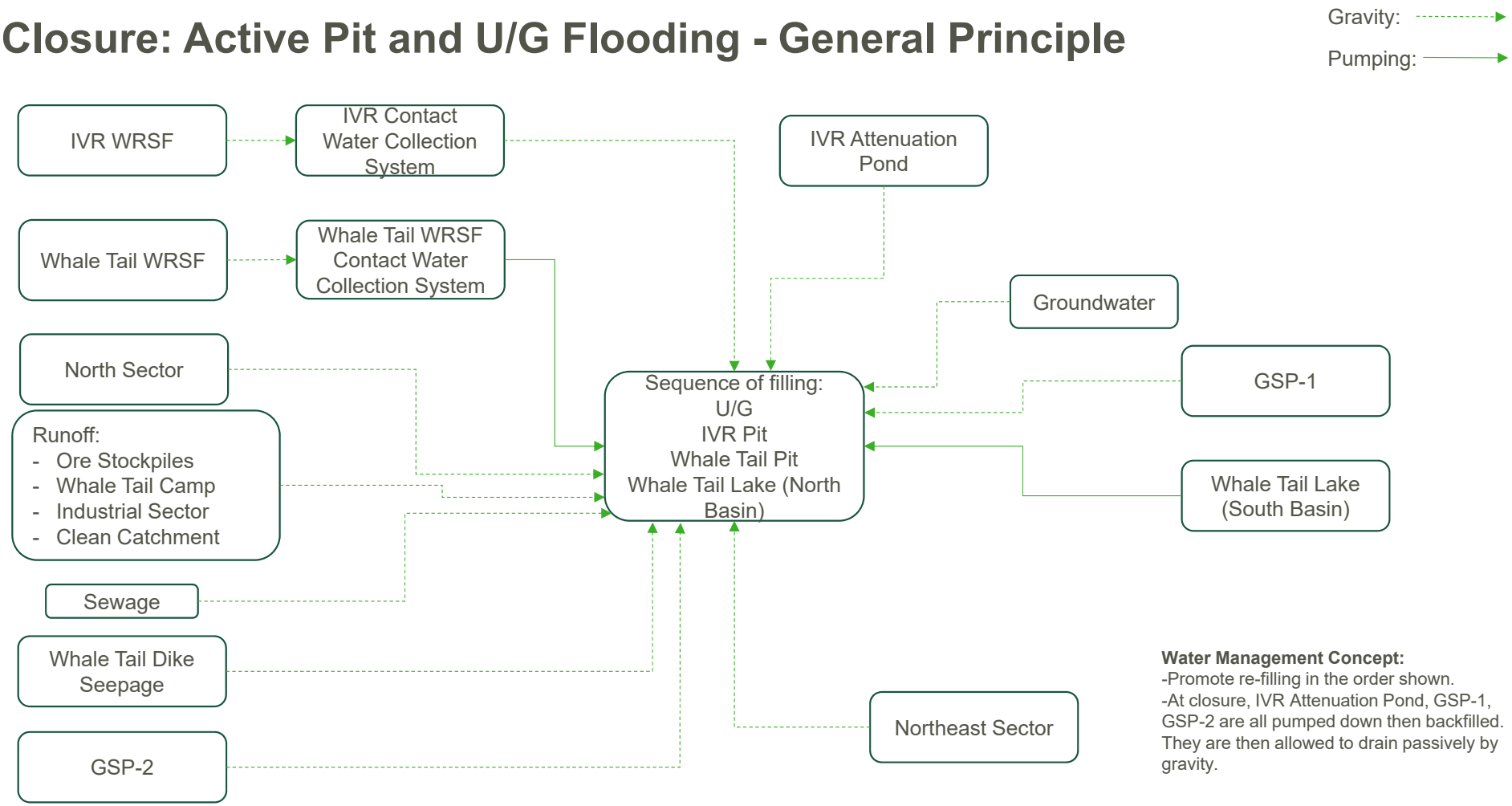
2025
Underground Ramp, Below level -275 masl (natural salinity of groundwater - lower salinity)



Water Management Concept:
-Mining from underground completed at end of 2024.
-Treated high salinity flows (from GSP-1) are discharged to Whale Tail Lake (South Basin) via S-WTP (Brine). The capacity is increased in January 2023
-Treated low salinity flows (from GSP-2) are discharged to Whale Tail Lake (South Basin) via S-WTP (Brackish)

Closure and Post-Closure Flow Charts

Closure: Active Pit and U/G Flooding - General Principle



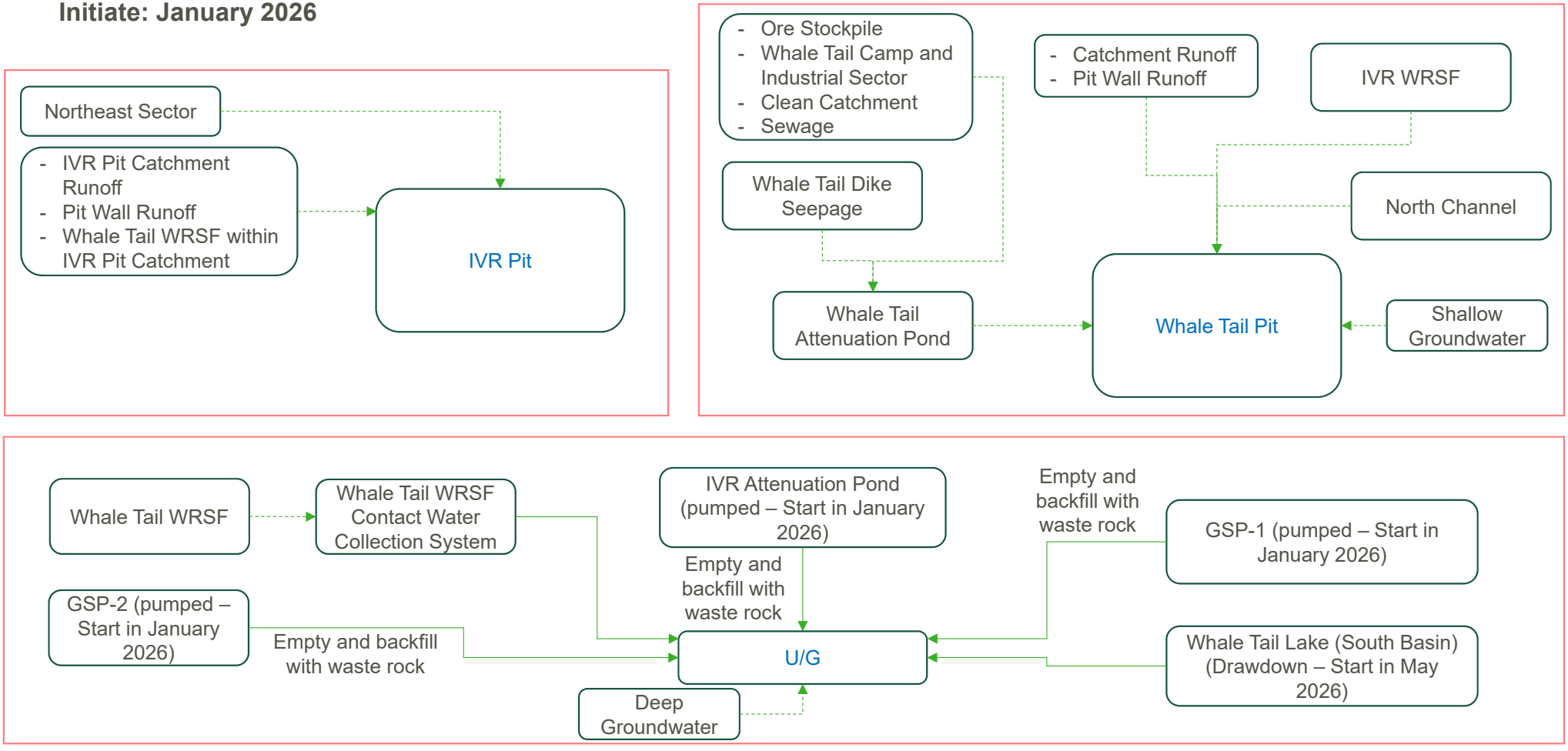
Water Management Concept:
-Promote re-filling in the order shown.
-At closure, IVR Attenuation Pond, GSP-1, GSP-2 are all pumped down then backfilled. They are then allowed to drain passively by gravity.

Closure (Active Flooding) Sequence: Underground Mine

Gravity: ⇢

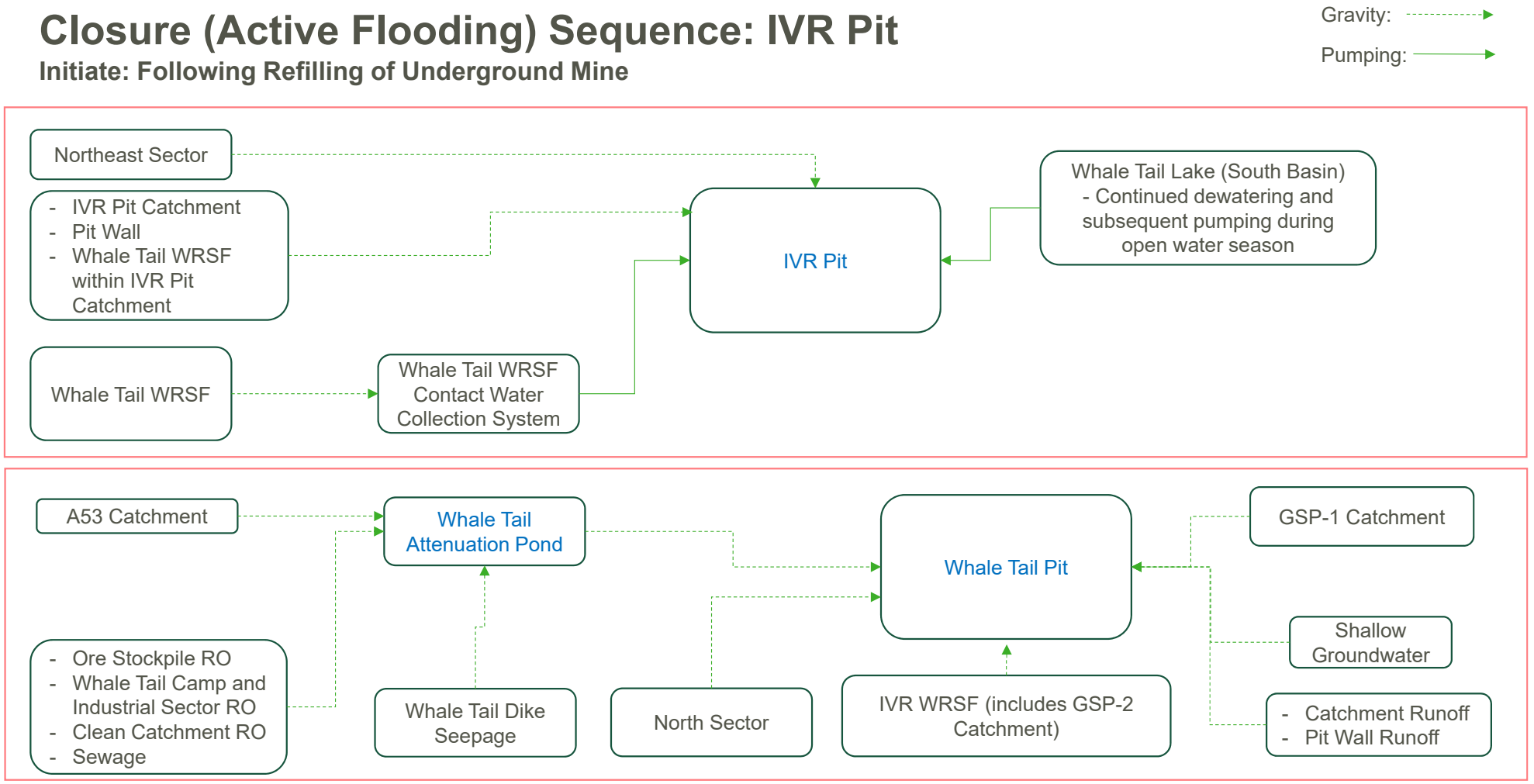
Pumping: →

Initiate: January 2026



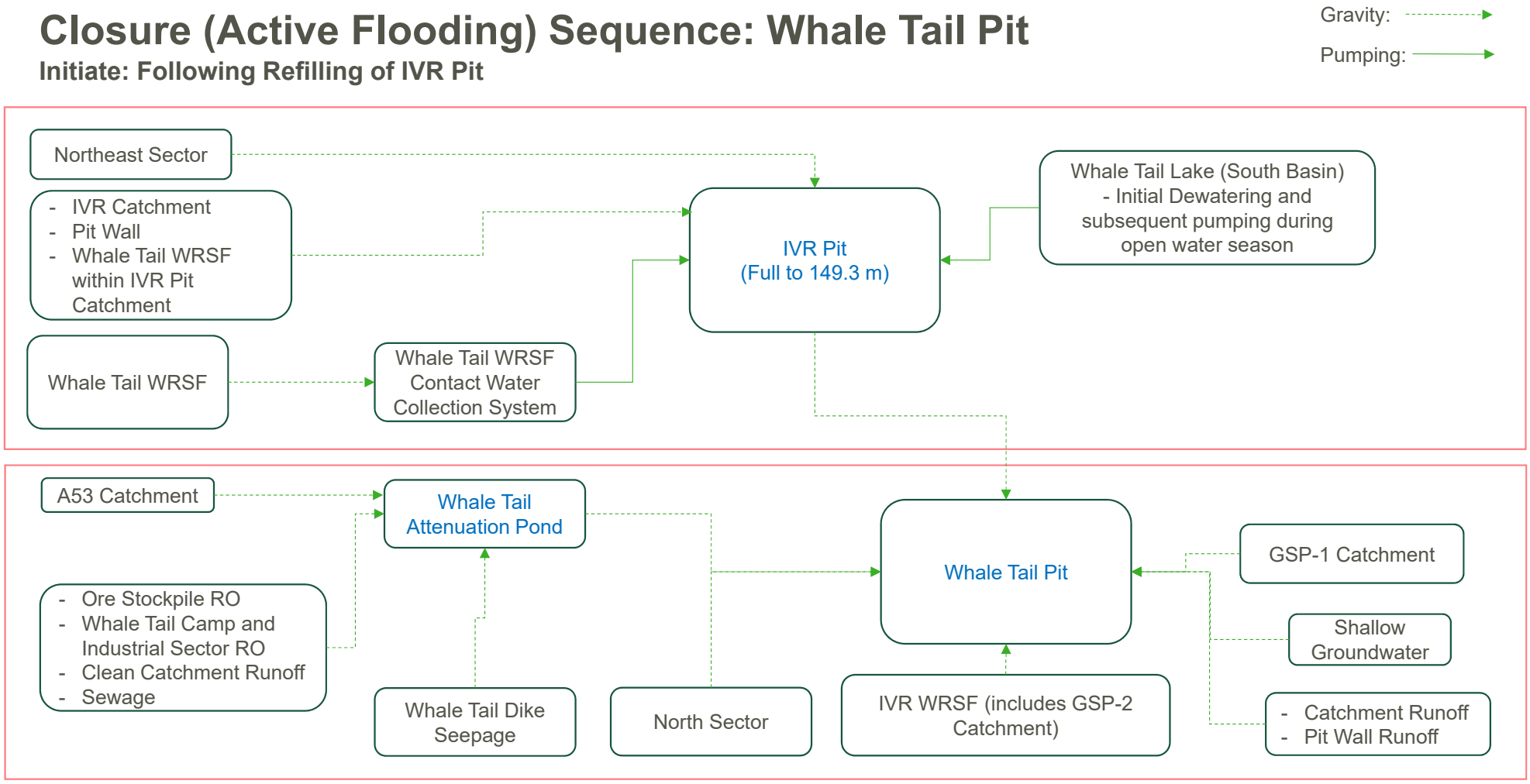
Closure (Active Flooding) Sequence: IVR Pit

Initiate: Following Refilling of Underground Mine



Closure (Active Flooding) Sequence: Whale Tail Pit

Initiate: Following Refilling of IVR Pit

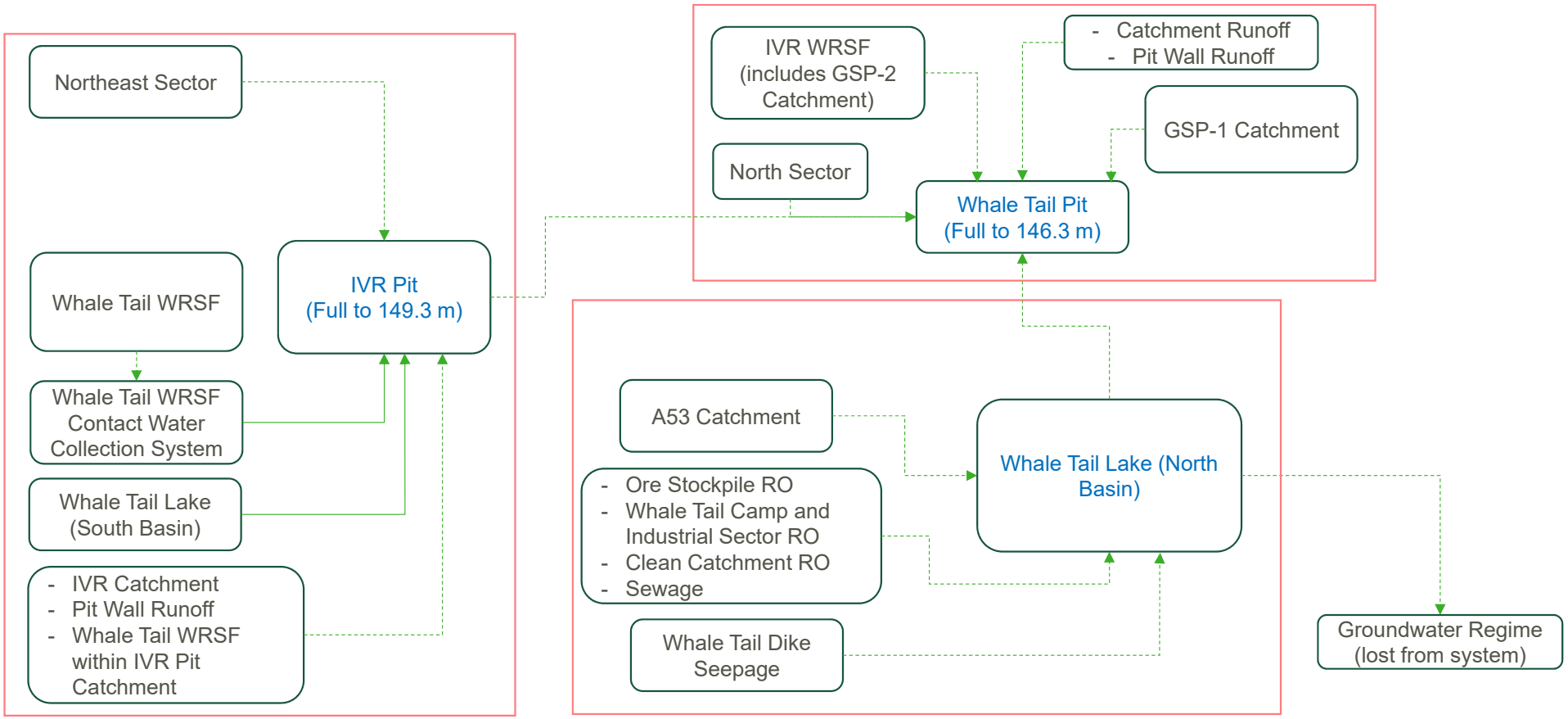


Closure (Active Flooding) Sequence: Whale Tail Lake (North Basin)

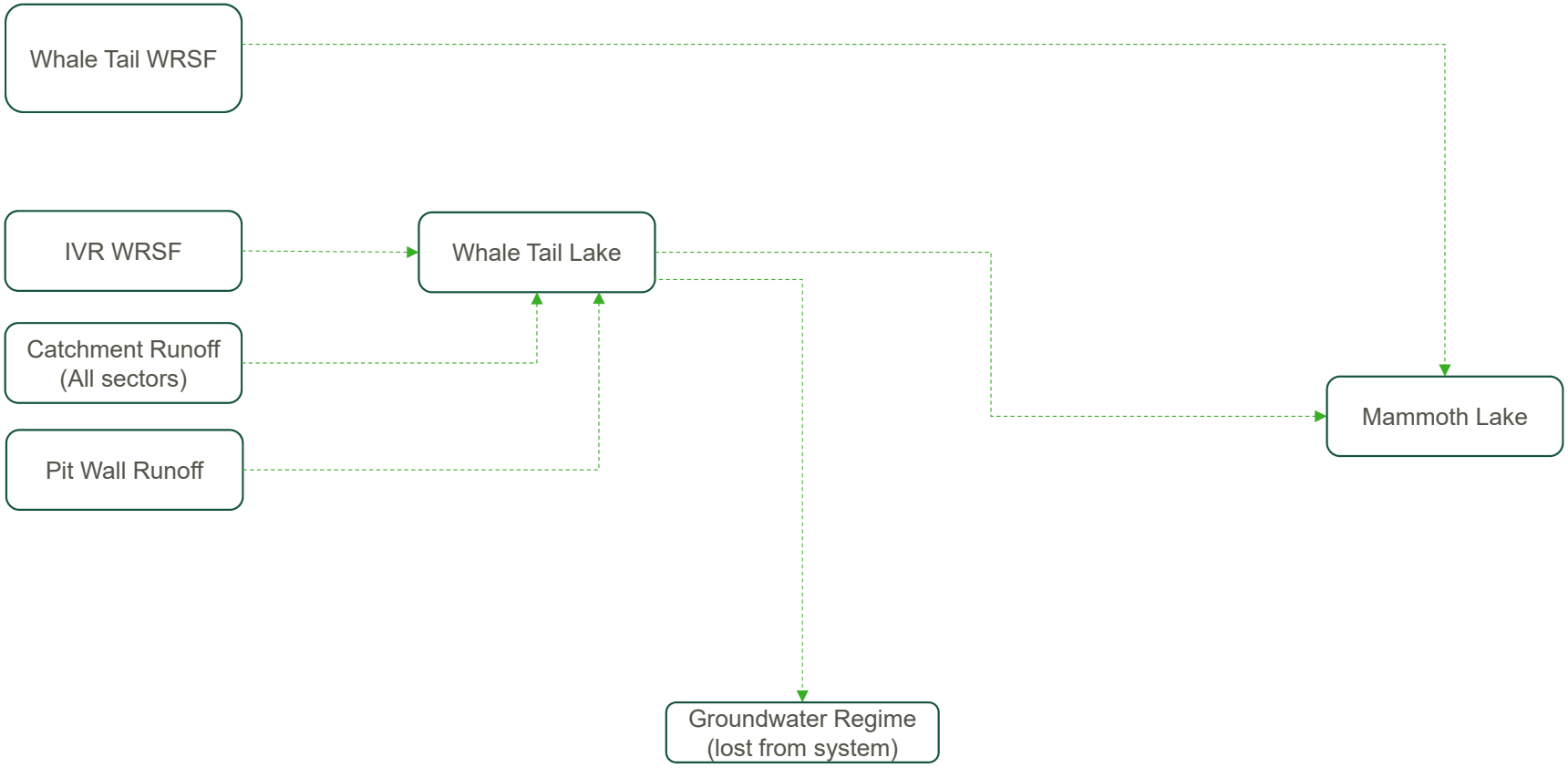
Gravity: ⇢

Pumping: →

Initiate: Following Refilling of Whale Tail Pit



Post-closure General, Whale Tail Lake

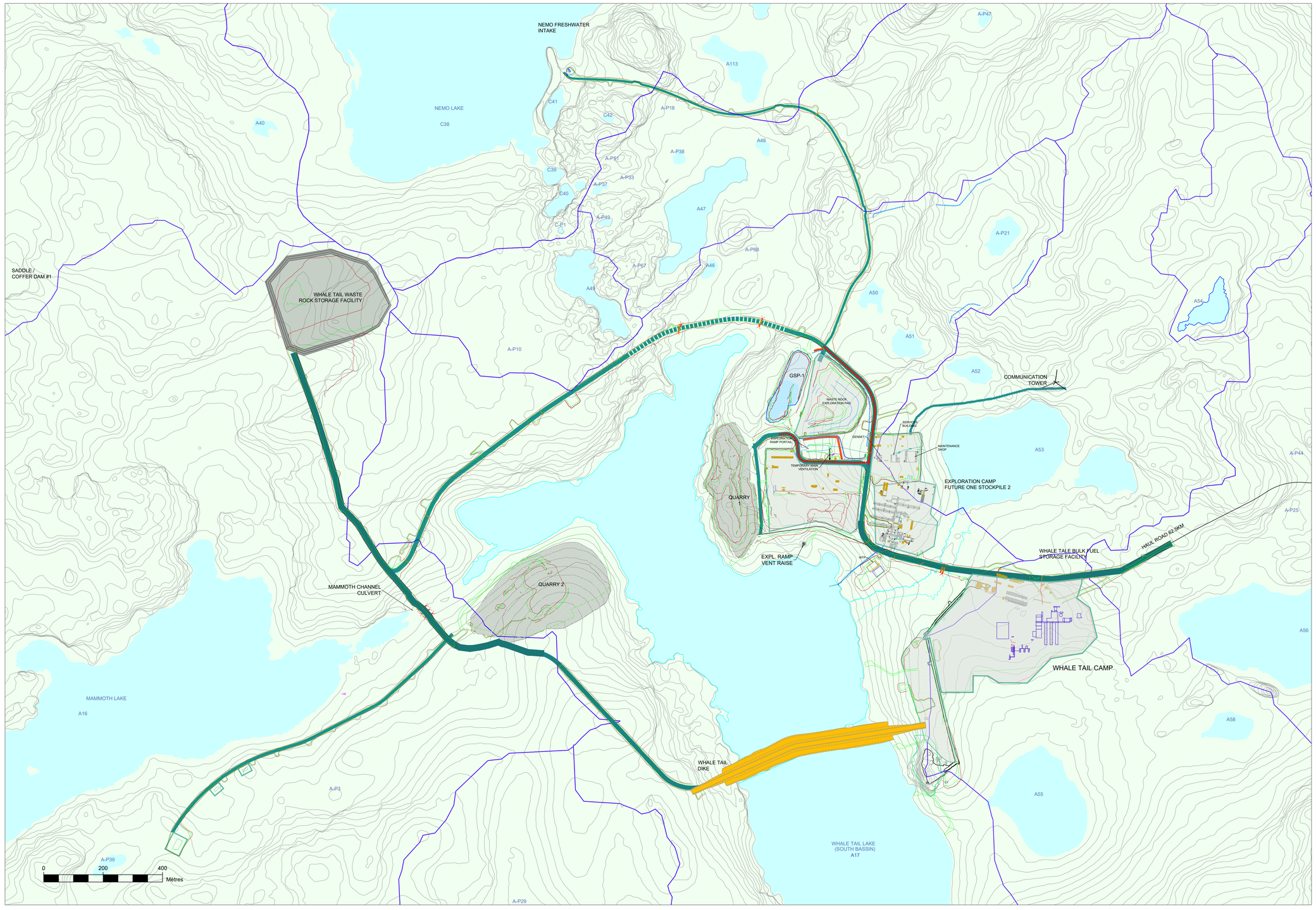


APPENDIX B

Mine Plan Drawings

NO. DESSIN
DRAWING NO. AMQ 2018Q4V8

FORMAT ARCHD



PLAN CLÉ
KEY PLAN

ISSUED FOR PERMITTING
AGNICO EAGLE DATE : 2019-05-03

NOTES GÉNÉRALES / GENERAL NOTES

LEGEND

- WATERSHED
- WATER PIPE
- LAKE WATER
- HAUL ROAD, LARGE WIDE
- HAUL ROAD, SINGLE LANE
- SERVICE ROAD
- ROAD, SALT PROTECTION
- ROCK PILE
- WATER POND
- PAD
- BUILDING

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DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS

TITRE / TITLE	# DWG
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AGNICO EAGLE

REV.	DATE	DESCRIPTION	PAR/BY	APP.	CLIENT

REVISIONS

AMARUQ PROJECT

TITRE / TITLE
AGNICO EAGLE – MEADOWBANK DIVISION
AMARUQ MINE PROJECT
005 – SITE PREPARATION
210 GENERAL ARRANGEMENT
AMARUQ MINE SITE ARRANGEMENT
–

DESSINÉ PAR / DRAWN BY	J. CRETE	DATE 2018-05-01
VERIFIÉ PAR / CHECKED BY		
APPROUVÉ PAR / APPROVED BY		
ÉCHELLE / SCALE 1:6000	DATE 2018-05-01	
NO. DESSIN / DRAWING NO. 2018 Q4		
NO. PROJET / PROJECT NO. 6117	REVISION v8	FEUILLE / SHT 3 / 6

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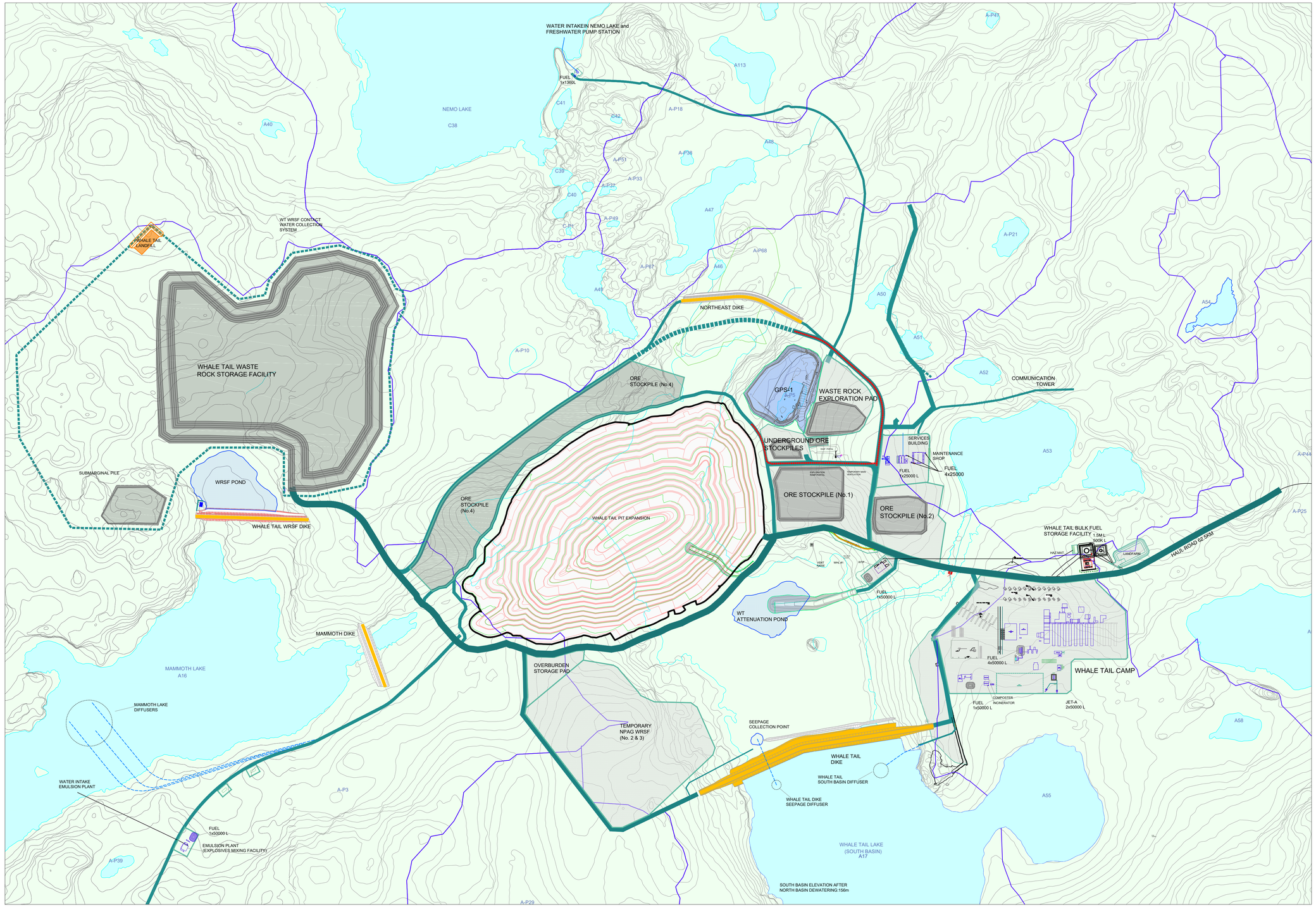

PLAN CLÉ
KEY PLAN

ISSUED FOR PERMITTING
DATE : 2019-05-06

NOTES GÉNÉRALES / GENERAL NOTES

LEGEND

- WATERSHED
- ATTENUATION POND
- WATER PIPE
- LAKE WATER
- OPEN PIT
- HAUL ROAD, LARGE WIDE
- HAUL ROAD, SINGLE LANE
- SERVICE ROAD
- ROAD, SALT PROTECTION
- ROCK PILE
- WATER POND
- PAD
- BUILDING

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AGNICO EAGLE

REV.	DATE	DESCRIPTION	PAR/BY	APP.	CLIENT

REVISIONS

AMARUQ PROJECT

TITRE / TITLE

AGNICO EAGLE – MEADOWBANK DIVISION
AMARUQ MINE PROJECT
005 – SITE PREPARATION
210 GENERAL ARRANGEMENT
AMARUQ MINE SITE ARRANGEMENT
PERMITTING

DESSINÉ PAR DRAWN BY	JOCELYN CRETE	DATE 2019-05-02
VÉRIFIÉ PAR CHECKED BY	J.MOSQUERA	2019-05-02
APPROUVÉ PAR APPROVED BY		
ÉCHELLE SCALE	1:6000	DATE 2019-05-02
NO. DESSIN DRAWING NO.	2019Q4	
NO. PROJET PROJECT NO.	6117	REVISION v8 / FEUILLE / SHT 3 / 6

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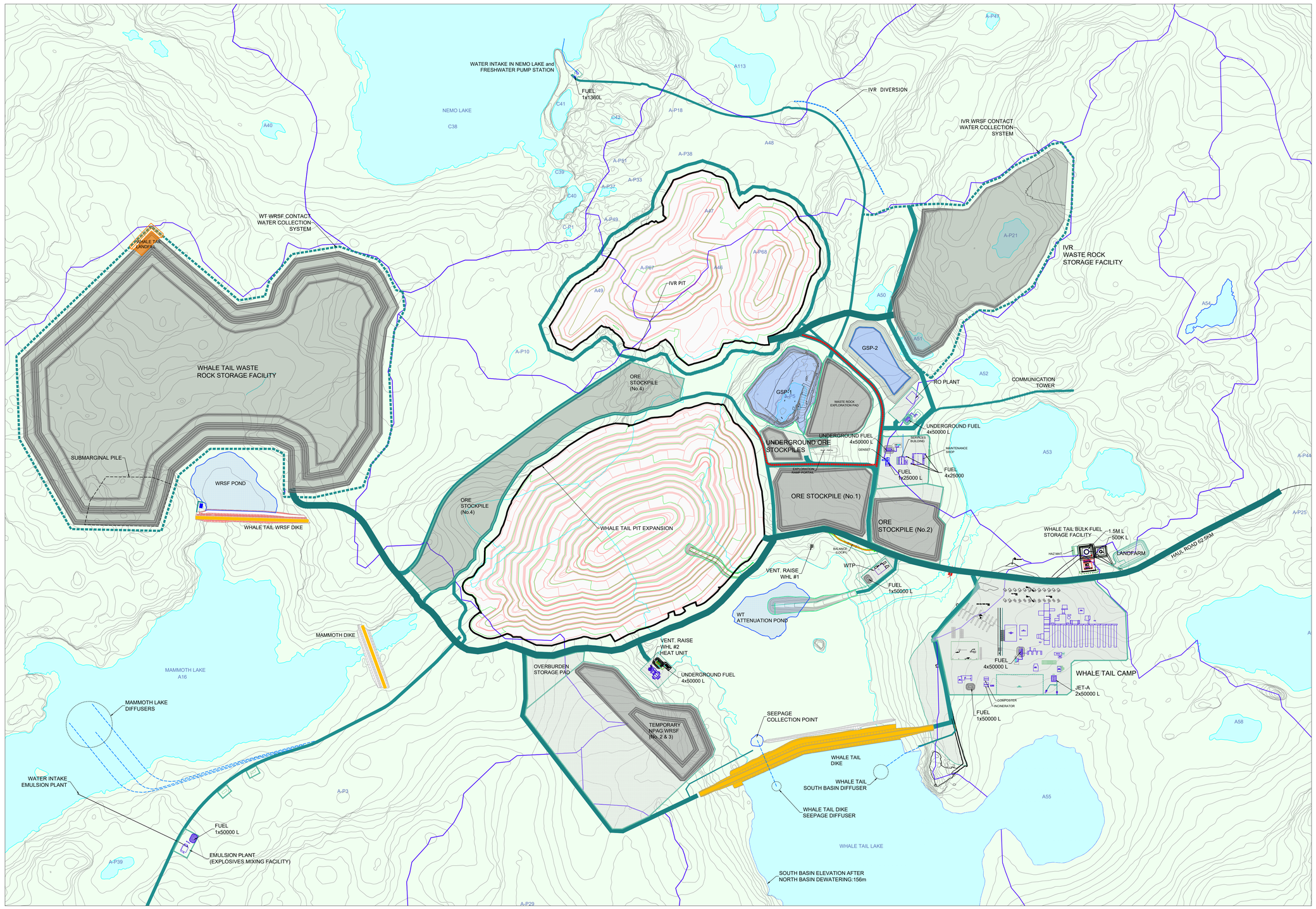

PLAN CLÉ
KEY PLAN

ISSUED FOR PERMITTING
AGNICO EAGLE DATE : 2019-05-06

NOTES GÉNÉRALES / GENERAL NOTES

LEGEND

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AMARUQ PROJECT

TITRE / TITLE
AGNICO EAGLE – MEADOWBANK DIVISION
AMARUQ MINE PROJECT
005 – SITE PREPARATION
210 GENERAL ARRANGEMENT
AMARUQ MINE SITE ARRANGEMENT
PERMITTING

DESSINÉ PAR / DRAWN BY	J. CRETE	DATE 2019-05-02
VÉRIFIÉ PAR / CHECKED BY	J. MOSQUERA	2019-05-02
APPROUVÉ PAR / APPROVED BY		
ÉCHELLE / SCALE	1:6000	DATE 2019-05-02
NO. DESSIN / DRAWING NO.	2020Q4	
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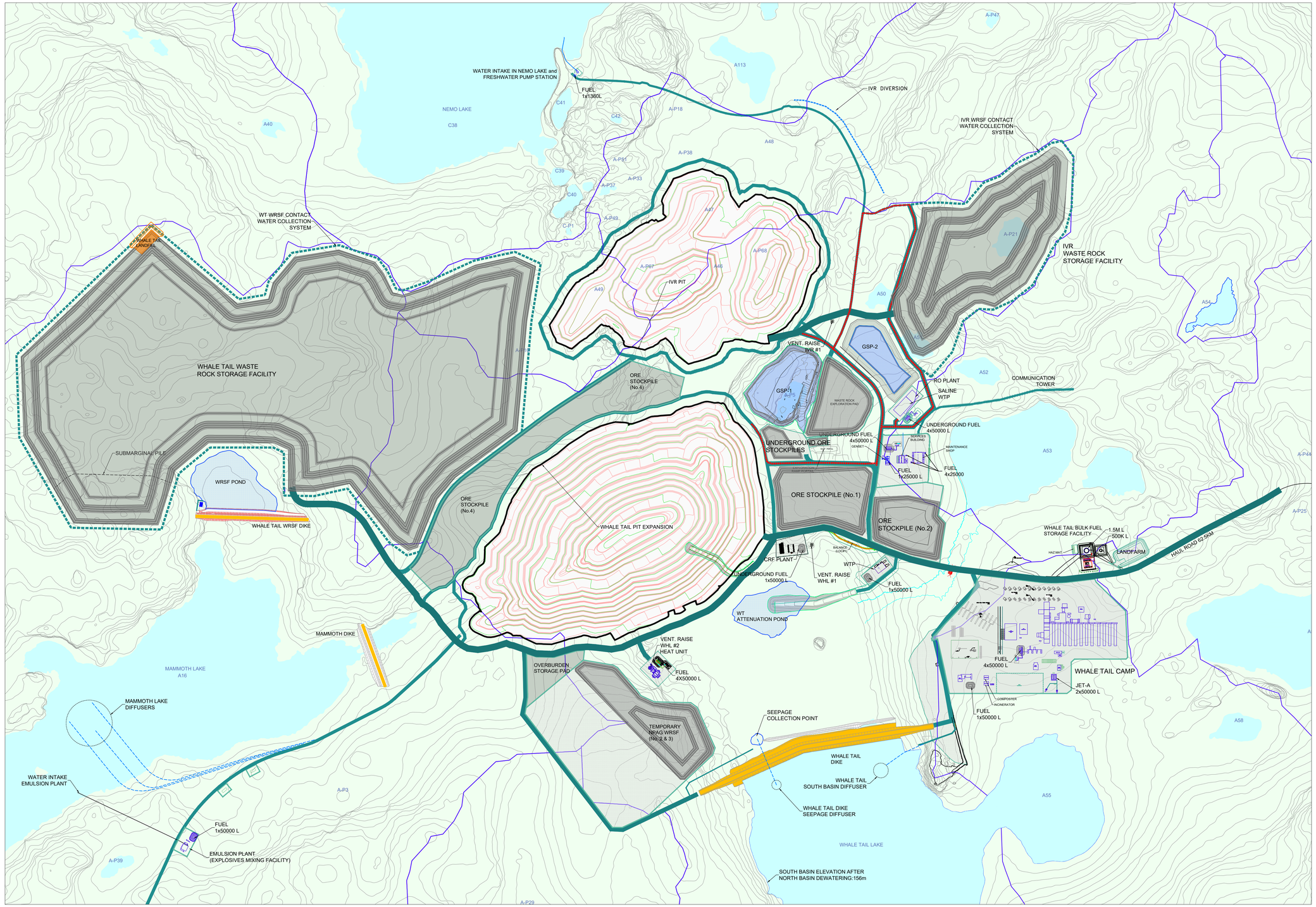

PLAN CLÉ
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AGNICO EAGLE DATE : 2019-05-06

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AGNICO EAGLE – MEADOWBANK DIVISION
AMARUQ MINE PROJECT
005 – SITE PREPARATION
210 GENERAL ARRANGEMENT
AMARUQ MINE SITE ARRANGEMENT
PERMITTING

DESSINÉ PAR DRAWN BY	J.CRETE	DATE 2019-05-02
VERIFIÉ PAR CHECKED BY	J.MOSQUERA	2019-05-02
APPROUVÉ PAR APPROVED BY		
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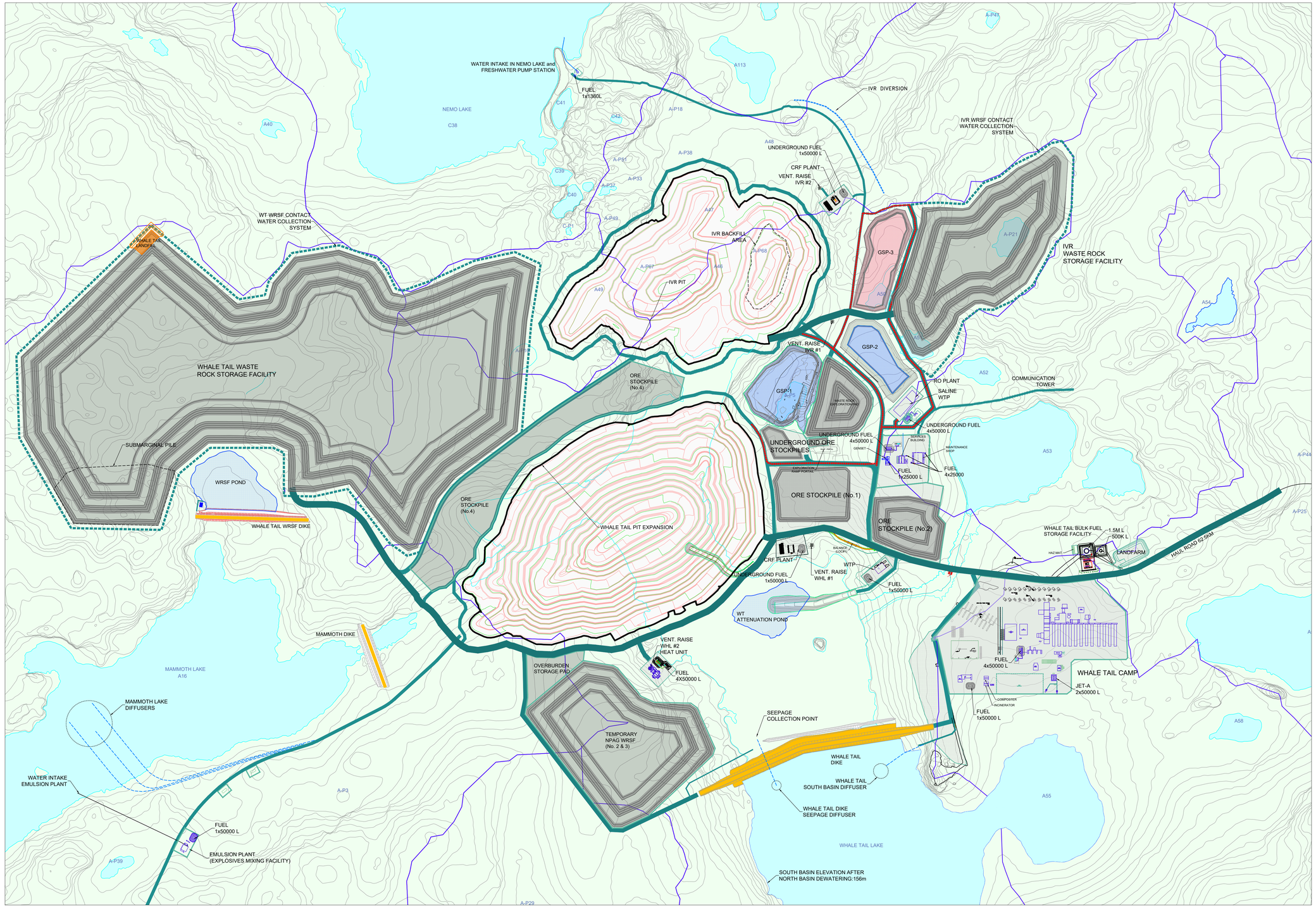

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AGNICO EAGLE – MEADOWBANK DIVISION
AMARUQ MINE PROJECT
005 – SITE PREPARATION
210 GENERAL ARRANGEMENT
AMARUQ MINE SITE ARRANGEMENT
PERMITTING

DESSINÉ PAR DRAWN BY	J.CRETE	DATE 2019-05-02
VERIFIÉ PAR CHECKED BY	J.MOSQUERA	2019-05-02
APPROUVÉ PAR APPROVED BY		
ÉCHELLE SCALE	1:6000	DATE 2019-05-02
NO. DESSIN DRAWING NO.	2022Q4	
NO. PROJET PROJECT NO.	6117	REVISION v8
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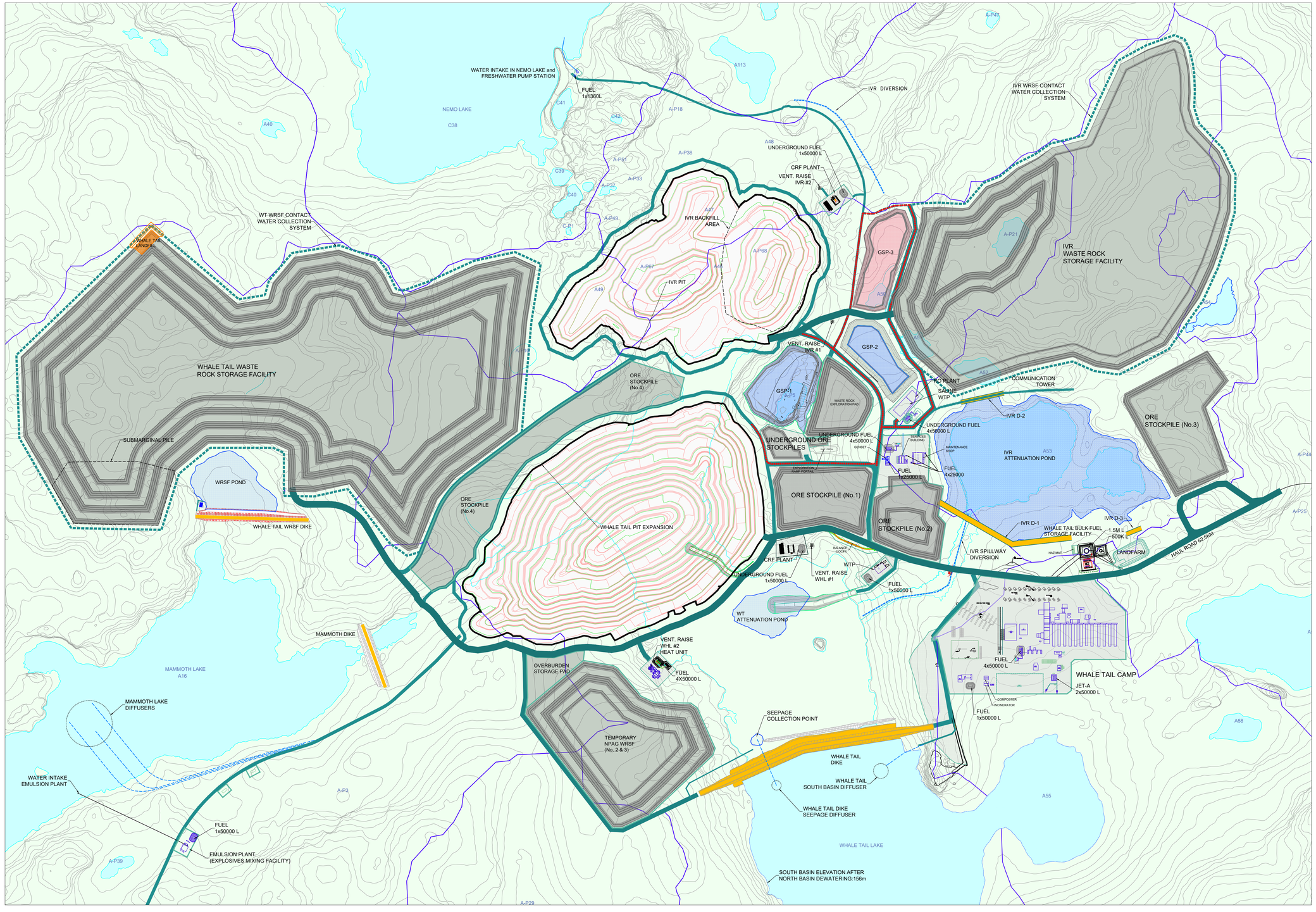

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REVISIONS

AMARUQ PROJECT

TITRE / TITLE

AGNICO EAGLE – MEADOWBANK DIVISION
AMARUQ MINE PROJECT
005 – SITE PREPARATION
210 GENERAL ARRANGEMENT
AMARUQ MINE SITE ARRANGEMENT
PERMITTING

DESSINÉ PAR DRAWN BY	J.CRETE	DATE	2019-05-02
VÉRIFIÉ PAR CHECKED BY	J.MOSQUERA		2019-05-02
APPROUVÉ PAR APPROVED BY			
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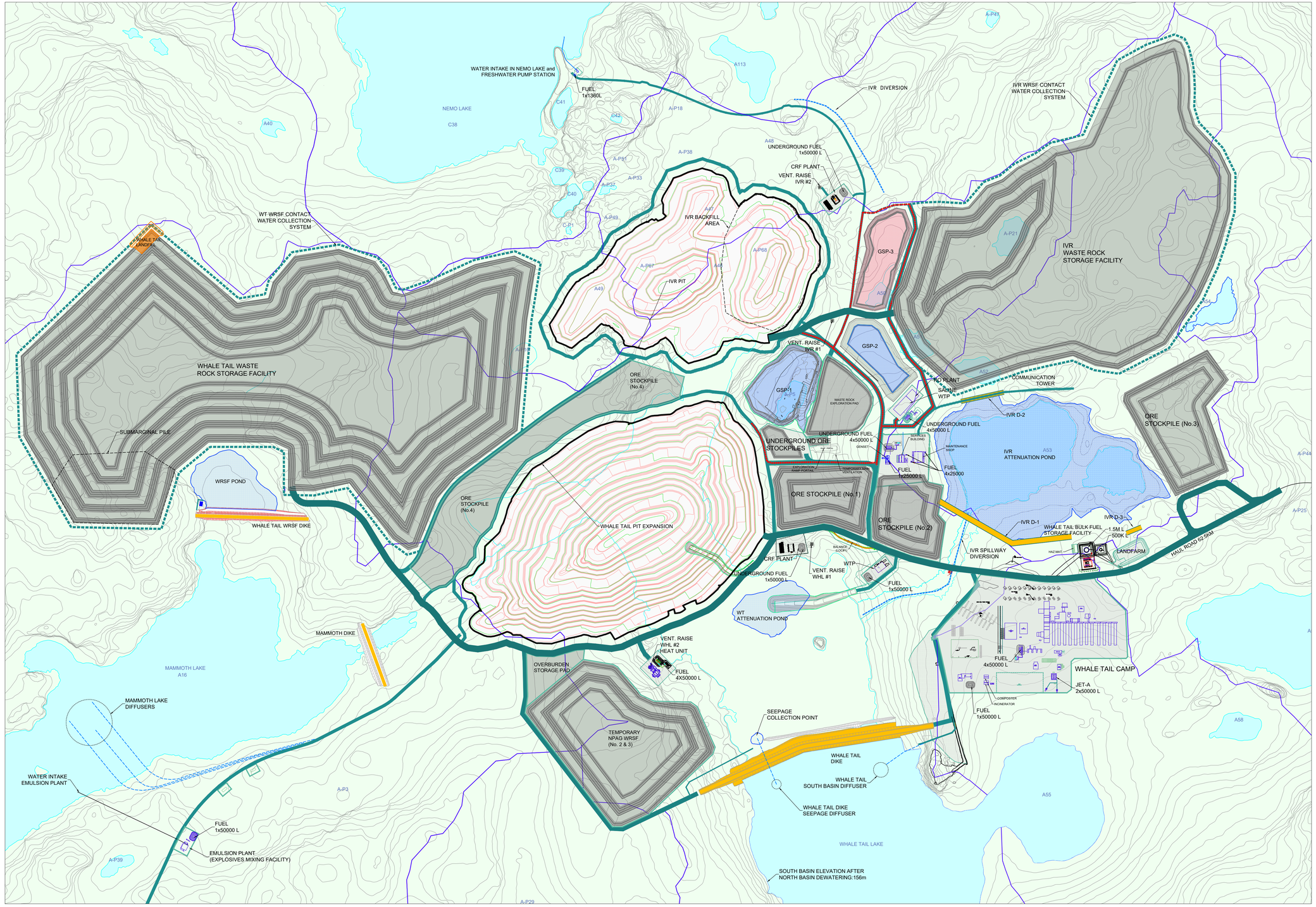

PLAN CLÉ
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ISSUED FOR PERMITTING
AGNICO EAGLE DATE : 2019-05-06

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AGNICO EAGLE

REV.	DATE	DESCRIPTION	PAR/BY	APP.	CLIENT

REVISIONS

AMARUQ PROJECT

TITRE / TITLE

AGNICO EAGLE – MEADOWBANK DIVISION
AMARUQ MINE PROJECT
005 – SITE PREPARATION
210 GENERAL ARRANGEMENT
AMARUQ MINE SITE ARRANGEMENT
PERMITTING

DESSINÉ PAR DRAWN BY	J.CRETE	DATE 2019-05-02
VERIFIÉ PAR CHECKED BY	J.MOSQUERA	2019-05-02
APPROUVÉ PAR APPROVED BY		
ÉCHELLE SCALE	1:6000	DATE 2019-05-02
NO. DESSIN DRAWING NO.	2024Q4	
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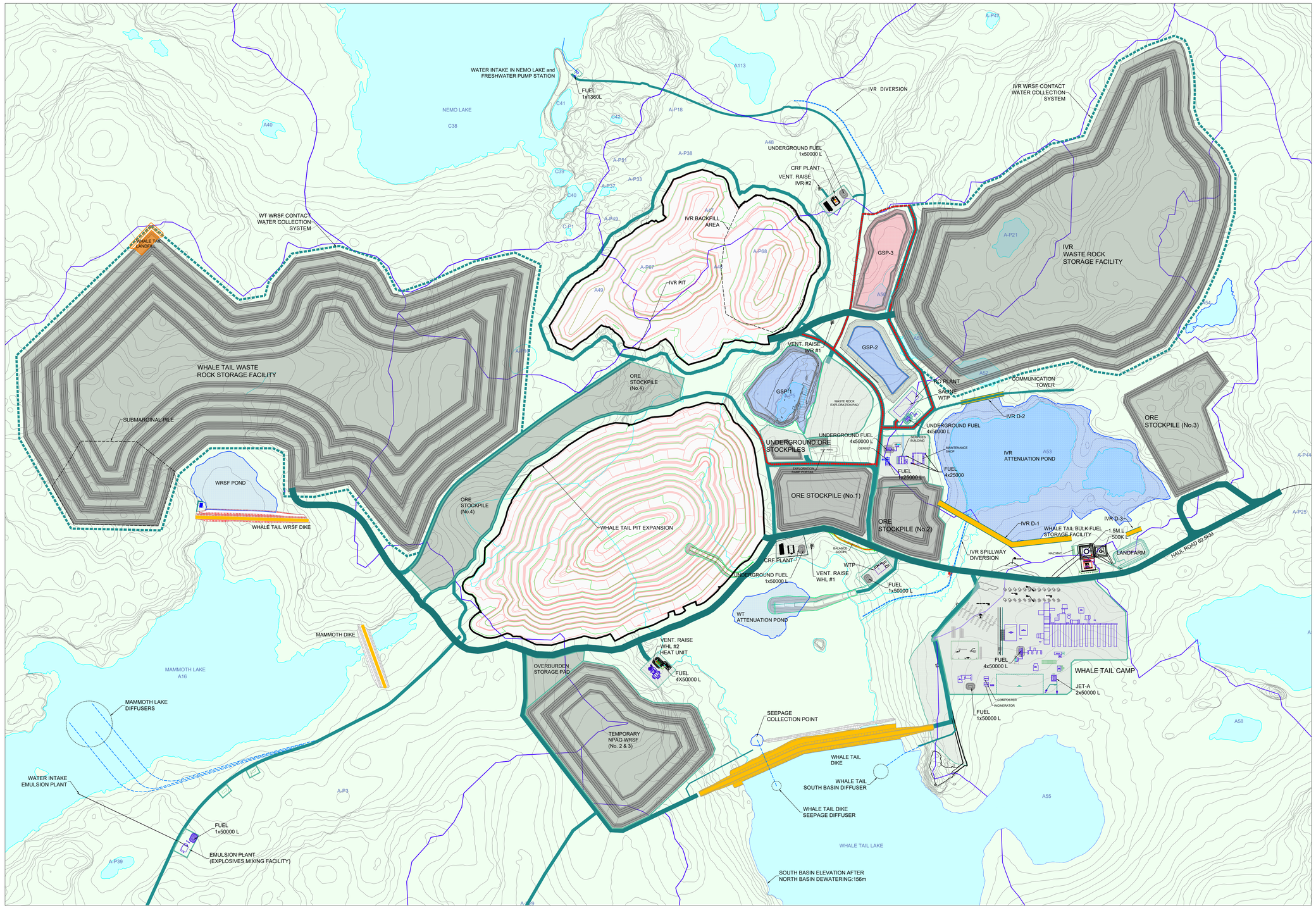

PLAN CLÉ
KEY PLAN

ISSUED FOR PERMITTING
AGNICO EAGLE DATE : 2019-05-06

NOTES GÉNÉRALES / GENERAL NOTES

LEGEND

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AGNICO EAGLE

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REVISIONS

AMARUQ PROJECT

TITRE / TITLE

AGNICO EAGLE – MEADOWBANK DIVISION
AMARUQ MINE PROJECT
005 – SITE PREPARATION
210 GENERAL ARRANGEMENT
AMARUQ MINE SITE ARRANGEMENT
PERMITTING

DESSINÉ PAR DRAWN BY	J. CRETE	DATE 2019-05-02
VÉRIFIÉ PAR CHECKED BY	J.MOSQUERA	2019-05-02
APPROUVÉ PAR APPROVED BY		
ÉCHELLE SCALE	1:6000	DATE 2019-05-02

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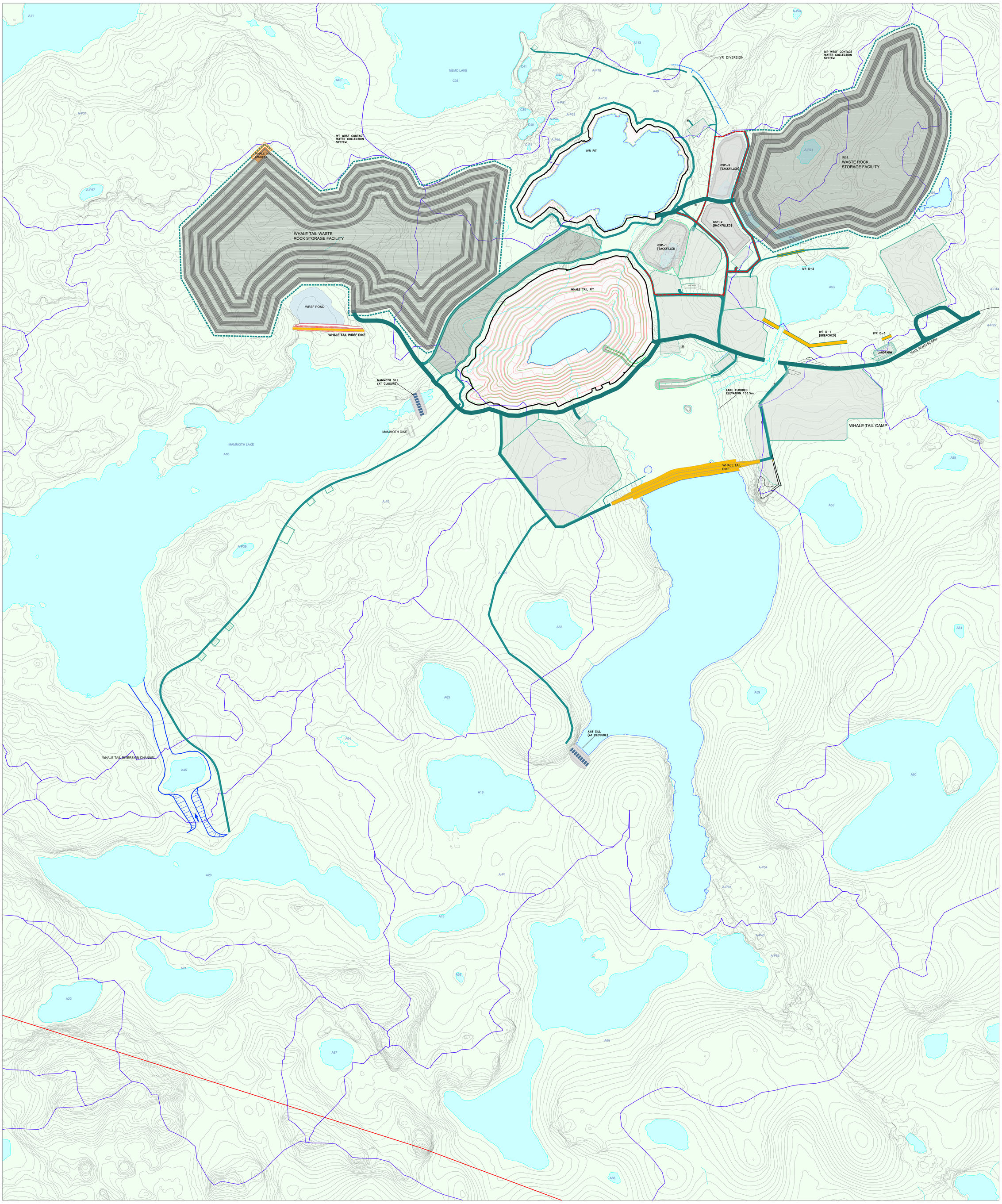

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- SERVICE ROAD
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- WATER POND
- PAD
- BUILDING
- SILL
- WEIR

NOTES GÉNÉRALES / GENERAL NOTES

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DATE : 2019-05-06

TITRE / TITLE	# DWG
DESSINS EN RÉFÉRENCE / REFERENCE DRAWINGS	

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REVISIONS			

AMARUQ PROJECT

AGNICO EAGLE

DESSINÉ PAR DRAWN BY	JOCELYN CRETE	DATE 2019-05-02
VÉRIFIÉ PAR CHECKED BY	J.MOSQUERA	2019-05-02
APPROUVÉ PAR APPROVED BY		
PROJET NO. PROJECT NO.	6117	
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005 – SITE PREPARATION
210 GENERAL ARRANGEMENT
AMARUQ MINE SITE ARRANGEMENT – PERMITTING

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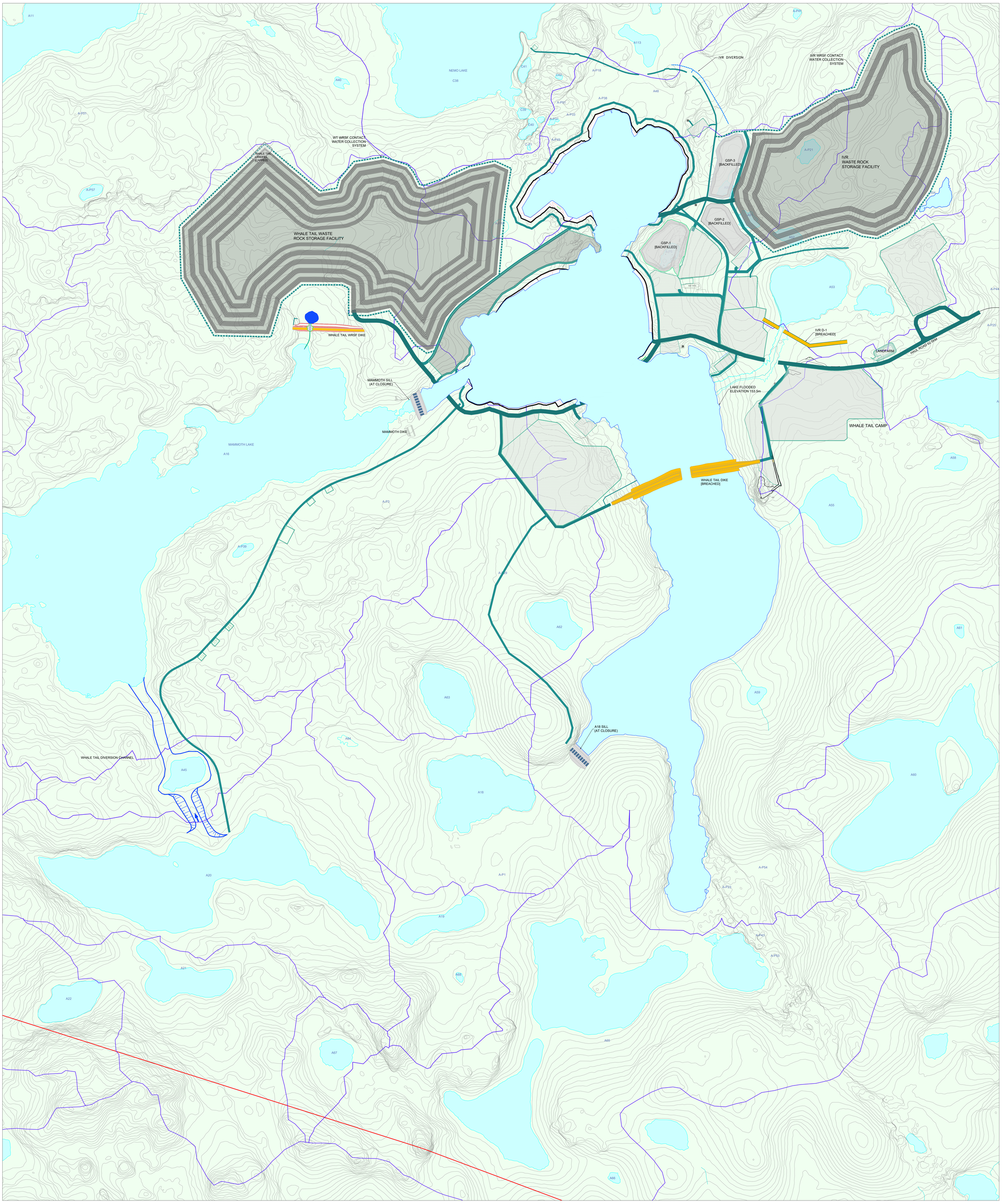

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NOTES GÉNÉRALES / GENERAL NOTES

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REVISIONS			

AMARUQ PROJECT

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005 – SITE PREPARATION
210 GENERAL ARRANGEMENT
AMARUQ MINE SITE ARRANGEMENT – PERMITTING

ÉCHELLE SCALE	FICHIER FILE
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NO. DESSIN DRAWING NO.	REVISION	FEUILLE / SHEET
2042 POST CLOSURE	v8	1 / 1

FILE NO.

APPENDIX C

Pit and Underground Elevation-Storage-Area Relationships

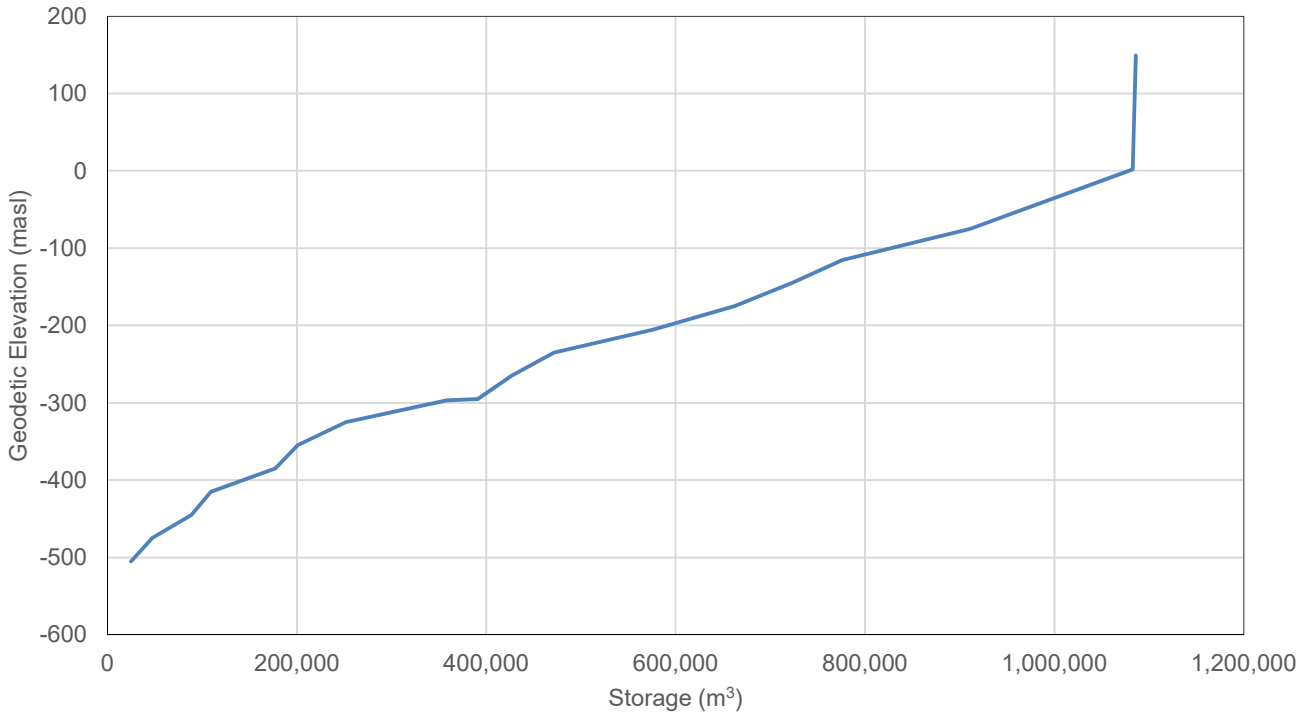

Figure C-1: Derived Elevation-Storage Relationship (Underground Mine [Whale Tail])

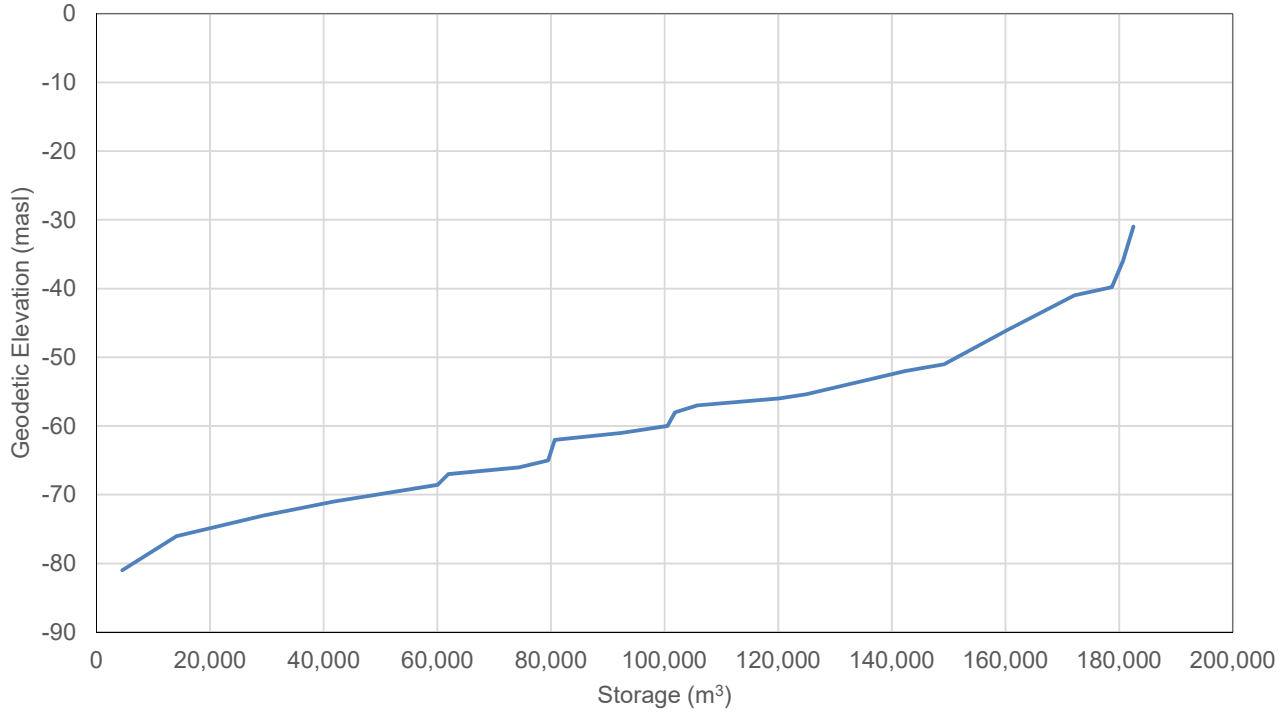

Figure C-2: Derived Elevation-Storage Relationship (Underground Mine [IVR])

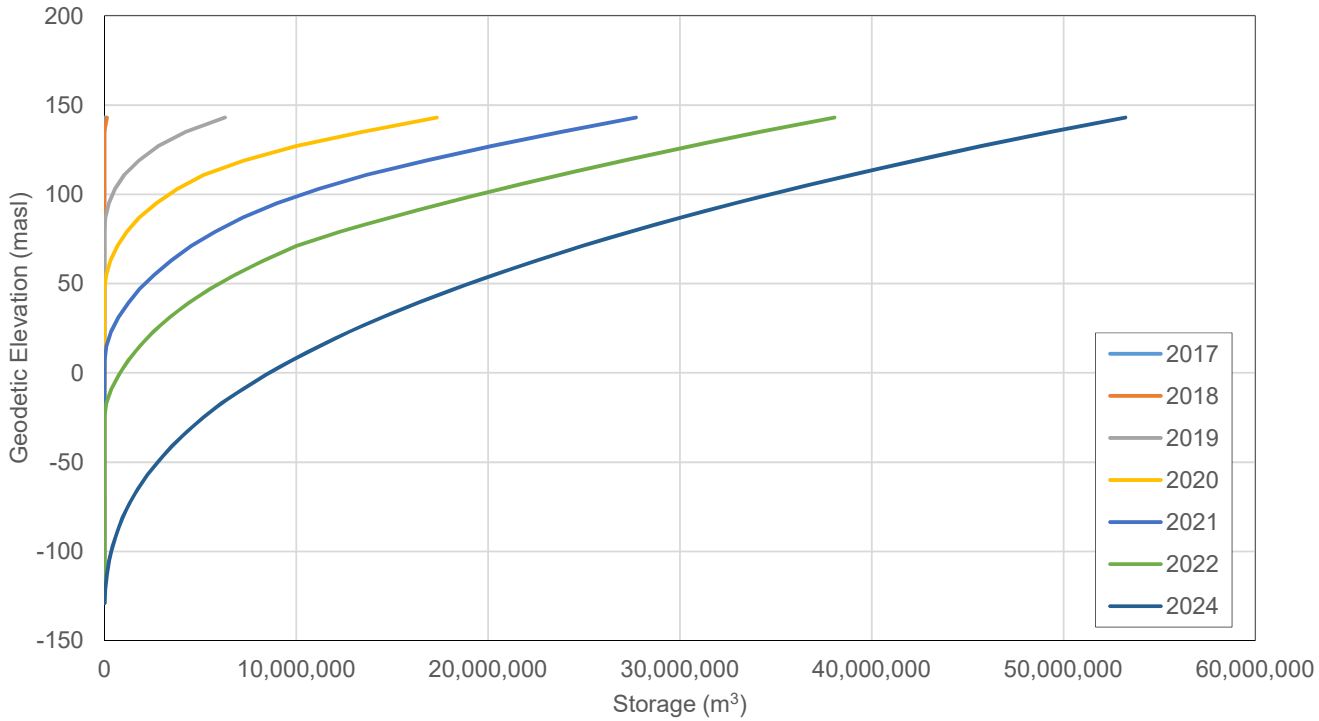

Figure C-3: Derived Elevation-Storage Relationship (Whale Tail Pit)

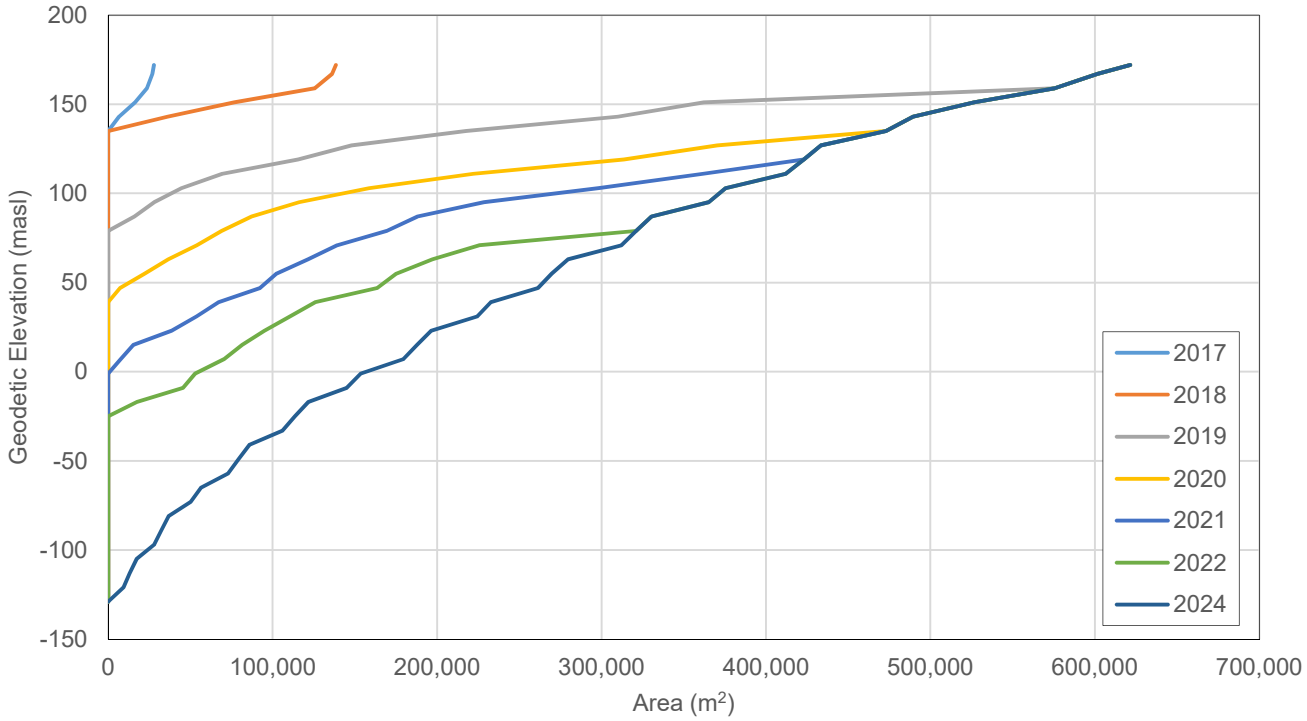

Figure C-4: Derived Elevation-Area Relationship (Whale Tail Pit)

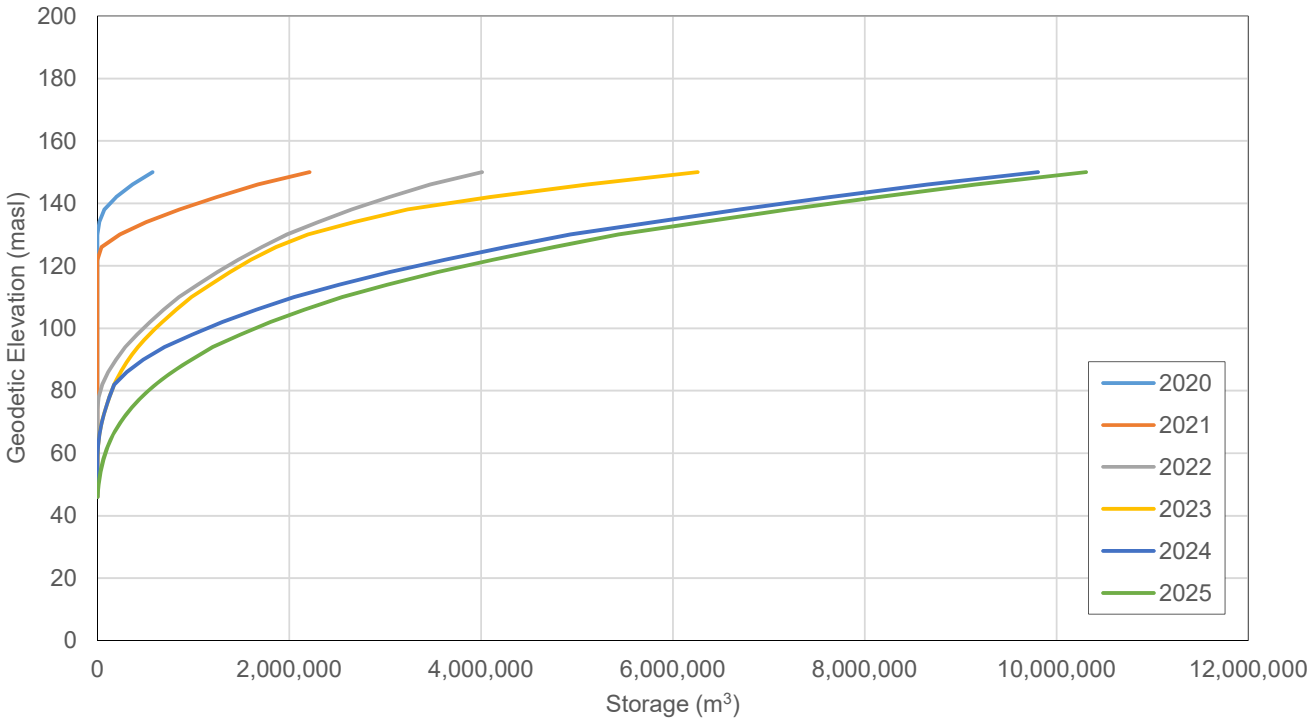

Figure C-5: Derived Elevation-Storage Relationship (IVR Pit)

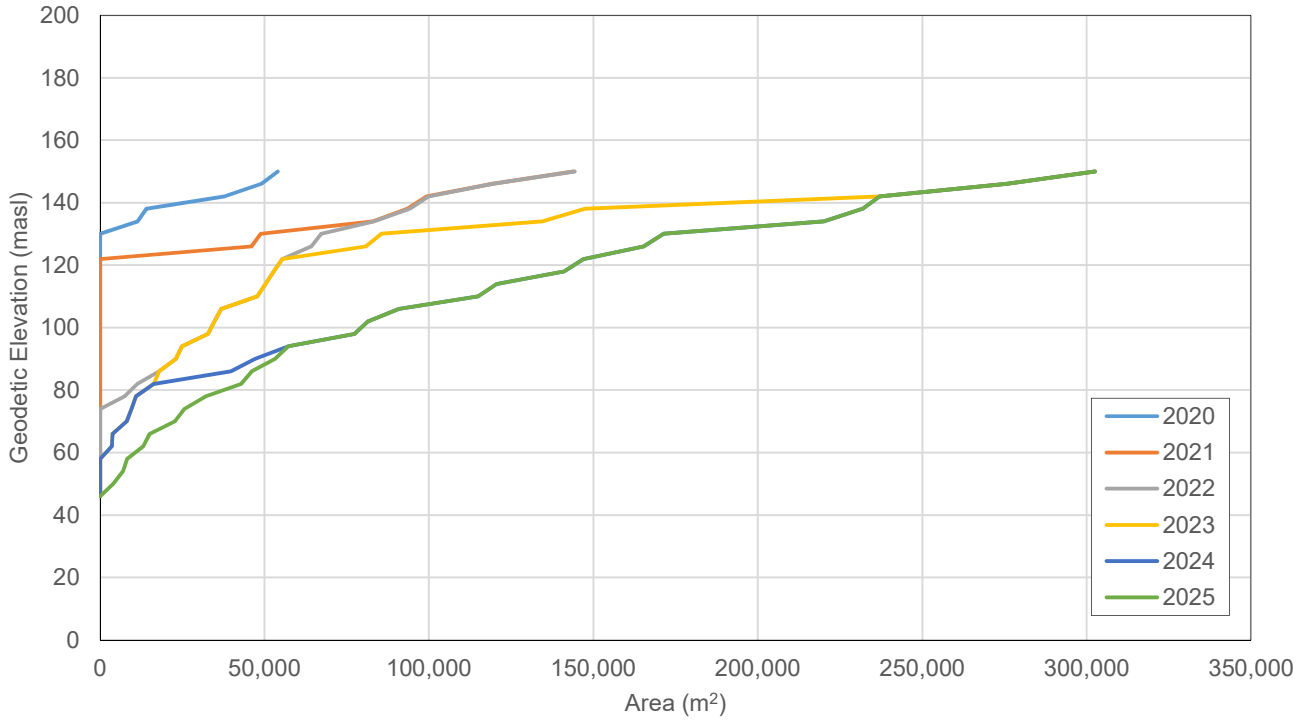

Figure C-6: Derived Elevation-Area Relationship (IVR Pit)

APPENDIX D

Pond Elevation-Storage-Area Relationships

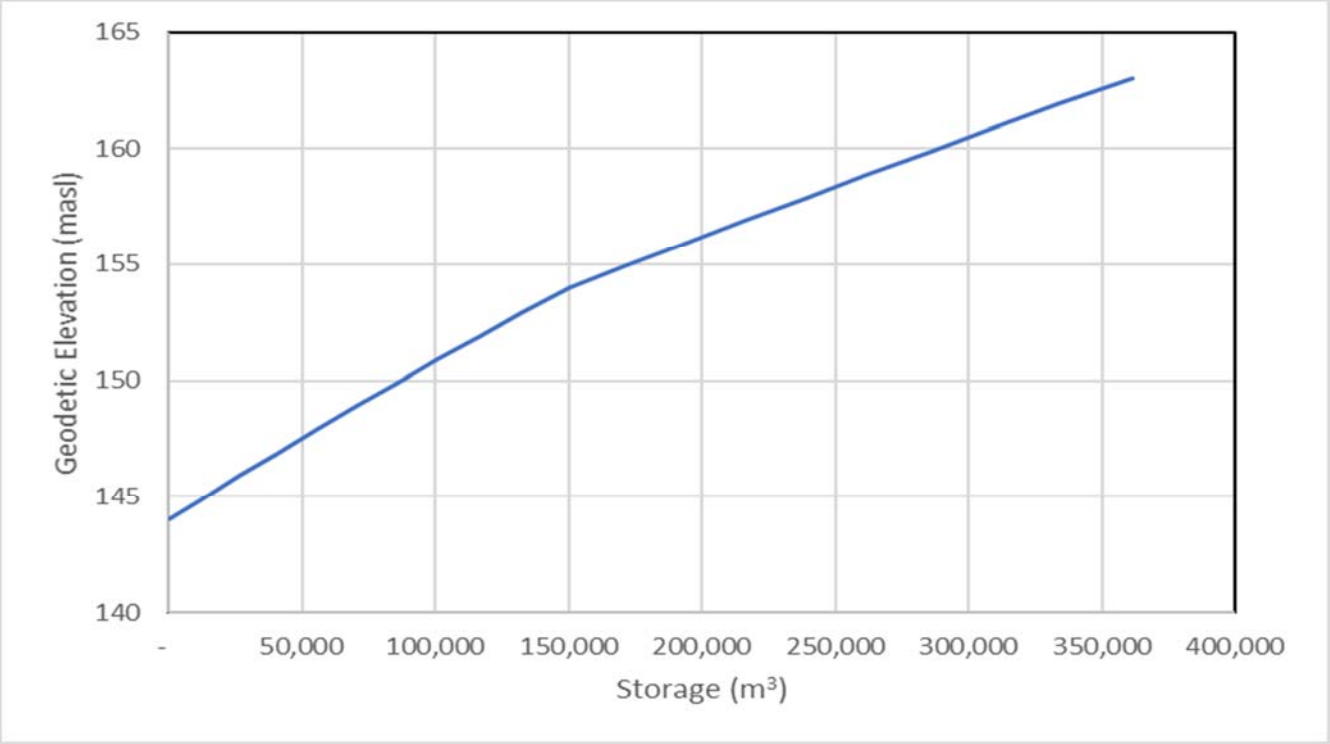

Figure D-1: Derived Elevation-Storage Relationship – GSP-1

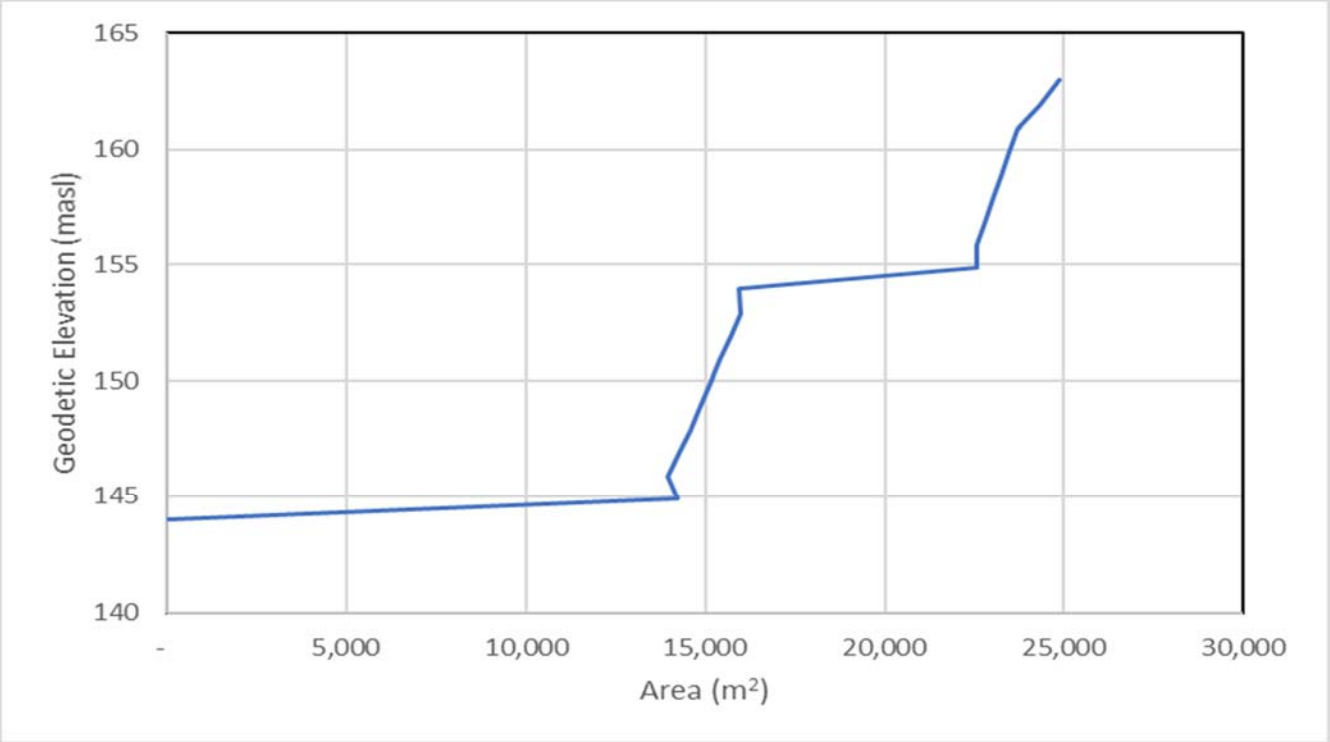

Figure D-2: Derived Elevation-Area Relationship - GSP-1

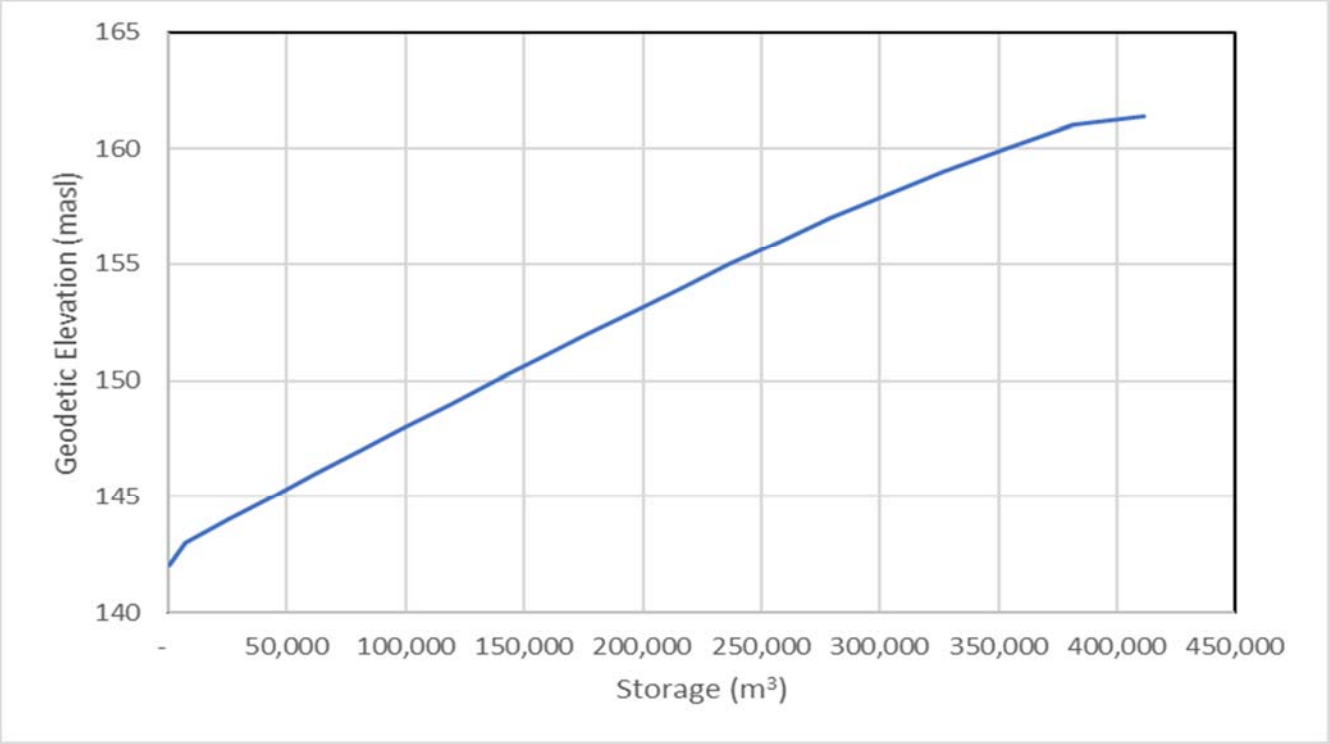

Figure D-3: Derived Elevation-Storage Relationship – GSP-2

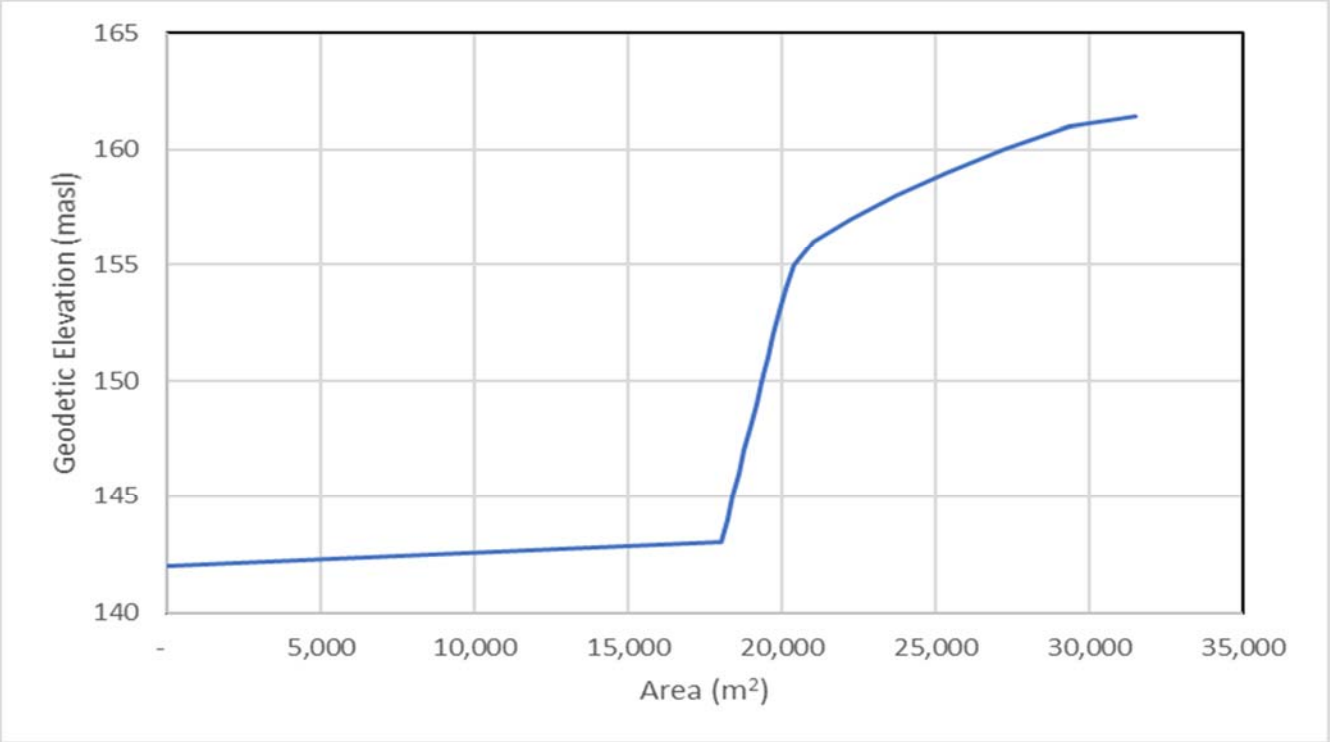

Figure D-4: Derived Elevation-Area Relationship – GSP-2

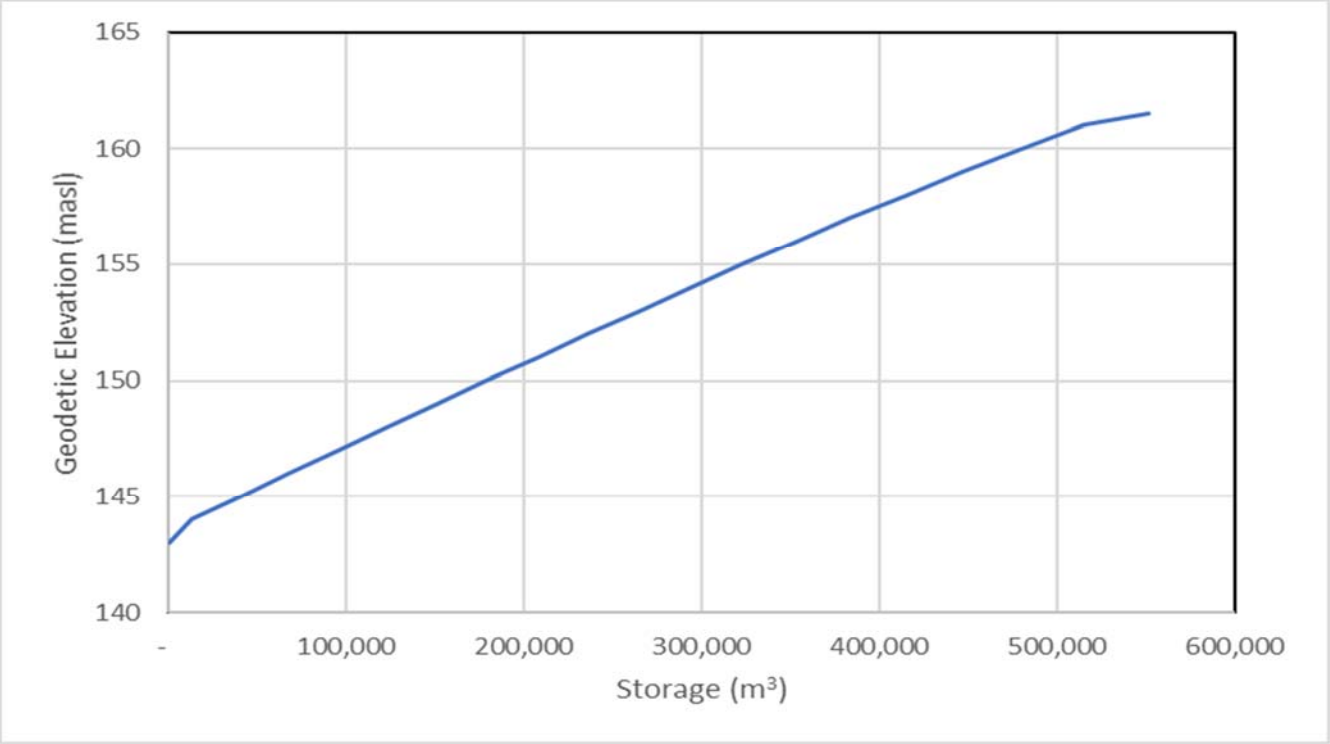

Figure D-5: Derived Elevation-Storage Relationship – GSP-3

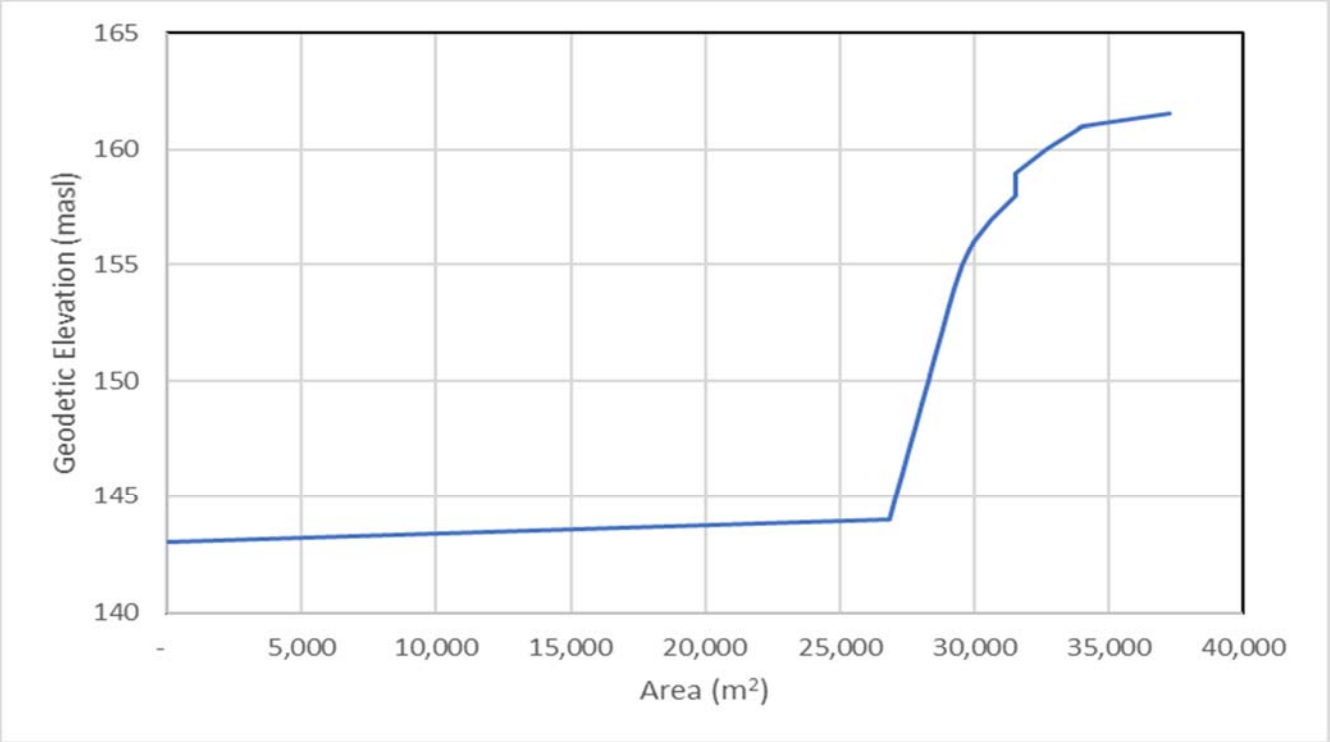

Figure D-6: Derived Elevation-Area Relationship – GSP-3

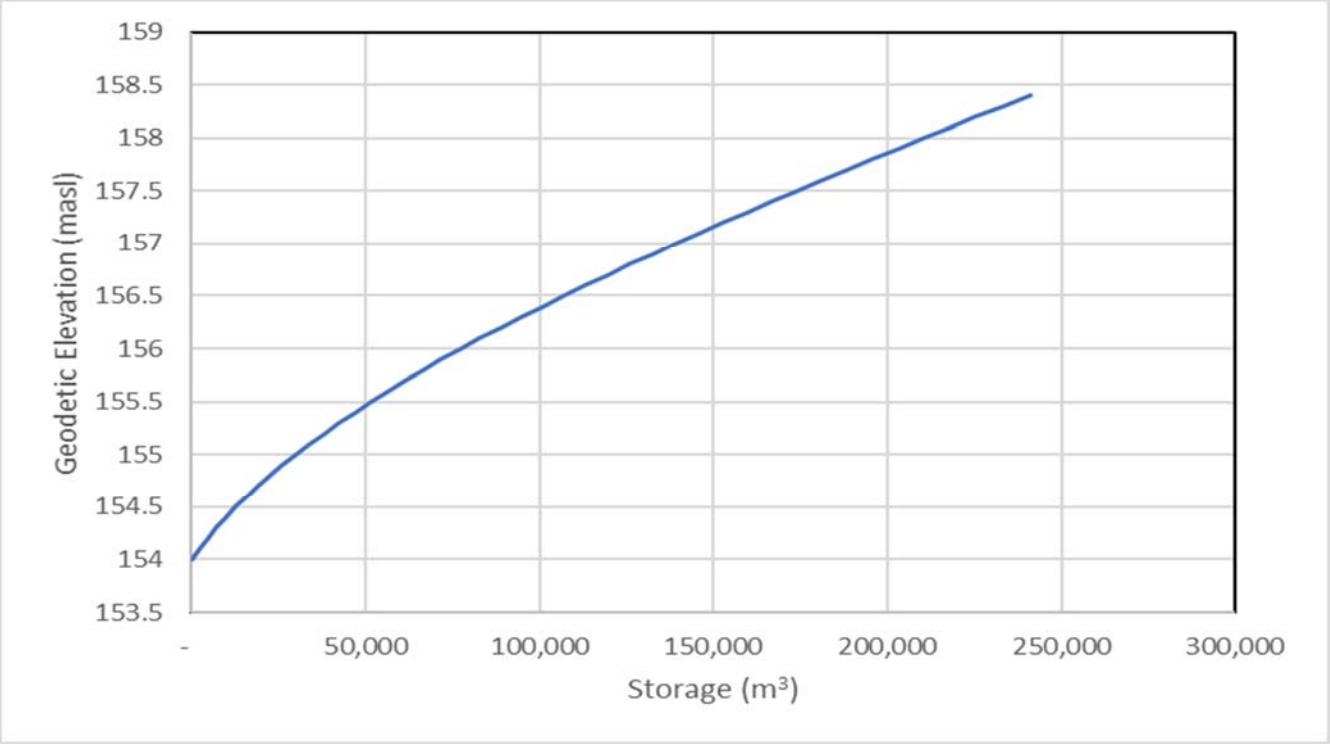

Figure D-7: Derived Elevation-Storage Relationship (Whale Tail WRSF Pond)

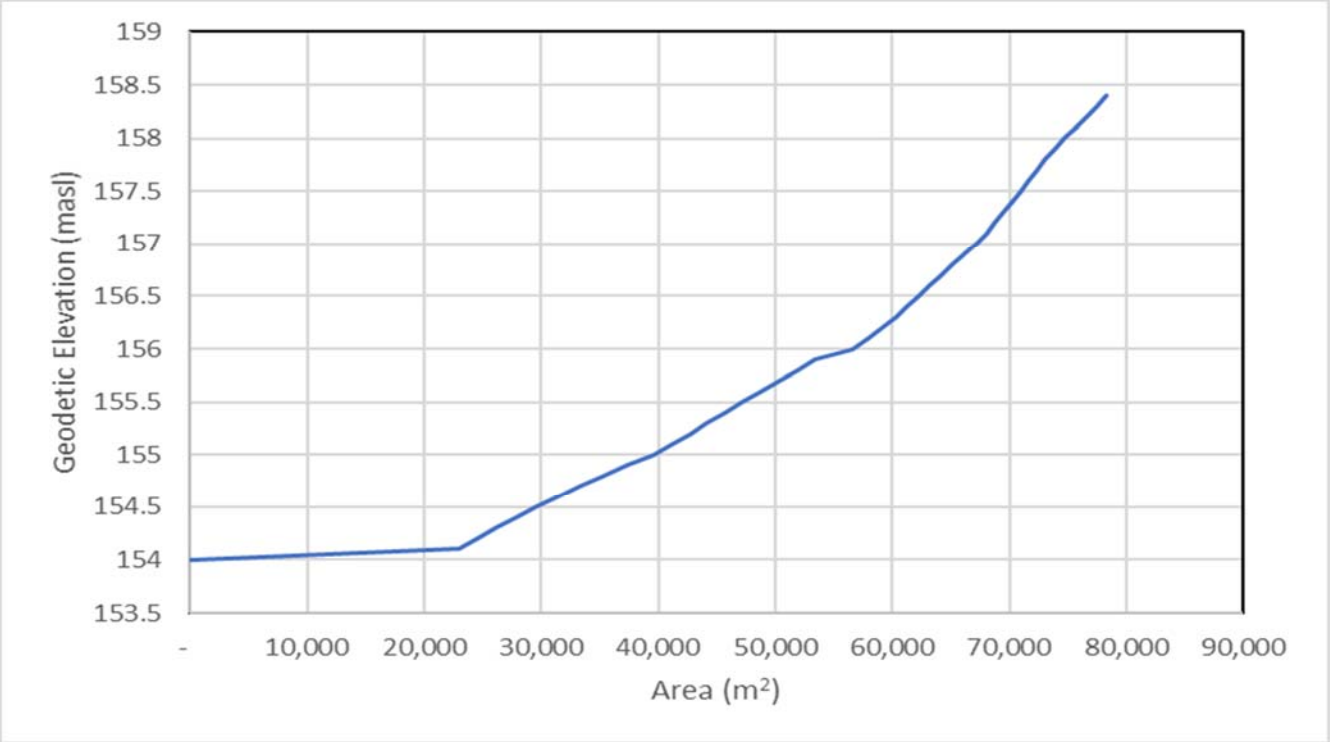

Figure D-8: Derived Elevation-Area Relationship (Whale Tail WRSF Pond)

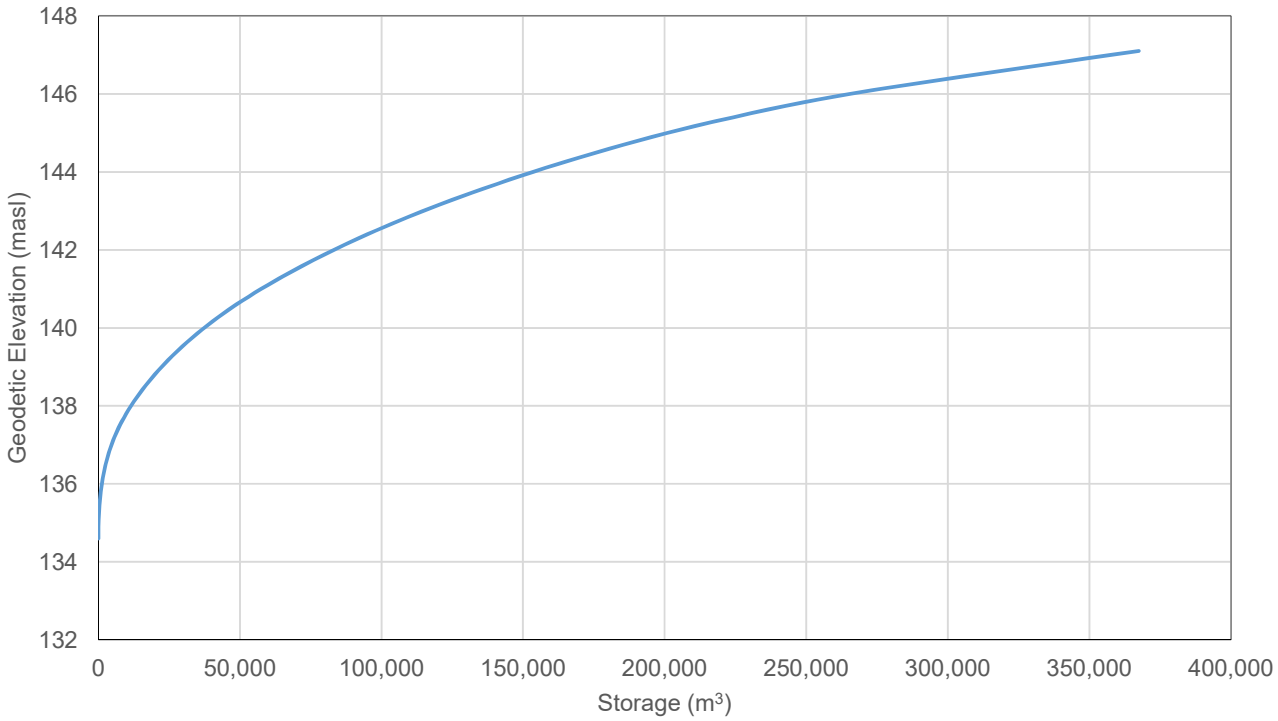

Figure D-9: Derived Elevation-Storage Relationship (Whale Tail Attenuation Pond)

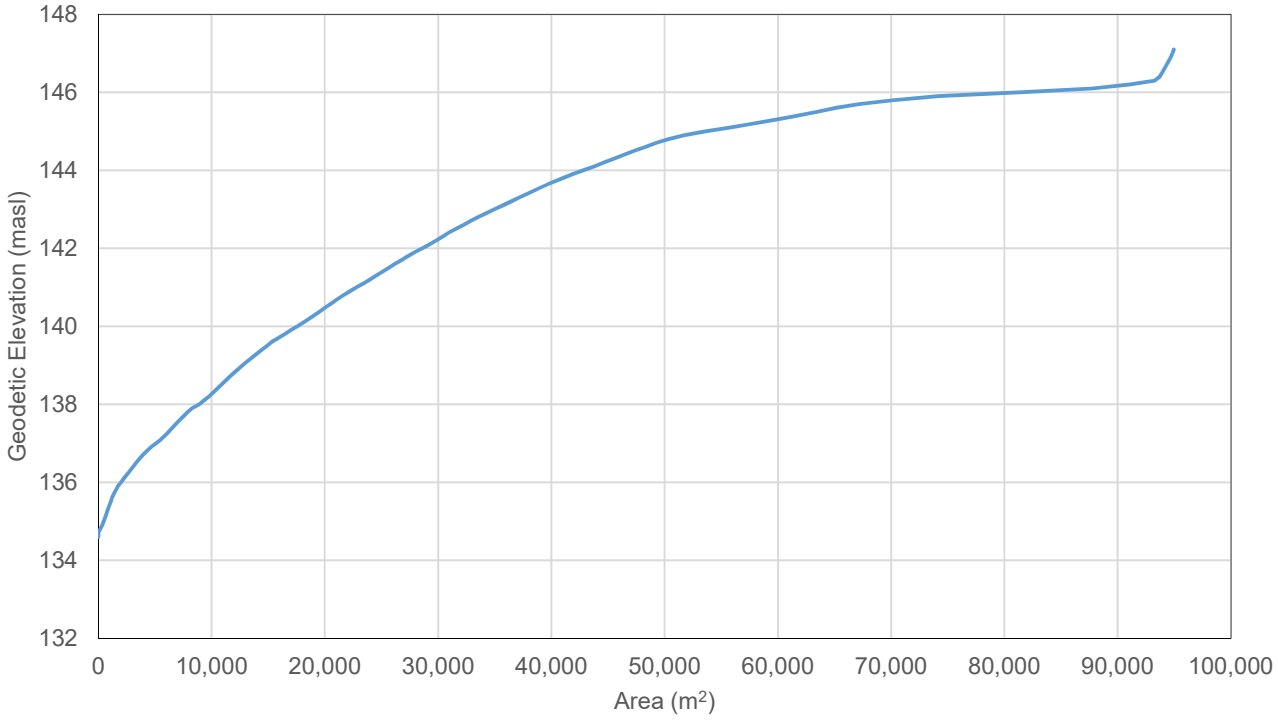

Figure D-10: Derived Elevation-Area Relationship (Whale Tail Attenuation Pond)

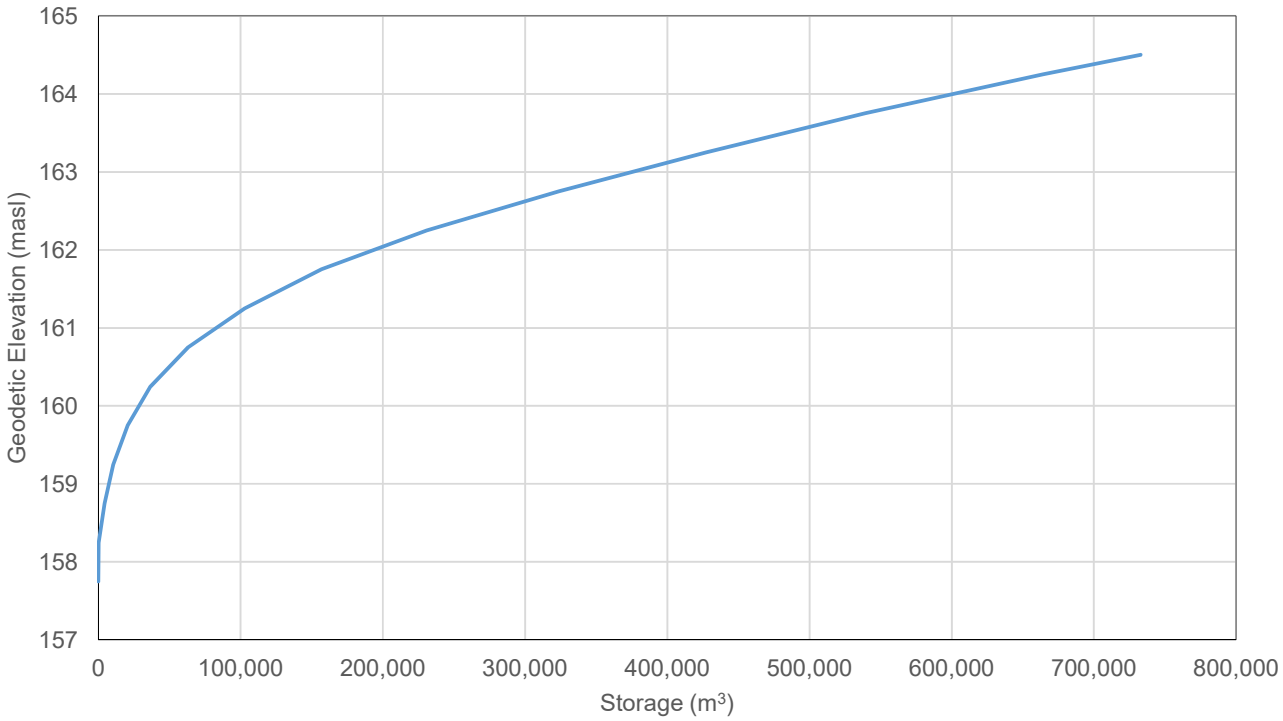

Figure D-11: Derived Elevation-Storage Relationship (IVR Attenuation Pond)

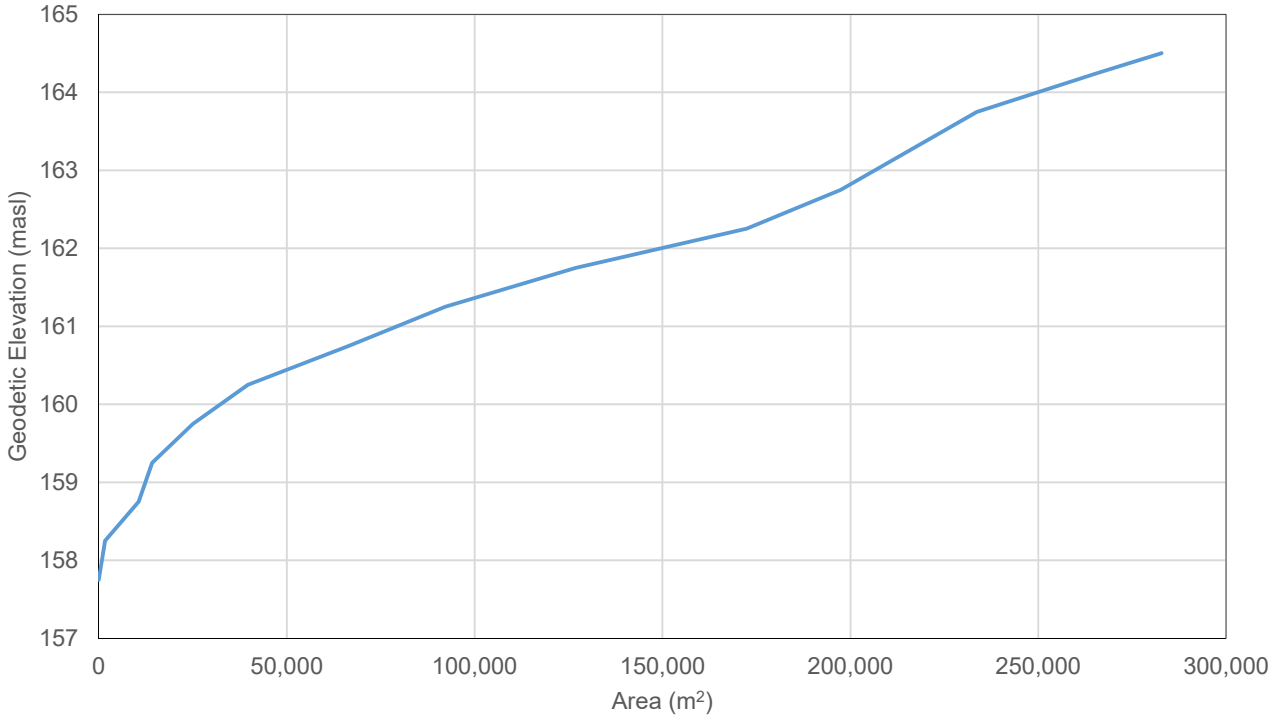

Figure D-12: Derived Elevation-Area Relationship (IVR Attenuation Pond)

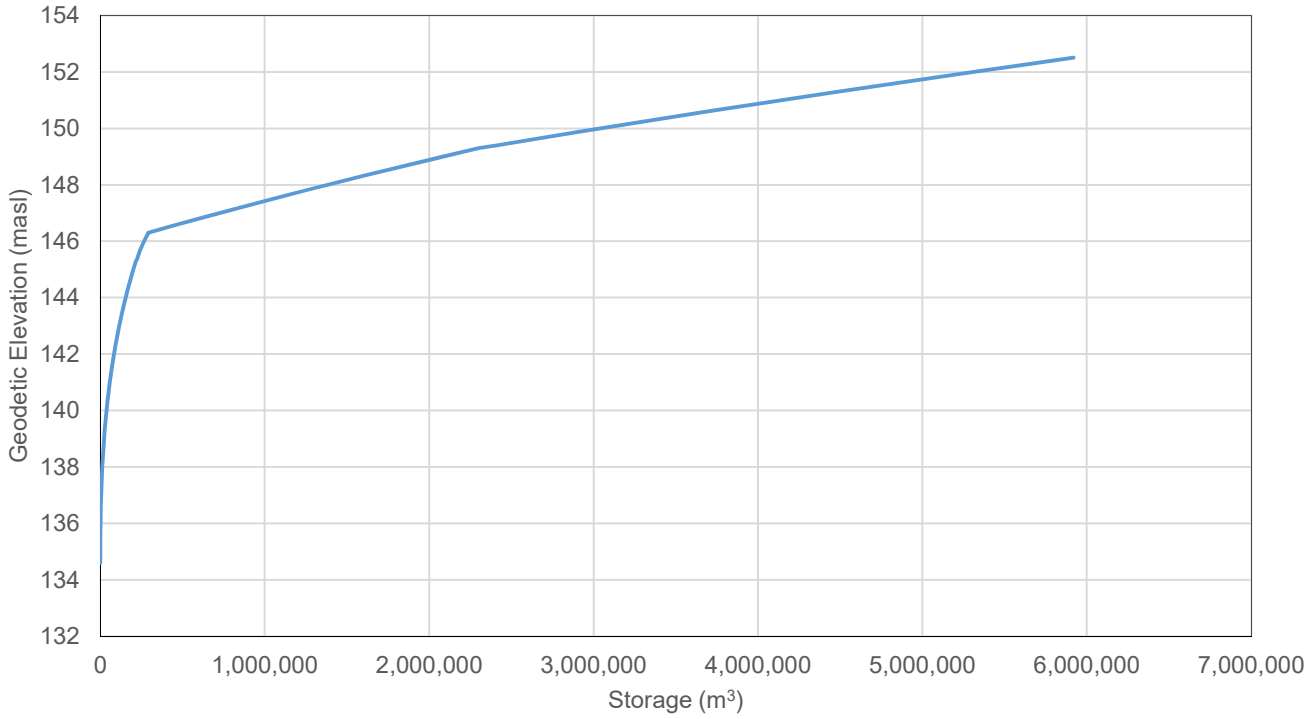

Figure D-13: Derived Elevation-Storage Relationship (Whale Tail Lake [North Basin] above the Whale Tail Attenuation Pond)

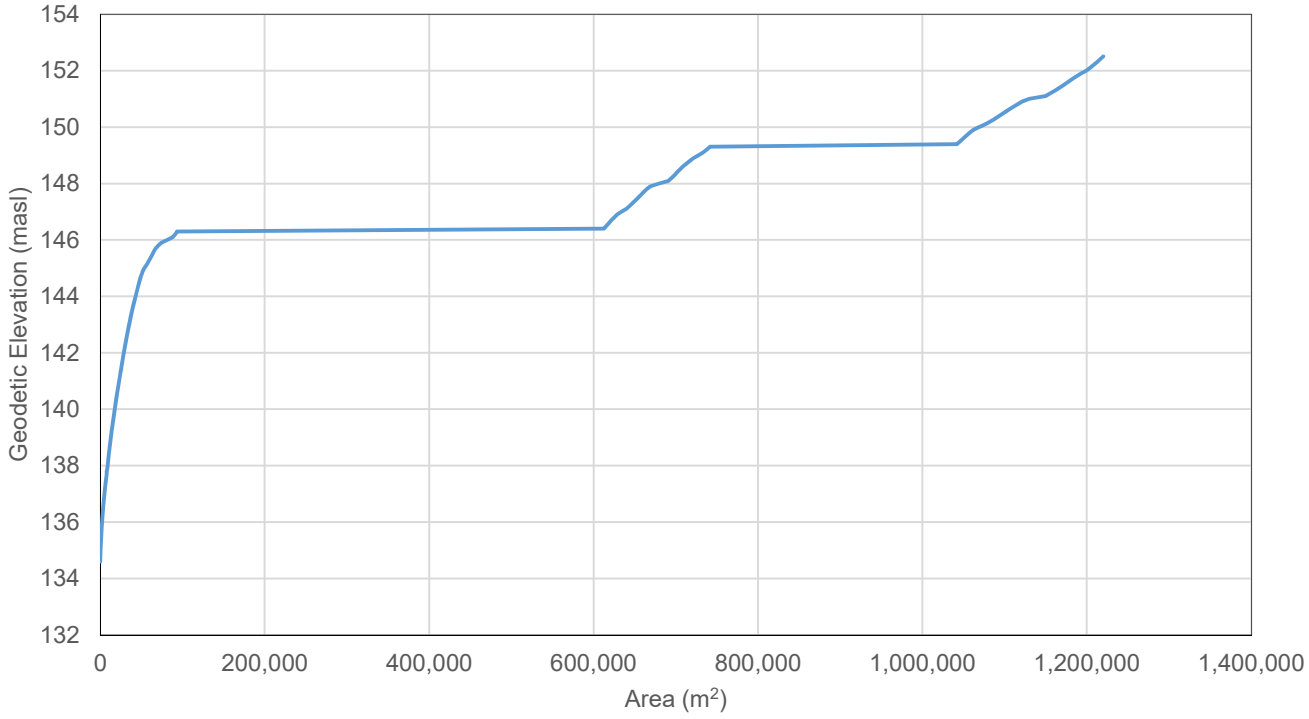

Figure D-14: Derived Elevation-Area Relationship (Whale Tail Lake [North Basin] above the Whale Tail Attenuation Pond)

APPENDIX E

O'Kane Landform Water Balance Modelling of Whale Tail and IVR WRSF

O'Kane Consultants

Integrated Mine Waste Management and Closure Services
Specialists in Geochemistry and Unsaturated Zone Hydrology

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Memorandum

To:	Michel Groleau – Nunavut Permitting Lead, Agnico Eagle Mines Ltd.
From:	Gillian Allen, Geoenvironmental Engineer
Cc:	Jenyfer Mosquera – Agnico Eagle Mines Ltd.
Our ref:	948-011-M-006 Rev3
Date:	May 10, 2019
Re:	**Agnico Eagle Mines Ltd. - Landform Water Balance Modelling of Whale Tail and IVR WRSF**

O'Kane Consultants Inc. (Okane), is currently undertaking thermal modelling of the waste rock storage facilities (WRSFs) at Agnico Eagle Mines Ltd.'s (AEM's) Amaruq project. Thermal modelling will assist in developing the expected seasonal active layer thickness under climate change conditions, as well as determine if permafrost conditions within the WRSFs are sustainable under climate change conditions. The ultimate objective of the project is to demonstrate the physical and chemical stability of the Whale Tail and IVR WRSFs while optimizing risk and cost for AEM.

As part of this objective, a landform water balance was completed, including estimates of runoff, interflow, and basal seepage rates for different slopes and aspects of the WRSF (if applicable). The following memorandum summarizes the results of the landform water balance. A separate detailed modelling report summarizes specific modelling background and methodology (Okane, 2019[1]).

Conceptual Hydrologic Model of Amaruq WRSFs

The following summarizes the conceptual model of the hydrologic regime at the Whale Tail and IVR WRSFs:

- The existing proposed thermal cover system (4.7 m of NAG/NML material) is not expected to promote runoff / interflow from the cover system due to sufficient infiltration capacity of the waste rock and cover system materials as a result of the expected coarse texture of materials.
- High infiltration rates will result in gradually (over several years) increasing interflow and/or basal flow reporting to WRSF collection ponds as the WRSF is constructed and reaches its final extent.
- Slopes are expected to be more susceptible to infiltration entering waste rock prior to freeze back compared to the plateau.

[1] O'Kane Consultants Inc. 2019. Agnico Eagle - Detailed Thermal Modelling Report for the Whale Tail and IVR WRSFs – DRAFT.

- Cover system material (NAG/NML) is expected to experience less weathering compared to Portage (increase in fines) due to lithology (greywacke vs. ultramafic) resulting in higher long-term infiltration rates and higher propensity for convective cooling compared to Portage.

- Decreased reactivity in NAG waste rock is expected to result in decreased arsenic load generation (but not zero load generation).

- Any interflow / runoff from the thermal cover system is not expected to report to collection ponds as 'plug flow' due to the variance in transit times across the landform. Put simply, incident precipitation at the toe of the WRSF will report to water collection systems much sooner than precipitation which lands on the plateau of the landform. Any contaminants of potential concern present within the thermal cover system material (eg. Arsenic), will therefore also be released gradually.

- Gradual decrease in arsenic loading over time is expected due to the hydrology of WRSFs.

- The thermal and hydrologic regimes are expected to be different based on North and South aspect.

Methodology

GeoStudio Version 10[2] was used to conduct the modelling for this project. This version of GeoStudio is a substantial upgrade to previous versions software as it is able to account for advective air flow as well as gas consumption due to mineral oxidation within the WRSF and associated heat generation via an add-in module developed for the software. Four components of the GeoStudio suite of programs were used in combination for this project: SEEP/W; TEMP/W; AIR/W, and CTRAN/W (with the gas consumption and exothermic reactions add-in incorporated into the CTRAN analysis).

Models representative of selected locations of thermistor strings at Meadowbank's Portage WRSF were simulated for the same period of time as the thermistor strings have been operational. The model results were then compared to the field data to determine that the model reasonably estimated field thermal conditions. Material inputs for the model were calibrated to provide a reasonable comparison to the field data. A detailed description of all material inputs can be found in the detailed thermal modelling report (Okane, 2019).

Following the one-dimensional calibration described above, a two-dimensional (2-D) cross section was developed (Figure 1) to determine the main factors promoting and inhibiting freeze-back of and seepage (amount and timing) from the WRSFs. The existing 4.7 m cover system design was modelled as the base case. Models consider coupled gas, heat, water, and air transfer processes. Additionally, the models account for the exothermic oxidation of sulphide materials. Therefore, TEMP/W, SEEP/W, and AIR/W components of the GeoStudio software suite were used in combination with the Gas Consumption and Exothermic Reactions add-in module GEOSLOPE developed with Okane to simulate sulphide oxidation.

[2] GEOSLOPE, 2018. GeoStudio 2019. Online. https://www.geoslope.com

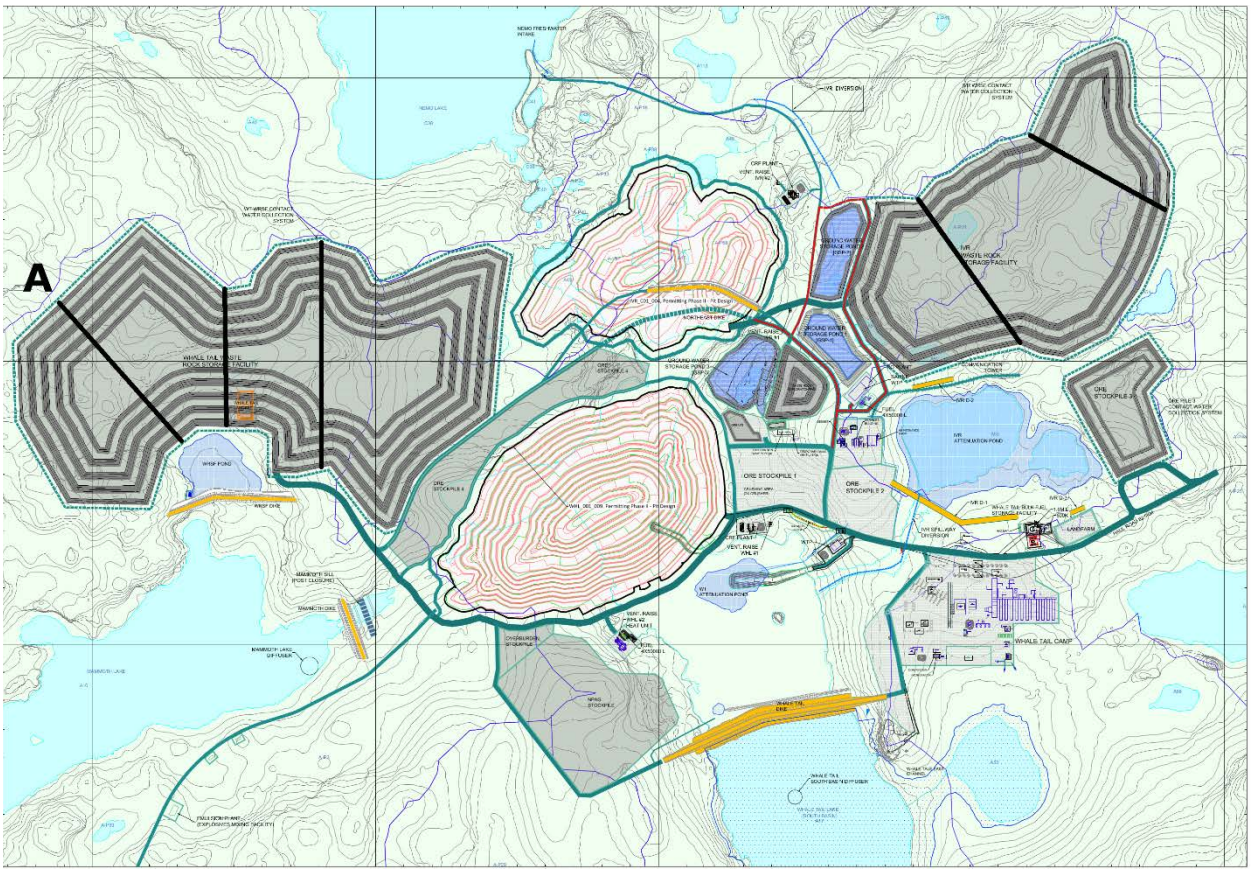

Figure 1: Location of the cross section 'A" used in modelling.

In order to capture the effects of construction on the landform water balance, the cross section modelled was 'built-up' in three-month intervals, according to the construction schedule provided (AEM, 2018[3]).

Results

Surface Water Balance

A summary of the surface water balance for the Amaruq WRSFs is provided in Table 1. This summarized the volume of annual runoff expected from the landforms as a percentage of incident precipitation (both snow and rainfall). Results of the surface water balance support the conceptual model that the hydrologic regimes are expected to be different based on North and South aspect. Generally, higher net radiation results in greater evaporation and soil heating. With more evaporation, less water is available to runoff and/or infiltrate. Higher net radiation will also result in more sublimation, as more energy is available to convert snow into water vapour.

[3] Agnico Eagle. 2018. Agnico Eagle – Meadowbank Division Amaruq Mine Project 005 – Site Preparation 210 General Arrangement Amaruq Mine Site Arrangement Permitting Dwg, 2019Q4 v7, 2020Q4 v7, 2021Q4 v7, 2022Q4 v7, 2023Q4 v7, 2025Q4 v7, & AFTER MINE v7. October 18, 2018.

Table 1: Summary of average surface water balance for different aspects of the WRSF.

Water Balance Parameters	Plateau	SE Aspect	NW Aspect
Total Precipitation (mm)	296 mm	296 mm	296 mm
Rainfall (% of Total Precipitation)	55-60%	55-60%	55-60%
Snow (% of Total Precipitation)	40-45%	40-45%	40-45%
Actual Evaporation (% of Total Precipitation)	25-30%	30-35%	25-30%
Runoff (% of Total Precipitation)	<5%	<5%	10-15%
Net Percolation (% of Total Precipitation)	30-35%	25-30%	20-25%
Sublimation (% of Total Precipitation)	35-40%	40-45%	40-45%

In order to simplify runoff outputs from the surface water balance, the runoff values for each aspect were weighted based on the relative area represented by each aspect. This results in an overall runoff rates from the Whale Tail and IVR WRSFs of approximately 5% of incident precipitation. Runoff was assumed to interact with surficial materials to a depth of 30 cm.

The surficial materials interacting with landform runoff will change over time as progressive reclamation is completed. Table 2 and Table 3 summarize the relative percentage of runoff expected to interact directly with the cover system material and waste rock material over time.

Table 2: Relative amount of runoff from bare waste rock vs cover system materials at the Whale Tail WRSF.

Year	Percentage of Runoff from Bare Waste Rock	Percentage of Runoff from Cover System
2019	100%	0%
2020	82%	18%
2021	82%	18%
2022	71%	29%
2023	71%	29%
2024	61%	39%
2025	0%	100%

Table 3: Relative amount of runoff from bare waste rock vs cover system materials at the IVR WRSF.

Year	Percentage of Runoff from Bare Waste Rock	Percentage of Runoff from Cover System
2021	50%	50%
2022	50%	50%
2023	75%	25%
2024	75%	25%
2025	0%	100%

The majority of runoff from the WRSFs is expected to occur as a result of spring melt, however some runoff is expected throughout the unfrozen period. The distribution of runoff by month is provided in Table 4.

Table 4: Runoff distribution by month for the Whale Tail and IVR WRSF.

Month	Percent of Total Annual Runoff by Month (%)
January	0%
February	0%
March	0%
April	0%
May	0%
June	85-90%
July	5-10%
August	5-10%
September	<5%
October	0%
November	0%
December	0%

Basal Seepage

The high infiltration capacity of the cover system materials and waste rock materials result in a propensity for incident precipitation to result in infiltration, rather than runoff (Table 1). As water infiltrates into the surficial materials, net percolation flows vertically through the WRSF, eventually freezing back at depth. The base layer of the WRSF is consistently frozen from the time of placement. As a result, basal seepage from the landform is negligible.

Interflow

There is some lateral flow of water within the cover system on the angle of repose slopes (known as interflow), however, lateral flow infiltrates vertically in zones of enhanced infiltration along the toe of each bench of the WRSF. This is shown conceptually in Figure 2.

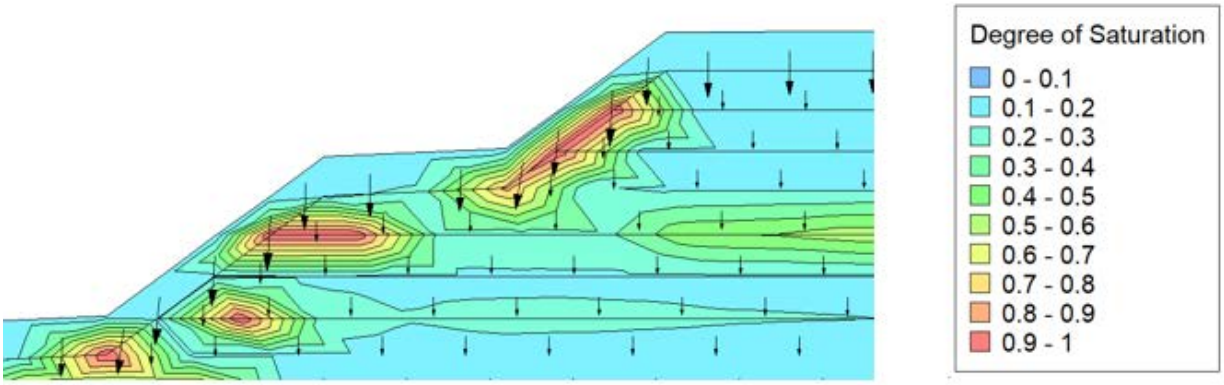

Figure 2: Sketch of hydrologic regime of the Whale Tail WRSF near surface with water flow vectors (black) shown.

A small portion (less than 1%) of incident precipitation over the entire landform(s) is expected to exit the landform as interflow. This occurs when infiltration occurs along the slope of the lowest bench of the WRSF. This flow path interacts with the entire 4.7 m depth of the cover system, along a maximum flow path of approximately 10 m. Interflow does not interact with the potentially acid generating and metal leaching waste rock.

We trust information provided in this memorandum is satisfactory for your requirements. Please do not hesitate to contact me at 306-713-1568 or gallen@okc-sk.com should you have any questions or comments.

APPENDIX F

Annual Water Balance

QUARRY 1

	INFLOWS													OUTFLOWS					STORAGE	
	m^3/mon	m^3/mon	m^3/mon	m^3/mon	m^3/mon	m^3/mon	m^3/mon	m^3/mon	m^3/mon	m^3/mon	m^3/mon	m^3/mon	m^3/mon	m^3/mon	m^3/mon	m^3/mon	m^3/mon	m^3/mon	m^3	m
Date	Quarry Runoff	Natural Runoff	Quarry 1 Groundwater	Starter Pit	Whale Tail WRSF	Truck Shop	Ore Stockpile	Overburden	Industrial Sector (minus ore stockpiles)	Camp Sector	Drilling Water	Ore_4_Runoff	NPAG_outflow_to_Quarry1	Evaporation	To GSP-1	Overflow	To O-WTP	Drill water losses	Pond Volume	Water Level
Jan-18	-	-	-	-	-	3,093	-	-	-	-	720	-	-	-	-	-	-	-	3,913	136
Feb-18	-	-	-	-	-	2,887	-	-	-	-	672	-	-	-	-	-	-	-	7,472	138
Mar-18	-	-	-	-	-	3,196	-	-	-	-	744	-	-	-	-	-	-	-	11,412	139
Apr-18	-	-	-	-	-	3,093	-	-	-	-	720	-	-	-	-	-	-	-	15,225	140
May-18	-	-	-	-	-	3,196	-	-	-	-	744	-	-	-	-	-	-	-	19,165	142
Jun-18	930	3,377	-	-	-	3,093	1,143	1,962	14,757	23,178	1,047	-	-	75	-	-	-	-	68,576	147
Jul-18	554	348	-	2,895	12,899	3,196	159	-	1,706	2,718	1,392	-	-	1,238	-	-	-	-	93,205	149
Aug-18	753	438	-	3,591	17,740	3,196	257	-	2,346	3,794	-	-	-	1,532	-	-	-	-	123,788	151
Sep-18	829	769	-	5,554	34,138	3,093	570	-	4,525	7,426	-	-	-	695	-	-	-	-	179,997	154
Oct-18	-	-	-	1,488	1,152	3,196	-	-	-	-	-	-	-	-	-	-	-	-	185,833	154
Nov-18	-	-	-	1,440	-	3,093	-	-	-	-	-	-	-	-	-	-	-	-	190,366	154
Dec-18	-	-	-	1,151	-	3,196	-	-	-	-	-	-	-	-	-	-	-	-	194,714	155
Jan-19	-	-	-	745	-	3,196	-	-	-	-	-	-	-	-	-	-	-	-	198,655	155
Feb-19	-	-	-	672	-	2,887	-	-	-	-	-	-	-	-	-	-	-	-	202,213	155
Mar-19	-	-	-	744	-	3,196	-	-	-	-	-	-	-	-	-	-	-	-	206,153	155
Apr-19	-	-	-	720	-	3,093	-	-	-	-	-	-	-	-	-	-	-	-	209,966	155
May-19	-	-	-	744	-	3,196	-	-	-	-	-	-	-	-	-	-	-	-	213,907	156
Jun-19	340	414	-	2,363	12,870	558	811	-	2,006	4,029	-	-	-	36	-	-	237,261	-	-	135
Jul-19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	135

GROUNDWATER STORAGE POND 1 (Formerly GSP (Brine))

	INFLOWS									OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Quarry 1	Natural Runoff	WRSF	Waste Rock Pad	Underground Overflow	Underground Stope	Brine from RO	Whale Tail Attenuation Pond	U/G ore stockpile	Evaporation	Underground	O-WTP	Saltmaker	Underground (Closure)	Whale Tail Pit	Pond Volume	Water Level
Jan-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-18	0	14,952	0	0	0	0	0	0	0	71	0	0	0	0	0	14,882	145
Jul-18	0	2,212	0	0	0	0	0	0	0	1,428	0	0	0	0	0	15,666	145
Aug-18	0	2,905	0	0	0	0	0	0	0	1,440	0	0	0	0	0	17,131	145
Sep-18	0	4,964	0	0	0	0	0	0	0	556	0	0	0	0	0	21,539	146
Oct-18	0	0	0	0	0	0	0	0	0	0	131	0	0	0	0	21,408	146
Nov-18	0	0	0	0	0	0	0	0	0	0	131	0	0	0	0	21,277	146
Dec-18	0	0	0	0	0	0	0	0	0	0	135	0	0	0	0	21,142	145
Jan-19	0	0	0	0	0	0	0	0	0	0	275	0	0	0	0	20,868	145
Feb-19	0	0	0	0	0	0	0	0	0	0	138	0	0	0	0	20,730	145
Mar-19	0	0	0	0	0	0	0	0	0	0	152	0	0	0	0	20,578	145
Apr-19	0	0	0	0	0	0	0	0	0	0	147	0	0	0	0	20,430	145
May-19	0	0	0	0	0	0	0	0	0	0	152	0	0	0	0	20,278	145
Jun-19	0	13,755	9	0	0	0	0	0	334	125	5	0	0	0	0	34,248	146
Jul-19	0	2,043	1	0	0	0	0	0	46	1,425	0	0	0	0	0	34,913	146
Aug-19	0	2,633	1	0	0	0	0	0	75	1,441	0	0	0	0	0	36,180	147
Sep-19	0	4,361	0	0	0	0	0	0	166	560	0	0	0	0	0	40,147	147
Oct-19	0	0	0	0	0	0	0	0	0	0	147	0	0	0	0	40,000	147
Nov-19	0	0	0	0	0	0	0	0	0	0	147	0	0	0	0	39,853	147
Dec-19	0	0	0	0	0	0	0	53,930	0	0	152	0	0	0	0	93,630	150
Jan-20	0	0	0	0	0	0	0	29,708	0	0	249	0	0	0	0	123,089	152
Feb-20	0	0	0	0	0	0	0	27,023	0	0	0	0	0	0	0	150,112	154
Mar-20	0	0	0	0	0	0	0	28,714	0	0	0	0	0	0	0	178,826	155
Apr-20	0	0	0	0	0	0	0	27,868	0	0	0	0	0	0	0	206,694	156
May-20	0	0	0	0	156	0	0	28,711	0	0	0	0	0	0	0	235,561	158
Jun-20	0	11,198	31	0	2,520	0	0	926	898	132	0	241,002	0	0	0	10,000	145
Jul-20	0	1,691	2	0	1,702	0	0	0	109	1,258	0	0	0	0	0	12,246	145
Aug-20	0	2,220	2	0	1,755	0	0	0	157	1,441	0	0	0	0	0	14,939	145
Sep-20	0	3,558	1	0	1,793	0	0	0	317	557	0	0	0	0	0	20,051	145
Oct-20	0	0	0	0	1,412	0	4,500	0	0	0	0	0	0	0	0	25,963	146
Nov-20	0	0	0	0	1,367	0	4,500	0	0	0	0	0	0	0	0	31,830	146
Dec-20	0	0	0	0	1,412	0	4,650	0	0	0	0	0	0	0	0	37,892	147
Jan-21	0	0	0	0	441	0	4,650	0	0	0	355	0	0	0	0	42,629	147
Feb-21	0	0	0	0	462	0	4,200	0	0	0	0	0	0	0	0	47,290	147
Mar-21	0	0	0	0	511	0	4,650	0	0	0	0	0	0	0	0	52,452	148
Apr-21	0	0	0	0	495	0	4,500	0	0	0	0	0	0	0	0	57,447	148
May-21	0	0	0	0	511	0	4,650	0	0	0	0	0	0	0	0	62,608	148
Jun-21	0	9,876	43	0	1,648	0	136	0	1,093	132	0	0	0	0	0	75,272	149
Jul-21	0	1,640	3	0	801	0	0	0	128	1,508	0	0	0	0	0	76,336	149
Aug-21	0	2,098	3	0	854	0	0	0	179	1,526	0	0	0	0	0	77,943	149
Sep-21	0	3,343	1	0	921	0	0	0	350	593	0	0	0	0	0	81,966	150
Oct-21	0	0	0	0	511	0	4,500	0	0	0	0	0	0	0	0	86,977	150
Nov-21	0	0	0	0	495	0	4,500	0	0	0	0	0	0	0	0	91,972	150
Dec-21	0	0	0	0	511	0	4,650	0	0	0	0	0	0	0	0	97,133	151
Jan-22	0	0	0	0	5,749	10,000	4,650	0	0	0	0	0	0	0	0	117,532	152
Feb-22	0	0	0	0	5,268	0	4,200	0	0	0	0	0	0	0	0	127,000	153

GROUNDWATER STORAGE POND 1 (Formerly GSP (Brine))

	INFLOWS									OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Quarry 1	Natural Runoff	WRSF	Waste Rock Pad	Underground Overflow	Underground Stope	Brine from RO	Whale Tail Attenuation Pond	U/G ore stockpile	Evaporation	Underground	O-WTP	Saltmaker	Underground (Closure)	Whale Tail Pit	Pond Volume	Water Level
Mar-22	0	0	0	0	5,833	0	4,650	0	0	0	0	0	0	0	0	137,483	153
Apr-22	0	0	0	0	5,645	0	150	0	0	0	0	0	1,740	0	0	141,538	153
May-22	0	0	0	0	188	0	0	0	0	0	0	0	1,860	0	0	139,866	153
Jun-22	0	9,879	43	0	0	0	2,606	0	1,093	142	0	0	1,800	0	0	151,545	154
Jul-22	0	1,683	3	0	0	0	1,043	0	128	1,641	0	0	1,860	0	0	150,902	154
Aug-22	0	2,136	3	0	0	0	1,061	0	179	1,644	0	0	1,860	0	0	150,776	154
Sep-22	0	3,362	1	0	0	0	1,212	0	350	651	0	0	1,800	0	0	153,250	154
Oct-22	0	0	0	0	0	0	41	0	0	0	0	0	1,860	0	0	151,431	154
Nov-22	0	0	0	0	0	0	0	0	0	0	0	0	1,800	0	0	149,631	154
Dec-22	0	0	0	0	0	0	0	0	0	0	0	0	1,860	0	0	147,771	154
Jan-23	0	0	0	0	0	0	0	0	0	0	0	0	2,790	0	0	144,981	154
Feb-23	0	0	0	0	0	0	0	0	0	0	0	0	2,520	0	0	142,461	154
Mar-23	0	0	0	0	0	0	0	0	0	0	0	0	2,790	0	0	139,671	153
Apr-23	0	0	0	0	0	0	0	0	0	0	0	0	2,700	0	0	136,971	153
May-23	0	0	0	0	0	0	0	0	0	0	0	0	2,790	0	0	134,181	153
Jun-23	0	9,879	43	0	0	0	4,350	0	1,093	142	0	0	2,700	0	0	146,704	154
Jul-23	0	1,673	3	0	0	0	4,650	0	128	1,609	0	0	2,790	0	0	148,760	154
Aug-23	0	2,131	3	0	0	0	4,650	0	179	1,631	0	0	2,790	0	0	151,302	154
Sep-23	0	3,369	1	0	0	0	4,500	0	350	673	0	0	2,700	0	0	156,149	154
Oct-23	0	0	0	0	0	0	150	0	0	0	0	0	2,790	0	0	153,509	154
Nov-23	0	0	0	0	0	0	0	0	0	0	0	0	2,700	0	0	150,809	154
Dec-23	0	0	0	0	0	0	0	0	0	0	0	0	2,790	0	0	148,019	154
Jan-24	0	0	0	0	0	0	0	0	0	0	0	0	2,790	0	0	145,229	154
Feb-24	0	0	0	0	0	0	0	0	0	0	0	0	2,610	0	0	142,619	154
Mar-24	0	0	0	0	0	0	0	0	0	0	0	0	2,790	0	0	139,829	153
Apr-24	0	0	0	0	0	0	0	0	0	0	0	0	2,700	0	0	137,129	153
May-24	0	0	0	0	0	0	0	0	0	0	0	0	2,790	0	0	134,339	153
Jun-24	0	9,881	43	0	0	0	4,350	0	1,093	142	0	0	2,700	0	0	146,865	154
Jul-24	0	1,673	3	0	0	0	4,650	0	128	1,609	0	0	2,790	0	0	148,921	154
Aug-24	0	2,132	3	0	0	0	4,650	0	179	1,633	0	0	2,790	0	0	151,461	154
Sep-24	0	3,370	1	0	0	0	4,500	0	350	675	0	0	2,700	0	0	156,307	154
Oct-24	0	0	0	0	0	0	150	0	0	0	0	0	2,790	0	0	153,667	154
Nov-24	0	0	0	0	0	0	0	0	0	0	0	0	2,700	0	0	150,967	154
Dec-24	0	0	0	0	0	0	0	0	0	0	0	0	2,790	0	0	148,177	154
Jan-25	0	0	0	0	0	0	0	0	0	0	0	0	2,790	0	0	145,387	154
Feb-25	0	0	0	0	0	0	0	0	0	0	0	0	2,520	0	0	142,867	154
Mar-25	0	0	0	0	0	0	0	0	0	0	0	0	2,790	0	0	140,077	153
Apr-25	0	0	0	0	0	0	0	0	0	0	0	0	2,700	0	0	137,377	153
May-25	0	0	0	0	0	0	0	0	0	0	0	0	2,790	0	0	134,587	153
Jun-25	0	9,879	23	1,826	0	0	4,350	0	1,093	142	0	0	2,700	0	0	148,918	154
Jul-25	0	1,675	1	253	0	0	4,650	0	128	1,614	0	0	2,790	0	0	151,221	154
Aug-25	0	2,155	1	409	0	0	4,650	0	179	1,704	0	0	2,790	0	0	154,121	154
Sep-25	0	3,383	0	909	0	0	4,500	0	350	715	0	0	2,700	0	0	159,848	154
Oct-25	0	0	0	0	0	0	150	0	0	0	0	0	2,790	0	0	157,208	154
Nov-25	0	0	0	0	0	0	0	0	0	0	0	0	2,700	0	0	154,508	154
Dec-25	0	0	0	0	0	0	0	0	0	0	0	0	2,790	0	0	151,718	154
Jan-26	0	0	0	0	0	0	0	0	0	0	0	0	0	151,718	0	0	144
Feb-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144

GROUNDWATER STORAGE POND 1 (Formerly GSP (Brine))

	INFLOWS									OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Quarry 1	Natural Runoff	WRSF	Waste Rock Pad	Underground Overflow	Underground Stope	Brine from RO	Whale Tail Attenuation Pond	U/G ore stockpile	Evaporation	Underground	O-WTP	Saltmaker	Underground (Closure)	Whale Tail Pit	Pond Volume	Water Level
May-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-26	0	10,925	0	4,004	0	0	0	0	0	0	0	0	0	0	14,929	0	144
Jul-26	0	1,281	0	470	0	0	0	0	0	0	0	0	0	0	1,751	0	144
Aug-26	0	1,788	0	655	0	0	0	0	0	0	0	0	0	0	2,444	0	144
Sep-26	0	3,501	0	1,283	0	0	0	0	0	0	0	0	0	0	4,783	0	144
Oct-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-27	0	10,925	0	4,004	0	0	0	0	0	0	0	0	0	0	14,929	0	144
Jul-27	0	1,281	0	470	0	0	0	0	0	0	0	0	0	0	1,751	0	144
Aug-27	0	1,788	0	655	0	0	0	0	0	0	0	0	0	0	2,444	0	144
Sep-27	0	3,501	0	1,283	0	0	0	0	0	0	0	0	0	0	4,783	0	144
Oct-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-28	0	10,927	0	4,005	0	0	0	0	0	0	0	0	0	0	14,932	0	144
Jul-28	0	1,281	0	470	0	0	0	0	0	0	0	0	0	0	1,751	0	144
Aug-28	0	1,788	0	655	0	0	0	0	0	0	0	0	0	0	2,444	0	144
Sep-28	0	3,501	0	1,283	0	0	0	0	0	0	0	0	0	0	4,783	0	144
Oct-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-29	0	10,925	0	4,004	0	0	0	0	0	0	0	0	0	0	14,929	0	144
Jul-29	0	1,281	0	470	0	0	0	0	0	0	0	0	0	0	1,751	0	144
Aug-29	0	1,788	0	655	0	0	0	0	0	0	0	0	0	0	2,444	0	144
Sep-29	0	3,501	0	1,283	0	0	0	0	0	0	0	0	0	0	4,783	0	144
Oct-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-30	0	10,925	0	4,004	0	0	0	0	0	0	0	0	0	0	14,929	0	144

GROUNDWATER STORAGE POND 1 (Formerly GSP (Brine))

	INFLOWS									OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Quarry 1	Natural Runoff	WRSF	Waste Rock Pad	Underground Overflow	Underground Stope	Brine from RO	Whale Tail Attenuation Pond	U/G ore stockpile	Evaporation	Underground	O-WTP	Saltmaker	Underground (Closure)	Whale Tail Pit	Pond Volume	Water Level
Jul-30	0	1,281	0	470	0	0	0	0	0	0	0	0	0	0	1,751	0	144
Aug-30	0	1,788	0	655	0	0	0	0	0	0	0	0	0	0	2,444	0	144
Sep-30	0	3,501	0	1,283	0	0	0	0	0	0	0	0	0	0	4,783	0	144
Oct-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-31	0	10,925	0	4,004	0	0	0	0	0	0	0	0	0	0	14,929	0	144
Jul-31	0	1,281	0	470	0	0	0	0	0	0	0	0	0	0	1,751	0	144
Aug-31	0	1,788	0	655	0	0	0	0	0	0	0	0	0	0	2,444	0	144
Sep-31	0	3,501	0	1,283	0	0	0	0	0	0	0	0	0	0	4,783	0	144
Oct-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-32	0	10,927	0	4,005	0	0	0	0	0	0	0	0	0	0	14,932	0	144
Jul-32	0	1,281	0	470	0	0	0	0	0	0	0	0	0	0	1,751	0	144
Aug-32	0	1,788	0	655	0	0	0	0	0	0	0	0	0	0	2,444	0	144
Sep-32	0	3,501	0	1,283	0	0	0	0	0	0	0	0	0	0	4,783	0	144
Oct-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-33	0	10,925	0	4,004	0	0	0	0	0	0	0	0	0	0	14,929	0	144
Jul-33	0	1,281	0	470	0	0	0	0	0	0	0	0	0	0	1,751	0	144
Aug-33	0	1,788	0	655	0	0	0	0	0	0	0	0	0	0	2,444	0	144
Sep-33	0	3,501	0	1,283	0	0	0	0	0	0	0	0	0	0	4,783	0	144
Oct-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-34	0	10,925	0	4,004	0	0	0	0	0	0	0	0	0	0	14,929	0	144
Jul-34	0	1,281	0	470	0	0	0	0	0	0	0	0	0	0	1,751	0	144
Aug-34	0	1,788	0	655	0	0	0	0	0	0	0	0	0	0	2,444	0	144

GROUNDWATER STORAGE POND 1 (Formerly GSP (Brine))

	INFLOWS									OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Quarry 1	Natural Runoff	WRSF	Waste Rock Pad	Underground Overflow	Underground Stope	Brine from RO	Whale Tail Attenuation Pond	U/G ore stockpile	Evaporation	Underground	O-WTP	Saltmaker	Underground (Closure)	Whale Tail Pit	Pond Volume	Water Level
Sep-34	0	3,501	0	1,283	0	0	0	0	0	0	0	0	0	0	4,783	0	144
Oct-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-35	0	10,925	0	4,004	0	0	0	0	0	0	0	0	0	0	14,929	0	144
Jul-35	0	1,281	0	470	0	0	0	0	0	0	0	0	0	0	1,751	0	144
Aug-35	0	1,788	0	655	0	0	0	0	0	0	0	0	0	0	2,444	0	144
Sep-35	0	3,501	0	1,283	0	0	0	0	0	0	0	0	0	0	4,783	0	144
Oct-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-36	0	10,927	0	4,005	0	0	0	0	0	0	0	0	0	0	14,932	0	144
Jul-36	0	1,281	0	470	0	0	0	0	0	0	0	0	0	0	1,751	0	144
Aug-36	0	1,788	0	655	0	0	0	0	0	0	0	0	0	0	2,444	0	144
Sep-36	0	3,501	0	1,283	0	0	0	0	0	0	0	0	0	0	4,783	0	144
Oct-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-37	0	10,925	0	4,004	0	0	0	0	0	0	0	0	0	0	14,929	0	144
Jul-37	0	1,281	0	470	0	0	0	0	0	0	0	0	0	0	1,751	0	144
Aug-37	0	1,788	0	655	0	0	0	0	0	0	0	0	0	0	2,444	0	144
Sep-37	0	3,501	0	1,283	0	0	0	0	0	0	0	0	0	0	4,783	0	144
Oct-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-38	0	10,925	0	4,004	0	0	0	0	0	0	0	0	0	0	14,929	0	144
Jul-38	0	1,281	0	470	0	0	0	0	0	0	0	0	0	0	1,751	0	144
Aug-38	0	1,788	0	655	0	0	0	0	0	0	0	0	0	0	2,444	0	144
Sep-38	0	3,501	0	1,283	0	0	0	0	0	0	0	0	0	0	4,783	0	144
Oct-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144

GROUNDWATER STORAGE POND 1 (Formerly GSP (Brine))

	INFLOWS									OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Quarry 1	Natural Runoff	WRSF	Waste Rock Pad	Underground Overflow	Underground Stope	Brine from RO	Whale Tail Attenuation Pond	U/G ore stockpile	Evaporation	Underground	O-WTP	Saltmaker	Underground (Closure)	Whale Tail Pit	Pond Volume	Water Level
Nov-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-39	0	10,925	0	4,004	0	0	0	0	0	0	0	0	0	0	14,929	0	144
Jul-39	0	1,281	0	470	0	0	0	0	0	0	0	0	0	0	1,751	0	144
Aug-39	0	1,788	0	655	0	0	0	0	0	0	0	0	0	0	2,444	0	144
Sep-39	0	3,501	0	1,283	0	0	0	0	0	0	0	0	0	0	4,783	0	144
Oct-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-40	0	10,927	0	4,005	0	0	0	0	0	0	0	0	0	0	14,932	0	144
Jul-40	0	1,281	0	470	0	0	0	0	0	0	0	0	0	0	1,751	0	144
Aug-40	0	1,788	0	655	0	0	0	0	0	0	0	0	0	0	2,444	0	144
Sep-40	0	3,501	0	1,283	0	0	0	0	0	0	0	0	0	0	4,783	0	144
Oct-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-41	0	10,925	0	4,004	0	0	0	0	0	0	0	0	0	0	14,929	0	144
Jul-41	0	1,281	0	470	0	0	0	0	0	0	0	0	0	0	1,751	0	144
Aug-41	0	1,788	0	655	0	0	0	0	0	0	0	0	0	0	2,444	0	144
Sep-41	0	3,501	0	1,283	0	0	0	0	0	0	0	0	0	0	4,783	0	144
Oct-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-42	0	10,925	0	4,004	0	0	0	0	0	0	0	0	0	0	14,929	0	144
Jul-42	0	1,281	0	470	0	0	0	0	0	0	0	0	0	0	1,751	0	144
Aug-42	0	1,788	0	655	0	0	0	0	0	0	0	0	0	0	2,444	0	144
Sep-42	0	3,501	0	1,283	0	0	0	0	0	0	0	0	0	0	4,783	0	144
Oct-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144

GROUNDWATER STORAGE POND 1 (Formerly GSP (Brine))

	INFLOWS									OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Quarry 1	Natural Runoff	WRSF	Waste Rock Pad	Underground Overflow	Underground Stope	Brine from RO	Whale Tail Attenuation Pond	U/G ore stockpile	Evaporation	Underground	O-WTP	Saltmaker	Underground (Closure)	Whale Tail Pit	Pond Volume	Water Level
Jan-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-43	0	10925.08	0	4003.802	0	0	0	0	0	0	0	0	0	0	14928.89	0	144
Jul-43	0	1281.138	0	469.5088	0	0	0	0	0	0	0	0	0	0	1750.647	0	144
Aug-43	0	1788.37	0	655.3978	0	0	0	0	0	0	0	0	0	0	2443.767	0	144
Sep-43	0	3500.563	0	1282.879	0	0	0	0	0	0	0	0	0	0	4783.442	0	144
Oct-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-44	0	10927.35	0	4004.63	0	0	0	0	0	0	0	0	0	0	14931.98	0	144
Jul-44	0	1281.138	0	469.5088	0	0	0	0	0	0	0	0	0	0	1750.647	0	144
Aug-44	0	1788.37	0	655.3978	0	0	0	0	0	0	0	0	0	0	2443.767	0	144
Sep-44	0	3500.563	0	1282.879	0	0	0	0	0	0	0	0	0	0	4783.442	0	144
Oct-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-45	0	10925.08	0	4003.802	0	0	0	0	0	0	0	0	0	0	14928.89	0	144
Jul-45	0	1281.138	0	469.5088	0	0	0	0	0	0	0	0	0	0	1750.647	0	144
Aug-45	0	1788.37	0	655.3978	0	0	0	0	0	0	0	0	0	0	2443.767	0	144
Sep-45	0	3500.563	0	1282.879	0	0	0	0	0	0	0	0	0	0	4783.442	0	144
Oct-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-46	0	10925.08	0	4003.802	0	0	0	0	0	0	0	0	0	0	14928.89	0	144
Jul-46	0	1281.138	0	469.5088	0	0	0	0	0	0	0	0	0	0	1750.647	0	144
Aug-46	0	1788.37	0	655.3978	0	0	0	0	0	0	0	0	0	0	2443.767	0	144
Sep-46	0	3500.563	0	1282.879	0	0	0	0	0	0	0	0	0	0	4783.442	0	144
Oct-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144

GROUNDWATER STORAGE POND 1 (Formerly GSP (Brine))

	INFLOWS									OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Quarry 1	Natural Runoff	WRSF	Waste Rock Pad	Underground Overflow	Underground Stope	Brine from RO	Whale Tail Attenuation Pond	U/G ore stockpile	Evaporation	Underground	O-WTP	Saltmaker	Underground (Closure)	Whale Tail Pit	Pond Volume	Water Level
Mar-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-47	0	10925.08	0	4003.802	0	0	0	0	0	0	0	0	0	0	14928.89	0	144
Jul-47	0	1281.138	0	469.5088	0	0	0	0	0	0	0	0	0	0	1750.647	0	144
Aug-47	0	1788.37	0	655.3978	0	0	0	0	0	0	0	0	0	0	2443.767	0	144
Sep-47	0	3500.563	0	1282.879	0	0	0	0	0	0	0	0	0	0	4783.442	0	144
Oct-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-48	0	10927.35	0	4004.63	0	0	0	0	0	0	0	0	0	0	14931.98	0	144
Jul-48	0	1281.138	0	469.5088	0	0	0	0	0	0	0	0	0	0	1750.647	0	144
Aug-48	0	1788.37	0	655.3978	0	0	0	0	0	0	0	0	0	0	2443.767	0	144
Sep-48	0	3500.563	0	1282.879	0	0	0	0	0	0	0	0	0	0	4783.442	0	144
Oct-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-49	0	10925.08	0	4003.802	0	0	0	0	0	0	0	0	0	0	14928.89	0	144
Jul-49	0	1281.138	0	469.5088	0	0	0	0	0	0	0	0	0	0	1750.647	0	144
Aug-49	0	1788.37	0	655.3978	0	0	0	0	0	0	0	0	0	0	2443.767	0	144
Sep-49	0	3500.563	0	1282.879	0	0	0	0	0	0	0	0	0	0	4783.442	0	144
Oct-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jan-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Feb-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mar-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Apr-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
May-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Jun-50	0	10925.08	0	4003.802	0	0	0	0	0	0	0	0	0	0	14928.89	0	144
Jul-50	0	1281.138	0	469.5088	0	0	0	0	0	0	0	0	0	0	1750.647	0	144
Aug-50	0	1788.37	0	655.3978	0	0	0	0	0	0	0	0	0	0	2443.767	0	144
Sep-50	0	3500.563	0	1282.879	0	0	0	0	0	0	0	0	0	0	4783.442	0	144
Oct-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Nov-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Dec-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144

UNDERGROUND MINE

	INFLOWS									OUTFLOWS							STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon		m3	m
Date	Runoff	Groundwater	Whale Tail Lake (South Basin)	GSP-1	Lake C38 (Nemo Lake)	Recirculation	GSP-1 (Closure)	IVR Att Pond	GSP-2 (Closure)	Recirculation	Groundwater	Waste Rock	Underground Stope	GSP-1	GSP-2	Overflow	Pond Volume	Water Level
Jan-18	0	0	0	0	303	5,029	0	0	0	5,197	0	135	0	0	0	0	1	-501.1
Feb-18	0	0	0	0	122	4,694	0	0	0	4,694	0	122	0	0	0	0	1	-501.1
Mar-18	0	0	0	0	135	5,197	0	0	0	5,197	0	135	0	0	0	0	1	-501.1
Apr-18	0	0	0	0	131	5,029	0	0	0	5,029	0	131	0	0	0	0	1	-501.1
May-18	0	0	0	0	135	5,197	0	0	0	5,197	0	135	0	0	0	0	1	-501.1
Jun-18	1,153	0	0	0	0	5,160	0	0	0	5,160	0	131	1,022	0	0	0	1	-501.1
Jul-18	290	0	0	0	0	5,332	0	0	0	5,332	0	135	154	0	0	0	1	-501.1
Aug-18	342	0	0	0	0	5,332	0	0	0	5,332	0	135	207	0	0	0	1	-501.1
Sep-18	426	0	0	0	0	5,160	0	0	0	5,160	0	131	295	0	0	0	1	-501.1
Oct-18	0	0	0	131	0	5,201	0	0	0	5,197	0	135	0	0	0	0	1	-501.1
Nov-18	0	0	0	131	0	5,029	0	0	0	5,029	0	131	0	0	0	0	1	-501.1
Dec-18	0	0	0	135	0	5,197	0	0	0	5,197	0	135	0	0	0	0	1	-501.1
Jan-19	0	0	0	275	0	8,870	0	0	0	8,993	0	152	0	0	0	0	1	-501.1
Feb-19	0	0	0	138	0	8,122	0	0	0	8,122	0	138	0	0	0	0	1	-501.1
Mar-19	0	0	0	152	0	8,993	0	0	0	8,993	0	152	0	0	0	0	1	-501.1
Apr-19	0	0	0	147	0	8,703	0	0	0	8,703	0	147	0	0	0	0	1	-501.1
May-19	0	0	0	152	0	8,993	0	0	0	8,993	0	152	0	0	0	0	1	-501.1
Jun-19	1,153	0	0	5	0	8,845	0	0	0	8,850	0	147	1,005	0	0	0	1	-501.1
Jul-19	290	0	0	0	0	9,145	0	0	0	9,145	0	152	137	0	0	0	1	-501.1
Aug-19	342	0	0	0	0	9,145	0	0	0	9,145	0	152	190	0	0	0	1	-501.1
Sep-19	426	0	0	0	0	8,850	0	0	0	8,850	0	147	279	0	0	0	1	-501.1
Oct-19	0	0	0	147	0	8,998	0	0	0	8,993	0	152	0	0	0	0	1	-501.1
Nov-19	0	0	0	147	0	8,703	0	0	0	8,703	0	147	0	0	0	0	1	-501.1
Dec-19	0	0	0	152	0	8,993	0	0	0	8,993	0	152	0	0	0	0	1	-501.1
Jan-20	0	1,860	0	249	0	18,246	0	0	0	18,555	0	448	1,352	0	0	0	1	-501.1
Feb-20	0	1,740	0	0	0	17,371	0	0	0	17,371	0	419	1,321	0	0	0	1	-501.1
Mar-20	0	1,860	0	0	0	18,569	0	0	0	18,569	0	448	1,412	0	0	0	1	-501.1
Apr-20	0	1,800	0	0	0	17,970	0	0	0	17,970	0	433	1,367	0	0	0	1	-501.1
May-20	0	1,860	0	0	0	18,569	0	0	0	18,569	0	448	1,256	156	0	0	1	-501.1
Jun-20	1,153	1,800	0	0	0	17,970	0	0	0	17,970	0	433	0	2,520	0	0	1	-501.1
Jul-20	290	1,860	0	0	0	18,569	0	0	0	18,569	0	448	0	1,702	0	0	1	-501.1
Aug-20	342	1,860	0	0	0	18,569	0	0	0	18,569	0	448	0	1,755	0	0	1	-501.1
Sep-20	426	1,800	0	0	0	17,970	0	0	0	17,970	0	433	0	1,793	0	0	1	-501.1
Oct-20	0	1,860	0	0	0	18,569	0	0	0	18,569	0	448	0	1,412	0	0	1	-501.1
Nov-20	0	1,800	0	0	0	17,970	0	0	0	17,970	0	433	0	1,367	0	0	1	-501.1
Dec-20	0	1,860	0	0	0	18,569	0	0	0	18,569	0	448	0	1,412	0	0	1	-501.1
Jan-21	0	2,170	0	355	0	31,204	0	0	0	31,629	0	1,659	0	441	0	0	1	-501.1
Feb-21	0	1,960	0	0	0	28,672	0	0	0	28,672	0	1,498	0	462	0	0	1	-501.1
Mar-21	0	2,170	0	0	0	31,744	0	0	0	31,744	0	1,659	0	511	0	0	1	-501.1
Apr-21	0	2,100	0	0	0	30,720	0	0	0	30,720	0	1,605	0	495	0	0	1	-501.1
May-21	0	2,170	0	0	0	31,744	0	0	0	31,744	0	1,659	0	511	0	0	1	-501.1
Jun-21	1,153	2,100	0	0	0	30,720	0	0	0	30,720	0	1,605	0	1,648	0	0	1	-501.1
Jul-21	290	2,170	0	0	0	31,744	0	0	0	31,744	0	1,659	0	801	0	0	1	-501.1
Aug-21	342	2,170	0	0	0	31,744	0	0	0	31,744	0	1,659	0	854	0	0	1	-501.1
Sep-21	426	2,100	0	0	0	30,720	0	0	0	30,720	0	1,605	0	921	0	0	1	-501.1
Oct-21	0	2,170	0	0	0	31,744	0	0	0	31,744	0	1,659	0	511	0	0	1	-501.1
Nov-21	0	2,100	0	0	0	30,720	0	0	0	30,720	0	1,605	0	495	0	0	1	-501.1
Dec-21	0	2,170	0	0	0	31,744	0	0	0	31,744	0	1,659	0	511	0	0	1	-501.1
Jan-22	0	7,750	0	0	0	34,264	0	0	0	34,348	0	1,917	0	5,749	0	0	1	-501.1
Feb-22	0	7,000	0	0	0	31,024	0	0	0	31,024	0	1,732	0	5,268	0	0	1	-501.1
Mar-22	0	7,750	0	0	0	34,348	0	0	0	34,348	0	1,917	0	5,833	0	0	1	-501.1

UNDERGROUND MINE

	INFLOWS									OUTFLOWS							STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon		m3	m
Date	Runoff	Groundwater	Whale Tail Lake (South Basin)	GSP-1	Lake C38 (Nemo Lake)	Recirculation	GSP-1 (Closure)	IVR Att Pond	GSP-2 (Closure)	Recirculation	Groundwater	Waste Rock	Underground Stope	GSP-1	GSP-2	Overflow	Pond Volume	Water Level
Apr-22	0	7,500	0	0	0	33,240	0	0	0	33,240	0	1,855	0	5,645	0	0	1	-501.1
May-22	0	7,750	0	0	0	34,348	0	0	0	34,348	0	1,917	0	188	5,645	0	1	-501.1
Jun-22	1,153	7,500	0	0	0	33,240	0	0	0	33,240	0	1,855	0	0	6,797	0	1	-501.1
Jul-22	290	7,750	0	0	0	34,348	0	0	0	34,348	0	1,917	0	0	6,122	0	1	-501.1
Aug-22	342	7,750	0	0	0	34,348	0	0	0	34,348	0	1,917	0	0	6,175	0	1	-501.1
Sep-22	426	7,500	0	0	0	33,240	0	0	0	33,240	0	1,855	0	0	6,071	0	1	-501.1
Oct-22	0	7,750	0	0	0	34,348	0	0	0	34,348	0	1,917	0	0	5,833	0	1	-501.1
Nov-22	0	7,500	0	0	0	33,240	0	0	0	33,240	0	1,855	0	0	5,645	0	1	-501.1
Dec-22	0	7,750	0	0	0	34,348	0	0	0	34,348	0	1,917	0	0	5,833	0	1	-501.1
Jan-23	0	13,020	0	0	0	30,208	0	0	0	30,070	0	1,591	0	0	11,567	0	1	-501.1
Feb-23	0	11,760	0	0	0	27,160	0	0	0	27,160	0	1,437	0	0	10,323	0	1	-501.1
Mar-23	0	13,020	0	0	0	30,070	0	0	0	30,070	0	1,591	0	0	11,429	0	1	-501.1
Apr-23	0	12,600	0	0	0	29,100	0	0	0	29,100	0	1,540	0	0	11,060	0	1	-501.1
May-23	0	13,020	0	0	0	30,070	0	0	0	30,070	0	1,591	0	0	11,429	0	1	-501.1
Jun-23	1,153	12,600	0	0	0	29,100	0	0	0	29,100	0	1,540	0	0	12,213	0	1	-501.1
Jul-23	290	13,020	0	0	0	30,070	0	0	0	30,070	0	1,591	0	0	11,718	0	1	-501.1
Aug-23	342	13,020	0	0	0	30,070	0	0	0	30,070	0	1,591	0	0	11,771	0	1	-501.1
Sep-23	426	12,600	0	0	0	29,100	0	0	0	29,100	0	1,540	0	0	11,486	0	1	-501.1
Oct-23	0	13,020	0	0	0	30,070	0	0	0	30,070	0	1,591	0	0	11,429	0	1	-501.1
Nov-23	0	12,600	0	0	0	29,100	0	0	0	29,100	0	1,540	0	0	11,060	0	1	-501.1
Dec-23	0	13,020	0	0	0	30,070	0	0	0	30,070	0	1,591	0	0	11,429	0	1	-501.1
Jan-24	0	12,710	0	0	0	23,170	0	0	0	22,940	0	1,265	0	0	11,675	0	1	-501.1
Feb-24	0	11,890	0	0	0	21,460	0	0	0	21,460	0	1,184	0	0	10,706	0	1	-501.1
Mar-24	0	12,710	0	0	0	22,940	0	0	0	22,940	0	1,265	0	0	11,445	0	1	-501.1
Apr-24	0	12,300	0	0	0	22,200	0	0	0	22,200	0	1,225	0	0	11,075	0	1	-501.1
May-24	0	12,710	0	0	0	22,940	0	0	0	22,940	0	1,265	0	0	11,445	0	1	-501.1
Jun-24	1,153	12,300	0	0	0	22,200	0	0	0	22,200	0	1,225	0	0	12,228	0	1	-501.1
Jul-24	290	12,710	0	0	0	22,940	0	0	0	22,940	0	1,265	0	0	11,734	0	1	-501.1
Aug-24	342	12,710	0	0	0	22,940	0	0	0	22,940	0	1,265	0	0	11,787	0	1	-501.1
Sep-24	426	12,300	0	0	0	22,200	0	0	0	22,200	0	1,225	0	0	11,502	0	1	-501.1
Oct-24	0	12,710	0	0	0	22,940	0	0	0	22,940	0	1,265	0	0	11,445	0	1	-501.1
Nov-24	0	12,300	0	0	0	22,200	0	0	0	22,200	0	1,225	0	0	11,075	0	1	-501.1
Dec-24	0	12,710	0	0	0	22,940	0	0	0	22,940	0	1,265	0	0	11,445	0	1	-501.1
Jan-25	0	10,540	0	0	0	14,690	0	0	0	14,415	0	0	0	0	10,815	0	1	-501.1
Feb-25	0	9,520	0	0	0	13,020	0	0	0	13,020	0	0	0	0	9,520	0	1	-501.1
Mar-25	0	10,540	0	0	0	14,415	0	0	0	14,415	0	0	0	0	10,540	0	1	-501.1
Apr-25	0	10,200	0	0	0	13,950	0	0	0	13,950	0	0	0	0	10,200	0	1	-501.1
May-25	0	10,540	0	0	0	14,415	0	0	0	14,415	0	0	0	0	10,540	0	1	-501.1
Jun-25	1,153	10,200	0	0	0	13,950	0	0	0	13,950	0	0	0	0	11,353	0	1	-501.1
Jul-25	290	10,540	0	0	0	14,415	0	0	0	14,415	0	0	0	0	10,830	0	1	-501.1
Aug-25	342	10,540	0	0	0	14,415	0	0	0	14,415	0	0	0	0	10,882	0	1	-501.1
Sep-25	426	10,200	0	0	0	13,950	0	0	0	13,950	0	0	0	0	10,626	0	1	-501.1
Oct-25	0	10,540	0	0	0	14,415	0	0	0	14,415	0	0	0	0	10,540	0	1	-501.1
Nov-25	0	10,200	0	0	0	13,950	0	0	0	13,950	0	0	0	0	10,200	0	1	-501.1
Dec-25	0	10,540	0	0	0	14,415	0	0	0	14,415	0	0	0	0	10,540	0	1	-501.1
Jan-26	0	647	0	0	0	465	151,718	169,293	75,637	0	0	0	0	0	0	0	397,761	-289.5
Feb-26	0	604	0	0	0	0	0	0	0	0	0	0	0	0	0	0	398,364	-288.9
Mar-26	0	669	0	0	0	0	0	0	0	0	0	0	0	0	0	0	399,034	-288.4
Apr-26	0	648	0	0	0	0	0	0	0	0	0	0	0	0	0	0	399,682	-287.8
May-26	0	501	868,364	0	0	0	0	0	0	0	288	0	0	0	0	0	1,268,258	135.8
Jun-26	1,153	0	0	0	0	0	0	0	0	0	762	0	0	0	0	104	1,268,546	149.0

UNDERGROUND MINE

	INFLOWS									OUTFLOWS							STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon		m3	m
Date	Runoff	Groundwater	Whale Tail Lake (South Basin)	GSP-1	Lake C38 (Nemo Lake)	Recirculation	GSP-1 (Closure)	IVR Att Pond	GSP-2 (Closure)	Recirculation	Groundwater	Waste Rock	Underground Stope	GSP-1	GSP-2	Overflow	Pond Volume	Water Level
Jul-26	290	0	0	0	0	0	0	0	0	0	812	0	0	0	0	0	1,268,023	125.0
Aug-26	342	0	0	0	0	0	0	0	0	0	547	0	0	0	0	0	1,267,819	115.6
Sep-26	426	0	0	0	0	0	0	0	0	0	472	0	0	0	0	0	1,267,773	113.5
Oct-26	0	0	0	0	0	0	0	0	0	0	385	0	0	0	0	0	1,267,388	95.8
Nov-26	0	0	0	0	0	0	0	0	0	0	246	0	0	0	0	0	1,267,142	84.5
Dec-26	0	0	0	0	0	0	0	0	0	0	144	0	0	0	0	0	1,266,998	77.8
Jan-27	0	0	0	0	0	0	0	0	0	0	75	0	0	0	0	0	1,266,923	74.4
Feb-27	0	0	0	0	0	0	0	0	0	0	36	0	0	0	0	0	1,266,887	72.7
Mar-27	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	1,266,866	71.7
Apr-27	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	1,266,856	71.3
May-27	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	1,266,850	71.0
Jun-27	1,153	0	0	0	0	0	0	0	0	0	257	0	0	0	0	0	1,267,746	112.2
Jul-27	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-27	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,560	103.6
Sep-27	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9
Oct-27	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-27	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-27	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-28	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-28	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	1,266,876	72.2
Mar-28	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-28	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-28	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-28	1,153	0	0	0	0	0	0	0	0	0	256	0	0	0	0	0	1,267,746	112.2
Jul-28	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-28	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,560	103.6
Sep-28	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9
Oct-28	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-28	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-28	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-29	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-29	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	1,266,877	72.3
Mar-29	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-29	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-29	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-29	1,153	0	0	0	0	0	0	0	0	0	256	0	0	0	0	0	1,267,745	112.2
Jul-29	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-29	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,560	103.6
Sep-29	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9
Oct-29	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-29	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-29	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-30	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-30	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	1,266,877	72.3
Mar-30	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-30	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-30	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-30	1,153	0	0	0	0	0	0	0	0	0	256	0	0	0	0	0	1,267,745	112.2
Jul-30	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-30	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,560	103.6
Sep-30	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9

UNDERGROUND MINE

	INFLOWS									OUTFLOWS							STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon		m3	m
Date	Runoff	Groundwater	Whale Tail Lake (South Basin)	GSP-1	Lake C38 (Nemo Lake)	Recirculation	GSP-1 (Closure)	IVR Att Pond	GSP-2 (Closure)	Recirculation	Groundwater	Waste Rock	Underground Stope	GSP-1	GSP-2	Overflow	Pond Volume	Water Level
Oct-30	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-30	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-30	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-31	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-31	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	1,266,877	72.3
Mar-31	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-31	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-31	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-31	1,153	0	0	0	0	0	0	0	0	0	256	0	0	0	0	0	1,267,745	112.2
Jul-31	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-31	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,560	103.6
Sep-31	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9
Oct-31	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-31	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-31	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-32	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-32	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	1,266,876	72.2
Mar-32	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-32	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-32	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-32	1,153	0	0	0	0	0	0	0	0	0	256	0	0	0	0	0	1,267,746	112.2
Jul-32	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-32	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,560	103.6
Sep-32	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9
Oct-32	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-32	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-32	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-33	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-33	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	1,266,877	72.3
Mar-33	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-33	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-33	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-33	1,153	0	0	0	0	0	0	0	0	0	256	0	0	0	0	0	1,267,745	112.2
Jul-33	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-33	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,560	103.6
Sep-33	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9
Oct-33	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-33	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-33	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-34	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-34	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	1,266,877	72.3
Mar-34	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-34	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-34	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-34	1,153	0	0	0	0	0	0	0	0	0	256	0	0	0	0	0	1,267,745	112.2
Jul-34	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-34	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,560	103.6
Sep-34	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9
Oct-34	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-34	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-34	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3

UNDERGROUND MINE

	INFLOWS									OUTFLOWS							STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon		m3	m
Date	Runoff	Groundwater	Whale Tail Lake (South Basin)	GSP-1	Lake C38 (Nemo Lake)	Recirculation	GSP-1 (Closure)	IVR Att Pond	GSP-2 (Closure)	Recirculation	Groundwater	Waste Rock	Underground Stope	GSP-1	GSP-2	Overflow	Pond Volume	Water Level
Jan-35	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-35	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	1,266,877	72.3
Mar-35	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-35	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-35	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-35	1,153	0	0	0	0	0	0	0	0	0	256	0	0	0	0	0	1,267,745	112.2
Jul-35	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-35	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,560	103.6
Sep-35	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9
Oct-35	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-35	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-35	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-36	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-36	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	1,266,876	72.2
Mar-36	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-36	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-36	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-36	1,153	0	0	0	0	0	0	0	0	0	256	0	0	0	0	0	1,267,746	112.2
Jul-36	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-36	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,560	103.6
Sep-36	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9
Oct-36	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-36	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-36	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-37	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-37	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	1,266,877	72.3
Mar-37	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-37	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-37	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-37	1,153	0	0	0	0	0	0	0	0	0	257	0	0	0	0	0	1,267,745	112.2
Jul-37	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-37	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,559	103.6
Sep-37	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9
Oct-37	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-37	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-37	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-38	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-38	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	1,266,877	72.3
Mar-38	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-38	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-38	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-38	1,153	0	0	0	0	0	0	0	0	0	257	0	0	0	0	0	1,267,745	112.2
Jul-38	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-38	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,559	103.6
Sep-38	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9
Oct-38	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-38	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-38	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-39	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-39	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	1,266,877	72.3
Mar-39	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5

UNDERGROUND MINE

	INFLOWS									OUTFLOWS							STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon		m3	m
Date	Runoff	Groundwater	Whale Tail Lake (South Basin)	GSP-1	Lake C38 (Nemo Lake)	Recirculation	GSP-1 (Closure)	IVR Att Pond	GSP-2 (Closure)	Recirculation	Groundwater	Waste Rock	Underground Stope	GSP-1	GSP-2	Overflow	Pond Volume	Water Level
Apr-39	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-39	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-39	1,153	0	0	0	0	0	0	0	0	0	256	0	0	0	0	0	1,267,745	112.2
Jul-39	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-39	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,560	103.6
Sep-39	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9
Oct-39	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-39	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-39	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-40	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-40	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	1,266,876	72.2
Mar-40	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-40	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-40	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-40	1,153	0	0	0	0	0	0	0	0	0	256	0	0	0	0	0	1,267,746	112.2
Jul-40	290	0	0	0	0	0	0	0	0	0	430	0	0	0	0	0	1,267,605	105.7
Aug-40	342	0	0	0	0	0	0	0	0	0	388	0	0	0	0	0	1,267,560	103.6
Sep-40	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,609	105.9
Oct-40	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,282	90.9
Nov-40	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-40	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-41	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-41	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	1,266,877	72.3
Mar-41	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-41	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-41	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-41	1,153	0	0	0	0	0	0	0	0	0	261	0	0	0	0	0	1,267,741	112.0
Jul-41	290	0	0	0	0	0	0	0	0	0	428	0	0	0	0	0	1,267,603	105.6
Aug-41	342	0	0	0	0	0	0	0	0	0	387	0	0	0	0	0	1,267,558	103.6
Sep-41	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,608	105.9
Oct-41	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,281	90.8
Nov-41	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-41	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-42	0	0	0	0	0	0	0	0	0	0	59	0	0	0	0	0	1,266,905	73.6
Feb-42	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	1,266,877	72.3
Mar-42	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	1,266,861	71.5
Apr-42	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1,266,853	71.2
May-42	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1,266,849	71.0
Jun-42	1,153	0	0	0	0	0	0	0	0	0	260	0	0	0	0	0	1,267,741	112.0
Jul-42	290	0	0	0	0	0	0	0	0	0	429	0	0	0	0	0	1,267,602	105.6
Aug-42	342	0	0	0	0	0	0	0	0	0	387	0	0	0	0	0	1,267,558	103.6
Sep-42	426	0	0	0	0	0	0	0	0	0	377	0	0	0	0	0	1,267,608	105.9
Oct-42	0	0	0	0	0	0	0	0	0	0	327	0	0	0	0	0	1,267,281	90.8
Nov-42	0	0	0	0	0	0	0	0	0	0	204	0	0	0	0	0	1,267,077	81.5
Dec-42	0	0	0	0	0	0	0	0	0	0	113	0	0	0	0	0	1,266,964	76.3
Jan-43	0	0	0	0	0	0	0	0	0	0	58.74955	0	0	0	0	0	1.27E+06	73.5543
Feb-43	0	0	0	0	0	0	0	0	0	0	28.17003	0	0	0	0	0	1.27E+06	72.25903
Mar-43	0	0	0	0	0	0	0	0	0	0	16.10232	0	0	0	0	0	1.27E+06	71.51863
Apr-43	0	0	0	0	0	0	0	0	0	0	7.796044	0	0	0	0	0	1.27E+06	71.16016
May-43	0	0	0	0	0	0	0	0	0	0	4.040788	0	0	0	0	0	1.27E+06	70.97437
Jun-43	1152.762	0	0	0	0	0	0	0	0	0	256.3535	0	0	0	0	0	1.27E+06	112.1918

UNDERGROUND MINE

	INFLOWS									OUTFLOWS							STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon		m3	m
Date	Runoff	Groundwater	Whale Tail Lake (South Basin)	GSP-1	Lake C38 (Nemo Lake)	Recirculation	GSP-1 (Closure)	IVR Att Pond	GSP-2 (Closure)	Recirculation	Groundwater	Waste Rock	Underground Stope	GSP-1	GSP-2	Overflow	Pond Volume	Water Level
Jul-43	289.5346	0	0	0	0	0	0	0	0	0	430.2255	0	0	0	0	0	1.27E+06	105.7227
Aug-43	342.398	0	0	0	0	0	0	0	0	0	387.705	0	0	0	0	0	1.27E+06	103.6395
Sep-43	426.1638	0	0	0	0	0	0	0	0	0	377.0479	0	0	0	0	0	1.27E+06	105.8979
Oct-43	0	0	0	0	0	0	0	0	0	0	327.0847	0	0	0	0	0	1.27E+06	90.85831
Nov-43	0	0	0	0	0	0	0	0	0	0	204.1861	0	0	0	0	0	1.27E+06	81.46972
Dec-43	0	0	0	0	0	0	0	0	0	0	113.2205	0	0	0	0	0	1.27E+06	76.26377
Jan-44	0	0	0	0	0	0	0	0	0	0	58.8345	0	0	0	0	0	1.27E+06	73.55853
Feb-44	0	0	0	0	0	0	0	0	0	0	28.92849	0	0	0	0	0	1.27E+06	72.22838
Mar-44	0	0	0	0	0	0	0	0	0	0	15.76591	0	0	0	0	0	1.27E+06	71.50345
Apr-44	0	0	0	0	0	0	0	0	0	0	7.633167	0	0	0	0	0	1.27E+06	71.15247
May-44	0	0	0	0	0	0	0	0	0	0	3.956366	0	0	0	0	0	1.27E+06	70.97056
Jun-44	1152.998	0	0	0	0	0	0	0	0	0	256.3649	0	0	0	0	0	1.27E+06	112.1983
Jul-44	289.5346	0	0	0	0	0	0	0	0	0	430.2787	0	0	0	0	0	1.27E+06	105.7268
Aug-44	342.398	0	0	0	0	0	0	0	0	0	387.7381	0	0	0	0	0	1.27E+06	103.642
Sep-44	426.1638	0	0	0	0	0	0	0	0	0	377.0681	0	0	0	0	0	1.27E+06	105.8995
Oct-44	0	0	0	0	0	0	0	0	0	0	327.0966	0	0	0	0	0	1.27E+06	90.85938
Nov-44	0	0	0	0	0	0	0	0	0	0	204.1957	0	0	0	0	0	1.27E+06	81.47033
Dec-44	0	0	0	0	0	0	0	0	0	0	113.2269	0	0	0	0	0	1.27E+06	76.26409
Jan-45	0	0	0	0	0	0	0	0	0	0	58.83783	0	0	0	0	0	1.27E+06	73.55869
Feb-45	0	0	0	0	0	0	0	0	0	0	28.21408	0	0	0	0	0	1.27E+06	72.26139
Mar-45	0	0	0	0	0	0	0	0	0	0	16.12829	0	0	0	0	0	1.27E+06	71.51981
Apr-45	0	0	0	0	0	0	0	0	0	0	7.808618	0	0	0	0	0	1.27E+06	71.16076
May-45	0	0	0	0	0	0	0	0	0	0	4.047305	0	0	0	0	0	1.27E+06	70.97466
Jun-45	1152.762	0	0	0	0	0	0	0	0	0	256.3547	0	0	0	0	0	1.27E+06	112.192
Jul-45	289.5346	0	0	0	0	0	0	0	0	0	430.2275	0	0	0	0	0	1.27E+06	105.7229
Aug-45	342.398	0	0	0	0	0	0	0	0	0	387.7062	0	0	0	0	0	1.27E+06	103.6396
Sep-45	426.1638	0	0	0	0	0	0	0	0	0	377.0486	0	0	0	0	0	1.27E+06	105.8979
Oct-45	0	0	0	0	0	0	0	0	0	0	327.0851	0	0	0	0	0	1.27E+06	90.85836
Nov-45	0	0	0	0	0	0	0	0	0	0	204.1864	0	0	0	0	0	1.27E+06	81.46974
Dec-45	0	0	0	0	0	0	0	0	0	0	113.2207	0	0	0	0	0	1.27E+06	76.26379
Jan-46	0	0	0	0	0	0	0	0	0	0	58.83462	0	0	0	0	0	1.27E+06	73.55853
Feb-46	0	0	0	0	0	0	0	0	0	0	28.21247	0	0	0	0	0	1.27E+06	72.26131
Mar-46	0	0	0	0	0	0	0	0	0	0	16.12735	0	0	0	0	0	1.27E+06	71.51976
Apr-46	0	0	0	0	0	0	0	0	0	0	7.80816	0	0	0	0	0	1.27E+06	71.16074
May-46	0	0	0	0	0	0	0	0	0	0	4.047068	0	0	0	0	0	1.27E+06	70.97465
Jun-46	1152.762	0	0	0	0	0	0	0	0	0	256.3539	0	0	0	0	0	1.27E+06	112.1921
Jul-46	289.5346	0	0	0	0	0	0	0	0	0	430.2277	0	0	0	0	0	1.27E+06	105.7229
Aug-46	342.398	0	0	0	0	0	0	0	0	0	387.7064	0	0	0	0	0	1.27E+06	103.6396
Sep-46	426.1638	0	0	0	0	0	0	0	0	0	377.0487	0	0	0	0	0	1.27E+06	105.8979
Oct-46	0	0	0	0	0	0	0	0	0	0	327.0851	0	0	0	0	0	1.27E+06	90.85836
Nov-46	0	0	0	0	0	0	0	0	0	0	204.1865	0	0	0	0	0	1.27E+06	81.46974
Dec-46	0	0	0	0	0	0	0	0	0	0	113.2207	0	0	0	0	0	1.27E+06	76.26379
Jan-47	0	0	0	0	0	0	0	0	0	0	58.83463	0	0	0	0	0	1.27E+06	73.55853
Feb-47	0	0	0	0	0	0	0	0	0	0	28.21248	0	0	0	0	0	1.27E+06	72.26131
Mar-47	0	0	0	0	0	0	0	0	0	0	16.12735	0	0	0	0	0	1.27E+06	71.51976
Apr-47	0	0	0	0	0	0	0	0	0	0	7.808162	0	0	0	0	0	1.27E+06	71.16074
May-47	0	0	0	0	0	0	0	0	0	0	4.047069	0	0	0	0	0	1.27E+06	70.97465
Jun-47	1152.762	0	0	0	0	0	0	0	0	0	256.3944	0	0	0	0	0	1.27E+06	112.1902
Jul-47	289.5346	0	0	0	0	0	0	0	0	0	430.2125	0	0	0	0	0	1.27E+06	105.7217
Aug-47	342.398	0	0	0	0	0	0	0	0	0	387.6969	0	0	0	0	0	1.27E+06	103.6389
Sep-47	426.1638	0	0	0	0	0	0	0	0	0	377.043	0	0	0	0	0	1.27E+06	105.8975

UNDERGROUND MINE

	INFLOWS									OUTFLOWS							STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon		m3	m
Date	Runoff	Groundwater	Whale Tail Lake (South Basin)	GSP-1	Lake C38 (Nemo Lake)	Recirculation	GSP-1 (Closure)	IVR Att Pond	GSP-2 (Closure)	Recirculation	Groundwater	Waste Rock	Underground Stope	GSP-1	GSP-2	Overflow	Pond Volume	Water Level
Oct-47	0	0	0	0	0	0	0	0	0	0	327.0817	0	0	0	0	0	1.27E+06	90.85806
Nov-47	0	0	0	0	0	0	0	0	0	0	204.1837	0	0	0	0	0	1.27E+06	81.46957
Dec-47	0	0	0	0	0	0	0	0	0	0	113.2189	0	0	0	0	0	1.27E+06	76.26369
Jan-48	0	0	0	0	0	0	0	0	0	0	58.83368	0	0	0	0	0	1.27E+06	73.55849
Feb-48	0	0	0	0	0	0	0	0	0	0	28.92807	0	0	0	0	0	1.27E+06	72.22836
Mar-48	0	0	0	0	0	0	0	0	0	0	15.76567	0	0	0	0	0	1.27E+06	71.50344
Apr-48	0	0	0	0	0	0	0	0	0	0	7.633053	0	0	0	0	0	1.27E+06	71.15247
May-48	0	0	0	0	0	0	0	0	0	0	3.956307	0	0	0	0	0	1.27E+06	70.97056
Jun-48	1152.998	0	0	0	0	0	0	0	0	0	256.3619	0	0	0	0	0	1.27E+06	112.1984
Jul-48	289.5346	0	0	0	0	0	0	0	0	0	430.2798	0	0	0	0	0	1.27E+06	105.7269
Aug-48	342.398	0	0	0	0	0	0	0	0	0	387.7389	0	0	0	0	0	1.27E+06	103.6421
Sep-48	426.1638	0	0	0	0	0	0	0	0	0	377.0685	0	0	0	0	0	1.27E+06	105.8995
Oct-48	0	0	0	0	0	0	0	0	0	0	327.0968	0	0	0	0	0	1.27E+06	90.8594
Nov-48	0	0	0	0	0	0	0	0	0	0	204.1959	0	0	0	0	0	1.27E+06	81.47034
Dec-48	0	0	0	0	0	0	0	0	0	0	113.227	0	0	0	0	0	1.27E+06	76.2641
Jan-49	0	0	0	0	0	0	0	0	0	0	58.8379	0	0	0	0	0	1.27E+06	73.55869
Feb-49	0	0	0	0	0	0	0	0	0	0	28.21411	0	0	0	0	0	1.27E+06	72.26139
Mar-49	0	0	0	0	0	0	0	0	0	0	16.12831	0	0	0	0	0	1.27E+06	71.51981
Apr-49	0	0	0	0	0	0	0	0	0	0	7.808627	0	0	0	0	0	1.27E+06	71.16076
May-49	0	0	0	0	0	0	0	0	0	0	4.04731	0	0	0	0	0	1.27E+06	70.97466
Jun-49	1152.762	0	0	0	0	0	0	0	0	0	256.3516	0	0	0	0	0	1.27E+06	112.1922
Jul-49	289.5346	0	0	0	0	0	0	0	0	0	430.2287	0	0	0	0	0	1.27E+06	105.723
Aug-49	342.398	0	0	0	0	0	0	0	0	0	387.707	0	0	0	0	0	1.27E+06	103.6396
Sep-49	426.1638	0	0	0	0	0	0	0	0	0	377.0491	0	0	0	0	0	1.27E+06	105.898
Oct-49	0	0	0	0	0	0	0	0	0	0	327.0853	0	0	0	0	0	1.27E+06	90.85838
Nov-49	0	0	0	0	0	0	0	0	0	0	204.1866	0	0	0	0	0	1.27E+06	81.46976
Dec-49	0	0	0	0	0	0	0	0	0	0	113.2208	0	0	0	0	0	1.27E+06	76.26379
Jan-50	0	0	0	0	0	0	0	0	0	0	58.83469	0	0	0	0	0	1.27E+06	73.55853
Feb-50	0	0	0	0	0	0	0	0	0	0	28.21251	0	0	0	0	0	1.27E+06	72.26131
Mar-50	0	0	0	0	0	0	0	0	0	0	16.12737	0	0	0	0	0	1.27E+06	71.51976
Apr-50	0	0	0	0	0	0	0	0	0	0	7.808171	0	0	0	0	0	1.27E+06	71.16074
May-50	0	0	0	0	0	0	0	0	0	0	4.047073	0	0	0	0	0	1.27E+06	70.97465
Jun-50	1152.762	0	0	0	0	0	0	0	0	0	256.3507	0	0	0	0	0	1.27E+06	112.1922
Jul-50	289.5346	0	0	0	0	0	0	0	0	0	430.2289	0	0	0	0	0	1.27E+06	105.723
Aug-50	342.398	0	0	0	0	0	0	0	0	0	387.7072	0	0	0	0	0	1.27E+06	103.6396
Sep-50	426.1638	0	0	0	0	0	0	0	0	0	377.0492	0	0	0	0	0	1.27E+06	105.898
Oct-50	0	0	0	0	0	0	0	0	0	0	327.0854	0	0	0	0	0	1.27E+06	90.85838
Nov-50	0	0	0	0	0	0	0	0	0	0	204.1867	0	0	0	0	0	1.27E+06	81.46976
Dec-50	0	0	0	0	0	0	0	0	0	0	110.607	0	0	0	0	0	1.27E+06	76.38398

GROUNDWATER STORAGE POND 2 (Formerly BRACKISH WATER)

	INFLOWS		OUTFLOWS			STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Overflow from UG Sump	Evaporation	RO	Natural Overflow	Pond Volume	Water Level
Jan-18	0	0	0	0	0	0	142
Feb-18	0	0	0	0	0	0	142
Mar-18	0	0	0	0	0	0	142
Apr-18	0	0	0	0	0	0	142
May-18	0	0	0	0	0	0	142
Jun-18	0	0	0	0	0	0	142
Jul-18	0	0	0	0	0	0	142
Aug-18	0	0	0	0	0	0	142
Sep-18	0	0	0	0	0	0	142
Oct-18	0	0	0	0	0	0	142
Nov-18	0	0	0	0	0	0	142
Dec-18	0	0	0	0	0	0	142
Jan-19	0	0	0	0	0	0	142
Feb-19	0	0	0	0	0	0	142
Mar-19	0	0	0	0	0	0	142
Apr-19	0	0	0	0	0	0	142
May-19	0	0	0	0	0	0	142
Jun-19	0	0	0	0	0	0	142
Jul-19	0	0	0	0	0	0	142
Aug-19	0	0	0	0	0	0	142
Sep-19	0	0	0	0	0	0	142
Oct-19	0	0	0	0	0	0	142
Nov-19	0	0	0	0	0	0	142
Dec-19	0	0	0	0	0	0	142
Jan-20	0	0	0	0	0	0	142
Feb-20	0	0	0	0	0	0	142
Mar-20	0	0	0	0	0	0	142
Apr-20	0	0	0	0	0	0	142
May-20	0	0	0	0	0	0	142
Jun-20	0	0	0	0	0	0	142
Jul-20	0	0	0	0	0	0	142
Aug-20	0	0	0	0	0	0	142
Sep-20	0	0	0	0	0	0	142
Oct-20	0	0	0	0	0	0	142
Nov-20	0	0	0	0	0	0	142
Dec-20	0	0	0	0	0	0	142
Jan-21	0	0	0	0	0	0	142
Feb-21	0	0	0	0	0	0	142
Mar-21	0	0	0	0	0	0	142
Apr-21	0	0	0	0	0	0	142
May-21	0	0	0	0	0	0	142
Jun-21	0	0	0	0	0	0	142

GROUNDWATER STORAGE POND 2 (Formerly BRACKISH WATER)

	INFLOWS		OUTFLOWS			STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Overflow from UG Sump	Evaporation	RO	Natural Overflow	Pond Volume	Water Level
Jul-21	0	0	0	0	0	0	142
Aug-21	0	0	0	0	0	0	142
Sep-21	0	0	0	0	0	0	142
Oct-21	0	0	0	0	0	0	142
Nov-21	0	0	0	0	0	0	142
Dec-21	0	0	0	0	0	0	142
Jan-22	0	0	0	0	0	0	142
Feb-22	0	0	0	0	0	0	142
Mar-22	0	0	0	0	0	0	142
Apr-22	0	0	0	0	0	0	142
May-22	0	5,645	0	0	0	5,645	143
Jun-22	6,618	6,797	38	18,022	0	1,000	142
Jul-22	856	6,122	253	6,726	0	1,000	142
Aug-22	1,163	6,175	255	7,083	0	1,000	142
Sep-22	2,149	6,071	99	8,121	0	1,000	142
Oct-22	0	5,833	0	0	0	6,833	143
Nov-22	0	5,645	0	0	0	12,477	143
Dec-22	0	5,833	0	0	0	18,310	144
Jan-23	0	11,567	0	0	0	29,877	144
Feb-23	0	10,323	0	0	0	40,200	145
Mar-23	0	11,429	0	0	0	51,629	145
Apr-23	0	11,060	0	0	0	62,689	146
May-23	0	11,429	0	0	0	74,118	147
Jun-23	6,661	12,213	165	30,000	0	62,826	146
Jul-23	1,377	11,718	1,865	31,000	0	43,058	145
Aug-23	1,678	11,771	1,863	31,000	0	23,643	144
Sep-23	2,349	11,486	714	30,000	0	6,764	143
Oct-23	0	11,429	0	0	0	18,193	144
Nov-23	0	11,060	0	0	0	29,253	144
Dec-23	0	11,429	0	0	0	40,682	145
Jan-24	0	11,675	0	0	0	52,357	145
Feb-24	0	10,706	0	0	0	63,063	146
Mar-24	0	11,445	0	0	0	74,508	147
Apr-24	0	11,075	0	0	0	85,583	147
May-24	0	11,445	0	0	0	97,028	148
Jun-24	6,663	12,228	167	30,000	0	85,751	147
Jul-24	1,385	11,734	1,888	31,000	0	65,982	146
Aug-24	1,685	11,787	1,887	31,000	0	46,567	145
Sep-24	2,352	11,502	723	30,000	0	29,697	144
Oct-24	0	11,445	0	0	0	41,142	145
Nov-24	0	11,075	0	0	0	52,217	145
Dec-24	0	11,445	0	0	0	63,662	146

GROUNDWATER STORAGE POND 2 (Formerly BRACKISH WATER)

	INFLOWS		OUTFLOWS			STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Overflow from UG Sump	Evaporation	RO	Natural Overflow	Pond Volume	Water Level
Jan-25	0	10,815	0	0	0	74,477	147
Feb-25	0	9,520	0	0	0	83,997	147
Mar-25	0	10,540	0	0	0	94,537	148
Apr-25	0	10,200	0	0	0	104,737	148
May-25	0	10,540	0	0	0	115,277	149
Jun-25	6,662	11,353	169	30,000	0	103,123	148
Jul-25	1,390	10,830	1,905	31,000	0	82,437	147
Aug-25	1,690	10,882	1,903	31,000	0	62,107	146
Sep-25	2,353	10,626	729	30,000	0	44,357	145
Oct-25	0	10,540	0	0	0	54,897	146
Nov-25	0	10,200	0	0	0	65,097	146
Dec-25	0	10,540	0	0	0	75,637	147
Jan-26	0	0	0	0	75,637	0	142
Feb-26	0	0	0	0	0	0	142
Mar-26	0	0	0	0	0	0	142
Apr-26	0	0	0	0	0	0	142
May-26	0	0	0	0	0	0	142
Jun-26	6,605	0	0	0	6,605	0	142
Jul-26	775	0	0	0	775	0	142
Aug-26	1,081	0	0	0	1,081	0	142
Sep-26	2,116	0	0	0	2,116	0	142
Oct-26	0	0	0	0	0	0	142
Nov-26	0	0	0	0	0	0	142
Dec-26	0	0	0	0	0	0	142
Jan-27	0	0	0	0	0	0	142
Feb-27	0	0	0	0	0	0	142
Mar-27	0	0	0	0	0	0	142
Apr-27	0	0	0	0	0	0	142
May-27	0	0	0	0	0	0	142
Jun-27	6,605	0	0	0	6,605	0	142
Jul-27	775	0	0	0	775	0	142
Aug-27	1,081	0	0	0	1,081	0	142
Sep-27	2,116	0	0	0	2,116	0	142
Oct-27	0	0	0	0	0	0	142
Nov-27	0	0	0	0	0	0	142
Dec-27	0	0	0	0	0	0	142
Jan-28	0	0	0	0	0	0	142
Feb-28	0	0	0	0	0	0	142
Mar-28	0	0	0	0	0	0	142
Apr-28	0	0	0	0	0	0	142
May-28	0	0	0	0	0	0	142
Jun-28	6,607	0	0	0	6,607	0	142

GROUNDWATER STORAGE POND 2 (Formerly BRACKISH WATER)

	INFLOWS		OUTFLOWS			STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Overflow from UG Sump	Evaporation	RO	Natural Overflow	Pond Volume	Water Level
Jul-28	775	0	0	0	775	0	142
Aug-28	1,081	0	0	0	1,081	0	142
Sep-28	2,116	0	0	0	2,116	0	142
Oct-28	0	0	0	0	0	0	142
Nov-28	0	0	0	0	0	0	142
Dec-28	0	0	0	0	0	0	142
Jan-29	0	0	0	0	0	0	142
Feb-29	0	0	0	0	0	0	142
Mar-29	0	0	0	0	0	0	142
Apr-29	0	0	0	0	0	0	142
May-29	0	0	0	0	0	0	142
Jun-29	6,605	0	0	0	6,605	0	142
Jul-29	775	0	0	0	775	0	142
Aug-29	1,081	0	0	0	1,081	0	142
Sep-29	2,116	0	0	0	2,116	0	142
Oct-29	0	0	0	0	0	0	142
Nov-29	0	0	0	0	0	0	142
Dec-29	0	0	0	0	0	0	142
Jan-30	0	0	0	0	0	0	142
Feb-30	0	0	0	0	0	0	142
Mar-30	0	0	0	0	0	0	142
Apr-30	0	0	0	0	0	0	142
May-30	0	0	0	0	0	0	142
Jun-30	6,605	0	0	0	6,605	0	142
Jul-30	775	0	0	0	775	0	142
Aug-30	1,081	0	0	0	1,081	0	142
Sep-30	2,116	0	0	0	2,116	0	142
Oct-30	0	0	0	0	0	0	142
Nov-30	0	0	0	0	0	0	142
Dec-30	0	0	0	0	0	0	142
Jan-31	0	0	0	0	0	0	142
Feb-31	0	0	0	0	0	0	142
Mar-31	0	0	0	0	0	0	142
Apr-31	0	0	0	0	0	0	142
May-31	0	0	0	0	0	0	142
Jun-31	6,605	0	0	0	6,605	0	142
Jul-31	775	0	0	0	775	0	142
Aug-31	1,081	0	0	0	1,081	0	142
Sep-31	2,116	0	0	0	2,116	0	142
Oct-31	0	0	0	0	0	0	142
Nov-31	0	0	0	0	0	0	142
Dec-31	0	0	0	0	0	0	142

GROUNDWATER STORAGE POND 2 (Formerly BRACKISH WATER)

	INFLOWS		OUTFLOWS			STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Overflow from UG Sump	Evaporation	RO	Natural Overflow	Pond Volume	Water Level
Jan-32	0	0	0	0	0	0	142
Feb-32	0	0	0	0	0	0	142
Mar-32	0	0	0	0	0	0	142
Apr-32	0	0	0	0	0	0	142
May-32	0	0	0	0	0	0	142
Jun-32	6,607	0	0	0	6,607	0	142
Jul-32	775	0	0	0	775	0	142
Aug-32	1,081	0	0	0	1,081	0	142
Sep-32	2,116	0	0	0	2,116	0	142
Oct-32	0	0	0	0	0	0	142
Nov-32	0	0	0	0	0	0	142
Dec-32	0	0	0	0	0	0	142
Jan-33	0	0	0	0	0	0	142
Feb-33	0	0	0	0	0	0	142
Mar-33	0	0	0	0	0	0	142
Apr-33	0	0	0	0	0	0	142
May-33	0	0	0	0	0	0	142
Jun-33	6,605	0	0	0	6,605	0	142
Jul-33	775	0	0	0	775	0	142
Aug-33	1,081	0	0	0	1,081	0	142
Sep-33	2,116	0	0	0	2,116	0	142
Oct-33	0	0	0	0	0	0	142
Nov-33	0	0	0	0	0	0	142
Dec-33	0	0	0	0	0	0	142
Jan-34	0	0	0	0	0	0	142
Feb-34	0	0	0	0	0	0	142
Mar-34	0	0	0	0	0	0	142
Apr-34	0	0	0	0	0	0	142
May-34	0	0	0	0	0	0	142
Jun-34	6,605	0	0	0	6,605	0	142
Jul-34	775	0	0	0	775	0	142
Aug-34	1,081	0	0	0	1,081	0	142
Sep-34	2,116	0	0	0	2,116	0	142
Oct-34	0	0	0	0	0	0	142
Nov-34	0	0	0	0	0	0	142
Dec-34	0	0	0	0	0	0	142
Jan-35	0	0	0	0	0	0	142
Feb-35	0	0	0	0	0	0	142
Mar-35	0	0	0	0	0	0	142
Apr-35	0	0	0	0	0	0	142
May-35	0	0	0	0	0	0	142
Jun-35	6,605	0	0	0	6,605	0	142

GROUNDWATER STORAGE POND 2 (Formerly BRACKISH WATER)

	INFLOWS		OUTFLOWS			STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Overflow from UG Sump	Evaporation	RO	Natural Overflow	Pond Volume	Water Level
Jul-35	775	0	0	0	775	0	142
Aug-35	1,081	0	0	0	1,081	0	142
Sep-35	2,116	0	0	0	2,116	0	142
Oct-35	0	0	0	0	0	0	142
Nov-35	0	0	0	0	0	0	142
Dec-35	0	0	0	0	0	0	142
Jan-36	0	0	0	0	0	0	142
Feb-36	0	0	0	0	0	0	142
Mar-36	0	0	0	0	0	0	142
Apr-36	0	0	0	0	0	0	142
May-36	0	0	0	0	0	0	142
Jun-36	6,607	0	0	0	6,607	0	142
Jul-36	775	0	0	0	775	0	142
Aug-36	1,081	0	0	0	1,081	0	142
Sep-36	2,116	0	0	0	2,116	0	142
Oct-36	0	0	0	0	0	0	142
Nov-36	0	0	0	0	0	0	142
Dec-36	0	0	0	0	0	0	142
Jan-37	0	0	0	0	0	0	142
Feb-37	0	0	0	0	0	0	142
Mar-37	0	0	0	0	0	0	142
Apr-37	0	0	0	0	0	0	142
May-37	0	0	0	0	0	0	142
Jun-37	6,605	0	0	0	6,605	0	142
Jul-37	775	0	0	0	775	0	142
Aug-37	1,081	0	0	0	1,081	0	142
Sep-37	2,116	0	0	0	2,116	0	142
Oct-37	0	0	0	0	0	0	142
Nov-37	0	0	0	0	0	0	142
Dec-37	0	0	0	0	0	0	142
Jan-38	0	0	0	0	0	0	142
Feb-38	0	0	0	0	0	0	142
Mar-38	0	0	0	0	0	0	142
Apr-38	0	0	0	0	0	0	142
May-38	0	0	0	0	0	0	142
Jun-38	6,605	0	0	0	6,605	0	142
Jul-38	775	0	0	0	775	0	142
Aug-38	1,081	0	0	0	1,081	0	142
Sep-38	2,116	0	0	0	2,116	0	142
Oct-38	0	0	0	0	0	0	142
Nov-38	0	0	0	0	0	0	142
Dec-38	0	0	0	0	0	0	142

GROUNDWATER STORAGE POND 2 (Formerly BRACKISH WATER)

	INFLOWS		OUTFLOWS			STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Overflow from UG Sump	Evaporation	RO	Natural Overflow	Pond Volume	Water Level
Jan-39	0	0	0	0	0	0	142
Feb-39	0	0	0	0	0	0	142
Mar-39	0	0	0	0	0	0	142
Apr-39	0	0	0	0	0	0	142
May-39	0	0	0	0	0	0	142
Jun-39	6,605	0	0	0	6,605	0	142
Jul-39	775	0	0	0	775	0	142
Aug-39	1,081	0	0	0	1,081	0	142
Sep-39	2,116	0	0	0	2,116	0	142
Oct-39	0	0	0	0	0	0	142
Nov-39	0	0	0	0	0	0	142
Dec-39	0	0	0	0	0	0	142
Jan-40	0	0	0	0	0	0	142
Feb-40	0	0	0	0	0	0	142
Mar-40	0	0	0	0	0	0	142
Apr-40	0	0	0	0	0	0	142
May-40	0	0	0	0	0	0	142
Jun-40	6,607	0	0	0	6,607	0	142
Jul-40	775	0	0	0	775	0	142
Aug-40	1,081	0	0	0	1,081	0	142
Sep-40	2,116	0	0	0	2,116	0	142
Oct-40	0	0	0	0	0	0	142
Nov-40	0	0	0	0	0	0	142
Dec-40	0	0	0	0	0	0	142
Jan-41	0	0	0	0	0	0	142
Feb-41	0	0	0	0	0	0	142
Mar-41	0	0	0	0	0	0	142
Apr-41	0	0	0	0	0	0	142
May-41	0	0	0	0	0	0	142
Jun-41	6,605	0	0	0	6,605	0	142
Jul-41	775	0	0	0	775	0	142
Aug-41	1,081	0	0	0	1,081	0	142
Sep-41	2,116	0	0	0	2,116	0	142
Oct-41	0	0	0	0	0	0	142
Nov-41	0	0	0	0	0	0	142
Dec-41	0	0	0	0	0	0	142
Jan-42	0	0	0	0	0	0	142
Feb-42	0	0	0	0	0	0	142
Mar-42	0	0	0	0	0	0	142
Apr-42	0	0	0	0	0	0	142
May-42	0	0	0	0	0	0	142
Jun-42	6,605	0	0	0	6,605	0	142

GROUNDWATER STORAGE POND 2 (Formerly BRACKISH WATER)

	INFLOWS		OUTFLOWS			STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Overflow from UG Sump	Evaporation	RO	Natural Overflow	Pond Volume	Water Level
Jul-42	775	0	0	0	775	0	142
Aug-42	1,081	0	0	0	1,081	0	142
Sep-42	2,116	0	0	0	2,116	0	142
Oct-42	0	0	0	0	0	0	142
Nov-42	0	0	0	0	0	0	142
Dec-42	0	0	0	0	0	0	142
Jan-43	0	0	0	0	0	0	142
Feb-43	0	0	0	0	0	0	142
Mar-43	0	0	0	0	0	0	142
Apr-43	0	0	0	0	0	0	142
May-43	0	0	0	0	0	0	142
Jun-43	6605.419	0	0	0	6605.419	0	142
Jul-43	774.5894	0	0	0	774.5894	0	142
Aug-43	1081.267	0	0	0	1081.267	0	142
Sep-43	2116.477	0	0	0	2116.477	0	142
Oct-43	0	0	0	0	0	0	142
Nov-43	0	0	0	0	0	0	142
Dec-43	0	0	0	0	0	0	142
Jan-44	0	0	0	0	0	0	142
Feb-44	0	0	0	0	0	0	142
Mar-44	0	0	0	0	0	0	142
Apr-44	0	0	0	0	0	0	142
May-44	0	0	0	0	0	0	142
Jun-44	6606.786	0	0	0	6606.786	0	142
Jul-44	774.5894	0	0	0	774.5894	0	142
Aug-44	1081.267	0	0	0	1081.267	0	142
Sep-44	2116.477	0	0	0	2116.477	0	142
Oct-44	0	0	0	0	0	0	142
Nov-44	0	0	0	0	0	0	142
Dec-44	0	0	0	0	0	0	142
Jan-45	0	0	0	0	0	0	142
Feb-45	0	0	0	0	0	0	142
Mar-45	0	0	0	0	0	0	142
Apr-45	0	0	0	0	0	0	142
May-45	0	0	0	0	0	0	142
Jun-45	6605.419	0	0	0	6605.419	0	142
Jul-45	774.5894	0	0	0	774.5894	0	142
Aug-45	1081.267	0	0	0	1081.267	0	142
Sep-45	2116.477	0	0	0	2116.477	0	142
Oct-45	0	0	0	0	0	0	142
Nov-45	0	0	0	0	0	0	142
Dec-45	0	0	0	0	0	0	142

GROUNDWATER STORAGE POND 2 (Formerly BRACKISH WATER)

	INFLOWS		OUTFLOWS			STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Overflow from UG Sump	Evaporation	RO	Natural Overflow	Pond Volume	Water Level
Jan-46	0	0	0	0	0	0	142
Feb-46	0	0	0	0	0	0	142
Mar-46	0	0	0	0	0	0	142
Apr-46	0	0	0	0	0	0	142
May-46	0	0	0	0	0	0	142
Jun-46	6605.419	0	0	0	6605.419	0	142
Jul-46	774.5894	0	0	0	774.5894	0	142
Aug-46	1081.267	0	0	0	1081.267	0	142
Sep-46	2116.477	0	0	0	2116.477	0	142
Oct-46	0	0	0	0	0	0	142
Nov-46	0	0	0	0	0	0	142
Dec-46	0	0	0	0	0	0	142
Jan-47	0	0	0	0	0	0	142
Feb-47	0	0	0	0	0	0	142
Mar-47	0	0	0	0	0	0	142
Apr-47	0	0	0	0	0	0	142
May-47	0	0	0	0	0	0	142
Jun-47	6605.419	0	0	0	6605.419	0	142
Jul-47	774.5894	0	0	0	774.5894	0	142
Aug-47	1081.267	0	0	0	1081.267	0	142
Sep-47	2116.477	0	0	0	2116.477	0	142
Oct-47	0	0	0	0	0	0	142
Nov-47	0	0	0	0	0	0	142
Dec-47	0	0	0	0	0	0	142
Jan-48	0	0	0	0	0	0	142
Feb-48	0	0	0	0	0	0	142
Mar-48	0	0	0	0	0	0	142
Apr-48	0	0	0	0	0	0	142
May-48	0	0	0	0	0	0	142
Jun-48	6606.786	0	0	0	6606.786	0	142
Jul-48	774.5894	0	0	0	774.5894	0	142
Aug-48	1081.267	0	0	0	1081.267	0	142
Sep-48	2116.477	0	0	0	2116.477	0	142
Oct-48	0	0	0	0	0	0	142
Nov-48	0	0	0	0	0	0	142
Dec-48	0	0	0	0	0	0	142
Jan-49	0	0	0	0	0	0	142
Feb-49	0	0	0	0	0	0	142
Mar-49	0	0	0	0	0	0	142
Apr-49	0	0	0	0	0	0	142
May-49	0	0	0	0	0	0	142
Jun-49	6605.419	0	0	0	6605.419	0	142

GROUNDWATER STORAGE POND 2 (Formerly BRACKISH WATER)

	INFLOWS		OUTFLOWS			STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Overflow from UG Sump	Evaporation	RO	Natural Overflow	Pond Volume	Water Level
Jul-49	774.5894	0	0	0	774.5894	0	142
Aug-49	1081.267	0	0	0	1081.267	0	142
Sep-49	2116.477	0	0	0	2116.477	0	142
Oct-49	0	0	0	0	0	0	142
Nov-49	0	0	0	0	0	0	142
Dec-49	0	0	0	0	0	0	142
Jan-50	0	0	0	0	0	0	142
Feb-50	0	0	0	0	0	0	142
Mar-50	0	0	0	0	0	0	142
Apr-50	0	0	0	0	0	0	142
May-50	0	0	0	0	0	0	142
Jun-50	6605.419	0	0	0	6605.419	0	142
Jul-50	774.5894	0	0	0	774.5894	0	142
Aug-50	1081.267	0	0	0	1081.267	0	142
Sep-50	2116.477	0	0	0	2116.477	0	142
Oct-50	0	0	0	0	0	0	142
Nov-50	0	0	0	0	0	0	142
Dec-50	0	0	0	0	0	0	142

NORTHEAST SECTOR

	INFLOWS			OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m	m3
Date	Lake A49	Rain Runoff	SWE Runoff	Whale Tail Lake (North Basin)	Lake A16 (Mammoth Lake)	Lake C38 (Nemo Lake)	IVR Pit / Whale Tail Lake (North Basin)	Evaporation	Dewatering	Water Level	NE Lake Vol
Jan-18	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-18	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-18	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-18	0	0	0	0	0	0	0	0	0	154.40	33,786
May-18	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-18	32,676	66,590	137,029	235,933	0	0	0	362	0	154.40	33,786
Jul-18	1,521	25,194	0	22,599	0	0	0	4,115	0	154.40	33,786
Aug-18	3,013	34,642	0	33,497	0	0	0	4,157	0	154.40	33,786
Sep-18	9,624	65,727	0	73,742	0	0	0	1,609	0	154.40	33,786
Oct-18	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-18	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-18	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-19	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-19	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-19	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-19	0	0	0	0	0	0	0	0	0	154.40	33,786
May-19	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-19	32,675	66,590	137,028	0	235,932	0	0	362	0	154.40	33,786
Jul-19	1,521	25,194	0	0	22,599	0	0	4,115	0	154.40	33,786
Aug-19	3,013	34,642	0	0	33,497	0	0	4,157	0	154.40	33,786
Sep-19	9,624	65,727	0	0	73,742	0	0	1,609	0	154.40	33,786
Oct-19	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-19	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-19	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-20	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-20	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-20	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-20	0	0	0	0	0	0	0	0	0	154.40	33,786
May-20	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-20	32,682	66,590	137,070	0	235,981	0	0	362	0	154.40	33,786
Jul-20	0	8,559	0	0	0	8,559	0	0	0	154.40	33,786
Aug-20	0	11,948	0	0	0	11,948	0	0	0	154.40	33,786
Sep-20	0	23,387	0	0	0	23,387	0	0	0	154.40	33,786
Oct-20	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-20	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-20	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-21	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-21	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-21	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-21	0	0	0	0	0	0	0	0	0	154.40	33,786
May-21	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-21	0	23,841	49,149	0	0	72,990	0	0	0	154.40	33,786
Jul-21	0	8,559	0	0	0	8,559	0	0	0	154.40	33,786
Aug-21	0	11,948	0	0	0	11,948	0	0	0	154.40	33,786

NORTHEAST SECTOR

	INFLOWS			OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m	m3
Date	Lake A49	Rain Runoff	SWE Runoff	Whale Tail Lake (North Basin)	Lake A16 (Mammoth Lake)	Lake C38 (Nemo Lake)	IVR Pit / Whale Tail Lake (North Basin)	Evaporation	Dewatering	Water Level	NE Lake Vol
Sep-21	0	23,387	0	0	0	23,387	0	0	0	154.40	33,786
Oct-21	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-21	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-21	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-22	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-22	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-22	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-22	0	0	0	0	0	0	0	0	0	154.40	33,786
May-22	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-22	0	23,841	49,149	0	0	72,990	0	0	0	154.40	33,786
Jul-22	0	8,559	0	0	0	8,559	0	0	0	154.40	33,786
Aug-22	0	11,948	0	0	0	11,948	0	0	0	154.40	33,786
Sep-22	0	23,387	0	0	0	23,387	0	0	0	154.40	33,786
Oct-22	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-22	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-22	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-23	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-23	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-23	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-23	0	0	0	0	0	0	0	0	0	154.40	33,786
May-23	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-23	0	23,841	49,149	0	0	72,990	0	0	0	154.40	33,786
Jul-23	0	8,559	0	0	0	8,559	0	0	0	154.40	33,786
Aug-23	0	11,948	0	0	0	11,948	0	0	0	154.40	33,786
Sep-23	0	23,387	0	0	0	23,387	0	0	0	154.40	33,786
Oct-23	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-23	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-23	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-24	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-24	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-24	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-24	0	0	0	0	0	0	0	0	0	154.40	33,786
May-24	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-24	0	23,841	49,164	0	0	73,006	0	0	0	154.40	33,786
Jul-24	0	8,559	0	0	0	8,559	0	0	0	154.40	33,786
Aug-24	0	11,948	0	0	0	11,948	0	0	0	154.40	33,786
Sep-24	0	23,387	0	0	0	23,387	0	0	0	154.40	33,786
Oct-24	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-24	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-24	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-25	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-25	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-25	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-25	0	0	0	0	0	0	0	0	0	154.40	33,786

NORTHEAST SECTOR

	INFLOWS			OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m	m3
Date	Lake A49	Rain Runoff	SWE Runoff	Whale Tail Lake (North Basin)	Lake A16 (Mammoth Lake)	Lake C38 (Nemo Lake)	IVR Pit / Whale Tail Lake (North Basin)	Evaporation	Dewatering	Water Level	NE Lake Vol
May-25	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-25	0	23,841	49,149	0	0	72,990	0	0	0	154.40	33,786
Jul-25	0	8,559	0	0	0	8,559	0	0	0	154.40	33,786
Aug-25	0	11,948	0	0	0	11,948	0	0	0	154.40	33,786
Sep-25	0	23,387	0	0	0	23,387	0	0	0	154.40	33,786
Oct-25	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-25	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-25	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-26	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-26	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-26	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-26	0	0	0	0	0	0	0	0	0	154.40	33,786
May-26	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-26	0	23,841	49,149	0	0	0	72,990	0	0	154.40	33,786
Jul-26	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-26	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-26	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-26	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-26	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-26	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-27	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-27	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-27	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-27	0	0	0	0	0	0	0	0	0	154.40	33,786
May-27	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-27	0	23,841	49,149	0	0	0	72,990	0	0	154.40	33,786
Jul-27	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-27	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-27	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-27	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-27	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-27	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-28	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-28	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-28	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-28	0	0	0	0	0	0	0	0	0	154.40	33,786
May-28	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-28	0	23,841	49,164	0	0	0	73,006	0	0	154.40	33,786
Jul-28	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-28	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-28	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-28	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-28	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-28	0	0	0	0	0	0	0	0	0	154.40	33,786

NORTHEAST SECTOR

	INFLOWS			OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m	m3
Date	Lake A49	Rain Runoff	SWE Runoff	Whale Tail Lake (North Basin)	Lake A16 (Mammoth Lake)	Lake C38 (Nemo Lake)	IVR Pit / Whale Tail Lake (North Basin)	Evaporation	Dewatering	Water Level	NE Lake Vol
Jan-29	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-29	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-29	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-29	0	0	0	0	0	0	0	0	0	154.40	33,786
May-29	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-29	0	23,841	49,149	0	0	0	72,990	0	0	154.40	33,786
Jul-29	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-29	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-29	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-29	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-29	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-29	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-30	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-30	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-30	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-30	0	0	0	0	0	0	0	0	0	154.40	33,786
May-30	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-30	0	23,841	49,149	0	0	0	72,990	0	0	154.40	33,786
Jul-30	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-30	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-30	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-30	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-30	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-30	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-31	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-31	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-31	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-31	0	0	0	0	0	0	0	0	0	154.40	33,786
May-31	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-31	0	23,841	49,149	0	0	0	72,990	0	0	154.40	33,786
Jul-31	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-31	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-31	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-31	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-31	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-31	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-32	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-32	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-32	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-32	0	0	0	0	0	0	0	0	0	154.40	33,786
May-32	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-32	0	23,841	49,164	0	0	0	73,006	0	0	154.40	33,786
Jul-32	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-32	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786

NORTHEAST SECTOR

	INFLOWS			OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m	m3
Date	Lake A49	Rain Runoff	SWE Runoff	Whale Tail Lake (North Basin)	Lake A16 (Mammoth Lake)	Lake C38 (Nemo Lake)	IVR Pit / Whale Tail Lake (North Basin)	Evaporation	Dewatering	Water Level	NE Lake Vol
Sep-32	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-32	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-32	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-32	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-33	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-33	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-33	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-33	0	0	0	0	0	0	0	0	0	154.40	33,786
May-33	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-33	0	23,841	49,149	0	0	0	72,990	0	0	154.40	33,786
Jul-33	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-33	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-33	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-33	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-33	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-33	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-34	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-34	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-34	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-34	0	0	0	0	0	0	0	0	0	154.40	33,786
May-34	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-34	0	23,841	49,149	0	0	0	72,990	0	0	154.40	33,786
Jul-34	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-34	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-34	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-34	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-34	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-34	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-35	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-35	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-35	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-35	0	0	0	0	0	0	0	0	0	154.40	33,786
May-35	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-35	0	23,841	49,149	0	0	0	72,990	0	0	154.40	33,786
Jul-35	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-35	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-35	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-35	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-35	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-35	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-36	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-36	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-36	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-36	0	0	0	0	0	0	0	0	0	154.40	33,786

NORTHEAST SECTOR

	INFLOWS			OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m	m3
Date	Lake A49	Rain Runoff	SWE Runoff	Whale Tail Lake (North Basin)	Lake A16 (Mammoth Lake)	Lake C38 (Nemo Lake)	IVR Pit / Whale Tail Lake (North Basin)	Evaporation	Dewatering	Water Level	NE Lake Vol
May-36	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-36	0	23,841	49,164	0	0	0	73,006	0	0	154.40	33,786
Jul-36	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-36	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-36	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-36	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-36	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-36	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-37	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-37	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-37	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-37	0	0	0	0	0	0	0	0	0	154.40	33,786
May-37	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-37	0	23,841	49,149	0	0	0	72,990	0	0	154.40	33,786
Jul-37	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-37	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-37	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-37	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-37	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-37	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-38	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-38	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-38	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-38	0	0	0	0	0	0	0	0	0	154.40	33,786
May-38	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-38	0	23,841	49,149	0	0	0	72,990	0	0	154.40	33,786
Jul-38	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-38	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-38	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-38	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-38	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-38	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-39	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-39	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-39	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-39	0	0	0	0	0	0	0	0	0	154.40	33,786
May-39	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-39	0	23,841	49,149	0	0	0	72,990	0	0	154.40	33,786
Jul-39	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-39	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-39	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-39	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-39	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-39	0	0	0	0	0	0	0	0	0	154.40	33,786

NORTHEAST SECTOR

	INFLOWS			OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m	m3
Date	Lake A49	Rain Runoff	SWE Runoff	Whale Tail Lake (North Basin)	Lake A16 (Mammoth Lake)	Lake C38 (Nemo Lake)	IVR Pit / Whale Tail Lake (North Basin)	Evaporation	Dewatering	Water Level	NE Lake Vol
Jan-40	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-40	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-40	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-40	0	0	0	0	0	0	0	0	0	154.40	33,786
May-40	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-40	0	23,841	49,164	0	0	0	73,006	0	0	154.40	33,786
Jul-40	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-40	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-40	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-40	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-40	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-40	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-41	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-41	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-41	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-41	0	0	0	0	0	0	0	0	0	154.40	33,786
May-41	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-41	0	23,841	49,149	0	0	0	72,990	0	0	154.40	33,786
Jul-41	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-41	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-41	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-41	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-41	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-41	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-42	0	0	0	0	0	0	0	0	0	154.40	33,786
Feb-42	0	0	0	0	0	0	0	0	0	154.40	33,786
Mar-42	0	0	0	0	0	0	0	0	0	154.40	33,786
Apr-42	0	0	0	0	0	0	0	0	0	154.40	33,786
May-42	0	0	0	0	0	0	0	0	0	154.40	33,786
Jun-42	0	23,841	49,149	0	0	0	72,990	0	0	154.40	33,786
Jul-42	0	8,559	0	0	0	0	8,559	0	0	154.40	33,786
Aug-42	0	11,948	0	0	0	0	11,948	0	0	154.40	33,786
Sep-42	0	23,387	0	0	0	0	23,387	0	0	154.40	33,786
Oct-42	0	0	0	0	0	0	0	0	0	154.40	33,786
Nov-42	0	0	0	0	0	0	0	0	0	154.40	33,786
Dec-42	0	0	0	0	0	0	0	0	0	154.40	33,786
Jan-43	0	0	0	0	0	0	0	0	0	154.4	33785.86
Feb-43	0	0	0	0	0	0	0	0	0	154.4	33785.86
Mar-43	0	0	0	0	0	0	0	0	0	154.4	33785.86
Apr-43	0	0	0	0	0	0	0	0	0	154.4	33785.86
May-43	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jun-43	0	23841.29	49149.12	0	0	0	72990.41	0	0	154.4	33785.86
Jul-43	0	8559.275	0	0	0	0	8559.275	0	0	154.4	33785.86
Aug-43	0	11948.08	0	0	0	0	11948.08	0	0	154.4	33785.86

NORTHEAST SECTOR

	INFLOWS			OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m	m3
Date	Lake A49	Rain Runoff	SWE Runoff	Whale Tail Lake (North Basin)	Lake A16 (Mammoth Lake)	Lake C38 (Nemo Lake)	IVR Pit / Whale Tail Lake (North Basin)	Evaporation	Dewatering	Water Level	NE Lake Vol
Sep-43	0	23387.24	0	0	0	0	23387.24	0	0	154.4	33785.86
Oct-43	0	0	0	0	0	0	0	0	0	154.4	33785.86
Nov-43	0	0	0	0	0	0	0	0	0	154.4	33785.86
Dec-43	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jan-44	0	0	0	0	0	0	0	0	0	154.4	33785.86
Feb-44	0	0	0	0	0	0	0	0	0	154.4	33785.86
Mar-44	0	0	0	0	0	0	0	0	0	154.4	33785.86
Apr-44	0	0	0	0	0	0	0	0	0	154.4	33785.86
May-44	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jun-44	0	23841.29	49164.22	0	0	0	73005.52	0	0	154.4	33785.86
Jul-44	0	8559.275	0	0	0	0	8559.275	0	0	154.4	33785.86
Aug-44	0	11948.08	0	0	0	0	11948.08	0	0	154.4	33785.86
Sep-44	0	23387.24	0	0	0	0	23387.24	0	0	154.4	33785.86
Oct-44	0	0	0	0	0	0	0	0	0	154.4	33785.86
Nov-44	0	0	0	0	0	0	0	0	0	154.4	33785.86
Dec-44	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jan-45	0	0	0	0	0	0	0	0	0	154.4	33785.86
Feb-45	0	0	0	0	0	0	0	0	0	154.4	33785.86
Mar-45	0	0	0	0	0	0	0	0	0	154.4	33785.86
Apr-45	0	0	0	0	0	0	0	0	0	154.4	33785.86
May-45	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jun-45	0	23841.29	49149.12	0	0	0	72990.41	0	0	154.4	33785.86
Jul-45	0	8559.275	0	0	0	0	8559.275	0	0	154.4	33785.86
Aug-45	0	11948.08	0	0	0	0	11948.08	0	0	154.4	33785.86
Sep-45	0	23387.24	0	0	0	0	23387.24	0	0	154.4	33785.86
Oct-45	0	0	0	0	0	0	0	0	0	154.4	33785.86
Nov-45	0	0	0	0	0	0	0	0	0	154.4	33785.86
Dec-45	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jan-46	0	0	0	0	0	0	0	0	0	154.4	33785.86
Feb-46	0	0	0	0	0	0	0	0	0	154.4	33785.86
Mar-46	0	0	0	0	0	0	0	0	0	154.4	33785.86
Apr-46	0	0	0	0	0	0	0	0	0	154.4	33785.86
May-46	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jun-46	0	23841.29	49149.12	0	0	0	72990.41	0	0	154.4	33785.86
Jul-46	0	8559.275	0	0	0	0	8559.275	0	0	154.4	33785.86
Aug-46	0	11948.08	0	0	0	0	11948.08	0	0	154.4	33785.86
Sep-46	0	23387.24	0	0	0	0	23387.24	0	0	154.4	33785.86
Oct-46	0	0	0	0	0	0	0	0	0	154.4	33785.86
Nov-46	0	0	0	0	0	0	0	0	0	154.4	33785.86
Dec-46	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jan-47	0	0	0	0	0	0	0	0	0	154.4	33785.86
Feb-47	0	0	0	0	0	0	0	0	0	154.4	33785.86
Mar-47	0	0	0	0	0	0	0	0	0	154.4	33785.86
Apr-47	0	0	0	0	0	0	0	0	0	154.4	33785.86

NORTHEAST SECTOR

	INFLOWS			OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m	m3
Date	Lake A49	Rain Runoff	SWE Runoff	Whale Tail Lake (North Basin)	Lake A16 (Mammoth Lake)	Lake C38 (Nemo Lake)	IVR Pit / Whale Tail Lake (North Basin)	Evaporation	Dewatering	Water Level	NE Lake Vol
May-47	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jun-47	0	23841.29	49149.12	0	0	0	72990.41	0	0	154.4	33785.86
Jul-47	0	8559.275	0	0	0	0	8559.275	0	0	154.4	33785.86
Aug-47	0	11948.08	0	0	0	0	11948.08	0	0	154.4	33785.86
Sep-47	0	23387.24	0	0	0	0	23387.24	0	0	154.4	33785.86
Oct-47	0	0	0	0	0	0	0	0	0	154.4	33785.86
Nov-47	0	0	0	0	0	0	0	0	0	154.4	33785.86
Dec-47	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jan-48	0	0	0	0	0	0	0	0	0	154.4	33785.86
Feb-48	0	0	0	0	0	0	0	0	0	154.4	33785.86
Mar-48	0	0	0	0	0	0	0	0	0	154.4	33785.86
Apr-48	0	0	0	0	0	0	0	0	0	154.4	33785.86
May-48	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jun-48	0	23841.29	49164.22	0	0	0	73005.52	0	0	154.4	33785.86
Jul-48	0	8559.275	0	0	0	0	8559.275	0	0	154.4	33785.86
Aug-48	0	11948.08	0	0	0	0	11948.08	0	0	154.4	33785.86
Sep-48	0	23387.24	0	0	0	0	23387.24	0	0	154.4	33785.86
Oct-48	0	0	0	0	0	0	0	0	0	154.4	33785.86
Nov-48	0	0	0	0	0	0	0	0	0	154.4	33785.86
Dec-48	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jan-49	0	0	0	0	0	0	0	0	0	154.4	33785.86
Feb-49	0	0	0	0	0	0	0	0	0	154.4	33785.86
Mar-49	0	0	0	0	0	0	0	0	0	154.4	33785.86
Apr-49	0	0	0	0	0	0	0	0	0	154.4	33785.86
May-49	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jun-49	0	23841.29	49149.12	0	0	0	72990.41	0	0	154.4	33785.86
Jul-49	0	8559.275	0	0	0	0	8559.275	0	0	154.4	33785.86
Aug-49	0	11948.08	0	0	0	0	11948.08	0	0	154.4	33785.86
Sep-49	0	23387.24	0	0	0	0	23387.24	0	0	154.4	33785.86
Oct-49	0	0	0	0	0	0	0	0	0	154.4	33785.86
Nov-49	0	0	0	0	0	0	0	0	0	154.4	33785.86
Dec-49	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jan-50	0	0	0	0	0	0	0	0	0	154.4	33785.86
Feb-50	0	0	0	0	0	0	0	0	0	154.4	33785.86
Mar-50	0	0	0	0	0	0	0	0	0	154.4	33785.86
Apr-50	0	0	0	0	0	0	0	0	0	154.4	33785.86
May-50	0	0	0	0	0	0	0	0	0	154.4	33785.86
Jun-50	0	23841.29	49149.12	0	0	0	72990.41	0	0	154.4	33785.86
Jul-50	0	8559.275	0	0	0	0	8559.275	0	0	154.4	33785.86
Aug-50	0	11948.08	0	0	0	0	11948.08	0	0	154.4	33785.86
Sep-50	0	23387.24	0	0	0	0	23387.24	0	0	154.4	33785.86
Oct-50	0	0	0	0	0	0	0	0	0	154.4	33785.86
Nov-50	0	0	0	0	0	0	0	0	0	154.4	33785.86
Dec-50	0	0	0	0	0	0	0	0	0	154.4	33785.86

WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM

	INFLOWS							OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon		m3/mon		m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Precipitation	Whale Tail WRSF Runoff	Submarginal Runoff	Whale Tail WRSF Seepage	Submarginal Seepage	Overflow from WT ATT Pond	Evaporation	Lake A16 (Mammoth Lake)	Quarry 1	Whale Tail Attenuation Pond	IVR Attenuation Pond	IVR Pit	Volume	Water Level
Jan-18	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-18	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-18	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-18	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-18	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-18	111,270	0	56	0	0	0	0	0	111,326	0	0	0	0	1	154.0
Jul-18	12,934	0	5	0	0	0	0	0	0	12,939	0	0	0	1	154.0
Aug-18	17,894	0	6	0	0	0	0	0	0	17,900	0	0	0	1	154.0
Sep-18	34,715	0	2	0	0	0	0	0	0	34,717	0	0	0	1	154.0
Oct-18	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-18	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-18	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-19	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-19	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-19	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-19	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-19	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-19	85,817	1	316	12	0	0	0	0	0	15,218	70,929	0	0	1	154.0
Jul-19	9,653	0	25	1	0	0	0	1	0	0	9,678	0	0	1	154.0
Aug-19	12,891	1	28	1	0	0	0	1	0	0	12,919	0	0	1	154.0
Sep-19	24,108	0	10	0	0	0	0	0	0	0	24,119	0	0	1	154.0
Oct-19	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-19	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-19	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-20	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-20	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-20	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-20	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-20	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-20	46,630	1	712	35	0	0	0	0	0	0	47,379	0	0	1	154.0
Jul-20	5,117	0	54	3	0	0	0	1	0	0	5,173	0	0	1	154.0
Aug-20	6,647	1	56	3	0	0	0	1	0	0	6,705	0	0	1	154.0
Sep-20	12,055	0	19	1	0	0	0	0	0	0	12,074	0	0	1	154.0
Oct-20	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-20	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-20	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-21	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-21	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-21	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-21	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-21	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0

WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM

	INFLOWS							OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon		m3/mon		m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Precipitation	Whale Tail WRSF Runoff	Submarginal Runoff	Whale Tail WRSF Seepage	Submarginal Seepage	Overflow from WT ATT Pond	Evaporation	Lake A16 (Mammoth Lake)	Quarry 1	Whale Tail Attenuation Pond	IVR Attenuation Pond	IVR Pit	Volume	Water Level
Jun-21	25,896	1	915	54	0	0	0	0	0	0	26,866	0	0	1	154.0
Jul-21	3,008	0	66	4	0	0	0	1	0	0	3,078	0	0	1	154.0
Aug-21	4,159	1	66	4	0	0	0	1	0	0	4,229	0	0	1	154.0
Sep-21	8,065	0	21	1	0	0	0	0	0	0	8,087	0	0	1	154.0
Oct-21	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-21	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-21	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-22	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-22	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-22	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-22	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-22	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-22	24,329	1	915	71	0	0	0	0.09	0	0	0	25,316	0	1	154.0
Jul-22	2,853	0	66	5	0	0	0	1.04	0	0	0	2,923	0	1	154.0
Aug-22	3,983	1	66	5	0	0	0	1.05	0	0	0	4,053	0	1	154.0
Sep-22	7,795	0	21	2	0	0	0	0.41	0	0	0	7,818	0	1	154.0
Oct-22	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-22	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-22	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-23	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-23	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-23	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-23	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-23	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-23	24,329	1	906	80	0	0	0	0	0	0	0	25,316	0	1	154.0
Jul-23	2,853	0	65	6	0	0	0	1	0	0	0	2,923	0	1	154.0
Aug-23	3,983	1	65	6	0	0	0	1	0	0	0	4,053	0	1	154.0
Sep-23	7,795	0	21	2	0	0	0	0	0	0	0	7,818	0	1	154.0
Oct-23	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-23	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-23	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-24	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-24	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-24	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-24	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-24	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-24	24,334	1	898	88	0	0	0	0	0	0	0	25,321	0	1	154.0
Jul-24	2,853	0	65	6	0	0	0	1	0	0	0	2,923	0	1	154.0
Aug-24	3,983	1	65	6	0	0	0	1	0	0	0	4,053	0	1	154.0
Sep-24	7,795	0	21	2	0	0	0	0	0	0	0	7,818	0	1	154.0
Oct-24	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0

WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM

	INFLOWS							OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon		m3/mon		m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Precipitation	Whale Tail WRSF Runoff	Submarginal Runoff	Whale Tail WRSF Seepage	Submarginal Seepage	Overflow from WT ATT Pond	Evaporation	Lake A16 (Mammoth Lake)	Quarry 1	Whale Tail Attenuation Pond	IVR Attenuation Pond	IVR Pit	Volume	Water Level
Nov-24	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-24	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-25	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-25	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-25	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-25	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-25	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-25	24,329	1	887	99	0	0	0	0	0	0	0	25,316	0	1	154.0
Jul-25	2,853	0	64	7	0	0	0	1	0	0	0	2,923	0	1	154.0
Aug-25	3,983	1	64	7	0	0	0	1	0	0	0	4,053	0	1	154.0
Sep-25	7,795	0	21	2	0	0	0	0	0	0	0	7,818	0	1	154.0
Oct-25	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-25	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-25	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-26	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-26	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-26	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-26	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-26	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-26	24,329	1	928	58	0	0	0	0	0	0	0	0	25,316	1	154.0
Jul-26	2,853	0	68	4	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-26	3,983	1	68	3	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-26	7,795	0	22	1	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-26	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-26	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-26	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-27	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-27	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-27	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-27	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-27	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-27	24,329	1	986	0	0	0	0	0	0	0	0	0	25,316	1	154.0
Jul-27	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-27	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-27	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-27	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-27	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-27	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-28	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-28	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-28	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0

WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM

	INFLOWS							OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon		m3/mon		m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Precipitation	Whale Tail WRSF Runoff	Submarginal Runoff	Whale Tail WRSF Seepage	Submarginal Seepage	Overflow from WT ATT Pond	Evaporation	Lake A16 (Mammoth Lake)	Quarry 1	Whale Tail Attenuation Pond	IVR Attenuation Pond	IVR Pit	Volume	Water Level
Apr-28	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-28	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-28	24,334	1	986	0	0	0	0	0	0	0	0	0	25,321	1	154.0
Jul-28	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-28	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-28	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-28	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-28	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-28	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-29	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-29	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-29	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-29	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-29	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-29	24,329	1	986	0	0	0	0	0	0	0	0	0	25,316	1	154.0
Jul-29	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-29	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-29	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-29	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-29	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-29	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-30	24,329	1	986	0	0	0	0	0	0	0	0	0	25,316	1	154.0
Jul-30	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-30	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-30	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-31	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-31	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-31	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-31	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-31	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-31	24,329	1	986	0	0	0	0	0	0	0	0	0	25,316	1	154.0
Jul-31	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-31	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0

WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM

	INFLOWS							OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon		m3/mon		m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Precipitation	Whale Tail WRSF Runoff	Submarginal Runoff	Whale Tail WRSF Seepage	Submarginal Seepage	Overflow from WT ATT Pond	Evaporation	Lake A16 (Mammoth Lake)	Quarry 1	Whale Tail Attenuation Pond	IVR Attenuation Pond	IVR Pit	Volume	Water Level
Sep-31	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-31	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-31	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-31	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-32	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-32	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-32	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-32	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-32	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-32	24,334	1	986	0	0	0	0	0	0	0	0	0	25,321	1	154.0
Jul-32	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-32	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-32	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-32	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-32	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-32	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-33	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-33	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-33	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-33	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-33	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-33	24,329	1	986	0	0	0	0	0	0	0	0	0	25,316	1	154.0
Jul-33	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-33	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-33	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-33	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-33	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-33	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-34	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-34	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-34	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-34	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-34	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-34	24,329	1	986	0	0	0	0	0	0	0	0	0	25,316	1	154.0
Jul-34	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-34	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-34	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-34	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-34	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-34	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-35	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0

WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM

	INFLOWS							OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon		m3/mon		m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Precipitation	Whale Tail WRSF Runoff	Submarginal Runoff	Whale Tail WRSF Seepage	Submarginal Seepage	Overflow from WT ATT Pond	Evaporation	Lake A16 (Mammoth Lake)	Quarry 1	Whale Tail Attenuation Pond	IVR Attenuation Pond	IVR Pit	Volume	Water Level
Feb-35	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-35	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-35	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-35	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-35	24,329	1	986	0	0	0	0	0	0	0	0	0	25,316	1	154.0
Jul-35	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-35	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-35	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-35	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-35	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-35	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-36	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-36	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-36	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-36	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-36	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-36	24,334	1	986	0	0	0	0	0	0	0	0	0	25,321	1	154.0
Jul-36	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-36	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-36	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-36	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-36	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-36	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-37	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-37	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-37	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-37	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-37	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-37	24,329	1	986	0	0	0	0	0	0	0	0	0	25,316	1	154.0
Jul-37	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-37	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-37	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-37	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-37	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-37	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-38	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-38	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-38	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-38	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-38	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-38	24,329	1	986	0	0	0	0	0	0	0	0	0	25,316	1	154.0

WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM

	INFLOWS							OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon		m3/mon		m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Precipitation	Whale Tail WRSF Runoff	Submarginal Runoff	Whale Tail WRSF Seepage	Submarginal Seepage	Overflow from WT ATT Pond	Evaporation	Lake A16 (Mammoth Lake)	Quarry 1	Whale Tail Attenuation Pond	IVR Attenuation Pond	IVR Pit	Volume	Water Level
Jul-38	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-38	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-38	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-38	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-38	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-38	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-39	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-39	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-39	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-39	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-39	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-39	24,329	1	986	0	0	0	0	0	0	0	0	0	25,316	1	154.0
Jul-39	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-39	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-39	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-39	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-39	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-39	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-40	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-40	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-40	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-40	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-40	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-40	24,334	1	986	0	0	0	0	0	0	0	0	0	25,321	1	154.0
Jul-40	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-40	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-40	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-40	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-40	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-40	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-41	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-41	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-41	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-41	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-41	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-41	24,329	1	986	0	0	0	0	0	0	0	0	0	25,316	1	154.0
Jul-41	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-41	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-41	7,795	0	23	0	0	0	0	0	0	0	0	0	7,818	1	154.0
Oct-41	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-41	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0

WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM

	INFLOWS							OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon		m3/mon		m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Precipitation	Whale Tail WRSF Runoff	Submarginal Runoff	Whale Tail WRSF Seepage	Submarginal Seepage	Overflow from WT ATT Pond	Evaporation	Lake A16 (Mammoth Lake)	Quarry 1	Whale Tail Attenuation Pond	IVR Attenuation Pond	IVR Pit	Volume	Water Level
Dec-41	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-42	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Feb-42	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Mar-42	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Apr-42	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
May-42	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jun-42	24,329	1	986	0	0	0	0	0	0	0	0	0	25,316	1	154.0
Jul-42	2,853	0	71	0	0	0	0	1	0	0	0	0	2,923	1	154.0
Aug-42	3,983	1	71	0	0	0	0	1	0	0	0	0	4,053	1	154.0
Sep-42	7,795	0	23	0	0	0	0	0	6,972	0	0	0	847	1	154.0
Oct-42	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Nov-42	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Dec-42	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154.0
Jan-43	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Feb-43	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Mar-43	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Apr-43	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
May-43	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Jun-43	24329.03	1.134426	985.7013	0	0	0	0	0.09175947	25315.78	0	0	0	0	1	154
Jul-43	2852.962	0.4665736	71.06219	0	0	0	0	1.042999	2923.448	0	0	0	0	1	154
Aug-43	3982.514	0.5178228	71.06219	0	0	0	0	1.053535	4053.041	0	0	0	0	1	154
Sep-43	7795.393	0.4862283	22.92329	0	0	0	0	0.4078198	7818.394	0	0	0	0	1	154
Oct-43	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Nov-43	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Dec-43	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Jan-44	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Feb-44	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Mar-44	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Apr-44	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
May-44	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Jun-44	24334.07	1.134654	985.7013	0	0	0	0	0.09175947	25320.81	0	0	0	0	1	154
Jul-44	2852.962	0.4665736	71.06219	0	0	0	0	1.042999	2923.448	0	0	0	0	1	154
Aug-44	3982.514	0.5178228	71.06219	0	0	0	0	1.053535	4053.041	0	0	0	0	1	154
Sep-44	7795.393	0.4862283	22.92329	0	0	0	0	0.4078198	7818.394	0	0	0	0	1	154
Oct-44	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Nov-44	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Dec-44	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Jan-45	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Feb-45	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Mar-45	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Apr-45	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154

WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM

	INFLOWS							OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon		m3/mon		m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Precipitation	Whale Tail WRSF Runoff	Submarginal Runoff	Whale Tail WRSF Seepage	Submarginal Seepage	Overflow from WT ATT Pond	Evaporation	Lake A16 (Mammoth Lake)	Quarry 1	Whale Tail Attenuation Pond	IVR Attenuation Pond	IVR Pit	Volume	Water Level
May-45	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Jun-45	24329.03	1.134426	985.7013	0	0	0	0	0.09175947	25315.78	0	0	0	0	1	154
Jul-45	2852.962	0.4665736	71.06219	0	0	0	0	1.042999	2923.448	0	0	0	0	1	154
Aug-45	3982.514	0.5178228	71.06219	0	0	0	0	1.053535	4053.041	0	0	0	0	1	154
Sep-45	7795.393	0.4862283	22.92329	0	0	0	0	0.4078198	7818.394	0	0	0	0	1	154
Oct-45	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Nov-45	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Dec-45	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Jan-46	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Feb-46	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Mar-46	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Apr-46	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
May-46	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Jun-46	24329.03	1.134426	985.7013	0	0	0	0	0.09175947	25315.78	0	0	0	0	1	154
Jul-46	2852.962	0.4665736	71.06219	0	0	0	0	1.042999	2923.448	0	0	0	0	1	154
Aug-46	3982.514	0.5178228	71.06219	0	0	0	0	1.053535	4053.041	0	0	0	0	1	154
Sep-46	7795.393	0.4862283	22.92329	0	0	0	0	0.4078198	7818.394	0	0	0	0	1	154
Oct-46	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Nov-46	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Dec-46	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Jan-47	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Feb-47	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Mar-47	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Apr-47	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
May-47	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Jun-47	24329.03	1.134426	985.7013	0	0	0	0	0.09175947	25315.78	0	0	0	0	1	154
Jul-47	2852.962	0.4665736	71.06219	0	0	0	0	1.042999	2923.448	0	0	0	0	1	154
Aug-47	3982.514	0.5178228	71.06219	0	0	0	0	1.053535	4053.041	0	0	0	0	1	154
Sep-47	7795.393	0.4862283	22.92329	0	0	0	0	0.4078198	7818.394	0	0	0	0	1	154
Oct-47	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Nov-47	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Dec-47	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Jan-48	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Feb-48	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Mar-48	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Apr-48	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
May-48	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Jun-48	24334.07	1.134654	985.7013	0	0	0	0	0.09175947	25320.81	0	0	0	0	1	154
Jul-48	2852.962	0.4665736	71.06219	0	0	0	0	1.042999	2923.448	0	0	0	0	1	154
Aug-48	3982.514	0.5178228	71.06219	0	0	0	0	1.053535	4053.041	0	0	0	0	1	154
Sep-48	7795.393	0.4862283	22.92329	0	0	0	0	0.4078198	7818.394	0	0	0	0	1	154

WHALE TAIL WASTE ROCK STORAGE FACILITY CONTACT WATER COLLECTION SYSTEM

	INFLOWS							OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon		m3/mon		m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Precipitation	Whale Tail WRSF Runoff	Submarginal Runoff	Whale Tail WRSF Seepage	Submarginal Seepage	Overflow from WT ATT Pond	Evaporation	Lake A16 (Mammoth Lake)	Quarry 1	Whale Tail Attenuation Pond	IVR Attenuation Pond	IVR Pit	Volume	Water Level
Oct-48	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Nov-48	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Dec-48	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Jan-49	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Feb-49	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Mar-49	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Apr-49	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
May-49	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Jun-49	24329.03	1.134426	985.7013	0	0	0	0	0.09175947	25315.78	0	0	0	0	1	154
Jul-49	2852.962	0.4665736	71.06219	0	0	0	0	1.042999	2923.448	0	0	0	0	1	154
Aug-49	3982.514	0.5178228	71.06219	0	0	0	0	1.053535	4053.041	0	0	0	0	1	154
Sep-49	7795.393	0.4862283	22.92329	0	0	0	0	0.4078198	7818.394	0	0	0	0	1	154
Oct-49	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Nov-49	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Dec-49	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Jan-50	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Feb-50	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Mar-50	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Apr-50	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
May-50	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Jun-50	24329.03	1.134426	985.7013	0	0	0	0	0.09175947	25315.78	0	0	0	0	1	154
Jul-50	2852.962	0.4665736	71.06219	0	0	0	0	1.042999	2923.448	0	0	0	0	1	154
Aug-50	3982.514	0.5178228	71.06219	0	0	0	0	1.053535	4053.041	0	0	0	0	1	154
Sep-50	7795.393	0.4862283	22.92329	0	0	0	0	0.4078198	7818.394	0	0	0	0	1	154
Oct-50	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Nov-50	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154
Dec-50	0	0	0	0	0	0	0	0	0	0	0	0	0	1	154

NORTH SECTOR

	INFLOWS					OUTFLOWS				STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Natural Rainfall Runoff	Natural SWE Runoff	Whale Tail WRSF Runoff	Whale Tail WRSF Seepage	Ore 4 Runoff	Evaporation	Whale Tail (North Basin) / Whale Tail Attenuation Pond	WT Pit	IVR Attenuation Pond	Storage
Jan-18	0	0	0	0	0	0	0	0	0	0
Feb-18	0	0	0	0	0	0	0	0	0	0
Mar-18	0	0	0	0	0	0	0	0	0	0
Apr-18	0	0	0	0	0	0	0	0	0	0
May-18	0	0	0	0	0	0	0	0	0	0
Jun-18	8,453	17,425	0	0	0	0	25,877	0	0	1
Jul-18	3,035	0	0	0	0	0	3,035	0	0	1
Aug-18	4,236	0	0	0	0	0	4,236	0	0	1
Sep-18	8,292	0	0	0	0	0	8,292	0	0	1
Oct-18	0	0	0	0	0	0	0	0	0	1
Nov-18	0	0	0	0	0	0	0	0	0	1
Dec-18	0	0	0	0	0	0	0	0	0	1
Jan-19	0	0	0	0	0	0	0	0	0	1
Feb-19	0	0	0	0	0	0	0	0	0	1
Mar-19	0	0	0	0	0	0	0	0	0	1
Apr-19	0	0	0	0	0	0	0	0	0	1
May-19	0	0	0	0	0	0	0	0	0	1
Jun-19	8,453	17,425	0	0	0	0	25,877	0	0	1
Jul-19	3,035	0	0	0	0	0	3,035	0	0	1
Aug-19	4,236	0	0	0	0	0	4,236	0	0	1
Sep-19	8,292	0	0	0	0	0	8,292	0	0	1
Oct-19	0	0	0	0	0	0	0	0	0	1
Nov-19	0	0	0	0	0	0	0	0	0	1
Dec-19	0	0	0	0	0	0	0	0	0	1
Jan-20	0	0	0	0	0	0	0	0	0	1
Feb-20	0	0	0	0	0	0	0	0	0	1
Mar-20	0	0	0	0	0	0	0	0	0	1
Apr-20	0	0	0	0	0	0	0	0	0	1
May-20	0	0	0	0	0	0	0	0	0	1
Jun-20	8,453	17,430	0	0	0	0	25,883	0	0	1
Jul-20	3,035	0	0	0	0	0	3,035	0	0	1
Aug-20	4,236	0	0	0	0	0	4,236	0	0	1
Sep-20	8,292	0	0	0	0	0	8,292	0	0	1
Oct-20	0	0	0	0	0	0	0	0	0	1
Nov-20	0	0	0	0	0	0	0	0	0	1
Dec-20	0	0	0	0	0	0	0	0	0	1
Jan-21	0	0	0	0	0	0	0	0	0	1
Feb-21	0	0	0	0	0	0	0	0	0	1

NORTH SECTOR

	INFLOWS					OUTFLOWS				STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Natural Rainfall Runoff	Natural SWE Runoff	Whale Tail WRSF Runoff	Whale Tail WRSF Seepage	Ore 4 Runoff	Evaporation	Whale Tail (North Basin) / Whale Tail Attenuation Pond	WT Pit	IVR Attenuation Pond	Storage
Mar-21	0	0	0	0	0	0	0	0	0	1
Apr-21	0	0	0	0	0	0	0	0	0	1
May-21	0	0	0	0	0	0	0	0	0	1
Jun-21	5,544	11,429	95	0	0	0	17,069	0	0	1
Jul-21	1,799	0	8	0	0	0	1,807	0	0	1
Aug-21	2,240	0	9	0	0	0	2,249	0	0	1
Sep-21	3,862	0	3	0	0	0	3,865	0	0	1
Oct-21	0	0	0	0	0	0	0	0	0	1
Nov-21	0	0	0	0	0	0	0	0	0	1
Dec-21	0	0	0	0	0	0	0	0	0	1
Jan-22	0	0	0	0	0	0	0	0	0	1
Feb-22	0	0	0	0	0	0	0	0	0	1
Mar-22	0	0	0	0	0	0	0	0	0	1
Apr-22	0	0	0	0	0	0	0	0	0	1
May-22	0	0	0	0	0	0	0	0	0	1
Jun-22	2,077	4,283	209	0	0	0	0	0	6,569	1
Jul-22	746	0	15	0	0	0	0	0	761	1
Aug-22	1,041	0	15	0	0	0	0	0	1,056	1
Sep-22	2,038	0	5	0	0	0	0	0	2,043	1
Oct-22	0	0	0	0	0	0	0	0	0	1
Nov-22	0	0	0	0	0	0	0	0	0	1
Dec-22	0	0	0	0	0	0	0	0	0	1
Jan-23	0	0	0	0	0	0	0	0	0	1
Feb-23	0	0	0	0	0	0	0	0	0	1
Mar-23	0	0	0	0	0	0	0	0	0	1
Apr-23	0	0	0	0	0	0	0	0	0	1
May-23	0	0	0	0	0	0	0	0	0	1
Jun-23	2,077	4,283	209	0	0	0	0	0	6,569	1
Jul-23	746	0	15	0	0	0	0	0	761	1
Aug-23	1,041	0	15	0	0	0	0	0	1,056	1
Sep-23	2,038	0	5	0	0	0	0	0	2,043	1
Oct-23	0	0	0	0	0	0	0	0	0	1
Nov-23	0	0	0	0	0	0	0	0	0	1
Dec-23	0	0	0	0	0	0	0	0	0	1
Jan-24	0	0	0	0	0	0	0	0	0	1
Feb-24	0	0	0	0	0	0	0	0	0	1
Mar-24	0	0	0	0	0	0	0	0	0	1
Apr-24	0	0	0	0	0	0	0	0	0	1

NORTH SECTOR

	INFLOWS					OUTFLOWS				STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Natural Rainfall Runoff	Natural SWE Runoff	Whale Tail WRSF Runoff	Whale Tail WRSF Seepage	Ore 4 Runoff	Evaporation	Whale Tail (North Basin) / Whale Tail Attenuation Pond	WT Pit	IVR Attenuation Pond	Storage
May-24	0	0	0	0	0	0	0	0	0	1
Jun-24	2,077	4,284	209	0	0	0	0	0	6,570	1
Jul-24	746	0	15	0	0	0	0	0	761	1
Aug-24	1,041	0	15	0	0	0	0	0	1,056	1
Sep-24	2,038	0	5	0	0	0	0	0	2,043	1
Oct-24	0	0	0	0	0	0	0	0	0	1
Nov-24	0	0	0	0	0	0	0	0	0	1
Dec-24	0	0	0	0	0	0	0	0	0	1
Jan-25	0	0	0	0	0	0	0	0	0	1
Feb-25	0	0	0	0	0	0	0	0	0	1
Mar-25	0	0	0	0	0	0	0	0	0	1
Apr-25	0	0	0	0	0	0	0	0	0	1
May-25	0	0	0	0	0	0	0	0	0	1
Jun-25	2,077	4,283	209	0	0	0	0	0	6,569	1
Jul-25	746	0	15	0	0	0	0	0	761	1
Aug-25	1,041	0	15	0	0	0	0	0	1,056	1
Sep-25	2,038	0	5	0	0	0	0	0	2,043	1
Oct-25	0	0	0	0	0	0	0	0	0	1
Nov-25	0	0	0	0	0	0	0	0	0	1
Dec-25	0	0	0	0	0	0	0	0	0	1
Jan-26	0	0	0	0	0	0	0	0	0	1
Feb-26	0	0	0	0	0	0	0	0	0	1
Mar-26	0	0	0	0	0	0	0	0	0	1
Apr-26	0	0	0	0	0	0	0	0	0	1
May-26	0	0	0	0	0	0	0	0	0	1
Jun-26	2,077	4,283	209	0	0	0	0	6,569	0	1
Jul-26	746	0	15	0	0	0	0	761	0	1
Aug-26	1,041	0	15	0	0	0	0	1,056	0	1
Sep-26	2,038	0	5	0	0	0	0	2,043	0	1
Oct-26	0	0	0	0	0	0	0	0	0	1
Nov-26	0	0	0	0	0	0	0	0	0	1
Dec-26	0	0	0	0	0	0	0	0	0	1
Jan-27	0	0	0	0	0	0	0	0	0	1
Feb-27	0	0	0	0	0	0	0	0	0	1
Mar-27	0	0	0	0	0	0	0	0	0	1
Apr-27	0	0	0	0	0	0	0	0	0	1
May-27	0	0	0	0	0	0	0	0	0	1
Jun-27	2,077	4,283	209	0	0	0	0	6,569	0	1

NORTH SECTOR

	INFLOWS					OUTFLOWS				STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Natural Rainfall Runoff	Natural SWE Runoff	Whale Tail WRSF Runoff	Whale Tail WRSF Seepage	Ore 4 Runoff	Evaporation	Whale Tail (North Basin) / Whale Tail Attenuation Pond	WT Pit	IVR Attenuation Pond	Storage
Jul-27	746	0	15	0	0	0	0	761	0	1
Aug-27	1,041	0	15	0	0	0	0	1,056	0	1
Sep-27	2,038	0	5	0	0	0	0	2,043	0	1
Oct-27	0	0	0	0	0	0	0	0	0	1
Nov-27	0	0	0	0	0	0	0	0	0	1
Dec-27	0	0	0	0	0	0	0	0	0	1
Jan-28	0	0	0	0	0	0	0	0	0	1
Feb-28	0	0	0	0	0	0	0	0	0	1
Mar-28	0	0	0	0	0	0	0	0	0	1
Apr-28	0	0	0	0	0	0	0	0	0	1
May-28	0	0	0	0	0	0	0	0	0	1
Jun-28	2,077	4,284	209	0	0	0	0	6,570	0	1
Jul-28	746	0	15	0	0	0	0	761	0	1
Aug-28	1,041	0	15	0	0	0	0	1,056	0	1
Sep-28	2,038	0	5	0	0	0	0	2,043	0	1
Oct-28	0	0	0	0	0	0	0	0	0	1
Nov-28	0	0	0	0	0	0	0	0	0	1
Dec-28	0	0	0	0	0	0	0	0	0	1
Jan-29	0	0	0	0	0	0	0	0	0	1
Feb-29	0	0	0	0	0	0	0	0	0	1
Mar-29	0	0	0	0	0	0	0	0	0	1
Apr-29	0	0	0	0	0	0	0	0	0	1
May-29	0	0	0	0	0	0	0	0	0	1
Jun-29	2,077	4,283	209	0	0	0	0	6,569	0	1
Jul-29	746	0	15	0	0	0	0	761	0	1
Aug-29	1,041	0	15	0	0	0	0	1,056	0	1
Sep-29	2,038	0	5	0	0	0	0	2,043	0	1
Oct-29	0	0	0	0	0	0	0	0	0	1
Nov-29	0	0	0	0	0	0	0	0	0	1
Dec-29	0	0	0	0	0	0	0	0	0	1
Jan-30	0	0	0	0	0	0	0	0	0	1
Feb-30	0	0	0	0	0	0	0	0	0	1
Mar-30	0	0	0	0	0	0	0	0	0	1
Apr-30	0	0	0	0	0	0	0	0	0	1
May-30	0	0	0	0	0	0	0	0	0	1
Jun-30	2,077	4,283	209	0	0	0	0	6,569	0	1
Jul-30	746	0	15	0	0	0	0	761	0	1
Aug-30	1,041	0	15	0	0	0	0	1,056	0	1

NORTH SECTOR

	INFLOWS					OUTFLOWS				STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Natural Rainfall Runoff	Natural SWE Runoff	Whale Tail WRSF Runoff	Whale Tail WRSF Seepage	Ore 4 Runoff	Evaporation	Whale Tail (North Basin) / Whale Tail Attenuation Pond	WT Pit	IVR Attenuation Pond	Storage
Sep-30	2,038	0	5	0	0	0	0	2,043	0	1
Oct-30	0	0	0	0	0	0	0	0	0	1
Nov-30	0	0	0	0	0	0	0	0	0	1
Dec-30	0	0	0	0	0	0	0	0	0	1
Jan-31	0	0	0	0	0	0	0	0	0	1
Feb-31	0	0	0	0	0	0	0	0	0	1
Mar-31	0	0	0	0	0	0	0	0	0	1
Apr-31	0	0	0	0	0	0	0	0	0	1
May-31	0	0	0	0	0	0	0	0	0	1
Jun-31	2,077	4,283	209	0	0	0	0	6,569	0	1
Jul-31	746	0	15	0	0	0	0	761	0	1
Aug-31	1,041	0	15	0	0	0	0	1,056	0	1
Sep-31	2,038	0	5	0	0	0	0	2,043	0	1
Oct-31	0	0	0	0	0	0	0	0	0	1
Nov-31	0	0	0	0	0	0	0	0	0	1
Dec-31	0	0	0	0	0	0	0	0	0	1
Jan-32	0	0	0	0	0	0	0	0	0	1
Feb-32	0	0	0	0	0	0	0	0	0	1
Mar-32	0	0	0	0	0	0	0	0	0	1
Apr-32	0	0	0	0	0	0	0	0	0	1
May-32	0	0	0	0	0	0	0	0	0	1
Jun-32	2,077	4,284	209	0	0	0	0	6,570	0	1
Jul-32	746	0	15	0	0	0	0	761	0	1
Aug-32	1,041	0	15	0	0	0	0	1,056	0	1
Sep-32	2,038	0	5	0	0	0	0	2,043	0	1
Oct-32	0	0	0	0	0	0	0	0	0	1
Nov-32	0	0	0	0	0	0	0	0	0	1
Dec-32	0	0	0	0	0	0	0	0	0	1
Jan-33	0	0	0	0	0	0	0	0	0	1
Feb-33	0	0	0	0	0	0	0	0	0	1
Mar-33	0	0	0	0	0	0	0	0	0	1
Apr-33	0	0	0	0	0	0	0	0	0	1
May-33	0	0	0	0	0	0	0	0	0	1
Jun-33	2,077	4,283	209	0	0	0	0	6,569	0	1
Jul-33	746	0	15	0	0	0	0	761	0	1
Aug-33	1,041	0	15	0	0	0	0	1,056	0	1
Sep-33	2,038	0	5	0	0	0	0	2,043	0	1
Oct-33	0	0	0	0	0	0	0	0	0	1

NORTH SECTOR

	INFLOWS					OUTFLOWS				STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Natural Rainfall Runoff	Natural SWE Runoff	Whale Tail WRSF Runoff	Whale Tail WRSF Seepage	Ore 4 Runoff	Evaporation	Whale Tail (North Basin) / Whale Tail Attenuation Pond	WT Pit	IVR Attenuation Pond	Storage
Nov-33	0	0	0	0	0	0	0	0	0	1
Dec-33	0	0	0	0	0	0	0	0	0	1
Jan-34	0	0	0	0	0	0	0	0	0	1
Feb-34	0	0	0	0	0	0	0	0	0	1
Mar-34	0	0	0	0	0	0	0	0	0	1
Apr-34	0	0	0	0	0	0	0	0	0	1
May-34	0	0	0	0	0	0	0	0	0	1
Jun-34	2,077	4,283	209	0	0	0	0	6,569	0	1
Jul-34	746	0	15	0	0	0	0	761	0	1
Aug-34	1,041	0	15	0	0	0	0	1,056	0	1
Sep-34	2,038	0	5	0	0	0	0	2,043	0	1
Oct-34	0	0	0	0	0	0	0	0	0	1
Nov-34	0	0	0	0	0	0	0	0	0	1
Dec-34	0	0	0	0	0	0	0	0	0	1
Jan-35	0	0	0	0	0	0	0	0	0	1
Feb-35	0	0	0	0	0	0	0	0	0	1
Mar-35	0	0	0	0	0	0	0	0	0	1
Apr-35	0	0	0	0	0	0	0	0	0	1
May-35	0	0	0	0	0	0	0	0	0	1
Jun-35	2,077	4,283	209	0	0	0	0	6,569	0	1
Jul-35	746	0	15	0	0	0	0	761	0	1
Aug-35	1,041	0	15	0	0	0	0	1,056	0	1
Sep-35	2,038	0	5	0	0	0	0	2,043	0	1
Oct-35	0	0	0	0	0	0	0	0	0	1
Nov-35	0	0	0	0	0	0	0	0	0	1
Dec-35	0	0	0	0	0	0	0	0	0	1
Jan-36	0	0	0	0	0	0	0	0	0	1
Feb-36	0	0	0	0	0	0	0	0	0	1
Mar-36	0	0	0	0	0	0	0	0	0	1
Apr-36	0	0	0	0	0	0	0	0	0	1
May-36	0	0	0	0	0	0	0	0	0	1
Jun-36	2,077	4,284	209	0	0	0	0	6,570	0	1
Jul-36	746	0	15	0	0	0	0	761	0	1
Aug-36	1,041	0	15	0	0	0	0	1,056	0	1
Sep-36	2,038	0	5	0	0	0	0	2,043	0	1
Oct-36	0	0	0	0	0	0	0	0	0	1
Nov-36	0	0	0	0	0	0	0	0	0	1
Dec-36	0	0	0	0	0	0	0	0	0	1

NORTH SECTOR

	INFLOWS					OUTFLOWS				STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Natural Rainfall Runoff	Natural SWE Runoff	Whale Tail WRSF Runoff	Whale Tail WRSF Seepage	Ore 4 Runoff	Evaporation	Whale Tail (North Basin) / Whale Tail Attenuation Pond	WT Pit	IVR Attenuation Pond	Storage
Jan-37	0	0	0	0	0	0	0	0	0	1
Feb-37	0	0	0	0	0	0	0	0	0	1
Mar-37	0	0	0	0	0	0	0	0	0	1
Apr-37	0	0	0	0	0	0	0	0	0	1
May-37	0	0	0	0	0	0	0	0	0	1
Jun-37	2,077	4,283	209	0	0	0	0	6,569	0	1
Jul-37	746	0	15	0	0	0	0	761	0	1
Aug-37	1,041	0	15	0	0	0	0	1,056	0	1
Sep-37	2,038	0	5	0	0	0	0	2,043	0	1
Oct-37	0	0	0	0	0	0	0	0	0	1
Nov-37	0	0	0	0	0	0	0	0	0	1
Dec-37	0	0	0	0	0	0	0	0	0	1
Jan-38	0	0	0	0	0	0	0	0	0	1
Feb-38	0	0	0	0	0	0	0	0	0	1
Mar-38	0	0	0	0	0	0	0	0	0	1
Apr-38	0	0	0	0	0	0	0	0	0	1
May-38	0	0	0	0	0	0	0	0	0	1
Jun-38	2,077	4,283	209	0	0	0	0	6,569	0	1
Jul-38	746	0	15	0	0	0	0	761	0	1
Aug-38	1,041	0	15	0	0	0	0	1,056	0	1
Sep-38	2,038	0	5	0	0	0	0	2,043	0	1
Oct-38	0	0	0	0	0	0	0	0	0	1
Nov-38	0	0	0	0	0	0	0	0	0	1
Dec-38	0	0	0	0	0	0	0	0	0	1
Jan-39	0	0	0	0	0	0	0	0	0	1
Feb-39	0	0	0	0	0	0	0	0	0	1
Mar-39	0	0	0	0	0	0	0	0	0	1
Apr-39	0	0	0	0	0	0	0	0	0	1
May-39	0	0	0	0	0	0	0	0	0	1
Jun-39	2,077	4,283	209	0	0	0	0	6,569	0	1
Jul-39	746	0	15	0	0	0	0	761	0	1
Aug-39	1,041	0	15	0	0	0	0	1,056	0	1
Sep-39	2,038	0	5	0	0	0	0	2,043	0	1
Oct-39	0	0	0	0	0	0	0	0	0	1
Nov-39	0	0	0	0	0	0	0	0	0	1
Dec-39	0	0	0	0	0	0	0	0	0	1
Jan-40	0	0	0	0	0	0	0	0	0	1
Feb-40	0	0	0	0	0	0	0	0	0	1

NORTH SECTOR

	INFLOWS					OUTFLOWS				STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Natural Rainfall Runoff	Natural SWE Runoff	Whale Tail WRSF Runoff	Whale Tail WRSF Seepage	Ore 4 Runoff	Evaporation	Whale Tail (North Basin) / Whale Tail Attenuation Pond	WT Pit	IVR Attenuation Pond	Storage
Mar-40	0	0	0	0	0	0	0	0	0	1
Apr-40	0	0	0	0	0	0	0	0	0	1
May-40	0	0	0	0	0	0	0	0	0	1
Jun-40	2,077	4,284	209	0	0	0	0	6,570	0	1
Jul-40	746	0	15	0	0	0	0	761	0	1
Aug-40	1,041	0	15	0	0	0	0	1,056	0	1
Sep-40	2,038	0	5	0	0	0	0	2,043	0	1
Oct-40	0	0	0	0	0	0	0	0	0	1
Nov-40	0	0	0	0	0	0	0	0	0	1
Dec-40	0	0	0	0	0	0	0	0	0	1
Jan-41	0	0	0	0	0	0	0	0	0	1
Feb-41	0	0	0	0	0	0	0	0	0	1
Mar-41	0	0	0	0	0	0	0	0	0	1
Apr-41	0	0	0	0	0	0	0	0	0	1
May-41	0	0	0	0	0	0	0	0	0	1
Jun-41	2,077	4,283	209	0	0	0	0	6,569	0	1
Jul-41	746	0	15	0	0	0	0	761	0	1
Aug-41	1,041	0	15	0	0	0	0	1,056	0	1
Sep-41	2,038	0	5	0	0	0	0	2,043	0	1
Oct-41	0	0	0	0	0	0	0	0	0	1
Nov-41	0	0	0	0	0	0	0	0	0	1
Dec-41	0	0	0	0	0	0	0	0	0	1
Jan-42	0	0	0	0	0	0	0	0	0	1
Feb-42	0	0	0	0	0	0	0	0	0	1
Mar-42	0	0	0	0	0	0	0	0	0	1
Apr-42	0	0	0	0	0	0	0	0	0	1
May-42	0	0	0	0	0	0	0	0	0	1
Jun-42	2,077	4,283	209	0	0	0	0	6,569	0	1
Jul-42	746	0	15	0	0	0	0	761	0	1
Aug-42	1,041	0	15	0	0	0	0	1,056	0	1
Sep-42	2,038	0	5	0	0	0	0	2,043	0	1
Oct-42	0	0	0	0	0	0	0	0	0	1
Nov-42	0	0	0	0	0	0	0	0	0	1
Dec-42	0	0	0	0	0	0	0	0	0	1
Jan-43	0	0	0	0	0	0	0	0	0	2
Feb-43	0	0	0	0	0	0	0	0	0	3
Mar-43	0	0	0	0	0	0	0	0	0	4
Apr-43	0	0	0	0	0	0	0	0	0	5

NORTH SECTOR

	INFLOWS					OUTFLOWS				STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Natural Rainfall Runoff	Natural SWE Runoff	Whale Tail WRSF Runoff	Whale Tail WRSF Seepage	Ore 4 Runoff	Evaporation	Whale Tail (North Basin) / Whale Tail Attenuation Pond	WT Pit	IVR Attenuation Pond	Storage
May-43	0	0	0	0	0	0	0	0	0	6
Jun-43	2077.399	4282.584	208.6629	0	0	0	0	6568.646	0	7
Jul-43	745.8082	0	15.04314	0	0	0	0	760.8514	0	8
Aug-43	1041.09	0	15.04314	0	0	0	0	1056.134	0	9
Sep-43	2037.835	0	4.852626	0	0	0	0	2042.688	0	10
Oct-43	0	0	0	0	0	0	0	0	0	11
Nov-43	0	0	0	0	0	0	0	0	0	12
Dec-43	0	0	0	0	0	0	0	0	0	13
Jan-44	0	0	0	0	0	0	0	0	0	14
Feb-44	0	0	0	0	0	0	0	0	0	15
Mar-44	0	0	0	0	0	0	0	0	0	16
Apr-44	0	0	0	0	0	0	0	0	0	17
May-44	0	0	0	0	0	0	0	0	0	18
Jun-44	2077.399	4283.9	208.6629	0	0	0	0	6569.962	0	19
Jul-44	745.8082	0	15.04314	0	0	0	0	760.8514	0	20
Aug-44	1041.09	0	15.04314	0	0	0	0	1056.134	0	21
Sep-44	2037.835	0	4.852626	0	0	0	0	2042.688	0	22
Oct-44	0	0	0	0	0	0	0	0	0	23
Nov-44	0	0	0	0	0	0	0	0	0	24
Dec-44	0	0	0	0	0	0	0	0	0	25
Jan-45	0	0	0	0	0	0	0	0	0	26
Feb-45	0	0	0	0	0	0	0	0	0	27
Mar-45	0	0	0	0	0	0	0	0	0	28
Apr-45	0	0	0	0	0	0	0	0	0	29
May-45	0	0	0	0	0	0	0	0	0	30
Jun-45	2077.399	4282.584	208.6629	0	0	0	0	6568.646	0	31
Jul-45	745.8082	0	15.04314	0	0	0	0	760.8514	0	32
Aug-45	1041.09	0	15.04314	0	0	0	0	1056.134	0	33
Sep-45	2037.835	0	4.852626	0	0	0	0	2042.688	0	34
Oct-45	0	0	0	0	0	0	0	0	0	35
Nov-45	0	0	0	0	0	0	0	0	0	36
Dec-45	0	0	0	0	0	0	0	0	0	37
Jan-46	0	0	0	0	0	0	0	0	0	38
Feb-46	0	0	0	0	0	0	0	0	0	39
Mar-46	0	0	0	0	0	0	0	0	0	40
Apr-46	0	0	0	0	0	0	0	0	0	41
May-46	0	0	0	0	0	0	0	0	0	42
Jun-46	2077.399	4282.584	208.6629	0	0	0	0	6568.646	0	43

NORTH SECTOR

	INFLOWS					OUTFLOWS				STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Natural Rainfall Runoff	Natural SWE Runoff	Whale Tail WRSF Runoff	Whale Tail WRSF Seepage	Ore 4 Runoff	Evaporation	Whale Tail (North Basin) / Whale Tail Attenuation Pond	WT Pit	IVR Attenuation Pond	Storage
Jul-46	745.8082	0	15.04314	0	0	0	0	760.8514	0	44
Aug-46	1041.09	0	15.04314	0	0	0	0	1056.134	0	45
Sep-46	2037.835	0	4.852626	0	0	0	0	2042.688	0	46
Oct-46	0	0	0	0	0	0	0	0	0	47
Nov-46	0	0	0	0	0	0	0	0	0	48
Dec-46	0	0	0	0	0	0	0	0	0	49
Jan-47	0	0	0	0	0	0	0	0	0	50
Feb-47	0	0	0	0	0	0	0	0	0	51
Mar-47	0	0	0	0	0	0	0	0	0	52
Apr-47	0	0	0	0	0	0	0	0	0	53
May-47	0	0	0	0	0	0	0	0	0	54
Jun-47	2077.399	4282.584	208.6629	0	0	0	0	6568.646	0	55
Jul-47	745.8082	0	15.04314	0	0	0	0	760.8514	0	56
Aug-47	1041.09	0	15.04314	0	0	0	0	1056.134	0	57
Sep-47	2037.835	0	4.852626	0	0	0	0	2042.688	0	58
Oct-47	0	0	0	0	0	0	0	0	0	59
Nov-47	0	0	0	0	0	0	0	0	0	60
Dec-47	0	0	0	0	0	0	0	0	0	61
Jan-48	0	0	0	0	0	0	0	0	0	62
Feb-48	0	0	0	0	0	0	0	0	0	63
Mar-48	0	0	0	0	0	0	0	0	0	64
Apr-48	0	0	0	0	0	0	0	0	0	65
May-48	0	0	0	0	0	0	0	0	0	66
Jun-48	2077.399	4283.9	208.6629	0	0	0	0	6569.962	0	67
Jul-48	745.8082	0	15.04314	0	0	0	0	760.8514	0	68
Aug-48	1041.09	0	15.04314	0	0	0	0	1056.134	0	69
Sep-48	2037.835	0	4.852626	0	0	0	0	2042.688	0	70
Oct-48	0	0	0	0	0	0	0	0	0	71
Nov-48	0	0	0	0	0	0	0	0	0	72
Dec-48	0	0	0	0	0	0	0	0	0	73
Jan-49	0	0	0	0	0	0	0	0	0	74
Feb-49	0	0	0	0	0	0	0	0	0	75
Mar-49	0	0	0	0	0	0	0	0	0	76
Apr-49	0	0	0	0	0	0	0	0	0	77
May-49	0	0	0	0	0	0	0	0	0	78
Jun-49	2077.399	4282.584	208.6629	0	0	0	0	6568.646	0	79
Jul-49	745.8082	0	15.04314	0	0	0	0	760.8514	0	80
Aug-49	1041.09	0	15.04314	0	0	0	0	1056.134	0	81

NORTH SECTOR

	INFLOWS					OUTFLOWS				STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Natural Rainfall Runoff	Natural SWE Runoff	Whale Tail WRSF Runoff	Whale Tail WRSF Seepage	Ore 4 Runoff	Evaporation	Whale Tail (North Basin) / Whale Tail Attenuation Pond	WT Pit	IVR Attenuation Pond	Storage
Sep-49	2037.835	0	4.852626	0	0	0	0	2042.688	0	82
Oct-49	0	0	0	0	0	0	0	0	0	83
Nov-49	0	0	0	0	0	0	0	0	0	84
Dec-49	0	0	0	0	0	0	0	0	0	85
Jan-50	0	0	0	0	0	0	0	0	0	86
Feb-50	0	0	0	0	0	0	0	0	0	87
Mar-50	0	0	0	0	0	0	0	0	0	88
Apr-50	0	0	0	0	0	0	0	0	0	89
May-50	0	0	0	0	0	0	0	0	0	90
Jun-50	2077.399	4282.584	208.6629	0	0	0	0	6568.646	0	91
Jul-50	745.8082	0	15.04314	0	0	0	0	760.8514	0	92
Aug-50	1041.09	0	15.04314	0	0	0	0	1056.134	0	93
Sep-50	2037.835	0	4.852626	0	0	0	0	2042.688	0	94
Oct-50	0	0	0	0	0	0	0	0	0	95
Nov-50	0	0	0	0	0	0	0	0	0	96
Dec-50	0	0	0	0	0	0	0	0	0	97

WHALE TAIL PIT

	INFLOWS														OUTFLOWS					STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon					m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Land Runoff	Lake Runoff	Pit Wall Runoff	Groundwater	Drilling Water	GSP-1	North Sector	IVR WRSF (Closure)	Overburden Runoff	Ore 4 Runoff	NPAG Runoff	IVR Pit Overflow	Whale Tail Attenuation Pond Overflow	Drawdown from WTN	Evaporation	Drill Water Loss	Groundwater	Whale Tail Attenuation Pond	IVR Attenuation Pond	Volume	Water Level
Jan-18																					
Feb-18																					
Mar-18																					
Apr-18																					
May-18																					
Jun-18																					
Jul-18																					
Aug-18																					
Sep-18																					
Oct-18																					
Nov-18																					
Dec-18																					
Jan-19																					
Feb-19																					
Mar-19																					
Apr-19																					
May-19																					
Jun-19	62,024	184	39,063	24,042	935	0	0	0	1,621	0	0	0	0	0	15	0	0	119,853	0	8,000	80.1
Jul-19	8,803	96	5,543	30,070	1,488	0	0	0	230	0	0	0	0	0	214	2,878	0	43,138	0	8,000	80.1
Aug-19	12,289	106	7,738	30,070	1,488	0	0	0	321	0	0	0	0	0	216	2,878	0	48,918	0	8,000	80.1
Sep-19	24,054	100	15,146	29,100	1,440	0	0	0	629	0	0	0	0	0	84	2,696	0	67,690	0	8,000	80.1
Oct-19	0	0	0	30,070	1,488	0	0	0	0	0	0	0	0	0	0	2,878	0	28,680	0	8,000	80.1
Nov-19	0	0	0	29,100	1,440	0	0	0	0	0	0	0	0	0	0	2,696	0	27,844	0	8,000	80.1
Dec-19	0	0	0	30,070	1,488	0	0	0	0	0	0	0	0	0	0	2,878	0	28,680	0	8,000	47.1
Jan-20	0	0	0	36,270	1,488	0	0	0	0	0	0	0	0	0	0	2,878	0	34,880	0	8,000	47.1
Feb-20	0	0	0	33,930	1,392	0	0	0	0	0	0	0	0	0	0	2,519	0	32,803	0	8,000	47.1
Mar-20	0	0	0	36,270	1,488	0	0	0	0	0	0	0	0	0	0	2,878	0	34,880	0	8,000	47.1
Apr-20	0	0	0	35,100	1,440	0	0	0	0	0	0	0	0	0	0	2,696	0	33,844	0	8,000	47.1
May-20	0	0	0	36,270	1,488	0	0	0	0	0	0	0	0	0	0	2,878	0	34,880	0	8,000	47.1
Jun-20	61,970	797	59,849	35,100	1,440	0	0	0	1,963	0	0	0	0	0	64	2,696	0	158,359	0	8,000	47.1
Jul-20	7,265	328	7,017	36,270	1,488	0	0	0	230	0	0	0	0	0	733	1,439	0	50,426	0	8,000	47.1
Aug-20	10,142	364	9,795	36,270	1,488	0	0	0	321	0	0	0	0	0	740	1,439	0	56,201	0	8,000	47.1
Sep-20	19,852	342	19,173	35,100	1,440	0	0	0	629	0	0	0	0	0	287	1,348	0	74,901	0	8,000	47.1
Oct-20	0	0	0	36,270	1,488	0	0	0	0	0	0	0	0	0	0	1,439	0	36,319	0	8,000	47.1
Nov-20	0	0	0	35,100	1,440	0	0	0	0	0	0	0	0	0	0	1,348	0	35,192	0	8,000	47.1
Dec-20	0	0	0	36,270	1,488	0	0	0	0	0	0	0	0	0	0	1,439	0	36,319	0	8,000	2.0
Jan-21	0	0	0	40,920	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	40,654	0	8,000	2.0
Feb-21	0	0	0	36,960	1,344	0	0	0	0	0	0	0	0	0	0	1,431	0	36,873	0	8,000	2.0
Mar-21	0	0	0	40,920	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	40,654	0	8,000	2.0
Apr-21	0	0	0	39,600	1,440	0	0	0	0	0	0	0	0	0	0	1,643	0	39,397	0	8,000	2.0
May-21	0	0	0	40,920	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	40,654	0	8,000	2.0
Jun-21	61,958	310	60,310	39,600	1,440	0	0	0	1,962	0	0	0	0	0	25	1,643	0	163,913	0	8,000	2.0
Jul-21	7,265	128	7,072	40,920	1,488	0	0	0	230	0	0	0	0	0	285	1,754	0	55,064	0	8,000	2.0
Aug-21	10,142	142	9,872	40,920	1,488	0	0	0	321	0	0	0	0	0	288	1,754	0	60,843	0	8,000	2.0
Sep-21	19,852	133	19,324	39,600	1,440	0	0	0	629	0	0	0	0	0	112	1,643	0	79,224	0	8,000	2.0
Oct-21	0	0	0	40,920	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	40,654	0	8,000	2.0
Nov-21	0	0	0	39,600	1,440	0	0	0	0	0	0	0	0	0	0	1,643	0	39,397	0	8,000	2.0
Dec-21	0	0	0	40,920	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	40,654	0	8,000	-24.4
Jan-22	0	0	0	42,160	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	41,894	0	8,000	-24.4
Feb-22	0	0	0	38,080	1,344	0	0	0	0	0	0	0	0	0	0	1,431	0	37,993	0	8,000	-24.4
Mar-22	0	0	0	42,160	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	41,894	0	8,000	-24.4
Apr-22	0	0	0	40,800	1,440	0	0	0	0	0	0	0	0	0	0	1,643	0	40,597	0	8,000	-24.4
May-22	0	0	0	42,160	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	41,894	0	8,000	-24.4
Jun-22	60,075	145	60,471	40,800	1,440	0	0	0	1,962	0	20	0	0	0	12	1,643	0	0	163,259	8,000	-24.4
Jul-22	7,004	60	7,091	42,160	1,488	0	0	0	230	0	2	0	0	0	134	1,754	0	0	56,148	8,000	-24.4
Aug-22	9,720	66	9,899	42,160	1,488	0	0	0	321	0	2	0	0	0	135	1,754	0	0	61,767	8,000	-24.4
Sep-22	18,916	62	19,376	40,800	1,440	0	0	0	629	0	1	0	0	0	52	1,643	0	0	79,528	8,000	-24.4
Oct-22	0	0	0	42,160	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,894	8,000	-24.4

WHALE TAIL PIT

	INFLOWS														OUTFLOWS					STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon					m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Land Runoff	Lake Runoff	Pit Wall Runoff	Groundwater	Drilling Water	GSP-1	North Sector	IVR WRSF (Closure)	Overburden Runoff	Ore 4 Runoff	NPAG Runoff	IVR Pit Overflow	Whale Tail Attenuation Pond Overflow	Drawdown from WTN	Evaporation	Drill Water Loss	Groundwater	Whale Tail Attenuation Pond	IVR Attenuation Pond	Volume	Water Level
Nov-22	0	0	0	40,800	1,440	0	0	0	0	0	0	0	0	0	0	1,643	0	0	40,597	8,000	-24.4
Dec-22	0	0	0	42,160	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,894	8,000	-24.4
Jan-23	0	0	0	42,160	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,894	8,000	-24.4
Feb-23	0	0	0	38,080	1,344	0	0	0	0	0	0	0	0	0	0	1,431	0	0	37,993	8,000	-24.4
Mar-23	0	0	0	42,160	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,894	8,000	-24.4
Apr-23	0	0	0	40,800	1,440	0	0	0	0	0	0	0	0	0	0	1,643	0	0	40,597	8,000	-24.4
May-23	0	0	0	42,160	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,894	8,000	-24.4
Jun-23	57,832	145	60,471	40,800	1,440	0	0	0	1,962	0	44	0	0	0	12	1,643	0	0	161,040	8,000	-24.4
Jul-23	6,782	60	7,091	42,160	1,488	0	0	0	230	0	3	0	0	0	134	1,754	0	0	55,926	8,000	-24.4
Aug-23	9,467	66	9,899	42,160	1,488	0	0	0	321	0	3	0	0	0	135	1,754	0	0	61,515	8,000	-24.4
Sep-23	18,530	62	19,376	40,800	1,440	0	0	0	629	0	1	0	0	0	52	1,643	0	0	79,143	8,000	-24.4
Oct-23	0	0	0	42,160	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,894	8,000	-24.4
Nov-23	0	0	0	40,800	1,440	0	0	0	0	0	0	0	0	0	0	1,643	0	0	40,597	8,000	-24.4
Dec-23	0	0	0	42,160	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,894	8,000	-127.6
Jan-24	0	0	0	41,850	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,584	8,000	-127.6
Feb-24	0	0	0	39,150	1,392	0	0	0	0	0	0	0	0	0	0	1,535	0	0	39,007	8,000	-127.6
Mar-24	0	0	0	41,850	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,584	8,000	-127.6
Apr-24	0	0	0	40,500	1,440	0	0	0	0	0	0	0	0	0	0	1,643	0	0	40,297	8,000	-127.6
May-24	0	0	0	41,850	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,584	8,000	-127.6
Jun-24	57,844	174	60,455	40,500	1,440	0	0	0	1,963	0	44	0	0	0	14	1,643	0	0	160,763	8,000	-127.6
Jul-24	6,782	72	7,088	41,850	1,488	0	0	0	230	0	3	0	0	0	160	1,754	0	0	55,598	8,000	-127.6
Aug-24	9,467	80	9,894	41,850	1,488	0	0	0	321	0	3	0	0	0	162	1,754	0	0	61,187	8,000	-127.6
Sep-24	18,530	75	19,367	40,500	1,440	0	0	0	629	0	1	0	0	0	63	1,643	0	0	78,836	8,000	-127.6
Oct-24	0	0	0	41,850	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,584	8,000	-127.6
Nov-24	0	0	0	40,500	1,440	0	0	0	0	0	0	0	0	0	0	1,643	0	0	40,297	8,000	-127.6
Dec-24	0	0	0	41,850	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,584	8,000	-127.6
Jan-25	0	0	0	41,850	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,584	8,000	-127.6
Feb-25	0	0	0	37,800	1,344	0	0	0	0	0	0	0	0	0	0	1,431	0	0	37,713	8,000	-127.6
Mar-25	0	0	0	41,850	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,584	8,000	-127.6
Apr-25	0	0	0	40,500	1,440	0	0	0	0	0	0	0	0	0	0	1,643	0	0	40,297	8,000	-127.6
May-25	0	0	0	41,850	1,488	0	0	0	0	0	0	0	0	0	0	1,754	0	0	41,584	8,000	-127.6
Jun-25	57,832	174	60,442	40,500	1,440	0	0	0	1,962	0	44	0	0	0	14	1,643	0	0	160,738	8,000	-127.6
Jul-25	6,782	72	7,088	41,850	1,488	0	0	0	230	0	3	0	0	0	160	1,754	0	0	55,598	8,000	-127.6
Aug-25	9,467	80	9,894	41,850	1,488	0	0	0	321	0	3	0	0	0	162	1,018	0	0	61,922	8,000	-127.6
Sep-25	18,530	75	19,367	40,500	1,440	0	0	0	629	0	1	0	0	0	63	0	0	0	80,479	8,000	-127.6
Oct-25	0	0	0	41,850	1,488	0	0	0	0	0	0	0	0	0	0	0	0	0	43,338	8,000	-127.6
Nov-25	0	0	0	40,500	1,440	0	0	0	0	0	0	0	0	0	0	0	0	0	41,940	8,000	-127.6
Dec-25	0	0	0	41,850	1,488	0	0	0	0	0	0	0	0	0	0	0	0	0	43,338	8,000	-127.6
Jan-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,000	-127.6
Feb-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,000	-127.6
Mar-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,000	-127.6
Apr-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,000	-127.6
May-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,000	-127.6
Jun-26	57,832	1,106	59,536	0	0	14,929	6,569	14,845	1,962	0	2,888	0	23,157	0	89	0	0	0	0	190,734	-109.3
Jul-26	6,782	726	6,906	0	0	1,751	761	1,921	230	0	339	0	40,361	0	1,622	0	0	0	0	248,888	-105.4
Aug-26	9,467	944	9,592	0	0	2,444	1,056	2,374	321	0	473	0	43,409	0	1,921	0	0	0	0	317,048	-102.2
Sep-26	18,530	1,161	18,576	0	0	4,783	2,043	4,526	629	0	925	0	80,689	0	974	0	0	0	0	447,937	-96.6
Oct-26	0	0	0	0	0	0	0	71	0	0	0	0	18,245	0	0	0	0	0	0	466,252	-96.0
Nov-26	0	0	0	0	0	0	0	0	0	0	0	0	15,517	0	0	0	0	0	0	481,769	-95.5
Dec-26	0	0	0	0	0	0	0	0	0	0	0	0	16,041	0	0	0	0	0	0	497,810	-94.9
Jan-27	0	0	0	0	0	0	0	0	0	0	0	0	16,048	0	0	0	0	0	0	513,858	-94.4
Feb-27	0	0	0	0	0	0	0	0	0	0	0	0	14,501	0	0	0	0	0	0	528,358	-93.9
Mar-27	0	0	0	0	0	0	0	0	0	0	0	0	16,061	0	0	0	0	0	0	544,420	-93.4
Apr-27	0	0	0	0	0	0	0	0	0	0	0	0	15,550	0	0	0	0	0	0	559,969	-92.9
May-27	0	0	0	0	0	0	0	0	0	0	0	0	16,075	0	0	0	0	0	0	576,045	-92.3
Jun-27	57,832	3,683	57,028	0	0	14,929	6,569	14,922	1,962	0	2,888	0	227,203	0	298	0	0	0	0	962,763	-80.8
Jul-27	6,782	1,727	6,629	0	0	1,751	761	1,844	230	0	339	12,284	38,085	0	3,861	0	0	0	0	1,029,332	-79.3
Aug-27	9,467	2,132	9,178	0	0	2,444	1,056	2,374	321	0	473	115,520	43,757	0	4,337	0	0	0	0	1,211,717	-75.4

WHALE TAIL PIT

	INFLOWS														OUTFLOWS					STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon					m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Land Runoff	Lake Runoff	Pit Wall Runoff	Groundwater	Drilling Water	GSP-1	North Sector	IVR WRSF (Closure)	Overburden Runoff	Ore 4 Runoff	NPAG Runoff	IVR Pit Overflow	Whale Tail Attenuation Pond Overflow	Drawdown from WTN	Evaporation	Drill Water Loss	Groundwater	Whale Tail Attenuation Pond	IVR Attenuation Pond	Volume	Water Level
Sep-27	18,530	2,568	17,553	0	0	4,783	2,043	4,526	629	0	925	679,815	81,039	0	2,154	0	0	0	0	2,021,974	-60.6
Oct-27	0	0	0	0	0	0	0	71	0	0	0	21,305	18,615	0	0	0	0	0	0	2,061,965	-59.9
Nov-27	0	0	0	0	0	0	0	0	0	0	0	0	15,870	0	0	0	0	0	0	2,077,835	-59.7
Dec-27	0	0	0	0	0	0	0	0	0	0	0	0	16,401	0	0	0	0	0	0	2,094,236	-59.4
Jan-28	0	0	0	0	0	0	0	0	0	0	0	0	16,403	0	0	0	0	0	0	2,110,639	-59.2
Feb-28	0	0	0	0	0	0	0	0	0	0	0	0	15,346	0	0	0	0	0	0	2,125,985	-58.9
Mar-28	0	0	0	0	0	0	0	0	0	0	0	0	16,406	0	0	0	0	0	0	2,142,391	-58.6
Apr-28	0	0	0	0	0	0	0	0	0	0	0	0	15,878	0	0	0	0	0	0	2,158,269	-58.4
May-28	0	0	0	0	0	0	0	0	0	0	0	0	16,409	0	0	0	0	0	0	2,174,679	-58.1
Jun-28	57,844	9,755	51,133	0	0	14,932	6,570	14,848	1,963	0	2,888	2,371,608	225,057	0	789	0	0	0	0	4,930,487	-27.2
Jul-28	6,782	5,068	5,702	0	0	1,751	761	1,921	230	0	339	89,492	41,057	0	11,329	0	0	0	0	5,072,260	-25.9
Aug-28	9,467	5,674	7,942	0	0	2,444	1,056	2,374	321	0	473	115,428	44,062	0	11,544	0	0	0	0	5,249,958	-24.4
Sep-28	18,530	5,524	15,403	0	0	4,783	2,043	4,526	629	0	925	679,740	81,279	0	4,633	0	0	0	0	6,058,707	-17.5
Oct-28	0	0	0	0	0	0	0	71	0	0	0	21,303	18,823	0	0	0	0	0	0	6,098,903	-17.2
Nov-28	0	0	0	0	0	0	0	0	0	0	0	0	16,070	0	0	0	0	0	0	6,114,974	-17.0
Dec-28	0	0	0	0	0	0	0	0	0	0	0	0	16,606	0	0	0	0	0	0	6,131,579	-16.9
Jan-29	0	0	0	0	0	0	0	0	0	0	0	0	16,607	0	0	0	0	0	0	6,148,186	-16.8
Feb-29	0	0	0	0	0	0	0	0	0	0	0	0	15,000	0	0	0	0	0	0	6,163,186	-16.7
Mar-29	0	0	0	0	0	0	0	0	0	0	0	0	16,607	0	0	0	0	0	0	6,179,793	-16.6
Apr-29	0	0	0	0	0	0	0	0	0	0	0	0	16,072	0	0	0	0	0	0	6,195,865	-16.4
May-29	0	0	0	0	0	0	0	0	0	0	0	0	16,608	0	0	0	0	0	0	6,212,473	-16.3
Jun-29	57,832	15,752	45,285	0	0	14,929	6,569	14,845	1,962	0	2,888	2,371,084	225,148	0	1,274	0	0	0	0	8,967,492	2.2
Jul-29	6,782	7,492	5,029	0	0	1,751	761	1,921	230	0	339	89,461	41,152	0	16,747	0	0	0	0	9,105,662	3.1
Aug-29	9,467	8,425	6,982	15	0	2,444	1,056	2,374	321	0	473	115,413	44,159	0	17,142	0	0	0	0	9,279,649	4.1
Sep-29	18,530	8,310	13,376	89	0	4,783	2,043	4,526	629	0	925	679,727	81,374	0	6,970	0	0	0	0	10,086,990	8.8
Oct-29	0	0	0	161	0	0	0	71	0	0	0	21,302	18,924	0	0	0	0	0	0	10,127,450	9.0
Nov-29	0	0	0	159	0	0	0	0	0	0	0	0	16,167	0	0	0	0	0	0	10,143,780	9.1
Dec-29	0	0	0	166	0	0	0	0	0	0	0	0	16,707	0	0	0	0	0	0	10,160,650	9.2
Jan-30	0	0	0	169	0	0	0	0	0	0	0	0	16,707	0	0	0	0	0	0	10,177,530	9.3
Feb-30	0	0	0	155	0	0	0	0	0	0	0	0	15,091	0	0	0	0	0	0	10,192,770	9.4
Mar-30	0	0	0	174	0	0	0	0	0	0	0	0	16,708	0	0	0	0	0	0	10,209,650	9.5
Apr-30	0	0	0	170	0	0	0	0	0	0	0	0	16,170	0	0	0	0	0	0	10,225,990	9.6
May-30	0	0	0	179	0	0	0	0	0	0	0	0	16,709	0	0	0	0	0	0	10,242,880	9.7
Jun-30	57,832	20,767	40,405	349	0	14,929	6,569	14,845	1,962	0	2,888	2,371,074	225,254	0	1,680	0	0	0	0	12,998,080	24.1
Jul-30	6,782	9,113	4,579	582	0	1,751	761	1,921	230	0	339	89,451	41,273	0	20,372	0	0	0	0	13,134,490	24.7
Aug-30	9,467	10,204	6,361	596	0	2,444	1,056	2,374	321	0	473	115,403	44,280	0	20,760	0	0	0	0	13,306,710	25.5
Sep-30	18,530	9,943	12,189	767	0	4,783	2,043	4,526	629	0	925	679,717	81,445	0	8,339	0	0	0	0	14,113,860	29.3
Oct-30	0	0	0	1,059	0	0	0	71	0	0	0	21,302	18,919	0	0	0	0	0	0	14,155,210	29.5
Nov-30	0	0	0	1,035	0	0	0	0	0	0	0	0	16,160	0	0	0	0	0	0	14,172,410	29.6
Dec-30	0	0	0	1,080	0	0	0	0	0	0	0	0	16,696	0	0	0	0	0	0	14,190,190	29.6
Jan-31	0	0	0	1,091	0	0	0	0	0	0	0	0	16,694	0	0	0	0	0	0	14,207,970	29.7
Feb-31	0	0	0	994	0	0	0	0	0	0	0	0	15,076	0	0	0	0	0	0	14,224,040	29.8
Mar-31	0	0	0	1,111	0	0	0	0	0	0	0	0	16,689	0	0	0	0	0	0	14,241,840	29.9
Apr-31	0	0	0	1,085	0	0	0	0	0	0	0	0	16,149	0	0	0	0	0	0	14,259,070	30.0
May-31	0	0	0	1,132	0	0	0	0	0	0	0	0	16,685	0	0	0	0	0	0	14,276,890	30.1
Jun-31	57,832	25,200	36,091	1,783	0	14,929	6,569	14,845	1,962	0	2,888	2,371,064	225,049	0	2,038	0	0	0	0	17,033,070	42.0
Jul-31	6,782	11,058	4,040	2,721	0	1,751	761	1,921	230	0	339	89,440	40,802	0	24,720	0	0	0	0	17,168,190	42.6
Aug-31	9,467	12,354	5,611	2,776	0	2,444	1,056	2,374	321	0	473	115,392	43,793	0	25,135	0	0	0	0	17,339,120	43.3
Sep-31	18,530	11,932	10,742	2,826	0	4,783	2,043	4,526	629	0	925	679,706	80,957	0	10,008	0	0	0	0	18,146,710	46.7
Oct-31	0	0	0	3,052	0	0	0	71	0	0	0	21,302	18,427	0	0	0	0	0	0	18,189,560	46.8
Nov-31	0	0	0	2,959	0	0	0	0	0	0	0	0	15,684	0	0	0	0	0	0	18,208,200	46.9
Dec-31	0	0	0	3,063	0	0	0	0	0	0	0	0	16,204	0	0	0	0	0	0	18,227,470	47.0
Jan-32	0	0	0	3,068	0	0	0	0	0	0	0	0	16,202	0	0	0	0	0	0	18,246,740	47.1
Feb-32	0	0	0	2,875	0	0	0	0	0	0	0	0	15,155	0	0	0	0	0	0	18,264,770	47.1
Mar-32	0	0	0	3,078	0	0	0	0	0	0	0	0	16,199	0	0	0	0	0	0	18,284,050	47.2
Apr-32	0	0	0	2,983	0	0	0	0	0	0	0	0	15,674	0	0	0	0	0	0	18,302,700	47.3
May-32	0	0	0	3,088	0	0	0	0	0	0	0	0	16,195	0	0	0	0	0	0	18,321,990	47.4
Jun-32	57,844	29,254	32,159	3,306	0	14,932	6,570	14,848	1,963	0	2,888	2,371,551	224,655	0	2,366	0	0	0	0	21,079,590	57.7

WHALE TAIL PIT

	INFLOWS														OUTFLOWS					STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon					m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Land Runoff	Lake Runoff	Pit Wall Runoff	Groundwater	Drilling Water	GSP-1	North Sector	IVR WRSF (Closure)	Overburden Runoff	Ore 4 Runoff	NPAG Runoff	IVR Pit Overflow	Whale Tail Attenuation Pond Overflow	Drawdown from WTN	Evaporation	Drill Water Loss	Groundwater	Whale Tail Attenuation Pond	IVR Attenuation Pond	Volume	Water Level
Jul-32	6,782	12,334	3,686	3,826	0	1,751	761	1,921	230	0	339	89,442	40,402	0	27,571	0	0	0	0	21,213,490	58.1
Aug-32	9,467	13,713	5,137	3,853	0	2,444	1,056	2,374	321	0	473	115,378	43,394	0	27,899	0	0	0	0	21,383,200	58.8
Sep-32	18,530	12,977	9,982	3,846	0	4,783	2,043	4,526	629	0	925	679,692	80,578	0	10,884	0	0	0	0	22,190,830	61.7
Oct-32	0	0	0	4,115	0	0	0	71	0	0	0	21,301	18,043	0	0	0	0	0	0	22,234,360	61.9
Nov-32	0	0	0	3,990	0	0	0	0	0	0	0	0	15,313	0	0	0	0	0	0	22,253,660	61.9
Dec-32	0	0	0	4,130	0	0	0	0	0	0	0	0	15,822	0	0	0	0	0	0	22,273,610	62.0
Jan-33	0	0	0	4,138	0	0	0	0	0	0	0	0	15,820	0	0	0	0	0	0	22,293,570	62.1
Feb-33	0	0	0	3,744	0	0	0	0	0	0	0	0	14,287	0	0	0	0	0	0	22,311,600	62.1
Mar-33	0	0	0	4,152	0	0	0	0	0	0	0	0	15,817	0	0	0	0	0	0	22,331,570	62.2
Apr-33	0	0	0	4,025	0	0	0	0	0	0	0	0	15,305	0	0	0	0	0	0	22,350,900	62.3
May-33	0	0	0	4,167	0	0	0	0	0	0	0	0	15,813	0	0	0	0	0	0	22,370,880	62.4
Jun-33	57,832	32,304	29,179	4,465	0	14,929	6,569	14,845	1,962	0	2,888	2,371,039	224,261	0	2,613	0	0	0	0	25,128,540	71.7
Jul-33	6,782	14,126	3,189	5,168	0	1,751	761	1,921	230	0	339	89,410	40,065	0	31,579	0	0	0	0	25,260,700	72.1
Aug-33	9,467	15,697	4,444	5,203	0	2,444	1,056	2,374	321	0	473	115,363	43,061	0	31,936	0	0	0	0	25,428,670	72.6
Sep-33	18,530	14,818	8,643	5,096	0	4,783	2,043	4,526	629	0	925	679,677	80,269	0	12,428	0	0	0	0	26,236,180	75.2
Oct-33	0	0	0	5,270	0	0	0	71	0	0	0	21,301	17,739	0	0	0	0	0	0	26,280,560	75.3
Nov-33	0	0	0	5,100	0	0	0	0	0	0	0	0	15,019	0	0	0	0	0	0	26,300,680	75.4
Dec-33	0	0	0	5,270	0	0	0	0	0	0	0	0	15,519	0	0	0	0	0	0	26,321,470	75.5
Jan-34	0	0	0	5,270	0	0	0	0	0	0	0	0	15,517	0	0	0	0	0	0	26,342,260	75.5
Feb-34	0	0	0	4,760	0	0	0	0	0	0	0	0	14,015	0	0	0	0	0	0	26,361,030	75.6
Mar-34	0	0	0	5,270	0	0	0	0	0	0	0	0	15,515	0	0	0	0	0	0	26,381,820	75.6
Apr-34	0	0	0	5,100	0	0	0	0	0	0	0	0	15,013	0	0	0	0	0	0	26,401,930	75.7
May-34	0	0	0	5,270	0	0	0	0	0	0	0	0	15,513	0	0	0	0	0	0	26,422,710	75.8
Jun-34	57,832	35,298	26,266	5,100	0	14,929	6,569	14,845	1,962	0	2,888	2,371,025	223,998	0	2,855	0	0	0	0	29,180,570	84.3
Jul-34	6,782	14,776	3,008	5,270	0	1,751	761	1,921	230	0	339	89,394	39,833	0	33,032	0	0	0	0	29,311,600	84.7
Aug-34	9,467	16,418	4,193	5,270	0	2,444	1,056	2,374	321	0	473	115,347	42,831	0	33,403	0	0	0	0	29,478,390	85.2
Sep-34	18,530	15,508	8,141	5,199	0	4,783	2,043	4,526	629	0	925	679,662	80,046	0	13,007	0	0	0	0	30,285,380	87.7
Oct-34	0	0	0	6,199	0	0	0	71	0	0	0	21,300	17,471	0	0	0	0	0	0	30,330,420	87.8
Nov-34	0	0	0	6,073	0	0	0	0	0	0	0	0	14,756	0	0	0	0	0	0	30,351,250	87.8
Dec-34	0	0	0	6,349	0	0	0	0	0	0	0	0	15,243	0	0	0	0	0	0	30,372,840	87.9
Jan-35	0	0	0	6,424	0	0	0	0	0	0	0	0	15,239	0	0	0	0	0	0	30,394,500	88.0
Feb-35	0	0	0	5,867	0	0	0	0	0	0	0	0	13,760	0	0	0	0	0	0	30,414,130	88.0
Mar-35	0	0	0	6,567	0	0	0	0	0	0	0	0	15,230	0	0	0	0	0	0	30,435,920	88.1
Apr-35	0	0	0	6,427	0	0	0	0	0	0	0	0	14,734	0	0	0	0	0	0	30,457,090	88.1
May-35	0	0	0	6,717	0	0	0	0	0	0	0	0	15,220	0	0	0	0	0	0	30,479,020	88.2
Jun-35	57,832	38,467	23,182	10,765	0	14,929	6,569	14,845	1,962	0	2,888	2,371,002	223,487	0	3,111	0	0	0	0	33,241,840	95.9
Jul-35	6,782	16,538	2,519	16,662	0	1,751	761	1,921	230	0	339	89,360	37,555	0	36,971	0	0	0	0	33,379,280	96.3
Aug-35	9,467	18,374	3,510	17,034	0	2,444	1,056	2,374	321	0	473	115,311	40,237	0	37,383	0	0	0	0	33,552,500	96.7
Sep-35	18,530	17,331	6,814	18,033	0	4,783	2,043	4,526	629	0	925	679,625	76,266	0	14,537	0	0	0	0	34,367,470	98.9
Oct-35	0	0	0	20,197	0	0	0	71	0	0	0	21,299	12,221	0	0	0	0	0	0	34,421,260	99.1
Nov-35	0	0	0	19,645	0	0	0	0	0	0	0	0	9,590	0	0	0	0	0	0	34,450,500	99.2
Dec-35	0	0	0	20,399	0	0	0	0	0	0	0	0	9,824	0	0	0	0	0	0	34,480,720	99.2
Jan-36	0	0	0	20,500	0	0	0	0	0	0	0	0	9,736	0	0	0	0	0	0	34,510,950	99.3
Feb-36	0	0	0	19,269	0	0	0	0	0	0	0	0	9,028	0	0	0	0	0	0	34,539,250	99.4
Mar-36	0	0	0	20,696	0	0	0	0	0	0	0	0	9,566	0	0	0	0	0	0	34,569,510	99.5
Apr-36	0	0	0	20,125	0	0	0	0	0	0	0	0	9,174	0	0	0	0	0	0	34,598,810	99.6
May-36	0	0	0	20,896	0	0	0	0	0	0	0	0	9,393	0	0	0	0	0	0	34,629,100	99.6
Jun-36	57,844	41,529	20,215	24,576	0	14,932	6,570	14,848	1,963	0	2,888	2,371,436	213,865	0	3,358	0	0	0	0	37,396,410	106.9
Jul-36	6,782	17,802	2,169	31,105	0	1,751	761	1,921	230	0	339	89,247	22,503	0	39,796	0	0	0	0	37,531,220	107.3
Aug-36	9,467	19,822	3,005	31,487	0	2,444	1,056	2,374	321	0	473	115,178	25,061	0	40,328	0	0	0	0	37,701,580	107.7
Sep-36	18,530	18,876	5,690	32,094	0	4,783	2,043	4,526	629	0	925	679,480	61,050	0	15,832	0	0	0	0	38,514,380	109.8
Oct-36	0	0	0	34,813	0	0	0	71	0	0	0	21,294	2,023	0	0	0	0	0	0	38,572,580	110.0
Nov-36	0	0	0	33,809	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38,606,380	110.1
Dec-36	0	0	0	35,058	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38,641,440	110.2
Jan-37	0	0	0	35,181	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38,676,620	110.2
Feb-37	0	0	0	31,883	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38,708,510	110.3
Mar-37	0	0	0	35,418	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38,743,920	110.4
Apr-37	0	0	0	34,395	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38,778,320	110.5

WHALE TAIL PIT

	INFLOWS														OUTFLOWS					STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon					m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Land Runoff	Lake Runoff	Pit Wall Runoff	Groundwater	Drilling Water	GSP-1	North Sector	IVR WRSF (Closure)	Overburden Runoff	Ore 4 Runoff	NPAG Runoff	IVR Pit Overflow	Whale Tail Attenuation Pond Overflow	Drawdown from WTN	Evaporation	Drill Water Loss	Groundwater	Whale Tail Attenuation Pond	IVR Attenuation Pond	Volume	Water Level
May-37	0	0	0	35,665	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38,813,980	110.6
Jun-37	57,832	45,556	16,284	33,493	0	14,929	6,569	14,845	1,962	0	2,888	2,370,811	154,059	0	3,685	0	0	0	0	41,529,530	117.1
Jul-37	6,782	18,983	1,841	32,312	0	1,751	761	1,921	230	0	339	89,166	19,694	0	42,436	0	0	0	0	41,660,870	117.4
Aug-37	9,467	21,086	2,564	32,156	0	2,444	1,056	2,374	321	0	473	115,119	22,825	0	42,901	0	0	0	0	41,827,860	117.8
Sep-37	18,530	19,873	4,965	30,442	0	4,783	2,043	4,526	629	0	925	679,444	61,249	0	16,668	0	0	0	0	42,638,600	119.8
Oct-37	0	0	0	30,778	0	0	0	71	0	0	0	21,293	2,102	0	0	0	0	0	0	42,692,840	119.9
Nov-37	0	0	0	29,742	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42,722,580	120.0
Dec-37	0	0	0	30,689	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42,753,270	120.0
Jan-38	0	0	0	30,645	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42,783,920	120.1
Feb-38	0	0	0	27,641	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42,811,560	120.2
Mar-38	0	0	0	30,561	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42,842,120	120.2
Apr-38	0	0	0	29,533	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42,871,650	120.3
May-38	0	0	0	30,474	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42,902,130	120.4
Jun-38	57,832	47,004	14,876	27,084	0	14,929	6,569	14,845	1,962	0	2,888	2,370,822	186,513	0	3,802	0	0	0	0	45,643,650	126.8
Jul-38	6,782	19,553	1,683	22,478	0	1,751	761	1,921	230	0	339	89,208	28,141	0	43,710	0	0	0	0	45,772,780	127.1
Aug-38	9,467	21,755	2,330	22,051	0	2,444	1,056	2,374	321	0	473	115,163	31,524	0	44,262	0	0	0	0	45,937,480	127.4
Sep-38	18,530	20,667	4,388	19,450	0	4,783	2,043	4,526	629	0	925	679,497	70,756	0	17,334	0	0	0	0	46,746,340	129.2
Oct-38	0	0	0	18,184	0	0	0	71	0	0	0	21,295	9,707	0	0	0	0	0	0	46,795,600	129.3
Nov-38	0	0	0	17,493	0	0	0	0	0	0	0	0	7,346	0	0	0	0	0	0	46,820,440	129.4
Dec-38	0	0	0	17,971	0	0	0	0	0	0	0	0	7,685	0	0	0	0	0	0	46,846,090	129.4
Jan-39	0	0	0	17,865	0	0	0	0	0	0	0	0	7,779	0	0	0	0	0	0	46,871,740	129.5
Feb-39	0	0	0	16,044	0	0	0	0	0	0	0	0	7,108	0	0	0	0	0	0	46,894,890	129.5
Mar-39	0	0	0	17,662	0	0	0	0	0	0	0	0	7,959	0	0	0	0	0	0	46,920,510	129.6
Apr-39	0	0	0	16,991	0	0	0	0	0	0	0	0	7,793	0	0	0	0	0	0	46,945,300	129.7
May-39	0	0	0	17,453	0	0	0	0	0	0	0	0	8,145	0	0	0	0	0	0	46,970,890	129.7
Jun-39	57,832	50,470	11,503	12,077	0	14,929	6,569	14,845	1,962	0	2,888	2,370,956	220,423	0	4,082	0	0	0	0	49,731,260	135.7
Jul-39	6,782	21,413	1,167	7,236	0	1,751	761	1,921	230	0	339	89,619	38,305	0	47,868	0	0	0	0	49,852,920	136.0
Aug-39	9,467	23,786	1,622	6,969	0	2,444	1,056	2,374	321	0	473	115,595	41,313	0	48,393	0	0	0	0	50,009,940	136.3
Sep-39	18,530	22,429	3,106	5,490	0	4,783	2,043	4,526	629	0	925	680,009	78,629	0	18,812	0	0	0	0	50,812,230	138.0
Oct-39	0	0	0	4,404	0	0	0	71	0	0	0	21,315	16,098	0	0	0	0	0	0	50,854,120	138.1
Nov-39	0	0	0	4,211	0	0	0	0	0	0	0	0	13,434	0	0	0	0	0	0	50,871,760	138.1
Dec-39	0	0	0	4,301	0	0	0	0	0	0	0	0	13,882	0	0	0	0	0	0	50,889,950	138.1
Jan-40	0	0	0	4,251	0	0	0	0	0	0	0	0	13,883	0	0	0	0	0	0	50,908,080	138.2
Feb-40	0	0	0	3,931	0	0	0	0	0	0	0	0	12,989	0	0	0	0	0	0	50,925,000	138.2
Mar-40	0	0	0	4,153	0	0	0	0	0	0	0	0	13,885	0	0	0	0	0	0	50,943,040	138.2
Apr-40	0	0	0	3,971	0	0	0	0	0	0	0	0	13,438	0	0	0	0	0	0	50,960,450	138.3
May-40	0	0	0	4,054	0	0	0	0	0	0	0	0	13,887	0	0	0	0	0	0	50,978,390	138.3
Jun-40	57,844	53,235	8,824	1,243	0	14,932	6,570	14,848	1,963	0	2,888	2,372,796	222,102	0	4,305	0	297	0	0	53,731,030	144.0
Jul-40	6,782	22,324	914	0	0	1,751	761	1,921	230	0	339	95,612	34,032	0	49,904	0	617	0	0	53,845,180	144.2
Aug-40	9,467	24,817	1,262	0	0	2,444	1,056	2,374	321	0	473	121,968	36,681	0	50,491	0	592	0	0	53,994,960	144.5
Sep-40	18,530	23,500	2,327	0	0	4,783	2,043	4,526	629	0	925	688,119	72,398	0	19,710	0	447	0	0	54,792,580	146.1
Oct-40	0	0	0	0	0	0	0	71	0	0	0	21,646	7,756	0	0	0	335	0	0	54,821,720	146.1
Nov-40	0	0	0	0	0	0	0	0	0	0	0	0	5,330	0	0	0	323	0	0	54,826,720	146.1
Dec-40	0	0	0	0	0	0	0	0	0	0	0	0	5,487	0	0	0	332	0	0	54,831,880	146.2
Jan-41	0	0	0	0	0	0	0	0	0	0	0	0	5,466	0	0	0	331	0	0	54,837,010	146.2
Feb-41	0	0	0	0	0	0	0	0	0	0	0	0	4,919	0	0	0	298	0	0	54,841,640	146.2
Mar-41	0	0	0	0	0	0	0	0	0	0	0	0	5,427	0	0	0	328	0	0	54,846,730	146.2
Apr-41	0	0	0	0	0	0	0	0	0	0	0	0	5,232	0	0	0	316	0	0	54,851,650	146.2
May-41	0	0	0	0	0	0	0	0	0	0	0	0	5,386	0	0	0	325	0	0	54,856,710	146.2
Jun-41	57,832	56,347	5,785	0	0	14,929	6,569	14,916	1,962	0	2,888	38,846	9,868	193	206	0	207	0	0	54,907,870	146.3
Jul-41	6,782	23,552	574	0	0	1,751	761	1,732	230	0	339	0	0	124	0	0	124	0	0	54,907,870	146.3
Aug-41	9,467	26,156	795	0	0	2,444	1,056	2,384	321	0	473	0	0	120	0	0	120	0	0	54,907,870	146.3
Sep-41	18,530	24,655	1,487	0	0	4,783	2,043	4,558	629	0	925	0	0	96	0	0	96	0	0	54,907,870	146.3
Oct-41	0	0	0	0	0	0	0	9	0	0	0	0	0	80	0	0	80	0	0	54,907,870	146.3
Nov-41	0	0	0	0	0	0	0	0	0	0	0	0	0	77	0	0	77	0	0	54,907,870	146.3
Dec-41	0	0	0	0	0	0	0	0	0	0	0	0	0	80	0	0	80	0	0	54,907,870	146.3
Jan-42	0	0	0	0	0	0	0	0	0	0	0	0	0	80	0	0	80	0	0	54,907,870	146.3
Feb-42	0	0	0	0	0	0	0	0	0	0	0	0	0	72	0	0	72	0	0	54,907,870	146.3

WHALE TAIL PIT

	INFLOWS														OUTFLOWS					STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon					m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Land Runoff	Lake Runoff	Pit Wall Runoff	Groundwater	Drilling Water	GSP-1	North Sector	IVR WRSF (Closure)	Overburden Runoff	Ore 4 Runoff	NPAG Runoff	IVR Pit Overflow	Whale Tail Attenuation Pond Overflow	Drawdown from WTN	Evaporation	Drill Water Loss	Groundwater	Whale Tail Attenuation Pond	IVR Attenuation Pond	Volume	Water Level
Mar-42	0	0	0	0	0	0	0	0	0	0	0	0	0	80	0	0	80	0	0	54,907,870	146.3
Apr-42	0	0	0	0	0	0	0	0	0	0	0	0	0	77	0	0	77	0	0	54,907,870	146.3
May-42	0	0	0	0	0	0	0	0	0	0	0	0	0	80	0	0	80	0	0	54,907,870	146.3
Jun-42	57,832	58,492	3,697	0	0	14,929	6,569	15,043	1,962	0	2,888	0	0	26	0	0	26	0	0	54,907,870	146.3
Jul-42	6,782	24,394	340	0	0	1,751	761	1,785	230	0	339	0	0	0	0	0	0	0	0	54,907,870	146.3
Aug-42	9,467	27,090	469	0	0	2,444	1,056	2,384	321	0	473	0	0	0	0	0	0	0	0	54,907,870	146.3
Sep-42	18,530	25,475	890	0	0	4,783	2,043	4,558	629	0	925	0	0	22	0	0	22	0	0	54,907,870	146.3
Oct-42	0	0	0	0	0	0	0	71	0	0	0	0	0	43	0	0	43	0	0	54,907,870	146.3
Nov-42	0	0	0	0	0	0	0	0	0	0	0	0	0	55	0	0	55	0	0	54,907,870	146.3
Dec-42	0	0	0	0	0	0	0	0	0	0	0	0	0	68	0	0	68	0	0	54,907,870	146.3
Jan-43	0	0	0	0	0	0	0	0	0	0	0	0	0	76.49649	0	0	76.49649	0	0	5.49E+07	146.3
Feb-43	0	0	0	0	0	0	0	0	0	0	0	0	0	75.29357	0	0	75.29357	0	0	5.49E+07	146.3
Mar-43	0	0	0	0	0	0	0	0	0	0	0	0	0	88.54272	0	0	88.54272	0	0	5.49E+07	146.3
Apr-43	0	0	0	0	0	0	0	0	0	0	0	0	0	90.40202	0	0	90.40202	0	0	5.49E+07	146.3
May-43	0	0	0	0	0	0	0	0	0	0	0	0	0	96.97668	0	0	96.97668	0	0	5.49E+07	146.3
Jun-43	57832.1	59440.8	2773.77	0	0	14928.89	6568.646	15064.37	1962.418	0	2887.817	0	0	97.20657	0	0	97.20657	0	0	5.49E+07	146.3
Jul-43	6781.724	24447.18	325.2681	0	0	1750.647	760.8514	1921.436	230.1244	0	338.642	0	0	103.3729	0	0	103.3729	0	0	5.49E+07	146.3
Aug-43	9466.761	27132.5	454.049	0	0	2443.767	1056.134	2374.293	321.2358	0	472.7179	0	0	105.6294	0	0	105.6294	0	0	5.49E+07	146.3
Sep-43	18530.28	25477.03	888.7578	0	0	4783.442	2042.688	4525.798	628.7885	0	925.3004	0	0	104.3658	0	0	104.3658	0	0	5.49E+07	146.3
Oct-43	0	0	0	0	0	0	0	70.54922	0	0	0	0	0	110.0322	0	0	110.0322	0	0	5.49E+07	146.3
Nov-43	0	0	0	0	0	0	0	0	0	0	0	0	0	108.0538	0	0	108.0538	0	0	5.49E+07	146.3
Dec-43	0	0	0	0	0	0	0	0	0	0	0	0	0	113.0339	0	0	113.0339	0	0	5.49E+07	146.3
Jan-44	0	0	0	0	0	0	0	0	0	0	0	0	0	114.4348	0	0	114.4348	0	0	5.49E+07	146.3
Feb-44	0	0	0	0	0	0	0	0	0	0	0	0	0	108.3201	0	0	108.3201	0	0	5.49E+07	146.3
Mar-44	0	0	0	0	0	0	0	0	0	0	0	0	0	117.1204	0	0	117.1204	0	0	5.49E+07	146.3
Apr-44	0	0	0	0	0	0	0	0	0	0	0	0	0	114.276	0	0	114.276	0	0	5.49E+07	146.3
May-44	0	0	0	0	0	0	0	0	0	0	0	0	0	118.9151	0	0	118.9151	0	0	5.49E+07	146.3
Jun-44	57844.06	59452.77	2774.344	0	0	14931.98	6569.962	15067.29	1962.824	0	2888.414	0	0	115.8822	0	0	115.8822	0	0	5.49E+07	146.3
Jul-44	6781.724	24447.18	325.2681	0	0	1750.647	760.8514	1921.481	230.1244	0	338.642	0	0	120.5748	0	0	120.5748	0	0	5.49E+07	146.3
Aug-44	9466.761	27132.5	454.049	0	0	2443.767	1056.134	2374.293	321.2358	0	472.7179	0	0	121.419	0	0	121.419	0	0	5.49E+07	146.3
Sep-44	18530.28	25477.03	888.7578	0	0	4783.442	2042.688	4525.798	628.7885	0	925.3004	0	0	118.3056	0	0	118.3056	0	0	5.49E+07	146.3
Oct-44	0	0	0	0	0	0	0	70.54922	0	0	0	0	0	122.891	0	0	122.891	0	0	5.49E+07	146.3
Nov-44	0	0	0	0	0	0	0	0	0	0	0	0	0	119.3101	0	0	119.3101	0	0	5.49E+07	146.3
Dec-44	0	0	0	0	0	0	0	0	0	0	0	0	0	123.6818	0	0	123.6818	0	0	5.49E+07	146.3
Jan-45	0	0	0	0	0	0	0	0	0	0	0	0	0	124.083	0	0	124.083	0	0	5.49E+07	146.3
Feb-45	0	0	0	0	0	0	0	0	0	0	0	0	0	112.4198	0	0	112.4198	0	0	5.49E+07	146.3
Mar-45	0	0	0	0	0	0	0	0	0	0	0	0	0	124.8465	0	0	124.8465	0	0	5.49E+07	146.3
Apr-45	0	0	0	0	0	0	0	0	0	0	0	0	0	121.2012	0	0	121.2012	0	0	5.49E+07	146.3
May-45	0	0	0	0	0	0	0	0	0	0	0	0	0	125.636	0	0	125.636	0	0	5.49E+07	146.3
Jun-45	57832.1	59440.8	2773.77	0	0	14928.89	6568.646	15064.37	1962.418	0	2887.817	0	0	121.8904	0	0	121.8904	0	0	5.49E+07	146.3
Jul-45	6781.724	24447.18	325.2681	0	0	1750.647	760.8514	1921.436	230.1244	0	338.642	0	0	125.9801	0	0	125.9801	0	0	5.49E+07	146.3
Aug-45	9466.761	27132.5	454.049	0	0	2443.767	1056.134	2374.293	321.2358	0	472.7179	0	0	125.9805	0	0	125.9805	0	0	5.49E+07	146.3
Sep-45	18530.28	25477.03	888.7578	0	0	4783.442	2042.688	4525.798	628.7885	0	925.3004	0	0	121.917	0	0	121.917	0	0	5.49E+07	146.3
Oct-45	0	0	0	0	0	0	0	70.54922	0	0	0	0	0	125.9813	0	0	125.9813	0	0	5.49E+07	146.3
Nov-45	0	0	0	0	0	0	0	0	0	0	0	0	0	121.9177	0	0	121.9177	0	0	5.49E+07	146.3
Dec-45	0	0	0	0	0	0	0	0	0	0	0	0	0	125.9821	0	0	125.9821	0	0	5.49E+07	146.3
Jan-46	0	0	0	0	0	0	0	0	0	0	0	0	0	125.9824	0	0	125.9824	0	0	5.49E+07	146.3
Feb-46	0	0	0	0	0	0	0	0	0	0	0	0	0	113.7909	0	0	113.7909	0	0	5.49E+07	146.3
Mar-46	0	0	0	0	0	0	0	0	0	0	0	0	0	125.9832	0	0	125.9832	0	0	5.49E+07	146.3
Apr-46	0	0	0	0	0	0	0	0	0	0	0	0	0	121.9196	0	0	121.9196	0	0	5.49E+07	146.3
May-46	0	0	0	0	0	0	0	0	0	0	0	0	0	125.8702	0	0	125.8702	0	0	5.49E+07	146.3
Jun-46	57832.1	59440.8	2773.77	0	0	14928.89	6568.646	15064.37	1962.418	0	2887.817	0	0	121.5242	0	0	121.5242	0	0	5.49E+07	146.3
Jul-46	6781.724	24447.18	325.2681	0	0	1750.647	760.8514	1921.436	230.1244	0	338.642	0	0	125.2771	0	0	125.2771	0	0	5.49E+07	146.3
Aug-46	9466.761	27132.5	454.049	0	0	2443.767	1056.134	2374.293	321.2358	0	472.7179	0	0	124.974	0	0	124.974	0	0	5.49E+07	146.3
Sep-46	18530.28	25477.03	888.7578	0	0	4783.442	2042.688	4525.798	628.7885	0	925.3004	0	0	120.6542	0	0	120.6542	0	0	5.49E+07	146.3
Oct-46	0	0	0	0	0	0	0	70.54922	0	0	0	0	0	124.3784	0	0	124.3784	0	0	5.49E+07	146.3
Nov-46	0	0	0	0	0	0	0	0	0	0	0	0	0	120.0778	0	0	120.0778	0	0	5.49E+07	146.3
Dec-46	0	0	0	0	0	0	0	0	0	0	0	0	0	123.7825	0	0	123.7825	0	0	5.49E+07	146.3

WHALE TAIL PIT

	INFLOWS														OUTFLOWS					STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon					m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Land Runoff	Lake Runoff	Pit Wall Runoff	Groundwater	Drilling Water	GSP-1	North Sector	IVR WRSF (Closure)	Overburden Runoff	Ore 4 Runoff	NPAG Runoff	IVR Pit Overflow	Whale Tail Attenuation Pond Overflow	Drawdown from WTN	Evaporation	Drill Water Loss	Groundwater	Whale Tail Attenuation Pond	IVR Attenuation Pond	Volume	Water Level
Jan-47	0	0	0	0	0	0	0	0	0	0	0	0	0	123.4797	0	0	123.4797	0	0	5.49E+07	146.3
Feb-47	0	0	0	0	0	0	0	0	0	0	0	0	0	111.2698	0	0	111.2698	0	0	5.49E+07	146.3
Mar-47	0	0	0	0	0	0	0	0	0	0	0	0	0	122.9033	0	0	122.9033	0	0	5.49E+07	146.3
Apr-47	0	0	0	0	0	0	0	0	0	0	0	0	0	118.6504	0	0	118.6504	0	0	5.49E+07	146.3
May-47	0	0	0	0	0	0	0	0	0	0	0	0	0	122.2419	0	0	122.2419	0	0	5.49E+07	146.3
Jun-47	57832.1	59440.8	2773.77	0	0	14928.89	6568.646	15064.37	1962.418	0	2887.817	0	0	117.8452	0	0	117.8452	0	0	5.49E+07	146.3
Jul-47	6781.724	24447.18	325.2681	0	0	1750.647	760.8514	1921.436	230.1244	0	338.642	0	0	121.3034	0	0	121.3034	0	0	5.49E+07	146.3
Aug-47	9466.761	27132.5	454.049	0	0	2443.767	1056.134	2374.293	321.2358	0	472.7179	0	0	120.8253	0	0	120.8253	0	0	5.49E+07	146.3
Sep-47	18530.28	25477.03	888.7578	0	0	4783.442	2042.688	4525.798	628.7885	0	925.3004	0	0	116.4727	0	0	116.4727	0	0	5.49E+07	146.3
Oct-47	0	0	0	0	0	0	0	70.54922	0	0	0	0	0	119.8856	0	0	119.8856	0	0	5.49E+07	146.3
Nov-47	0	0	0	0	0	0	0	0	0	0	0	0	0	115.5635	0	0	115.5635	0	0	5.49E+07	146.3
Dec-47	0	0	0	0	0	0	0	0	0	0	0	0	0	118.9456	0	0	118.9456	0	0	5.49E+07	146.3
Jan-48	0	0	0	0	0	0	0	0	0	0	0	0	0	118.4679	0	0	118.4679	0	0	5.49E+07	146.3
Feb-48	0	0	0	0	0	0	0	0	0	0	0	0	0	110.3923	0	0	110.3923	0	0	5.49E+07	146.3
Mar-48	0	0	0	0	0	0	0	0	0	0	0	0	0	117.5432	0	0	117.5432	0	0	5.49E+07	146.3
Apr-48	0	0	0	0	0	0	0	0	0	0	0	0	0	113.2967	0	0	113.2967	0	0	5.49E+07	146.3
May-48	0	0	0	0	0	0	0	0	0	0	0	0	0	116.5881	0	0	116.5881	0	0	5.49E+07	146.3
Jun-48	57844.06	59452.77	2774.344	0	0	14931.98	6569.962	15067.29	1962.824	0	2888.414	0	0	112.3367	0	0	112.3367	0	0	5.49E+07	146.3
Jul-48	6781.724	24447.18	325.2681	0	0	1750.647	760.8514	1921.481	230.1244	0	338.642	0	0	115.5744	0	0	115.5744	0	0	5.49E+07	146.3
Aug-48	9466.761	27132.5	454.049	0	0	2443.767	1056.134	2374.293	321.2358	0	472.7179	0	0	115.0587	0	0	115.0587	0	0	5.49E+07	146.3
Sep-48	18530.28	25477.03	888.7578	0	0	4783.442	2042.688	4525.798	628.7885	0	925.3004	0	0	110.8564	0	0	110.8564	0	0	5.49E+07	146.3
Oct-48	0	0	0	0	0	0	0	70.54922	0	0	0	0	0	114.0452	0	0	114.0452	0	0	5.49E+07	146.3
Nov-48	0	0	0	0	0	0	0	0	0	0	0	0	0	109.8758	0	0	109.8758	0	0	5.49E+07	146.3
Dec-48	0	0	0	0	0	0	0	0	0	0	0	0	0	113.0313	0	0	113.0313	0	0	5.49E+07	146.3
Jan-49	0	0	0	0	0	0	0	0	0	0	0	0	0	112.5161	0	0	112.5161	0	0	5.49E+07	146.3
Feb-49	0	0	0	0	0	0	0	0	0	0	0	0	0	101.1846	0	0	101.1846	0	0	5.49E+07	146.3
Mar-49	0	0	0	0	0	0	0	0	0	0	0	0	0	111.5355	0	0	111.5355	0	0	5.49E+07	146.3
Apr-49	0	0	0	0	0	0	0	0	0	0	0	0	0	107.4469	0	0	107.4469	0	0	5.49E+07	146.3
May-49	0	0	0	0	0	0	0	0	0	0	0	0	0	110.5284	0	0	110.5284	0	0	5.49E+07	146.3
Jun-49	57832.1	59440.8	2773.77	0	0	14928.89	6568.646	15064.37	1962.418	0	2887.817	0	0	106.4885	0	0	106.4885	0	0	5.49E+07	146.3
Jul-49	6781.724	24447.18	325.2681	0	0	1750.647	760.8514	1921.436	230.1244	0	338.642	0	0	109.5479	0	0	109.5479	0	0	5.49E+07	146.3
Aug-49	9466.761	27132.5	454.049	0	0	2443.767	1056.134	2374.293	321.2358	0	472.7179	0	0	109.0493	0	0	109.0493	0	0	5.49E+07	146.3
Sep-49	18530.28	25477.03	888.7578	0	0	4783.442	2042.688	4525.798	628.7885	0	925.3004	0	0	105.057	0	0	105.057	0	0	5.49E+07	146.3
Oct-49	0	0	0	0	0	0	0	70.54922	0	0	0	0	0	108.0693	0	0	108.0693	0	0	5.49E+07	146.3
Nov-49	0	0	0	0	0	0	0	0	0	0	0	0	0	104.1088	0	0	104.1088	0	0	5.49E+07	146.3
Dec-49	0	0	0	0	0	0	0	0	0	0	0	0	0	107.0889	0	0	107.0889	0	0	5.49E+07	146.3
Jan-50	0	0	0	0	0	0	0	0	0	0	0	0	0	106.5907	0	0	106.5907	0	0	5.49E+07	146.3
Feb-50	0	0	0	0	0	0	0	0	0	0	0	0	0	95.8472	0	0	95.8472	0	0	5.49E+07	146.3
Mar-50	0	0	0	0	0	0	0	0	0	0	0	0	0	105.6424	0	0	105.6424	0	0	5.49E+07	146.3
Apr-50	0	0	0	0	0	0	0	0	0	0	0	0	0	101.7602	0	0	101.7602	0	0	5.49E+07	146.3
May-50	0	0	0	0	0	0	0	0	0	0	0	0	0	104.6761	0	0	104.6761	0	0	5.49E+07	146.3
Jun-50	57832.1	59440.8	2773.77	0	0	14928.89	6568.646	15064.37	1962.418	0	2887.817	0	0	100.8582	0	0	100.8582	0	0	5.49E+07	146.3
Jul-50	6781.724	24447.18	325.2681	0	0	1750.647	760.8514	1921.436	230.1244	0	338.642	0	0	103.7643	0	0	103.7643	0	0	5.49E+07	146.3
Aug-50	9466.761	27132.5	454.049	0	0	2443.767	1056.134	2374.293	321.2358	0	472.7179	0	0	103.3007	0	0	103.3007	0	0	5.49E+07	146.3
Sep-50	18530.28	25477.03	888.7578	0	0	4783.442	2042.688	4525.798	628.7885	0	925.3004	0	0	99.52715	0	0	99.52715	0	0	5.49E+07	146.3
Oct-50	0	0	0	0	0	0	0	70.54922	0	0	0	0	0	102.3895	0	0	102.3895	0	0	5.49E+07	146.3
Nov-50	0	0	0	0	0	0	0	0	0	0	0	0	0	98.64547	0	0	98.64547	0	0	5.49E+07	146.3
Dec-50	0	0	0	0	0	0	0	0	0	0	0	0	0	98.2116	0	0	98.2116	0	0	5.49E+07	146.3

WHALE TAIL LAKE (NORTH BASIN) & WHALE TAIL ATTENUATION POND

	INFLOWS																									OUTFLOWS											STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Clean Area Runoff	Lakebed Sediment Runoff	Direct Precipitation	Whale Tail WRSF	Groundwater to Attn Pond	GW to WTN	Seepage Thru Dike	Dust Control	Truck Shop	Camp Biodisk	Industrial Sector	Camp Sector Runoff	Ore Stockpile	Natural WT Pit Runoff	NPAG to Attn Pond	Northeast Sector	East Sector Runoff	North Sector / Sump	Whale Tail Lake (South Basin)	IVR WRSF	IVR Pit	IVR Pit Sector Runoff (Closure)	Whale Tail Pit	Whale Tail Pit Sector Runoff	Pumped from WTS to WTN	Overburden	Lake A16 (Mammoth Lake)	Dewatering to WT Lake (South) bypass C-WTP	Dewatering to WT Lake (South) through C-WTP	O-WTP	STP (Brackish)	IVR Attenuation Pond	Groundwater	Evaporation	Drawdown to WT Pit	WTN to Pits	GSP1	Overflow to WT WRSF	Volume	Water Level
Jan-18	0	0	0	0	0	0	0	0	0	2,412	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.03E+06	152.50
Feb-18	0	0	0	0	0	0	0	0	0	2,178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.03E+06	152.51
Mar-18	0	0	0	0	0	0	0	0	0	2,412	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.04E+06	152.51
Apr-18	0	0	0	0	0	0	0	0	0	2,334	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.04E+06	152.51
May-18	0	0	0	0	0	0	0	0	0	2,412	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.04E+06	152.52
Jun-18	55,516	0	72,670	0	0	0	0	0	0	2,334	0	0	0	140,921	0	235,933	115,154	25,877	2,299,747	48,937	0	0	0	0	0	0	3,002,958	0	0	0	0	0	0	5,878	0	0	0	0	3.03E+06	152.50
Jul-18	6,510	0	29,886	0	0	0	0	0	0	2,412	0	0	0	15,250	0	22,599	5,652	3,035	0	5,739	0	0	0	0	0	0	24,273	0	0	0	0	0	0	66,809	0	0	0	0	3.03E+06	152.50
Aug-18	9,088	0	33,169	0	0	0	0	0	0	2,412	0	0	0	21,287	0	33,497	12,010	4,236	0	8,011	0	0	0	0	0	0	56,226	0	0	0	0	0	0	67,484	0	0	0	0	3.03E+06	152.50
Sep-18	17,788	0	31,145	0	0	0	0	0	0	2,334	0	0	0	41,668	0	73,742	40,778	8,292	0	15,680	0	0	0	0	0	0	205,305	0	0	0	0	0	0	26,123	0	0	0	0	3.03E+06	152.50
Oct-18	0	0	0	0	0	0	0	0	0	2,412	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.03E+06	152.50
Nov-18	0	0	0	0	0	0	0	0	0	2,334	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.03E+06	152.51
Dec-18	0	0	0	0	0	0	0	0	0	2,412	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.04E+06	152.51
Jan-19	0	0	0	0	0	0	0	0	0	2,412	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.04E+06	152.51
Feb-19	0	0	0	0	0	0	0	0	0	2,178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.04E+06	152.52
Mar-19	0	0	0	0	39,900	0	0	0	0	2,412	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,377,778	0	0	0	0	0	0	0	0	0	0	1.71E+06	150.08
Apr-19	0	0	0	0	21,280	0	0	0	0	2,334	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	666,667	0	0	0	0	0	0	0	0	0	0	1.06E+06	148.38
May-19	0	0	0	0	0	0	0	0	0	2,412	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.07E+06	148.39
Jun-19	55,516	31,113	4,779	70,929	8,675	7,980	16,111	0	2,555	2,334	9,390	19,149	4,027	22,603	0	0	139,495	25,877	0	0	0	0	119,853	0	0	0	0	0	0	1,128,365	462,519	0	0	4,461	387	0	0	0	0	10,000	137.82
Jul-19	6,510	4,094	359	9,678	10,850	0	20,150	0	3,196	2,412	1,294	2,718	617	0	0	0	5,652	3,035	0	0	0	0	43,138	0	0	0	0	0	0	0	107,320	0	0	5,580	803	0	0	0	0	10,000	137.82
Aug-19	9,088	5,715	399	12,919	10,850	0	20,150	0	3,196	2,412	1,745	3,794	932	0	0	0	12,010	4,236	0	0	0	0	48,918	0	0	0	0	0	0	0	129,974	0	0	5,580	811	0	0	0	0	10,000	137.82
Sep-19	17,788	11,187	374	24,119	10,500	0	19,500	0	3,093	2,334	3,299	7,426	1,961	0	0	0	40,778	8,292	0	0	0	0	67,690	0	0	0	0	0	0	0	212,628	0	0	5,400	314	0	0	0	0	10,000	137.82
Oct-19	0	0	0	0	10,850	0	20,150	0	3,196	2,412	0	0	0	0	0	0	0	0	0	0	0	0	28,680	0	0	0	0	0	0	0	0	0	0	5,580	0	0	0	0	0	69,708	141.50
Nov-19	0	0	0	0	10,500	0	19,500	0	3,093	2,334	0	0	0	0	0	0	0	0	0	0	0	0	27,844	0	0	0	0	0	0	0	0	0	0	5,400	0	0	0	0	0	127,579	143.35
Dec-19	0	0	0	0	10,850	0	20,150	0	3,196	2,412	0	0	0	0	0	0	0	0	0	0	0	0	28,680	0	0	0	0	0	0	0	0	0	0	5,580	0	0	54,055	0	0	133,232	143.50
Jan-20	0	0	0	0	3,720	0	11,160	0	3,196	2,412	0	0	0	0	0	0	0	0	0	0	0	0	34,880	0	0	0	0	0	0	0	0	0	0	26,660	0	0	28,708	0	0	133,232	143.50
Feb-20	0	0	0	0	3,480	0	10,440	0	2,990	2,256	0	0	0	0	0	0	0	0	0	0	0	0	32,803	0	0	0	0	0	0	0	0	0	0	24,940	0	0	27,029	0	0	133,232	143.50
Mar-20	0	0	0	0	3,720	0	11,160	0	3,196	2,412	0	0	0	0	0	0	0	0	0	0	0	0	34,880	0	0	0	0	0	0	0	0	0	0	26,660	0	0	28,708	0	0	133,232	143.50
Apr-20	0	0	0	0	3,600	0	10,800	0	3,093	2,334	0	0	0	0	0	0	0	0	0	0	0	0	33,844	0	0	0	0	0	0	0	0	0	0	25,800	0	0	27,871	0	0	133,232	143.50
May-20	0	0	0	0	3,720	0	11,160	0	3,196	2,412	0	0	0	0	0	0	0	0	0	0	0	0	34,880	0	0	0	0	0	0	0	0	0	0	26,660	0	0	28,708	0	0	133,232	143.50
Jun-20	52,113	33,305	2,534	47,379	3,600	0	10,800	0	3,093	2,334	6,987	23,182	9,814	0	37	0	0	25,883	0	0	0	0	158,359	0	0	0	0	0	0	0	476,647	0	0	25,800	205	0	0	0	0	10,000	137.82
Jul-20	6,037	4,094	359	5,173	3,720	0	11,160	0	3,196	2,412	776	2,718	1,198	0	3	0	21	3,035	0	4,290	16,222	0	50,426	0	0	0	0	0	0	0	87,355	0	0	26,660	803	0	0	0	0	10,000	137.82
Aug-20	8,324	5,715	399	6,705	3,720	0	11,160	0	3,196	2,412	1,021	3,794	1,739	0	4	0	0	4,236	0	5,673	22,050	0	56,201	0	0	0	0	0	0	0	108,876	0	0	26,660	811	0	0	0	0	10,000	137.82
Sep-20	16,093	11,187	374	12,074	3,600	0	10,800	0	3,093	2,334	1,879	7,426	3,532	0	1	0	0	8,292	0	10,487	41,742	0	74,901	0	0	0	0	0	0	0	181,702	0	0	25,800	314	0	0	0	0	10,000	137.82
Oct-20	0	0	0	0	3,720	0	11,160	0	3,196	2,412	0	0	0	0	0	0	0	0	0	0	1,537	0	36,319	0	0	0	0	0	0	0	0	31,000	0	26,660	0	0	0	0	0	10,684	137.90
Nov-20	0	0	0	0	3,600	0	10,800	0	3,093	2,334	0	0	0	0	0	0	0	0	0	0	1,532	0	35,192	0	0	0	0	0	0	0	0	30,000	0	25,800	0	0	0	0	0	11,435	137.99
Dec-20	0	0	0	0	3,720	0	11,160	0	3,196	4,125	0	0	0	0	0	0	0	0	0	0	1,537	0	36,319	0	0	0	0	0	0	0	0	31,000	0	26,660	0	0	0	0	0	13,832	138.25
Jan-21	0	0	0	0	2,790	0	11,315	0	3,196	5,952	0	0	0	0	0	0	0	0	0	0	1,222	0	40,654	0	0	0	0	0	0	0	0	31,000	0	32,550	0	0	0	0	0	15,411	138.40
Feb-21	0	0	0	0	2,520	0	10,220	0	2,887	5,376	0	0	0	0	0	0	0	0	0	0	1,257	0	36,873	0	0	0	0	0	0	0	0	28,000	0	29,400	0	0	0	0	0	17,144	138.56
Mar-21	0	0	0	0	2,790	0	11,315	0	3,196	5,952	0	0	0	0	0	0	0	0	0	0	1,222	0	40,654	0	0	0	0	0	0	0	0	31,000	0	32,550	0	0	0	0	0	18,723	138.70
Apr-21	0	0	0	0	2,700	0	10,950	0	3,093	5,760	0	0	0	0	0	0	0	0	0	0	1,237	0	39,397	0	0	0	0	0	0	0	0	30,000	0	31,500	0	0	0	0	0	20,360	138.84
May-21	0	0	0	0	2,790	0	11,315	0	3,196	5,952	0	0	0	0	0	0	0	0	0	0	1,222	0	40,654	0	0	0	0	0	0	0	0	31,000	0	32,550	0	0	0	0	0	21,939	138.97
Jun-21	48,057	34,899	889	26,866	2,700	0	10,950	0	3,093	5,760	4,569	23,178	12,424	0	80	0	0	17,069	0	25,681	119,605	0	163,913	0	0	0	0	0	0	0	480,098	0	0	31,500	72	0	0	0	0	10,000	137.82
Jul-21	5,635	4,094	359	3,078	2,790	0	11,315	0	3,196	5,952	536	2,718	1,457	0	6	0	0	1,807	0	3,000	14,876	0	55,064	0	0	0	0	0	0	0	82,532	0	0	32,550	803	0	0	0	0	10,000	137.82
Aug-21	7,867	5,715	399	4,229	2,790	0	11,315	0	3,196	5,952	748	3,794	2,034	0	6	0	0	2,249	0	4,181	20,086	0	60,843	0	0	0	0	0	0	0	102,043	0	0	32,550	811	0	0	0	0	10,000	137.82
Sep-21	15,398	11,187	374	8,087	2,700	0	10,950	0	3,093	5,760	1,464	7,426	3,981	0	2	0	0	3,865	0	8,156	37,835	0	79,224	0	0	0	0	0	0	0	167,690	0	0	31,500	314	0	0	0	0	10,000	137.82
Oct-21	0	0	0	0	2,790	0	11,315	0	3,196	5,952	0	0	0	0	0	0	0	0	0	0	1,222	0	40,654	0	0	0	0	0	0	0	0	31,000	0	32,550	0	0	0	0	0	11,579	138.01
Nov-21	0	0	0	0	2,700	0	10,950	0	3,093	5,760	0	0	0	0	0	0	0	0	0	0	1,237	0	39,397	0	0	0	0	0	0	0	0	30,000	0	31,500	0	0	0	0	0	13,217	138.18
Dec-21	0	0	0	0	2,790	0	11,315	0	3,196	5,952	0	0	0	0	0	0	0	0	0	0	1,222	0	40,654	0	0	0	0	0	0	0	0	31,000	0	32,550	0	0	0	0	0	14,796	138.34
Jan-22	0	0	0	0	2,790	0	11,160	0	3,196	5,952	0	0	0	0	0	0	0	0	0	0	1,222	0	41,894	0	0	0	0	0	0	0	0	31,000	0	33,790	0	0	0	0	0	16,220	138.48
Feb-22	0	0	0	0	2,520	0	10,080	0	2,887	5,376	0	0	0	0	0	0	0	0	0	0	1,257	0	37,993	0	0	0	0	0	0	0	0	28,000	0	30,520	0	0	0	0	0	17,812	138.62
Mar-22	0	0	0	0	2,790	0	11,160	0	3,196	5,952	0	0	0	0	0	0	0	0	0	0	1,222	0	41,894	0	0	0	0	0	0	0	0	31,000	0	33,790	0	0	0	0	0	19,236	138.74
Apr-22	0	0	0	0	2,700	0	10,800	0	3,093	5,760	0	0	0	0	0	0	0	0	0	0	1,237	0	40,597	0	0	0	0	0	0	0	0	0	0	32,700	0	0	0	0	0	50,724	140.69
May-22	0	0	0	0	2,790	0	11,160	0	3,196	5,952	0	0	0	0	0	0	0	0	0	0	1,222	0	41,894	0	0	0	0	0	0	0	0	0	0	33,790	0	0	0	0	0	83,148	142.00
Jun-22	43,649	34,763	1,029	0	2,700	0	10,800	0	0	0	4,569	23,178	12,424	0	127	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	173,603	32,700	83	0	0	0	0	10,000	137.82
Jul-22	5,024	4,094	359	0	2,790	0	11,160	0	0	0	536	2,718	1,457	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27,345	803	0	0	0	0	10,000	137.82
Aug-22	6,879	5,715	399	0	2,790	0	11,160	0	0	0	748	3,794	2,034	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32,717	811	0	0	0	0	10,000	137.82
Sep-22	13,205	11,187	374	0	2,700	0	10,800	0	0	0	1,464	7,426	3,981	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18,128	32,700	314	0	0	0	0	10,000	137.82
Oct-22	0	0	0	0	2,790	0	11,160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,950	0	0	0	0	0	10,000	137.82
Nov-22	0	0	0	0	2,700	0	10,800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,500	0	0	0	0	0	10,000	137.82
Dec-22	0	0	0	0	2,790	0	11,160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,950	0	0	0	0	0	10,000	137.82
Jan-23	0	0	0	0	2,790	0	11,160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,950	0	0	0	0	0	10,000	137.82
Feb-23	0	0	0	0	2,520	0	10,080	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12,600	0	0	0	0	0	10,000	137.82
Mar-23	0	0	0	0	2,790	0	11,160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,950	0	0	0	0	0	10,000	137.82
Apr-23	0	0	0	0	2,700	0	10,800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,500	0	0	0	0	0	10,000	137.82
May-23	0	0	0	0	2,790	0	11,160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,950	0	0	0	0	0	10,000	137.82
Jun-23	38,395	34,914	873	0	2,700	0	10,800	0	0	0	3,965	23,178	13,028	0	183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95,266	32,700	71	0	0	0	0	10,000	137.82
Jul-23	4,502	4,094	359	0	2,790	0	11,160	0	0	0	452	2,718	1,541	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26,827	803	0	0	0	0	10,000	137.82
Aug-23	6,285	5,715	399	0	2,790	0	11,160	0	0	0	612	3,794	2,169	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32,127	811	0	0	0	0	10,000	137.82
Sep-23	12,302	11,187	374	0	2,700	0	10,800	0	0	0	1,163	7,426	4,282	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,225	32,700	314	0	0	0	0	10,000	137.82
Oct-23	0	0	0	0	2,790	0	11,160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,950	0	0	0	0	0	10,000	137.82
Nov-23	0	0	0	0	2,700	0	10,800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,500	0	0	0	0	0	10,000	137.82
Dec-23	0	0	0	0	2,790	0	11,160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,950	0	0	0	0	0	10,000	137.82
Jan-24	0	0	0	0	2,790	0	11,160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,950	0	0	0	0	0	10,000	137.82
Feb-24	0	0	0	0	2,610	0	10,440	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,050	0	0	0	0	0	10,000	137.82
Mar-24	0	0	0	0	2,790	0	11,160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,950	0	0	0	0	0	10,000	137.82
Apr-24	0	0	0	0	2,700	0	10,800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,500	0	0	0	0	0	10,000	137.82
May-24	0	0	0	0	2,790	0	11,160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,950	0	0	0	0	0	10,000	137.82
Jun-24	38,403	34,921	874	0	2,700	0	10,800	0	0	0	3,147	23,182	13,850	0	183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95,289	32,700	71	0	0	0	0	10,000	137.82
Jul-24	4,502	4,094	359	0	2,790	0	11,160	0	0	0	367	2,718	1,626	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26,827	803	0	0	0	0	10,000	137.82
Aug-24	6,285	5,715	399	0	2,790	0	11,160	0	0	0	509	3,794	2,273	0	13	0	0	0	0

WHALE TAIL LAKE (NORTH BASIN) & WHALE TAIL ATTENUATION POND

	INFLOWS																											OUTFLOWS												STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Clean Area Runoff	Lakebed Sediment Runoff	Direct Precipitation	Whale Tail WRSF	Groundwater to Attn Pond	GW to WTN	Seepage Thru Dike	Dust Control	Truck Shop	Camp Biodisk	Industrial Sector	Camp Sector Runoff	Ore Stockpile	Natural WT Pit Runoff	NPAG to Attn Pond	Northeast Sector	East Sector Runoff	North Sector / Sump	Whale Tail Lake (South Basin)	IVR WRSF	IVR Pit	IVR Pit Sector Runoff (Closure)	Whale Tail Pit	Whale Tail Pit Sector Runoff	Pumped from WTS to WTN	Overburden	Lake A16 (Mammoth Lake)	Dewatering to WT Lake (South) bypass C-WTP	Dewatering to WT Lake (South) through C-WTP	O-WTP	STP (Brackish)	IVR Attenuation Pond	Groundwater	Evaporation	Drawdown to WT Pit	WTN to Pits	GSP1	Overflow to WT WRSF	Volume	Water Level
Feb-28	0	0	0	0	5,053	0	9,945	0	0	348	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,346	0	0	291,982	146.30
Mar-28	0	0	0	0	5,403	0	10,631	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,406	0	0	291,982	146.30
Apr-28	0	0	0	0	5,230	0	10,289	0	0	360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,878	0	0	291,982	146.30
May-28	0	0	0	0	5,406	0	10,632	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,409	0	0	291,982	146.30
Jun-28	38,403	25,817	10,230	0	5,313	0	10,296	0	0	360	15,903	23,182	0	0	11,987	0	91,608	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	827	0	232,272	0	0	291,982	146.30
Jul-28	4,502	3,027	4,207	0	5,558	0	10,645	0	0	372	1,865	2,718	0	0	1,405	0	9,527	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,404	0	34,423	0	0	291,982	146.30
Aug-28	6,285	4,225	4,669	0	5,562	0	10,645	0	0	372	2,603	3,794	0	0	1,962	0	13,766	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,499	0	44,384	0	0	291,982	146.30
Sep-28	12,302	8,270	4,384	0	5,394	0	10,303	0	0	360	5,095	7,426	0	0	3,840	0	28,902	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,677	0	82,600	0	0	291,982	146.30
Oct-28	0	0	0	0	5,586	0	10,647	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,605	0	0	291,982	146.30
Nov-28	0	0	0	0	5,407	0	10,303	0	0	360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,070	0	0	291,982	146.30
Dec-28	0	0	0	0	5,587	0	10,647	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,606	0	0	291,982	146.30
Jan-29	0	0	0	0	5,588	0	10,647	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,607	0	0	291,982	146.30
Feb-29	0	0	0	0	5,047	0	9,617	0	0	336	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,000	0	0	291,982	146.30
Mar-29	0	0	0	0	5,588	0	10,647	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,607	0	0	291,982	146.30
Apr-29	0	0	0	0	5,408	0	10,304	0	0	360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,072	0	0	291,982	146.30
May-29	0	0	0	0	5,589	0	10,647	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,608	0	0	291,982	146.30
Jun-29	38,395	25,811	10,228	0	5,435	0	10,305	0	0	360	15,900	23,178	0	0	11,985	0	91,589	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	827	0	232,358	0	0	291,982	146.30
Jul-29	4,502	3,027	4,207	0	5,649	0	10,651	0	0	372	1,865	2,718	0	0	1,405	0	9,527	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,404	0	34,519	0	0	291,982	146.30
Aug-29	6,285	4,225	4,669	0	5,652	0	10,651	0	0	372	2,603	3,794	0	0	1,962	0	13,766	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,499	0	44,480	0	0	291,982	146.30
Sep-29	12,302	8,270	4,384	0	5,483	0	10,310	0	0	360	5,095	7,426	0	0	3,840	0	28,902	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,677	0	82,696	0	0	291,982	146.30
Oct-29	0	0	0	0	5,678	0	10,656	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,706	0	0	291,982	146.30
Nov-29	0	0	0	0	5,495	0	10,312	0	0	360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,167	0	0	291,982	146.30
Dec-29	0	0	0	0	5,679	0	10,656	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,707	0	0	291,982	146.30
Jan-30	0	0	0	0	5,679	0	10,656	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,707	0	0	291,982	146.30
Feb-30	0	0	0	0	5,130	0	9,625	0	0	336	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,091	0	0	291,982	146.30
Mar-30	0	0	0	0	5,680	0	10,656	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,708	0	0	291,982	146.30
Apr-30	0	0	0	0	5,497	0	10,313	0	0	360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,170	0	0	291,982	146.30
May-30	0	0	0	0	5,681	0	10,656	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,709	0	0	291,982	146.30
Jun-30	38,395	25,811	10,228	0	5,529	0	10,318	0	0	360	15,900	23,178	0	0	11,985	0	91,589	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	827	0	232,465	0	0	291,982	146.30
Jul-30	4,502	3,027	4,207	0	5,752	0	10,670	0	0	372	1,865	2,718	0	0	1,405	0	9,527	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,404	0	34,641	0	0	291,982	146.30
Aug-30	6,285	4,225	4,669	0	5,754	0	10,670	0	0	372	2,603	3,794	0	0	1,962	0	13,766	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,499	0	44,601	0	0	291,982	146.30
Sep-30	12,302	8,270	4,384	0	5,536	0	10,325	0	0	360	5,095	7,426	0	0	3,840	0	28,902	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,677	0	82,764	0	0	291,982	146.30
Oct-30	0	0	0	0	5,663	0	10,667	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,701	0	0	291,982	146.30
Nov-30	0	0	0	0	5,478	0	10,322	0	0	360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,160	0	0	291,982	146.30
Dec-30	0	0	0	0	5,658	0	10,666	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,696	0	0	291,982	146.30
Jan-31	0	0	0	0	5,656	0	10,666	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,694	0	0	291,982	146.30
Feb-31	0	0	0	0	5,106	0	9,634	0	0	336	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,076	0	0	291,982	146.30
Mar-31	0	0	0	0	5,651	0	10,666	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,689	0	0	291,982	146.30
Apr-31	0	0	0	0	5,467	0	10,322	0	0	360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,149	0	0	291,982	146.30
May-31	0	0	0	0	5,647	0	10,666	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,684	0	0	291,982	146.30
Jun-31	38,395	25,811	10,228	0	5,314	0	10,315	0	0	360	15,900	23,178	0	0	11,985	0	91,589	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	827	0	232,247	0	0	291,982	146.30
Jul-31	4,502	3,027	4,207	0	5,299	0	10,650	0	0	372	1,865	2,718	0	0	1,405	0	9,527	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,404	0	34,169	0	0	291,982	146.30
Aug-31	6,285	4,225	4,669	0	5,287	0	10,649	0	0	372	2,603	3,794	0	0	1,962	0	13,766	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,499	0	44,113	0	0	291,982	146.30
Sep-31	12,302	8,270	4,384	0	5,076	0	10,297	0	0	360	5,095	7,426	0	0	3,840	0	28,902	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,677	0	82,276	0	0	291,982	146.30
Oct-31	0	0	0	0	5,205	0	10,632	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,208	0	0	291,982	146.30
Nov-31	0	0	0	0	5,035	0	10,288	0	0	360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,684	0	0	291,982	146.30
Dec-31	0	0	0	0	5,202	0	10,631	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,204	0	0	291,982	146.30
Jan-32	0	0	0	0	5,200	0	10,630	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,202	0	0	291,982	146.30
Feb-32	0	0	0	0	4,863	0	9,944	0	0	348	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,155	0	0	291,982	146.30
Mar-32	0	0	0	0	5,197	0	10,630	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,199	0	0	291,982	146.30
Apr-32	0	0	0	0	5,028	0	10,287	0	0	360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,674	0	0	291,982	146.30
May-32	0	0	0	0	5,194	0	10,629	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,195	0	0	291,982	146.30
Jun-32	38,403	25,817	10,230	0	4,930	0	10,264	0	0	360	15,903	23,182	0	0	11,987	0	91,608	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	827	0	231,857	0	0	291,982	146.30
Jul-32	4,502	3,027	4,207	0	4,970	0	10,578	0	0	372	1,865	2,718	0	0	1,405	0	9,527	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,404	0	33,767	0	0	291,982	146.30
Aug-32	6,285	4,225	4,669	0	4,962	0	10,576	0	0	372	2,603	3,794	0	0	1,962	0	13,766	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,499	0	43,715	0	0	291,982	146.30
Sep-32	12,302	8,270	4,384	0	4,767	0	10,227	0	0	360	5,095	7,426	0	0	3,840	0	28,902	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,677	0	81,898	0	0	291,982	146.30
Oct-32	0	0	0	0	4,894	0	10,559	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,825	0	0	291,982	146.30
Nov-32	0	0	0	0	4,735	0	10,218	0	0	360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,313	0	0	291,982	146.30
Dec-32	0	0	0	0	4,891	0	10,558	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,821	0	0	291,982	146.30
Jan-33	0	0	0	0	4,890	0	10,558	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,820	0	0	291,982	146.30
Feb-33	0	0	0	0	4,415	0	9,536	0	0	336	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14,287	0	0	291,982	146.30
Mar-33	0	0	0	0	4,887	0	10,557	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,816	0	0	291,982	146.30
Apr-33	0	0	0	0	4,728	0	10,216	0	0	360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,305	0	0	291,982	146.30
May-33	0	0	0	0	4,885	0	10,556	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,813	0	0	291,982	146.30
Jun-33	38,395	25,811	10,228	0	4,653	0	10,191	0	0	360	15,900	23,178	0	0	11,985	0	91,589	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	827	0	231,463	0	0	291,982	146.30
Jul-33	4,502	3,027	4,207	0	4,714	0	10,499	0	0	372	1,865	2,718	0	0	1,405	0	9,527	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,404	0	33,432	0	0	291,982	146.30
Aug-33	6,285	4,225	4,669	0	4,708	0	10,497	0	0	372	2,603	3,794	0	0	1,962	0	13,766	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,499	0	43,382	0	0	291,982	146.30
Sep-33	12,302	8,270	4,384	0	4,536	0	10,149	0	0	360	5,095	7,426	0	0	3,840	0	28,902	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,677	0	81,589	0	0	291,982	146.30
Oct-33	0	0	0	0	4,670	0	10,478	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,521	0	0	291,982	146.30
Nov-33	0	0	0	0	4,519	0	10,140	0	0	360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,019	0	0	291,982	146.30
Dec-33	0	0	0	0	4,669	0	10,478	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,518	0	0	291,982	146.30
Jan-34	0	0	0	0	4,668	0	10,477	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,517	0	0	291,982	146.30
Feb-34	0	0	0	0	4,216	0	9,463	0	0	336	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14,015	0	0	291,982	146.30
Mar-34	0	0	0	0	4,667	0	10,476	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,515	0	0	291,982	146.30
Apr-34	0	0	0	0	4,515	0	10,138	0	0	360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,013	0	0	291,982	146.30
May-34	0	0	0	0	4,665	0	10,475	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,513	0	0	291,982	146.30
Jun-34	38,395	25,811	10,228	0	4,471	0	10,113	0	0	360	15,900	23,178	0	0	11,985	0	91,589	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	827	0	231,202	0	0	291,982	146.30
Jul-34	4,502	3,027	4,207	0	4,563	0	10,418	0	0	372	1,865	2,718	0	0	1,405	0	9,527	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,404	0	33,200	0	0	291,982	146.30
Aug-34	6,285	4,225	4,669	0	4,559	0	10,416	0	0	372	2,603	3,794	0	0	1,962	0	13,766	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,499	0	43,152	0	0	291,982	146.30
Sep-34	12,302	8,270	4,384	0	4,393	0	10,070	0	0	360	5,095	7,426	0	0	3,840	0	28,902	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,677	0	81,365	0	0	291,982	146.30
Oct-34	0	0	0	0	4,493	0	10,388	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,252	0	0	291,982	146.30
Nov-34	0	0	0	0	4,344	0	10,052	0	0	360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14,756	0	0	291,982	146.30
Dec-34	0	0	0	0	4,486	0	10,386	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,243	0	0	291,982	146.30
Jan-35	0	0	0	0	4,482	0	10,384	0	0	372

WHALE TAIL LAKE (NORTH BASIN) & WHALE TAIL ATTENUATION POND

	INFLOWS																										OUTFLOWS										STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Clean Area Runoff	Lakebed Sediment Runoff	Direct Precipitation	Whale Tail WRSF	Groundwater to Attn Pond	GW to WTN	Seepage Thru Dike	Dust Control	Truck Shop	Camp Biodisk	Industrial Sector	Camp Sector Runoff	Ore Stockpile	Natural WT Pit Runoff	NPAG to Attn Pond	Northeast Sector	East Sector Runoff	North Sector / Sump	Whale Tail Lake (South Basin)	IVR WRSF	IVR Pit	IVR Pit Sector Runoff (Closure)	Whale Tail Pit	Whale Tail Pit Sector Runoff	Pumped from WTS to WTN	Overburden	Lake A16 (Mammoth Lake)	Dewatering to WT Lake (South) bypass C-WTP	Dewatering to WT Lake (South) through C-WTP	O-WTP	STP (Brackish)	IVR Attenuation Pond	Groundwater	Evaporation	Drawdown to WT Pit	WTN to Pits	GSP1	Overflow to WT WRSF	Volume	Water Level
Mar-38	0	0	0	0	2,705	0	9,239	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,663	0	0	0	0	0	271,808	146.08
Apr-38	0	0	0	0	2,618	0	8,941	0	0	360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,124	0	0	0	0	0	268,603	146.04
May-38	0	0	0	0	2,706	0	9,239	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,594	0	0	0	0	0	265,326	146.00
Jun-38	38,395	25,890	10,147	0	2,691	0	8,979	0	0	360	15,900	23,178	0	0	11,985	0	91,589	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,164	821	0	188,473	0	0	291,982	146.30
Jul-38	4,502	3,027	4,207	0	3,029	0	9,431	0	0	372	1,865	2,718	0	0	1,405	0	9,527	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,155	9,404	0	21,524	0	0	291,982	146.30
Aug-38	6,285	4,225	4,669	0	3,050	0	9,445	0	0	372	2,603	3,794	0	0	1,962	0	13,766	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,810	9,499	0	31,862	0	0	291,982	146.30
Sep-38	12,302	8,270	4,384	0	3,045	0	9,199	0	0	360	5,095	7,426	0	0	3,840	0	28,902	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,997	3,677	0	72,151	0	0	291,982	146.30
Oct-38	0	0	0	0	3,242	0	9,566	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,681	0	0	7,498	0	0	291,982	146.30
Nov-38	0	0	0	0	3,143	0	9,260	0	0	360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,413	0	0	7,349	0	0	291,982	146.30
Dec-38	0	0	0	0	3,252	0	9,572	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,509	0	0	7,688	0	0	291,982	146.30
Jan-39	0	0	0	0	3,258	0	9,576	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,423	0	0	7,782	0	0	291,982	146.30
Feb-39	0	0	0	0	2,947	0	8,652	0	0	336	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,824	0	0	7,111	0	0	291,982	146.30
Mar-39	0	0	0	0	3,268	0	9,582	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,259	0	0	7,962	0	0	291,982	146.30
Apr-39	0	0	0	0	3,167	0	9,276	0	0	360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,008	0	0	7,796	0	0	291,982	146.30
May-39	0	0	0	0	3,278	0	9,589	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,090	0	0	8,149	0	0	291,982	146.30
Jun-39	38,395	25,811	10,228	0	3,289	0	9,508	0	0	360	15,900	23,178	0	0	11,985	0	91,589	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,605	827	0	227,811	0	0	291,982	146.30
Jul-39	4,502	3,027	4,207	0	3,110	0	10,343	0	0	372	1,865	2,718	0	0	1,405	0	9,527	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,404	0	31,672	0	0	291,982	146.30
Aug-39	6,285	4,225	4,669	0	3,078	0	10,381	0	0	372	2,603	3,794	0	0	1,962	0	13,766	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,499	0	41,635	0	0	291,982	146.30
Sep-39	12,302	8,270	4,384	0	2,825	0	10,224	0	0	360	5,095	7,426	0	0	3,840	0	28,902	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,677	0	79,952	0	0	291,982	146.30
Oct-39	0	0	0	0	2,763	0	10,745	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,880	0	0	291,982	146.30
Nov-39	0	0	0	0	2,668	0	10,405	0	0	360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,434	0	0	291,982	146.30
Dec-39	0	0	0	0	2,751	0	10,759	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,882	0	0	291,982	146.30
Jan-40	0	0	0	0	2,745	0	10,767	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,883	0	0	291,982	146.30
Feb-40	0	0	0	0	2,562	0	10,079	0	0	348	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12,989	0	0	291,982	146.30
Mar-40	0	0	0	0	2,733	0	10,781	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,885	0	0	291,982	146.30
Apr-40	0	0	0	0	2,639	0	10,440	0	0	360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,438	0	0	291,982	146.30
May-40	0	0	0	0	2,721	0	10,795	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,887	0	0	291,982	146.30
Jun-40	38,403	25,817	10,230	0	2,119	0	10,416	0	0	360	15,903	23,182	0	0	11,987	0	91,608	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	827	0	229,197	0	0	291,982	146.30
Jul-40	4,502	3,027	4,207	0	1,045	0	8,118	0	0	372	1,865	2,718	0	0	1,405	0	9,527	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,404	0	27,382	0	0	291,982	146.30
Aug-40	6,285	4,225	4,669	0	960	0	7,848	0	0	372	2,603	3,794	0	0	1,962	0	13,766	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,499	0	36,985	0	0	291,982	146.30
Sep-40	12,302	8,270	4,384	0	501	0	6,235	0	0	360	5,095	7,426	0	0	3,840	0	28,902	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,677	0	73,639	0	0	291,982	146.30
Oct-40	0	0	0	0	87	0	5,072	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,530	0	0	291,982	146.30
Nov-40	0	0	0	0	78	0	4,891	0	0	360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,329	0	0	291,982	146.30
Dec-40	0	0	0	0	76	0	5,038	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,486	0	0	291,982	146.30
Jan-41	0	0	0	0	71	0	5,022	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,465	0	0	291,982	146.30
Feb-41	0	0	0	0	60	0	4,523	0	0	336	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,919	0	0	291,982	146.30
Mar-41	0	0	0	0	62	0	4,992	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,426	0	0	291,982	146.30
Apr-41	0	0	0	0	55	0	4,816	0	0	360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,231	0	0	291,982	146.30
May-41	0	0	0	0	52	0	4,962	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,386	0	0	291,982	146.30
Jun-41	38,395	1,721	79,523	0	2	0	3,131	0	0	360	15,900	23,178	0	0	11,985	0	91,589	0	0	0	0	1,829,305	585,558	0	100,161	0	0	0	0	0	0	0	0	0	6,432	193	10,172	0	0	3.06E+06	150.01
Jul-41	4,502	0	48,260	0	0	0	1,764	0	0	372	1,865	2,718	0	0	1,405	0	9,527	0	0	0	0	0	12,162	0	43,924	0	0	0	0	0	0	0	0	0	107,883	124	0	0	0	3.07E+06	150.03
Aug-41	6,285	0	53,831	0	0	0	1,706	0	0	372	2,603	3,794	0	0	1,962	0	13,766	0	0	0	0	0	148,381	0	16,940	0	0	0	0	0	0	0	0	0	109,521	120	0	0	0	3.21E+06	150.16
Sep-41	12,302	0	51,715	0	0	0	1,309	0	0	360	5,095	7,426	0	0	3,840	0	28,902	0	0	0	0	0	708,107	0	32,956	0	0	0	0	0	0	0	0	0	43,376	96	0	0	0	4.02E+06	150.89
Oct-41	0	0	0	0	0	0	1,049	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	2,810	0	9	0	0	0	0	0	0	0	0	0	0	80	0	0	0	4.03E+06	150.90
Nov-41	0	0	0	0	0	0	1,014	0	0	360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77	0	0	0	4.03E+06	150.90
Dec-41	0	0	0	0	0	0	1,047	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	0	0	0	4.03E+06	150.90
Jan-42	0	0	0	0	0	0	1,046	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	0	0	0	4.03E+06	150.90
Feb-42	0	0	0	0	0	0	944	0	0	336	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	0	0	0	4.03E+06	150.90
Mar-42	0	0	0	0	0	0	1,044	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	0	0	0	4.03E+06	150.90
Apr-42	0	0	0	0	0	0	1,010	0	0	360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77	0	0	0	4.03E+06	150.90
May-42	0	0	0	0	0	0	1,042	0	0	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	0	0	0	4.04E+06	150.91
Jun-42	38,395	0	131,726	0	0	0	278	0	0	360	15,900	23,178	0	0	11,985	0	91,589	0	0	0	0	0	2,455,685	0	102,918	0	0	0	0	0	0	0	0	0	120	10,655	26	0	0	0	6.90E+06	153.29
Jul-42	4,502	0	57,627	0	0	0	0	0	0	372	1,865	2,718	0	0	1,405	0	9,527	0	0	0	0	0	47,778	0	11,934	0	0	0	0	0	0	0	0	0	303	128,822	0	0	0	0	6.91E+06	153.29
Aug-42	6,285	0	64,146	0	0	0	0	0	0	372	2,603	3,794	0	0	1,962	0	13,766	0	0	0	0	0	150,224	0	16,615	0	0	0	0	0	0	0	0	0	303	130,508	0	0	0	0	7.04E+06	153.39
Sep-42	12,302	0	60,741	0	0	0	0	0	0	61	5,095	7,426	0	0	3,840	0	28,902	0	0	0	0	0	703,121	0	32,359	0	0	665,990	0	0	0	0	0	0	208	50,946	21	0	0	0	7.17E+06	153.50
Oct-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21,873	0	71	0	0	21,937	0	0	0	0	0	0	184	0	42	0	0	0	7.17E+06	153.50
Nov-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	170	0	55	0	0	0	7.17E+06	153.50
Dec-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	170	0	68	0	0	0	7.17E+06	153.50
Jan-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	165.11	0	76.27974	0	0	0	7.17E+06	153.4993
Feb-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	145.9035	0	75.14385	0	0	0	7.17E+06	153.4991
Mar-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	158.5398	0	88.39511	0	0	0	7.17E+06	153.4989
Apr-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150.5983	0	90.29189	0	0	0	7.17E+06	153.4987
May-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	153.2066	0	96.87977	0	0	0	7.17E+06	153.4985
Jun-43	38,395	0	141791	0	0	0	0	0	0	15899.96	23177.66	0	0	11984.51	0	91588.53	0	0	0	0	0	2.48E+06	0	102018	0	0	2.89E+06	0	0	0	0	0	0	145.9708	11468.94	97.11279	0	0	0	7.17E+06	153.5
Jul-43	4,502	0	58316.67	0	0	0	0	0	0	1864.521	2717.945	0	0	1405.373	0	9527.095	0	0	0	0	0	120485.5	0	12108.69	0	0	80312.6	0	0	0	0	0	0	148.6494	130363.7	103.3078	0	0	0	7.17E+06	153.5
Aug-43	6,285	0	64722.27	0	0	0	0	0	0	2602.726	3794.041	0	0	1961.792	0	13766.02	0	0	0	0	0	144003.1	0	16588.96	0	0	121791.2	0	0	0	0	0	0	146.6922	131680.5	105.5675	0	0	0	7.17E+06	153.5
Sep-43	12,302	0	60773.29	0	0	0	0	0	0	5094.588	7426.474	0	0	3840.02	0	28902.44	0	0	0	0	0	685851.5	0	32325.06	0	0	785298.3	0	0	0	0	0	0	140.1	50973.08	104.306	0	0	0	7.17E+06	153.5
Oct-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21873.25	0	70.54922	0	0	21935.65	0	0	0	0	0	0	142.86	0	109.9756	0	0	0	7.17E+06	153.4998
Nov-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136.6633	0	108.0166	0	0	0	7.17E+06	153.4996
Dec-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	139.7063	0	112.9954	0	0	0	7.17E+06	153.4994
Jan-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	138.1689	0	114.3963	0	0	0	7.17E+06	153.4992
Feb-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	127.8631	0	108.2841	0	0	0	7.17E+06	153.499
Mar-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	135.2088	0	117.0864	0	0	0	7.17E+06	153.4989
Apr-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129.6655	0	114.2536	0	0	0	7.17E+06	153.4987
May-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	132.8719	0	118.8919	0	0	0	7.17E+06	153.4985
Jun-44	38,403	0	141819.5	0	0	0	0	0	0	15903.25	23182.45	0	0	11986.99	0	91607.5	0	0	0	0	0	2.48E+06	0	102038.9	0	0	2.90E+06	0	0	0	0	0	0	127.506	11468.94	115.8598	0	0	0	7.17E+06	153.5
Jul-44	4,502	0	58316.67	0	0	0	0	0	0	1864.521	2717.945	0	0	1405.373	0	9527.095	0	0	0	0	0	120501.7	0	12108.74	0	0	80329.67	0	0	0	0	0	0	130.6406	130363.7	120.5516	0	0	0	7.17E+06	153.5
Aug-44	6,285	0	64722.27	0	0	0	0	0	0	2602.726	3794.041	0	0	1961.792	0	13766.02	0	0	0	0	0	144003.1	0	16588.96	0	0	121792.6	0	0	0	0	0	0	129.5056	131680.5	121.3958	0	0	0	7.17E+06	153.5
Sep-44	12,302	0	60773.29	0	0	0	0	0	0	5094.588	7426.474	0	0	3840.02	0	28902.44	0	0	0	0	0	685851.5	0	32325.06	0	0	785300.2	0	0	0	0	0	0	124.2479	50973.08	118.2831	0	0	0	7.17E+06	153.5
Oct-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21873.25	0	70.54922	0	0	21935.72	0

WHALE TAIL LAKE (NORTH BASIN) & WHALE TAIL ATTENUATION POND

	INFLOWS																										OUTFLOWS											STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Clean Area Runoff	Lakebed Sediment Runoff	Direct Precipitation	Whale Tail WRSF	Groundwater to Attn Pond	GW to WTN	Seepage Thru Dike	Dust Control	Truck Shop	Camp Biodisk	Industrial Sector	Camp Sector Runoff	Ore Stockpile	Natural WT Pit Runoff	NPAG to Attn Pond	Northeast Sector	East Sector Runoff	North Sector / Sump	Whale Tail Lake (South Basin)	IVR WRSF	IVR Pit	IVR Pit Sector Runoff (Closure)	Whale Tail Pit	Whale Tail Pit Sector Runoff	Pumped from WTS to WTN	Overburden	Lake A16 (Mammoth Lake)	Dewatering to WT Lake (South) bypass C-WTP	Dewatering to WT Lake (South) through C-WTP	O-WTP	STP (Brackish)	IVR Attenuation Pond	Groundwater	Evaporation	Drawdown to WT Pit	WTN to Pits	GSP1	Overflow to WT WRSF	Volume	Water Level
Apr-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93.40611	0	113.3094	0	0	0	7.17E+06	153.4989
May-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95.88607	0	116.6021	0	0	0	7.17E+06	153.4987
Jun-48	38,403	0	141819.5	0	0	0	0	0	0	0	15903.25	23182.45	0	0	11986.99	0	91607.5	0	0	0	0	2.98E+06	0	102038.9	0	0	2.90E+06	0	0	0	0	0	92.2406	11468.94	112.3504	0	0	0	7.17E+06	153.5
Jul-48	4,502	0	58316.67	0	0	0	0	0	0	0	1864.521	2717.945	0	0	1405.373	0	9527.095	0	0	0	0	120501.7	0	12108.74	0	0	80370.53	0	0	0	0	0	94.74541	130363.7	115.5885	0	0	0	7.17E+06	153.5
Aug-48	6,285	0	64722.27	0	0	0	0	0	0	0	2602.726	3794.041	0	0	1961.792	0	13766.02	0	0	0	0	144003.1	0	16588.96	0	0	121834.2	0	0	0	0	0	94.16568	131680.5	115.0728	0	0	0	7.17E+06	153.5
Sep-48	12,302	0	60773.29	0	0	0	0	0	0	0	5094.588	7426.474	0	0	3840.02	0	28902.44	0	0	0	0	685851.5	0	32325.06	0	0	785341.3	0	0	0	0	0	90.5764	50973.08	110.8701	0	0	0	7.17E+06	153.5
Oct-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21873.25	0	70.54922	0	0	21937.11	0	0	0	0	0	93.0264	0	114.0594	0	0	0	7.17E+06	153.4998
Nov-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89.47404	0	109.8895	0	0	0	7.17E+06	153.4997
Dec-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	91.88662	0	113.0455	0	0	0	7.17E+06	153.4995
Jan-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	91.30739	0	112.5303	0	0	0	7.17E+06	153.4994
Feb-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81.97333	0	101.1974	0	0	0	7.17E+06	153.4992
Mar-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90.20498	0	111.5496	0	0	0	7.17E+06	153.4991
Apr-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86.74363	0	107.4606	0	0	0	7.17E+06	153.4989
May-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89.09515	0	110.5422	0	0	0	7.17E+06	153.4988
Jun-49	38,395	0	141791	0	0	0	0	0	0	0	15899.96	23177.66	0	0	11984.51	0	91588.53	0	0	0	0	2.48E+06	0	102018	0	0	2.90E+06	0	0	0	0	0	85.74416	11468.94	106.5018	0	0	0	7.17E+06	153.5
Jul-49	4,502	0	58316.67	0	0	0	0	0	0	0	1864.521	2717.945	0	0	1405.373	0	9527.095	0	0	0	0	120485.5	0	12108.69	0	0	80366.88	0	0	0	0	0	88.11013	130363.7	109.5616	0	0	0	7.17E+06	153.5
Aug-49	6,285	0	64722.27	0	0	0	0	0	0	0	2602.726	3794.041	0	0	1961.792	0	13766.02	0	0	0	0	144003.1	0	16588.96	0	0	121846.8	0	0	0	0	0	87.60945	131680.5	109.063	0	0	0	7.17E+06	153.5
Sep-49	12,302	0	60773.29	0	0	0	0	0	0	0	5094.588	7426.474	0	0	3840.02	0	28902.44	0	0	0	0	685851.5	0	32325.06	0	0	785353.3	0	0	0	0	0	84.30689	50973.08	105.0703	0	0	0	7.17E+06	153.5
Oct-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21873.25	0	70.54922	0	0	21937.51	0	0	0	0	0	86.62553	0	108.083	0	0	0	7.17E+06	153.4998
Nov-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83.35485	0	104.1221	0	0	0	7.17E+06	153.4997
Dec-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85.64117	0	107.1026	0	0	0	7.17E+06	153.4996
Jan-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85.14092	0	106.6044	0	0	0	7.17E+06	153.4994
Feb-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76.4715	0	95.85957	0	0	0	7.17E+06	153.4993
Mar-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84.18884	0	105.6561	0	0	0	7.17E+06	153.4991
Apr-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80.99677	0	101.7735	0	0	0	7.17E+06	153.499
May-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83.22446	0	104.689	0	0	0	7.17E+06	153.4988
Jun-50	38,395	0	141791	0	0	0	0	0	0	0	15899.96	23177.66	0	0	11984.51	0	91588.53	0	0	0	0	2.48E+06	0	102018	0	0	2.90E+06	0	0	0	0	0	80.11319	11468.94	100.8705	0	0	0	7.17E+06	153.5
Jul-50	4,502	0	58316.67	0	0	0	0	0	0	0	1864.521	2717.945	0	0	1405.373	0	9527.095	0	0	0	0	120485.5	0	12108.69	0	0	80378.44	0	0	0	0	0	82.34328	130363.7	103.7771	0	0	0	7.17E+06	153.5
Aug-50	6,285	0	64722.27	0	0	0	0	0	0	0	2602.726	3794.041	0	0	1961.792	0	13766.02	0	0	0	0	144003.1	0	16588.96	0	0	121858.3	0	0	0	0	0	81.8953	131680.5	103.3134	0	0	0	7.17E+06	153.5
Sep-50	12,302	0	60773.29	0	0	0	0	0	0	0	5094.588	7426.474	0	0	3840.02	0	28902.44	0	0	0	0	685851.5	0	32325.06	0	0	785364.4	0	0	0	0	0	78.82722	50973.08	99.53947	0	0	0	7.17E+06	153.5
Oct-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21873.25	0	70.54922	0	0	21937.87	0	0	0	0	0	81.01495	0	102.4022	0	0	0	7.17E+06	153.4999
Nov-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77.9754	0	98.65779	0	0	0	7.17E+06	153.4997
Dec-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77.55622	0	98.22392	0	0	0	7.17E+06	153.4996

IVR PIT

	INFLOWS												OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Drilling Water	Groundwater	Pitwall Runoff	Direct Rainfall Runoff	Direct Snow Runoff	Rainfall Runoff	Snow Runoff	Whale Tail WRSF Runoff	IVR Diversion	Whale Tail Lake (South Basin) Drawdown	Whale Tail Lake (South Basin) Overflow	WT WRSF	Whale Tail Attenuation Pond	IVR Attenuation Pond	Evaporation	Drill Water Loss	Overflow to WT Pit	Overflow to WT North	Volume	Water Level
Jan-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Feb-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Mar-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Apr-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
May-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Jun-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Jul-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Aug-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Sep-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Oct-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Nov-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Dec-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Jan-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Feb-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Mar-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Apr-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
May-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Jun-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Jul-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Aug-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Sep-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Oct-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Nov-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Dec-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Jan-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Feb-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Mar-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Apr-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
May-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	0
Jun-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	130.2
Jul-20	2,976	0	973	24	0	13,741	0	0	0	0	0	0	16,222	0	53	1,439	0	0	1,000	130.2
Aug-20	2,976	0	1,359	26	0	19,182	0	0	0	0	0	0	22,050	0	54	1,439	0	0	1,000	130.2
Sep-20	2,880	0	2,659	25	0	37,546	0	0	0	0	0	0	41,742	0	21	1,348	0	0	1,000	130.2
Oct-20	2,976	0	0	0	0	0	0	0	0	0	0	0	1,537	0	0	1,439	0	0	1,000	130.2
Nov-20	2,880	0	0	0	0	0	0	0	0	0	0	0	1,532	0	0	1,348	0	0	1,000	130.2
Dec-20	2,976	0	0	0	0	0	0	0	0	0	0	0	1,537	0	0	1,439	0	0	1,000	122.1
Jan-21	2,976	0	0	0	0	0	0	0	0	0	0	0	1,222	0	0	1,754	0	0	1,000	122.1
Feb-21	2,688	0	0	0	0	0	0	0	0	0	0	0	1,257	0	0	1,431	0	0	1,000	122.1
Mar-21	2,976	0	0	0	0	0	0	0	0	0	0	0	1,222	0	0	1,754	0	0	1,000	122.1
Apr-21	2,880	0	0	0	0	0	0	0	0	0	0	0	1,237	0	0	1,643	0	0	1,000	122.1
May-21	2,976	0	0	0	0	0	0	0	0	0	0	0	1,222	0	0	1,754	0	0	1,000	122.1
Jun-21	2,880	0	18,641	38	73	32,516	67,031	77	0	0	0	0	119,605	0	9	1,643	0	0	1,000	122.1
Jul-21	2,976	0	2,186	46	0	11,518	0	7	0	0	0	0	14,876	0	102	1,754	0	0	1,000	122.1
Aug-21	2,976	0	3,051	51	0	15,857	0	8	0	0	0	0	20,086	0	103	1,754	0	0	1,000	122.1
Sep-21	2,880	0	5,973	47	0	30,614	0	3	0	0	0	0	37,835	0	40	1,643	0	0	1,000	122.1
Oct-21	2,976	0	0	0	0	0	0	0	0	0	0	0	1,222	0	0	1,754	0	0	1,000	122.1
Nov-21	2,880	0	0	0	0	0	0	0	0	0	0	0	1,237	0	0	1,643	0	0	1,000	122.1
Dec-21	2,976	0	0	0	0	0	0	0	0	0	0	0	1,222	0	0	1,754	0	0	1,000	74.3
Jan-22	2,976	0	0	0	0	0	0	0	0	0	0	0	1,222	0	0	1,754	0	0	1,000	74.3
Feb-22	2,688	0	0	0	0	0	0	0	0	0	0	0	1,257	0	0	1,431	0	0	1,000	74.3
Mar-22	2,976	0	0	0	0	0	0	0	0	0	0	0	1,222	0	0	1,754	0	0	1,000	74.3
Apr-22	2,880	0	0	0	0	0	0	0	0	0	0	0	1,237	0	0	1,643	0	0	1,000	74.3
May-22	2,976	0	0	0	0	0	0	0	0	0	0	0	1,222	0	0	1,754	0	0	1,000	74.3
Jun-22	2,880	0	37,932	20	38	23,413	48,265	170	0	0	0	0	0	111,071	5	1,643	0	0	1,000	74.3
Jul-22	2,976	0	4,448	24	0	8,405	0	12	0	0	0	0	0	14,058	54	1,754	0	0	1,000	74.3
Aug-22	2,976	0	6,209	27	0	11,733	0	12	0	0	0	0	0	19,149	54	1,754	0	0	1,000	74.3

IVR PIT

	INFLOWS												OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Drilling Water	Groundwater	Pitwall Runoff	Direct Rainfall Runoff	Direct Snow Runoff	Rainfall Runoff	Snow Runoff	Whale Tail WRSF Runoff	IVR Diversion	Whale Tail Lake (South Basin) Drawdown	Whale Tail Lake (South Basin) Overflow	WT WRSF	Whale Tail Attenuation Pond	IVR Attenuation Pond	Evaporation	Drill Water Loss	Overflow to WT Pit	Overflow to WT North	Volume	Water Level
Sep-22	2,880	0	12,154	25	0	22,967	0	4	0	0	0	0	0	36,366	21	1,643	0	0	1,000	74.3
Oct-22	2,976	0	0	0	0	0	0	0	0	0	0	0	0	1,222	0	1,754	0	0	1,000	74.3
Nov-22	2,880	0	0	0	0	0	0	0	0	0	0	0	0	1,237	0	1,643	0	0	1,000	74.3
Dec-22	2,976	0	0	0	0	0	0	0	0	0	0	0	0	1,222	0	1,754	0	0	1,000	58.6
Jan-23	2,976	0	0	0	0	0	0	0	0	0	0	0	0	1,222	0	1,754	0	0	1,000	58.6
Feb-23	2,688	0	0	0	0	0	0	0	0	0	0	0	0	1,257	0	1,431	0	0	1,000	58.6
Mar-23	2,976	0	0	0	0	0	0	0	0	0	0	0	0	1,222	0	1,754	0	0	1,000	58.6
Apr-23	2,880	0	0	0	0	0	0	0	0	0	0	0	0	1,237	0	1,643	0	0	1,000	58.6
May-23	2,976	0	0	0	0	0	0	0	0	0	0	0	0	1,222	0	1,754	0	0	1,000	58.6
Jun-23	2,880	0	37,935	19	36	23,413	48,265	170	0	0	0	0	0	111,071	4	1,643	0	0	1,000	58.6
Jul-23	2,976	0	4,449	23	0	8,405	0	12	0	0	0	0	0	14,060	51	1,754	0	0	1,000	58.6
Aug-23	2,976	0	6,210	25	0	11,733	0	12	0	0	0	0	0	19,151	51	1,754	0	0	1,000	58.6
Sep-23	2,880	0	12,155	24	0	22,967	0	4	0	0	0	0	0	36,367	20	1,643	0	0	1,000	58.6
Oct-23	2,976	0	0	0	0	0	0	0	0	0	0	0	0	1,222	0	1,754	0	0	1,000	58.6
Nov-23	2,880	0	0	0	0	0	0	0	0	0	0	0	0	1,237	0	1,643	0	0	1,000	58.6
Dec-23	2,976	0	0	0	0	0	0	0	0	0	0	0	0	1,222	0	1,754	0	0	1,000	58.6
Jan-24	2,976	0	0	0	0	0	0	0	0	0	0	0	0	1,222	0	1,754	0	0	1,000	58.6
Feb-24	2,784	0	0	0	0	0	0	0	0	0	0	0	0	1,249	0	1,535	0	0	1,000	58.6
Mar-24	2,976	0	0	0	0	0	0	0	0	0	0	0	0	1,222	0	1,754	0	0	1,000	58.6
Apr-24	2,880	0	0	0	0	0	0	0	0	0	0	0	0	1,237	0	1,643	0	0	1,000	58.6
May-24	2,976	0	0	0	0	0	0	0	0	0	0	0	0	1,222	0	1,754	0	0	1,000	58.6
Jun-24	2,880	0	37,943	19	36	23,413	48,280	170	0	0	0	0	0	111,094	4	1,643	0	0	1,000	58.6
Jul-24	2,976	0	4,449	23	0	8,405	0	12	0	0	0	0	0	14,060	51	1,754	0	0	1,000	58.6
Aug-24	2,976	0	6,210	25	0	11,733	0	12	0	0	0	0	0	19,151	51	1,754	0	0	1,000	58.6
Sep-24	2,880	0	12,155	24	0	22,967	0	4	0	0	0	0	0	36,367	20	1,643	0	0	1,000	58.6
Oct-24	2,976	0	0	0	0	0	0	0	0	0	0	0	0	1,222	0	1,754	0	0	1,000	58.6
Nov-24	2,880	0	0	0	0	0	0	0	0	0	0	0	0	1,237	0	1,643	0	0	1,000	58.6
Dec-24	2,976	0	0	0	0	0	0	0	0	0	0	0	0	1,222	0	1,754	0	0	1,000	46.3
Jan-25	2,976	0	0	0	0	0	0	0	0	0	0	0	0	1,222	0	1,754	0	0	1,000	46.3
Feb-25	2,688	0	0	0	0	0	0	0	0	0	0	0	0	1,257	0	1,431	0	0	1,000	46.3
Mar-25	2,976	0	0	0	0	0	0	0	0	0	0	0	0	1,222	0	1,754	0	0	1,000	46.3
Apr-25	2,880	0	0	0	0	0	0	0	0	0	0	0	0	1,237	0	1,643	0	0	1,000	46.3
May-25	2,976	0	0	0	0	0	0	0	0	0	0	0	0	1,222	0	1,754	0	0	1,000	46.3
Jun-25	2,880	0	37,962	10	18	23,413	48,265	170	0	0	0	0	0	111,073	2	1,643	0	0	1,000	46.3
Jul-25	2,976	0	4,452	11	0	8,405	0	12	0	0	0	0	0	14,077	26	1,754	0	0	1,000	46.3
Aug-25	2,976	0	6,214	13	0	11,733	0	12	0	0	0	0	0	19,904	26	1,018	0	0	1,000	46.3
Sep-25	2,880	0	12,164	12	0	22,967	0	4	0	0	0	0	0	38,016	10	0	0	0	1,000	46.3
Oct-25	2,976	0	0	0	0	0	0	0	0	0	0	0	0	2,976	0	0	0	0	1,000	46.3
Nov-25	2,880	0	0	0	0	0	0	0	0	0	0	0	0	2,880	0	0	0	0	1,000	46.3
Dec-25	2,976	0	0	0	0	0	0	0	0	0	0	0	0	2,976	0	0	0	0	1,000	46.3
Jan-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	46.3
Feb-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	46.3
Mar-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	46.3
Apr-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	46.3
May-26	0	0	0	0	0	0	0	0	0	526,637	0	0	0	0	0	0	0	0	527,637	79.8
Jun-26	0	0	31,143	2,426	4,610	23,413	48,265	170	72,990	1,350,000	0	25,316	0	0	569	0	0	0	2,085,400	105.2
Jul-26	0	0	3,010	5,207	0	8,405	0	12	8,559	1,395,000	0	2,923	0	0	11,641	0	0	0	3,496,877	117.6
Aug-26	0	0	3,574	7,579	0	11,733	0	12	11,948	1,395,000	0	4,053	0	0	15,420	0	0	0	4,915,357	126.9
Sep-26	0	0	5,830	8,719	0	22,967	0	4	23,387	1,350,000	0	7,818	0	0	7,313	0	0	0	6,326,769	134.1
Oct-26	0	0	0	0	0	0	0	0	0	1,395,000	0	0	0	0	0	0	0	0	7,721,769	140.2
Nov-26	0	0	0	0	0	0	0	0	0	45,000	0	0	0	0	0	0	0	0	7,766,769	140.4
Dec-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,766,769	140.4
Jan-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,766,769	140.4
Feb-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,766,769	140.4
Mar-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,766,769	140.4
Apr-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,766,769	140.4

IVR PIT

	INFLOWS												OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Drilling Water	Groundwater	Pitwall Runoff	Direct Rainfall Runoff	Direct Snow Runoff	Rainfall Runoff	Snow Runoff	Whale Tail WRSF Runoff	IVR Diversion	Whale Tail Lake (South Basin) Drawdown	Whale Tail Lake (South Basin) Overflow	WT WRSF	Whale Tail Attenuation Pond	IVR Attenuation Pond	Evaporation	Drill Water Loss	Overflow to WT Pit	Overflow to WT North	Volume	Water Level
May-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,766,769	140.4
Jun-27	0	0	10,127	9,873	18,762	23,413	48,265	170	72,990	0	2,087,479	25,316	0	0	2,316	0	0	0	10,060,850	149.1
Jul-27	0	0	729	13,431	0	8,405	0	12	8,559	0	54,907	2,923	0	0	30,024	0	12,284	0	10,107,510	149.3
Aug-27	0	0	1,017	14,907	0	11,733	0	12	11,948	0	102,179	4,053	0	0	30,330	0	115,520	0	10,107,510	149.3
Sep-27	0	0	1,990	13,998	0	22,967	0	4	23,387	0	621,391	7,818	0	0	11,740	0	679,815	0	10,107,510	149.3
Oct-27	0	0	0	0	0	0	0	0	0	0	21,305	0	0	0	0	0	21,305	0	10,107,510	149.3
Nov-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Dec-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jan-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Feb-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Mar-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Apr-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
May-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jun-28	0	0	6,213	11,260	21,405	23,413	48,280	170	73,006	0	2,165,184	25,321	0	0	2,642	0	2,371,608	0	10,107,510	149.3
Jul-28	0	0	728	13,432	0	8,405	0	12	8,559	0	85,458	2,923	0	0	30,026	0	89,492	0	10,107,510	149.3
Aug-28	0	0	1,017	14,907	0	11,733	0	12	11,948	0	102,087	4,053	0	0	30,330	0	115,428	0	10,107,510	149.3
Sep-28	0	0	1,990	13,998	0	22,967	0	4	23,387	0	621,317	7,818	0	0	11,740	0	679,740	0	10,107,510	149.3
Oct-28	0	0	0	0	0	0	0	0	0	0	21,303	0	0	0	0	0	21,303	0	10,107,510	149.3
Nov-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Dec-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jan-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Feb-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Mar-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Apr-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
May-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jun-29	0	0	6,211	11,260	21,398	23,413	48,265	170	72,990	0	2,164,702	25,316	0	0	2,642	0	2,371,084	0	10,107,510	149.3
Jul-29	0	0	728	13,432	0	8,405	0	12	8,559	0	85,426	2,923	0	0	30,026	0	89,461	0	10,107,510	149.3
Aug-29	0	0	1,017	14,907	0	11,733	0	12	11,948	0	102,072	4,053	0	0	30,330	0	115,413	0	10,107,510	149.3
Sep-29	0	0	1,990	13,998	0	22,967	0	4	23,387	0	621,303	7,818	0	0	11,740	0	679,727	0	10,107,510	149.3
Oct-29	0	0	0	0	0	0	0	0	0	0	21,302	0	0	0	0	0	21,302	0	10,107,510	149.3
Nov-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Dec-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jan-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Feb-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Mar-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Apr-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
May-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jun-30	0	0	6,211	11,260	21,398	23,413	48,265	170	72,990	0	2,164,692	25,316	0	0	2,642	0	2,371,074	0	10,107,510	149.3
Jul-30	0	0	728	13,432	0	8,405	0	12	8,559	0	85,417	2,923	0	0	30,026	0	89,451	0	10,107,510	149.3
Aug-30	0	0	1,017	14,907	0	11,733	0	12	11,948	0	102,062	4,053	0	0	30,330	0	115,403	0	10,107,510	149.3
Sep-30	0	0	1,990	13,998	0	22,967	0	4	23,387	0	621,294	7,818	0	0	11,740	0	679,717	0	10,107,510	149.3
Oct-30	0	0	0	0	0	0	0	0	0	0	21,302	0	0	0	0	0	21,302	0	10,107,510	149.3
Nov-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Dec-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jan-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Feb-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Mar-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Apr-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
May-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jun-31	0	0	6,211	11,260	21,398	23,413	48,265	170	72,990	0	2,164,682	25,316	0	0	2,642	0	2,371,064	0	10,107,510	149.3
Jul-31	0	0	728	13,432	0	8,405	0	12	8,559	0	85,405	2,923	0	0	30,026	0	89,440	0	10,107,510	149.3
Aug-31	0	0	1,017	14,907	0	11,733	0	12	11,948	0	102,051	4,053	0	0	30,330	0	115,392	0	10,107,510	149.3
Sep-31	0	0	1,990	13,998	0	22,967	0	4	23,387	0	621,282	7,818	0	0	11,740	0	679,706	0	10,107,510	149.3
Oct-31	0	0	0	0	0	0	0	0	0	0	21,302	0	0	0	0	0	21,302	0	10,107,510	149.3
Nov-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Dec-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3

IVR PIT

	INFLOWS												OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Drilling Water	Groundwater	Pitwall Runoff	Direct Rainfall Runoff	Direct Snow Runoff	Rainfall Runoff	Snow Runoff	Whale Tail WRSF Runoff	IVR Diversion	Whale Tail Lake (South Basin) Drawdown	Whale Tail Lake (South Basin) Overflow	WT WRSF	Whale Tail Attenuation Pond	IVR Attenuation Pond	Evaporation	Drill Water Loss	Overflow to WT Pit	Overflow to WT North	Volume	Water Level
Jan-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Feb-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Mar-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Apr-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
May-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jun-32	0	0	6,213	11,260	21,405	23,413	48,280	170	73,006	0	2,165,126	25,321	0	0	2,642	0	2,371,551	0	10,107,510	149.3
Jul-32	0	0	728	13,432	0	8,405	0	12	8,559	0	85,407	2,923	0	0	30,026	0	89,442	0	10,107,510	149.3
Aug-32	0	0	1,017	14,907	0	11,733	0	12	11,948	0	102,037	4,053	0	0	30,330	0	115,378	0	10,107,510	149.3
Sep-32	0	0	1,990	13,998	0	22,967	0	4	23,387	0	621,269	7,818	0	0	11,740	0	679,692	0	10,107,510	149.3
Oct-32	0	0	0	0	0	0	0	0	0	0	21,301	0	0	0	0	0	21,301	0	10,107,510	149.3
Nov-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Dec-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jan-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Feb-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Mar-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Apr-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
May-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jun-33	0	0	6,211	11,260	21,398	23,413	48,265	170	72,990	0	2,164,657	25,316	0	0	2,642	0	2,371,039	0	10,107,510	149.3
Jul-33	0	0	728	13,432	0	8,405	0	12	8,559	0	85,376	2,923	0	0	30,026	0	89,410	0	10,107,510	149.3
Aug-33	0	0	1,017	14,907	0	11,733	0	12	11,948	0	102,022	4,053	0	0	30,330	0	115,363	0	10,107,510	149.3
Sep-33	0	0	1,990	13,998	0	22,967	0	4	23,387	0	621,254	7,818	0	0	11,740	0	679,677	0	10,107,510	149.3
Oct-33	0	0	0	0	0	0	0	0	0	0	21,301	0	0	0	0	0	21,301	0	10,107,510	149.3
Nov-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Dec-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jan-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Feb-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Mar-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Apr-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
May-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jun-34	0	0	6,211	11,260	21,398	23,413	48,265	170	72,990	0	2,164,643	25,316	0	0	2,642	0	2,371,025	0	10,107,510	149.3
Jul-34	0	0	728	13,432	0	8,405	0	12	8,559	0	85,360	2,923	0	0	30,026	0	89,394	0	10,107,510	149.3
Aug-34	0	0	1,017	14,907	0	11,733	0	12	11,948	0	102,006	4,053	0	0	30,330	0	115,347	0	10,107,510	149.3
Sep-34	0	0	1,990	13,998	0	22,967	0	4	23,387	0	621,238	7,818	0	0	11,740	0	679,662	0	10,107,510	149.3
Oct-34	0	0	0	0	0	0	0	0	0	0	21,300	0	0	0	0	0	21,300	0	10,107,510	149.3
Nov-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Dec-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jan-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Feb-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Mar-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Apr-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
May-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jun-35	0	0	6,211	11,260	21,398	23,413	48,265	170	72,990	0	2,164,620	25,316	0	0	2,642	0	2,371,002	0	10,107,510	149.3
Jul-35	0	0	728	13,432	0	8,405	0	12	8,559	0	85,325	2,923	0	0	30,026	0	89,360	0	10,107,510	149.3
Aug-35	0	0	1,017	14,907	0	11,733	0	12	11,948	0	101,970	4,053	0	0	30,330	0	115,311	0	10,107,510	149.3
Sep-35	0	0	1,990	13,998	0	22,967	0	4	23,387	0	621,201	7,818	0	0	11,740	0	679,625	0	10,107,510	149.3
Oct-35	0	0	0	0	0	0	0	0	0	0	21,299	0	0	0	0	0	21,299	0	10,107,510	149.3
Nov-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Dec-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jan-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Feb-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Mar-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Apr-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
May-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jun-36	0	0	6,213	11,260	21,405	23,413	48,280	170	73,006	0	2,165,011	25,321	0	0	2,642	0	2,371,436	0	10,107,510	149.3
Jul-36	0	0	728	13,432	0	8,405	0	12	8,559	0	85,212	2,923	0	0	30,026	0	89,247	0	10,107,510	149.3
Aug-36	0	0	1,017	14,907	0	11,733	0	12	11,948	0	101,837	4,053	0	0	30,330	0	115,178	0	10,107,510	149.3

IVR PIT

	INFLOWS												OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Drilling Water	Groundwater	Pitwall Runoff	Direct Rainfall Runoff	Direct Snow Runoff	Rainfall Runoff	Snow Runoff	Whale Tail WRSF Runoff	IVR Diversion	Whale Tail Lake (South Basin) Drawdown	Whale Tail Lake (South Basin) Overflow	WT WRSF	Whale Tail Attenuation Pond	IVR Attenuation Pond	Evaporation	Drill Water Loss	Overflow to WT Pit	Overflow to WT North	Volume	Water Level
Sep-36	0	0	1,990	13,998	0	22,967	0	4	23,387	0	621,056	7,818	0	0	11,740	0	679,480	0	10,107,510	149.3
Oct-36	0	0	0	0	0	0	0	0	0	0	21,294	0	0	0	0	0	21,294	0	10,107,510	149.3
Nov-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Dec-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jan-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Feb-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Mar-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Apr-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
May-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jun-37	0	0	6,211	11,260	21,398	23,413	48,265	170	72,990	0	2,164,430	25,316	0	0	2,642	0	2,370,811	0	10,107,510	149.3
Jul-37	0	0	728	13,432	0	8,405	0	12	8,559	0	85,132	2,923	0	0	30,026	0	89,166	0	10,107,510	149.3
Aug-37	0	0	1,017	14,907	0	11,733	0	12	11,948	0	101,778	4,053	0	0	30,330	0	115,119	0	10,107,510	149.3
Sep-37	0	0	1,990	13,998	0	22,967	0	4	23,387	0	621,021	7,818	0	0	11,740	0	679,444	0	10,107,510	149.3
Oct-37	0	0	0	0	0	0	0	0	0	0	21,293	0	0	0	0	0	21,293	0	10,107,510	149.3
Nov-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Dec-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jan-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Feb-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Mar-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Apr-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
May-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jun-38	0	0	6,211	11,260	21,398	23,413	48,265	170	72,990	0	2,164,440	25,316	0	0	2,642	0	2,370,822	0	10,107,510	149.3
Jul-38	0	0	728	13,432	0	8,405	0	12	8,559	0	85,173	2,923	0	0	30,026	0	89,208	0	10,107,510	149.3
Aug-38	0	0	1,017	14,907	0	11,733	0	12	11,948	0	101,822	4,053	0	0	30,330	0	115,163	0	10,107,510	149.3
Sep-38	0	0	1,990	13,998	0	22,967	0	4	23,387	0	621,074	7,818	0	0	11,740	0	679,497	0	10,107,510	149.3
Oct-38	0	0	0	0	0	0	0	0	0	0	21,295	0	0	0	0	0	21,295	0	10,107,510	149.3
Nov-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Dec-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jan-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Feb-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Mar-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Apr-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
May-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jun-39	0	0	6,211	11,260	21,398	23,413	48,265	170	72,990	0	2,164,574	25,316	0	0	2,642	0	2,370,956	0	10,107,510	149.3
Jul-39	0	0	728	13,432	0	8,405	0	12	8,559	0	85,585	2,923	0	0	30,026	0	89,619	0	10,107,510	149.3
Aug-39	0	0	1,017	14,907	0	11,733	0	12	11,948	0	102,254	4,053	0	0	30,330	0	115,595	0	10,107,510	149.3
Sep-39	0	0	1,990	13,998	0	22,967	0	4	23,387	0	621,585	7,818	0	0	11,740	0	680,009	0	10,107,510	149.3
Oct-39	0	0	0	0	0	0	0	0	0	0	21,315	0	0	0	0	0	21,315	0	10,107,510	149.3
Nov-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Dec-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jan-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Feb-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Mar-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Apr-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
May-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jun-40	0	0	6,213	11,260	21,405	23,413	48,280	170	73,006	0	2,166,371	25,321	0	0	2,642	0	2,372,796	0	10,107,510	149.3
Jul-40	0	0	728	13,432	0	8,405	0	12	8,559	0	91,578	2,923	0	0	30,026	0	95,612	0	10,107,510	149.3
Aug-40	0	0	1,017	14,907	0	11,733	0	12	11,948	0	108,627	4,053	0	0	30,330	0	121,968	0	10,107,510	149.3
Sep-40	0	0	1,990	13,998	0	22,967	0	4	23,387	0	629,695	7,818	0	0	11,740	0	688,119	0	10,107,510	149.3
Oct-40	0	0	0	0	0	0	0	0	0	0	21,646	0	0	0	0	0	21,646	0	10,107,510	149.3
Nov-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Dec-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jan-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Feb-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Mar-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Apr-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3

IVR PIT

	INFLOWS												OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Drilling Water	Groundwater	Pitwall Runoff	Direct Rainfall Runoff	Direct Snow Runoff	Rainfall Runoff	Snow Runoff	Whale Tail WRSF Runoff	IVR Diversion	Whale Tail Lake (South Basin) Drawdown	Whale Tail Lake (South Basin) Overflow	WT WRSF	Whale Tail Attenuation Pond	IVR Attenuation Pond	Evaporation	Drill Water Loss	Overflow to WT Pit	Overflow to WT North	Volume	Water Level
May-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jun-41	0	0	6,147	8,374	15,913	23,413	48,265	170	72,990	0	2,254,396	25,316	0	0	1,964	0	38,846	1,770,905	10,107,510	149.3
Jul-41	0	0	668	0	0	8,405	0	12	8,559	0	25,541	2,923	0	0	0	0	0	0	10,107,510	149.3
Aug-41	0	0	925	0	0	11,733	0	12	11,948	0	119,640	4,053	0	0	0	0	0	0	10,107,510	149.3
Sep-41	0	0	1,716	0	0	22,967	0	4	23,387	0	652,216	7,818	0	0	0	0	0	0	10,107,510	149.3
Oct-41	0	0	0	0	0	0	0	0	0	0	2,824	0	0	0	0	0	0	0	10,107,510	149.3
Nov-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Dec-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jan-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Feb-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Mar-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Apr-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
May-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jun-42	0	0	4,296	0	0	23,413	48,265	170	72,990	0	2,281,260	25,316	0	0	0	0	0	0	10,107,510	149.3
Jul-42	0	0	406	0	0	8,405	0	12	8,559	0	48,884	2,923	0	0	0	0	0	0	10,107,510	149.3
Aug-42	0	0	562	0	0	11,733	0	12	11,948	0	121,969	4,053	0	0	0	0	0	0	10,107,510	149.3
Sep-42	0	0	1,070	0	0	22,967	0	4	23,387	0	654,369	1,113	0	0	0	0	0	0	10,107,510	149.3
Oct-42	0	0	0	0	0	0	0	0	0	0	21,873	0	0	0	0	0	0	0	10,107,510	149.3
Nov-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Dec-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,107,510	149.3
Jan-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Feb-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Mar-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Apr-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
May-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Jun-43	0	0	3335.391	0	0	23412.57	48265.3	169.6456	72990.41	0	2.34E+06	0	0	0	0	0	0	0	1.01E+07	149.3
Jul-43	0	0	391.127	0	0	8405.358	0	12.23026	8559.275	0	103117.5	0	0	0	0	0	0	0	1.01E+07	149.3
Aug-43	0	0	545.9829	0	0	11733.23	0	12.23026	11948.08	0	119763.5	0	0	0	0	0	0	0	1.01E+07	149.3
Sep-43	0	0	1068.71	0	0	22966.68	0	3.945246	23387.24	0	638424.9	0	0	0	0	0	0	0	1.01E+07	149.3
Oct-43	0	0	0	0	0	0	0	0	0	0	21873.25	0	0	0	0	0	0	0	1.01E+07	149.3
Nov-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Dec-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Jan-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Feb-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Mar-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Apr-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
May-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Jun-44	0	0	3336.081	0	0	23412.57	48280.13	169.6456	73005.52	0	2.34E+06	0	0	0	0	0	0	0	1.01E+07	149.3
Jul-44	0	0	391.127	0	0	8405.358	0	12.23026	8559.275	0	103133.7	0	0	0	0	0	0	0	1.01E+07	149.3
Aug-44	0	0	545.9829	0	0	11733.23	0	12.23026	11948.08	0	119763.5	0	0	0	0	0	0	0	1.01E+07	149.3
Sep-44	0	0	1068.71	0	0	22966.68	0	3.945246	23387.24	0	638424.9	0	0	0	0	0	0	0	1.01E+07	149.3
Oct-44	0	0	0	0	0	0	0	0	0	0	21873.25	0	0	0	0	0	0	0	1.01E+07	149.3
Nov-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Dec-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Jan-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Feb-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Mar-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Apr-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
May-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Jun-45	0	0	3335.391	0	0	23412.57	48265.3	169.6456	72990.41	0	2.34E+06	0	0	0	0	0	0	0	1.01E+07	149.3
Jul-45	0	0	391.127	0	0	8405.358	0	12.23026	8559.275	0	103117.5	0	0	0	0	0	0	0	1.01E+07	149.3
Aug-45	0	0	545.9829	0	0	11733.23	0	12.23026	11948.08	0	119763.5	0	0	0	0	0	0	0	1.01E+07	149.3
Sep-45	0	0	1068.71	0	0	22966.68	0	3.945246	23387.24	0	638424.9	0	0	0	0	0	0	0	1.01E+07	149.3
Oct-45	0	0	0	0	0	0	0	0	0	0	21873.25	0	0	0	0	0	0	0	1.01E+07	149.3
Nov-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Dec-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3

IVR PIT

	INFLOWS												OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Drilling Water	Groundwater	Pitwall Runoff	Direct Rainfall Runoff	Direct Snow Runoff	Rainfall Runoff	Snow Runoff	Whale Tail WRSF Runoff	IVR Diversion	Whale Tail Lake (South Basin) Drawdown	Whale Tail Lake (South Basin) Overflow	WT WRSF	Whale Tail Attenuation Pond	IVR Attenuation Pond	Evaporation	Drill Water Loss	Overflow to WT Pit	Overflow to WT North	Volume	Water Level
Jan-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Feb-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Mar-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Apr-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
May-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Jun-46	0	0	3335.391	0	0	23412.57	48265.3	169.6456	72990.41	0	2.34E+06	0	0	0	0	0	0	0	1.01E+07	149.3
Jul-46	0	0	391.127	0	0	8405.358	0	12.23026	8559.275	0	103117.5	0	0	0	0	0	0	0	1.01E+07	149.3
Aug-46	0	0	545.9829	0	0	11733.23	0	12.23026	11948.08	0	119763.5	0	0	0	0	0	0	0	1.01E+07	149.3
Sep-46	0	0	1068.71	0	0	22966.68	0	3.945246	23387.24	0	638424.9	0	0	0	0	0	0	0	1.01E+07	149.3
Oct-46	0	0	0	0	0	0	0	0	0	0	21873.25	0	0	0	0	0	0	0	1.01E+07	149.3
Nov-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Dec-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Jan-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Feb-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Mar-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Apr-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
May-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Jun-47	0	0	3335.39	0	0	23412.57	48265.3	169.6456	72990.41	0	2.34E+06	0	0	0	0	0	0	0	1.01E+07	149.3
Jul-47	0	0	391.127	0	0	8405.358	0	12.23026	8559.275	0	103117.5	0	0	0	0	0	0	0	1.01E+07	149.3
Aug-47	0	0	545.9829	0	0	11733.23	0	12.23026	11948.08	0	119763.5	0	0	0	0	0	0	0	1.01E+07	149.3
Sep-47	0	0	1068.71	0	0	22966.68	0	3.945246	23387.24	0	638424.9	0	0	0	0	0	0	0	1.01E+07	149.3
Oct-47	0	0	0	0	0	0	0	0	0	0	21873.25	0	0	0	0	0	0	0	1.01E+07	149.3
Nov-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Dec-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Jan-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Feb-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Mar-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Apr-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
May-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Jun-48	0	0	3336.081	0	0	23412.57	48280.13	169.6456	73005.52	0	2.34E+06	0	0	0	0	0	0	0	1.01E+07	149.3
Jul-48	0	0	391.127	0	0	8405.358	0	12.23026	8559.275	0	103133.7	0	0	0	0	0	0	0	1.01E+07	149.3
Aug-48	0	0	545.9829	0	0	11733.23	0	12.23026	11948.08	0	119763.5	0	0	0	0	0	0	0	1.01E+07	149.3
Sep-48	0	0	1068.71	0	0	22966.68	0	3.945246	23387.24	0	638424.9	0	0	0	0	0	0	0	1.01E+07	149.3
Oct-48	0	0	0	0	0	0	0	0	0	0	21873.25	0	0	0	0	0	0	0	1.01E+07	149.3
Nov-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Dec-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Jan-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Feb-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Mar-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Apr-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
May-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Jun-49	0	0	3335.39	0	0	23412.57	48265.3	169.6456	72990.41	0	2.34E+06	0	0	0	0	0	0	0	1.01E+07	149.3
Jul-49	0	0	391.127	0	0	8405.358	0	12.23026	8559.275	0	103117.5	0	0	0	0	0	0	0	1.01E+07	149.3
Aug-49	0	0	545.9829	0	0	11733.23	0	12.23026	11948.08	0	119763.5	0	0	0	0	0	0	0	1.01E+07	149.3
Sep-49	0	0	1068.71	0	0	22966.68	0	3.945246	23387.24	0	638424.9	0	0	0	0	0	0	0	1.01E+07	149.3
Oct-49	0	0	0	0	0	0	0	0	0	0	21873.25	0	0	0	0	0	0	0	1.01E+07	149.3
Nov-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Dec-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Jan-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Feb-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Mar-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Apr-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
May-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Jun-50	0	0	3335.39	0	0	23412.57	48265.3	169.6456	72990.41	0	2.34E+06	0	0	0	0	0	0	0	1.01E+07	149.3
Jul-50	0	0	391.127	0	0	8405.358	0	12.23026	8559.275	0	103117.5	0	0	0	0	0	0	0	1.01E+07	149.3
Aug-50	0	0	545.9829	0	0	11733.23	0	12.23026	11948.08	0	119763.5	0	0	0	0	0	0	0	1.01E+07	149.3

IVR PIT

	INFLOWS												OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Drilling Water	Groundwater	Pitwall Runoff	Direct Rainfall Runoff	Direct Snow Runoff	Rainfall Runoff	Snow Runoff	Whale Tail WRSF Runoff	IVR Diversion	Whale Tail Lake (South Basin) Drawdown	Whale Tail Lake (South Basin) Overflow	WT WRSF	Whale Tail Attenuation Pond	IVR Attenuation Pond	Evaporation	Drill Water Loss	Overflow to WT Pit	Overflow to WT North	Volume	Water Level
Sep-50	0	0	1068.71	0	0	22966.68	0	3.945246	23387.24	0	638424.9	0	0	0	0	0	0	0	1.01E+07	149.3
Oct-50	0	0	0	0	0	0	0	0	0	0	21873.25	0	0	0	0	0	0	0	1.01E+07	149.3
Nov-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3
Dec-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.01E+07	149.3

IVR WASTE ROCK STORAGE FACILITY

	INFLOWS					OUTFLOWS					STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Rainfall Runoff	SWE Runoff	IVR WRSF Runoff	IVR WRSF Seepage	GSP-2	Whale Tail (North Basin)	Whale Tail Attenuation Pond	Northeast Sector	IVR Attenuation Pond	Whale Tail Pit	Storage
Jan-18	0	0	0	0	0	0	0	0	0	0	0
Feb-18	0	0	0	0	0	0	0	0	0	0	0
Mar-18	0	0	0	0	0	0	0	0	0	0	0
Apr-18	0	0	0	0	0	0	0	0	0	0	0
May-18	0	0	0	0	0	0	0	0	0	0	0
Jun-18	15,985	32,953	0	0	0	48,937	0	0	0	0	0
Jul-18	5,739	0	0	0	0	5,739	0	0	0	0	0
Aug-18	8,011	0	0	0	0	8,011	0	0	0	0	0
Sep-18	15,680	0	0	0	0	15,680	0	0	0	0	0
Oct-18	0	0	0	0	0	0	0	0	0	0	0
Nov-18	0	0	0	0	0	0	0	0	0	0	0
Dec-18	0	0	0	0	0	0	0	0	0	0	0
Jan-19	0	0	0	0	0	0	0	0	0	0	0
Feb-19	0	0	0	0	0	0	0	0	0	0	0
Mar-19	0	0	0	0	0	0	0	0	0	0	0
Apr-19	0	0	0	0	0	0	0	0	0	0	0
May-19	0	0	0	0	0	0	0	0	0	0	0
Jun-19	15,985	32,953	0	0	0	0	0	48,938	0	0	0
Jul-19	5,739	0	0	0	0	0	0	5,739	0	0	0
Aug-19	8,011	0	0	0	0	0	0	8,011	0	0	0
Sep-19	15,680	0	0	0	0	0	0	15,680	0	0	0
Oct-19	0	0	0	0	0	0	0	0	0	0	0
Nov-19	0	0	0	0	0	0	0	0	0	0	0
Dec-19	0	0	0	0	0	0	0	0	0	0	0
Jan-20	0	0	0	0	0	0	0	0	0	0	0
Feb-20	0	0	0	0	0	0	0	0	0	0	0
Mar-20	0	0	0	0	0	0	0	0	0	0	0
Apr-20	0	0	0	0	0	0	0	0	0	0	0
May-20	0	0	0	0	0	0	0	0	0	0	0
Jun-20	12,566	25,913	0	0	0	0	0	38,479	0	0	0
Jul-20	4,288	0	2	0	0	0	4,290	0	0	0	0
Aug-20	5,668	0	5	0	0	0	5,673	0	0	0	0
Sep-20	10,485	0	2	0	0	0	10,487	0	0	0	0
Oct-20	0	0	0	0	0	0	0	0	0	0	0
Nov-20	0	0	0	0	0	0	0	0	0	0	0
Dec-20	0	0	0	0	0	0	0	0	0	0	0
Jan-21	0	0	0	0	0	0	0	0	0	0	0
Feb-21	0	0	0	0	0	0	0	0	0	0	0
Mar-21	0	0	0	0	0	0	0	0	0	0	0
Apr-21	0	0	0	0	0	0	0	0	0	0	0

IVR WASTE ROCK STORAGE FACILITY

	INFLOWS					OUTFLOWS					STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Rainfall Runoff	SWE Runoff	IVR WRSF Runoff	IVR WRSF Seepage	GSP-2	Whale Tail (North Basin)	Whale Tail Attenuation Pond	Northeast Sector	IVR Attenuation Pond	Whale Tail Pit	Storage
May-21	0	0	0	0	0	0	0	0	0	0	0
Jun-21	8,309	17,128	244	0	0	0	25,681	0	0	0	0
Jul-21	2,983	0	18	0	0	0	3,000	0	0	0	0
Aug-21	4,164	0	18	0	0	0	4,181	0	0	0	0
Sep-21	8,150	0	6	0	0	0	8,156	0	0	0	0
Oct-21	0	0	0	0	0	0	0	0	0	0	0
Nov-21	0	0	0	0	0	0	0	0	0	0	0
Dec-21	0	0	0	0	0	0	0	0	0	0	0
Jan-22	0	0	0	0	0	0	0	0	0	0	0
Feb-22	0	0	0	0	0	0	0	0	0	0	0
Mar-22	0	0	0	0	0	0	0	0	0	0	0
Apr-22	0	0	0	0	0	0	0	0	0	0	0
May-22	0	0	0	0	0	0	0	0	0	0	0
Jun-22	6,358	13,106	244	0	0	0	0	0	19,709	0	0
Jul-22	2,282	0	18	0	0	0	0	0	2,300	0	0
Aug-22	3,186	0	18	0	0	0	0	0	3,204	0	0
Sep-22	6,237	0	6	0	0	0	0	0	6,242	0	0
Oct-22	0	0	0	0	0	0	0	0	0	0	0
Nov-22	0	0	0	0	0	0	0	0	0	0	0
Dec-22	0	0	0	0	0	0	0	0	0	0	0
Jan-23	0	0	0	0	0	0	0	0	0	0	0
Feb-23	0	0	0	0	0	0	0	0	0	0	0
Mar-23	0	0	0	0	0	0	0	0	0	0	0
Apr-23	0	0	0	0	0	0	0	0	0	0	0
May-23	0	0	0	0	0	0	0	0	0	0	0
Jun-23	4,585	9,452	541	0	0	0	0	0	14,577	0	0
Jul-23	1,529	0	43	0	0	0	0	0	1,572	0	0
Aug-23	1,969	0	47	0	0	0	0	0	2,016	0	0
Sep-23	3,536	0	16	0	0	0	0	0	3,553	0	0
Oct-23	0	0	0	0	0	0	0	0	0	0	0
Nov-23	0	0	0	0	0	0	0	0	0	0	0
Dec-23	0	0	0	0	0	0	0	0	0	0	0
Jan-24	0	0	0	0	0	0	0	0	0	0	0
Feb-24	0	0	0	0	0	0	0	0	0	0	0
Mar-24	0	0	0	0	0	0	0	0	0	0	0
Apr-24	0	0	0	0	0	0	0	0	0	0	0
May-24	0	0	0	0	0	0	0	0	0	0	0
Jun-24	2,471	5,096	894	0	0	0	0	0	8,461	0	0
Jul-24	887	0	64	0	0	0	0	0	952	0	0
Aug-24	1,238	0	64	0	0	0	0	0	1,303	0	0

IVR WASTE ROCK STORAGE FACILITY

	INFLOWS					OUTFLOWS					STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Rainfall Runoff	SWE Runoff	IVR WRSF Runoff	IVR WRSF Seepage	GSP-2	Whale Tail (North Basin)	Whale Tail Attenuation Pond	Northeast Sector	IVR Attenuation Pond	Whale Tail Pit	Storage
Sep-24	2,424	0	21	0	0	0	0	0	2,445	0	0
Oct-24	0	0	0	0	0	0	0	0	0	0	0
Nov-24	0	0	0	0	0	0	0	0	0	0	0
Dec-24	0	0	0	0	0	0	0	0	0	0	0
Jan-25	0	0	0	0	0	0	0	0	0	0	0
Feb-25	0	0	0	0	0	0	0	0	0	0	0
Mar-25	0	0	0	0	0	0	0	0	0	0	0
Apr-25	0	0	0	0	0	0	0	0	0	0	0
May-25	0	0	0	0	0	0	0	0	0	0	0
Jun-25	2,471	5,095	894	0	0	0	0	0	8,460	0	0
Jul-25	887	0	64	0	0	0	0	0	952	0	0
Aug-25	1,238	0	64	0	0	0	0	0	1,303	0	0
Sep-25	2,424	0	21	0	0	0	0	0	2,445	0	0
Oct-25	0	0	0	0	0	0	0	0	0	0	0
Nov-25	0	0	0	0	0	0	0	0	0	0	0
Dec-25	0	0	0	0	0	0	0	0	0	0	0
Jan-26	0	0	0	0	0	0	0	0	0	0	0
Feb-26	0	0	0	0	0	0	0	0	0	0	0
Mar-26	0	0	0	0	0	0	0	0	0	0	0
Apr-26	0	0	0	0	0	0	0	0	0	0	0
May-26	0	0	0	0	0	0	0	0	0	0	0
Jun-26	2,471	5,095	894	0	6,385	0	0	0	0	14,845	0
Jul-26	887	0	64	0	970	0	0	0	0	1,921	0
Aug-26	1,238	0	64	0	1,071	0	0	0	0	2,374	0
Sep-26	2,424	0	21	0	2,081	0	0	0	0	4,526	0
Oct-26	0	0	0	0	71	0	0	0	0	71	0
Nov-26	0	0	0	0	0	0	0	0	0	0	0
Dec-26	0	0	0	0	0	0	0	0	0	0	0
Jan-27	0	0	0	0	0	0	0	0	0	0	0
Feb-27	0	0	0	0	0	0	0	0	0	0	0
Mar-27	0	0	0	0	0	0	0	0	0	0	0
Apr-27	0	0	0	0	0	0	0	0	0	0	0
May-27	0	0	0	0	0	0	0	0	0	0	0
Jun-27	2,471	5,095	894	0	6,462	0	0	0	0	14,922	0
Jul-27	887	0	64	0	892	0	0	0	0	1,844	0
Aug-27	1,238	0	64	0	1,071	0	0	0	0	2,374	0
Sep-27	2,424	0	21	0	2,081	0	0	0	0	4,526	0
Oct-27	0	0	0	0	71	0	0	0	0	71	0
Nov-27	0	0	0	0	0	0	0	0	0	0	0
Dec-27	0	0	0	0	0	0	0	0	0	0	0

IVR WASTE ROCK STORAGE FACILITY

	INFLOWS					OUTFLOWS					STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Rainfall Runoff	SWE Runoff	IVR WRSF Runoff	IVR WRSF Seepage	GSP-2	Whale Tail (North Basin)	Whale Tail Attenuation Pond	Northeast Sector	IVR Attenuation Pond	Whale Tail Pit	Storage
Jan-28	0	0	0	0	0	0	0	0	0	0	0
Feb-28	0	0	0	0	0	0	0	0	0	0	0
Mar-28	0	0	0	0	0	0	0	0	0	0	0
Apr-28	0	0	0	0	0	0	0	0	0	0	0
May-28	0	0	0	0	0	0	0	0	0	0	0
Jun-28	2,471	5,096	894	0	6,387	0	0	0	0	14,848	0
Jul-28	887	0	64	0	970	0	0	0	0	1,921	0
Aug-28	1,238	0	64	0	1,071	0	0	0	0	2,374	0
Sep-28	2,424	0	21	0	2,081	0	0	0	0	4,526	0
Oct-28	0	0	0	0	71	0	0	0	0	71	0
Nov-28	0	0	0	0	0	0	0	0	0	0	0
Dec-28	0	0	0	0	0	0	0	0	0	0	0
Jan-29	0	0	0	0	0	0	0	0	0	0	0
Feb-29	0	0	0	0	0	0	0	0	0	0	0
Mar-29	0	0	0	0	0	0	0	0	0	0	0
Apr-29	0	0	0	0	0	0	0	0	0	0	0
May-29	0	0	0	0	0	0	0	0	0	0	0
Jun-29	2,471	5,095	894	0	6,385	0	0	0	0	14,845	0
Jul-29	887	0	64	0	970	0	0	0	0	1,921	0
Aug-29	1,238	0	64	0	1,071	0	0	0	0	2,374	0
Sep-29	2,424	0	21	0	2,081	0	0	0	0	4,526	0
Oct-29	0	0	0	0	71	0	0	0	0	71	0
Nov-29	0	0	0	0	0	0	0	0	0	0	0
Dec-29	0	0	0	0	0	0	0	0	0	0	0
Jan-30	0	0	0	0	0	0	0	0	0	0	0
Feb-30	0	0	0	0	0	0	0	0	0	0	0
Mar-30	0	0	0	0	0	0	0	0	0	0	0
Apr-30	0	0	0	0	0	0	0	0	0	0	0
May-30	0	0	0	0	0	0	0	0	0	0	0
Jun-30	2,471	5,095	894	0	6,385	0	0	0	0	14,845	0
Jul-30	887	0	64	0	970	0	0	0	0	1,921	0
Aug-30	1,238	0	64	0	1,071	0	0	0	0	2,374	0
Sep-30	2,424	0	21	0	2,081	0	0	0	0	4,526	0
Oct-30	0	0	0	0	71	0	0	0	0	71	0
Nov-30	0	0	0	0	0	0	0	0	0	0	0
Dec-30	0	0	0	0	0	0	0	0	0	0	0
Jan-31	0	0	0	0	0	0	0	0	0	0	0
Feb-31	0	0	0	0	0	0	0	0	0	0	0
Mar-31	0	0	0	0	0	0	0	0	0	0	0
Apr-31	0	0	0	0	0	0	0	0	0	0	0

IVR WASTE ROCK STORAGE FACILITY

	INFLOWS					OUTFLOWS					STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Rainfall Runoff	SWE Runoff	IVR WRSF Runoff	IVR WRSF Seepage	GSP-2	Whale Tail (North Basin)	Whale Tail Attenuation Pond	Northeast Sector	IVR Attenuation Pond	Whale Tail Pit	Storage
May-31	0	0	0	0	0	0	0	0	0	0	0
Jun-31	2,471	5,095	894	0	6,385	0	0	0	0	14,845	0
Jul-31	887	0	64	0	970	0	0	0	0	1,921	0
Aug-31	1,238	0	64	0	1,071	0	0	0	0	2,374	0
Sep-31	2,424	0	21	0	2,081	0	0	0	0	4,526	0
Oct-31	0	0	0	0	71	0	0	0	0	71	0
Nov-31	0	0	0	0	0	0	0	0	0	0	0
Dec-31	0	0	0	0	0	0	0	0	0	0	0
Jan-32	0	0	0	0	0	0	0	0	0	0	0
Feb-32	0	0	0	0	0	0	0	0	0	0	0
Mar-32	0	0	0	0	0	0	0	0	0	0	0
Apr-32	0	0	0	0	0	0	0	0	0	0	0
May-32	0	0	0	0	0	0	0	0	0	0	0
Jun-32	2,471	5,096	894	0	6,387	0	0	0	0	14,848	0
Jul-32	887	0	64	0	970	0	0	0	0	1,921	0
Aug-32	1,238	0	64	0	1,071	0	0	0	0	2,374	0
Sep-32	2,424	0	21	0	2,081	0	0	0	0	4,526	0
Oct-32	0	0	0	0	71	0	0	0	0	71	0
Nov-32	0	0	0	0	0	0	0	0	0	0	0
Dec-32	0	0	0	0	0	0	0	0	0	0	0
Jan-33	0	0	0	0	0	0	0	0	0	0	0
Feb-33	0	0	0	0	0	0	0	0	0	0	0
Mar-33	0	0	0	0	0	0	0	0	0	0	0
Apr-33	0	0	0	0	0	0	0	0	0	0	0
May-33	0	0	0	0	0	0	0	0	0	0	0
Jun-33	2,471	5,095	894	0	6,385	0	0	0	0	14,845	0
Jul-33	887	0	64	0	970	0	0	0	0	1,921	0
Aug-33	1,238	0	64	0	1,071	0	0	0	0	2,374	0
Sep-33	2,424	0	21	0	2,081	0	0	0	0	4,526	0
Oct-33	0	0	0	0	71	0	0	0	0	71	0
Nov-33	0	0	0	0	0	0	0	0	0	0	0
Dec-33	0	0	0	0	0	0	0	0	0	0	0
Jan-34	0	0	0	0	0	0	0	0	0	0	0
Feb-34	0	0	0	0	0	0	0	0	0	0	0
Mar-34	0	0	0	0	0	0	0	0	0	0	0
Apr-34	0	0	0	0	0	0	0	0	0	0	0
May-34	0	0	0	0	0	0	0	0	0	0	0
Jun-34	2,471	5,095	894	0	6,385	0	0	0	0	14,845	0
Jul-34	887	0	64	0	970	0	0	0	0	1,921	0
Aug-34	1,238	0	64	0	1,071	0	0	0	0	2,374	0

IVR WASTE ROCK STORAGE FACILITY

	INFLOWS					OUTFLOWS					STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Rainfall Runoff	SWE Runoff	IVR WRSF Runoff	IVR WRSF Seepage	GSP-2	Whale Tail (North Basin)	Whale Tail Attenuation Pond	Northeast Sector	IVR Attenuation Pond	Whale Tail Pit	Storage
Sep-34	2,424	0	21	0	2,081	0	0	0	0	4,526	0
Oct-34	0	0	0	0	71	0	0	0	0	71	0
Nov-34	0	0	0	0	0	0	0	0	0	0	0
Dec-34	0	0	0	0	0	0	0	0	0	0	0
Jan-35	0	0	0	0	0	0	0	0	0	0	0
Feb-35	0	0	0	0	0	0	0	0	0	0	0
Mar-35	0	0	0	0	0	0	0	0	0	0	0
Apr-35	0	0	0	0	0	0	0	0	0	0	0
May-35	0	0	0	0	0	0	0	0	0	0	0
Jun-35	2,471	5,095	894	0	6,385	0	0	0	0	14,845	0
Jul-35	887	0	64	0	970	0	0	0	0	1,921	0
Aug-35	1,238	0	64	0	1,071	0	0	0	0	2,374	0
Sep-35	2,424	0	21	0	2,081	0	0	0	0	4,526	0
Oct-35	0	0	0	0	71	0	0	0	0	71	0
Nov-35	0	0	0	0	0	0	0	0	0	0	0
Dec-35	0	0	0	0	0	0	0	0	0	0	0
Jan-36	0	0	0	0	0	0	0	0	0	0	0
Feb-36	0	0	0	0	0	0	0	0	0	0	0
Mar-36	0	0	0	0	0	0	0	0	0	0	0
Apr-36	0	0	0	0	0	0	0	0	0	0	0
May-36	0	0	0	0	0	0	0	0	0	0	0
Jun-36	2,471	5,096	894	0	6,387	0	0	0	0	14,848	0
Jul-36	887	0	64	0	970	0	0	0	0	1,921	0
Aug-36	1,238	0	64	0	1,071	0	0	0	0	2,374	0
Sep-36	2,424	0	21	0	2,081	0	0	0	0	4,526	0
Oct-36	0	0	0	0	71	0	0	0	0	71	0
Nov-36	0	0	0	0	0	0	0	0	0	0	0
Dec-36	0	0	0	0	0	0	0	0	0	0	0
Jan-37	0	0	0	0	0	0	0	0	0	0	0
Feb-37	0	0	0	0	0	0	0	0	0	0	0
Mar-37	0	0	0	0	0	0	0	0	0	0	0
Apr-37	0	0	0	0	0	0	0	0	0	0	0
May-37	0	0	0	0	0	0	0	0	0	0	0
Jun-37	2,471	5,095	894	0	6,385	0	0	0	0	14,845	0
Jul-37	887	0	64	0	970	0	0	0	0	1,921	0
Aug-37	1,238	0	64	0	1,071	0	0	0	0	2,374	0
Sep-37	2,424	0	21	0	2,081	0	0	0	0	4,526	0
Oct-37	0	0	0	0	71	0	0	0	0	71	0
Nov-37	0	0	0	0	0	0	0	0	0	0	0
Dec-37	0	0	0	0	0	0	0	0	0	0	0

IVR WASTE ROCK STORAGE FACILITY

	INFLOWS					OUTFLOWS					STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Rainfall Runoff	SWE Runoff	IVR WRSF Runoff	IVR WRSF Seepage	GSP-2	Whale Tail (North Basin)	Whale Tail Attenuation Pond	Northeast Sector	IVR Attenuation Pond	Whale Tail Pit	Storage
Jan-38	0	0	0	0	0	0	0	0	0	0	0
Feb-38	0	0	0	0	0	0	0	0	0	0	0
Mar-38	0	0	0	0	0	0	0	0	0	0	0
Apr-38	0	0	0	0	0	0	0	0	0	0	0
May-38	0	0	0	0	0	0	0	0	0	0	0
Jun-38	2,471	5,095	894	0	6,385	0	0	0	0	14,845	0
Jul-38	887	0	64	0	970	0	0	0	0	1,921	0
Aug-38	1,238	0	64	0	1,071	0	0	0	0	2,374	0
Sep-38	2,424	0	21	0	2,081	0	0	0	0	4,526	0
Oct-38	0	0	0	0	71	0	0	0	0	71	0
Nov-38	0	0	0	0	0	0	0	0	0	0	0
Dec-38	0	0	0	0	0	0	0	0	0	0	0
Jan-39	0	0	0	0	0	0	0	0	0	0	0
Feb-39	0	0	0	0	0	0	0	0	0	0	0
Mar-39	0	0	0	0	0	0	0	0	0	0	0
Apr-39	0	0	0	0	0	0	0	0	0	0	0
May-39	0	0	0	0	0	0	0	0	0	0	0
Jun-39	2,471	5,095	894	0	6,385	0	0	0	0	14,845	0
Jul-39	887	0	64	0	970	0	0	0	0	1,921	0
Aug-39	1,238	0	64	0	1,071	0	0	0	0	2,374	0
Sep-39	2,424	0	21	0	2,081	0	0	0	0	4,526	0
Oct-39	0	0	0	0	71	0	0	0	0	71	0
Nov-39	0	0	0	0	0	0	0	0	0	0	0
Dec-39	0	0	0	0	0	0	0	0	0	0	0
Jan-40	0	0	0	0	0	0	0	0	0	0	0
Feb-40	0	0	0	0	0	0	0	0	0	0	0
Mar-40	0	0	0	0	0	0	0	0	0	0	0
Apr-40	0	0	0	0	0	0	0	0	0	0	0
May-40	0	0	0	0	0	0	0	0	0	0	0
Jun-40	2,471	5,096	894	0	6,387	0	0	0	0	14,848	0
Jul-40	887	0	64	0	970	0	0	0	0	1,921	0
Aug-40	1,238	0	64	0	1,071	0	0	0	0	2,374	0
Sep-40	2,424	0	21	0	2,081	0	0	0	0	4,526	0
Oct-40	0	0	0	0	71	0	0	0	0	71	0
Nov-40	0	0	0	0	0	0	0	0	0	0	0
Dec-40	0	0	0	0	0	0	0	0	0	0	0
Jan-41	0	0	0	0	0	0	0	0	0	0	0
Feb-41	0	0	0	0	0	0	0	0	0	0	0
Mar-41	0	0	0	0	0	0	0	0	0	0	0
Apr-41	0	0	0	0	0	0	0	0	0	0	0

IVR WASTE ROCK STORAGE FACILITY

	INFLOWS					OUTFLOWS					STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Rainfall Runoff	SWE Runoff	IVR WRSF Runoff	IVR WRSF Seepage	GSP-2	Whale Tail (North Basin)	Whale Tail Attenuation Pond	Northeast Sector	IVR Attenuation Pond	Whale Tail Pit	Storage
May-41	0	0	0	0	0	0	0	0	0	0	0
Jun-41	2,471	5,095	894	0	6,456	0	0	0	0	14,916	0
Jul-41	887	0	64	0	780	0	0	0	0	1,732	0
Aug-41	1,238	0	64	0	1,081	0	0	0	0	2,384	0
Sep-41	2,424	0	21	0	2,113	0	0	0	0	4,558	0
Oct-41	0	0	0	0	9	0	0	0	0	9	0
Nov-41	0	0	0	0	0	0	0	0	0	0	0
Dec-41	0	0	0	0	0	0	0	0	0	0	0
Jan-42	0	0	0	0	0	0	0	0	0	0	0
Feb-42	0	0	0	0	0	0	0	0	0	0	0
Mar-42	0	0	0	0	0	0	0	0	0	0	0
Apr-42	0	0	0	0	0	0	0	0	0	0	0
May-42	0	0	0	0	0	0	0	0	0	0	0
Jun-42	2,471	5,095	894	0	6,583	0	0	0	0	15,043	0
Jul-42	887	0	64	0	833	0	0	0	0	1,785	0
Aug-42	1,238	0	64	0	1,081	0	0	0	0	2,384	0
Sep-42	2,424	0	21	0	2,113	0	0	0	0	4,558	0
Oct-42	0	0	0	0	71	0	0	0	0	71	0
Nov-42	0	0	0	0	0	0	0	0	0	0	0
Dec-42	0	0	0	0	0	0	0	0	0	0	0
Jan-43	0	0	0	0	0	0	0	0	0	0	0
Feb-43	0	0	0	0	0	0	0	0	0	0	0
Mar-43	0	0	0	0	0	0	0	0	0	0	0
Apr-43	0	0	0	0	0	0	0	0	0	0	0
May-43	0	0	0	0	0	0	0	0	0	0	0
Jun-43	2471.268	5094.551	893.8622	0	6604.684	0	0	0	0	15064.37	0
Jul-43	887.2114	0	64.44123	0	969.7833	0	0	0	0	1921.436	0
Aug-43	1238.478	0	64.44123	0	1071.374	0	0	0	0	2374.293	0
Sep-43	2424.203	0	20.78749	0	2080.807	0	0	0	0	4525.798	0
Oct-43	0	0	0	0	70.54922	0	0	0	0	70.54922	0
Nov-43	0	0	0	0	0	0	0	0	0	0	0
Dec-43	0	0	0	0	0	0	0	0	0	0	0
Jan-44	0	0	0	0	0	0	0	0	0	0	0
Feb-44	0	0	0	0	0	0	0	0	0	0	0
Mar-44	0	0	0	0	0	0	0	0	0	0	0
Apr-44	0	0	0	0	0	0	0	0	0	0	0
May-44	0	0	0	0	0	0	0	0	0	0	0
Jun-44	2471.268	5096.116	893.8622	0	6606.047	0	0	0	0	15067.29	0
Jul-44	887.2114	0	64.44123	0	969.8289	0	0	0	0	1921.481	0
Aug-44	1238.478	0	64.44123	0	1071.374	0	0	0	0	2374.293	0

IVR WASTE ROCK STORAGE FACILITY

	INFLOWS					OUTFLOWS					STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Rainfall Runoff	SWE Runoff	IVR WRSF Runoff	IVR WRSF Seepage	GSP-2	Whale Tail (North Basin)	Whale Tail Attenuation Pond	Northeast Sector	IVR Attenuation Pond	Whale Tail Pit	Storage
Sep-44	2424.203	0	20.78749	0	2080.807	0	0	0	0	4525.798	0
Oct-44	0	0	0	0	70.54922	0	0	0	0	70.54922	0
Nov-44	0	0	0	0	0	0	0	0	0	0	0
Dec-44	0	0	0	0	0	0	0	0	0	0	0
Jan-45	0	0	0	0	0	0	0	0	0	0	0
Feb-45	0	0	0	0	0	0	0	0	0	0	0
Mar-45	0	0	0	0	0	0	0	0	0	0	0
Apr-45	0	0	0	0	0	0	0	0	0	0	0
May-45	0	0	0	0	0	0	0	0	0	0	0
Jun-45	2471.268	5094.551	893.8622	0	6604.684	0	0	0	0	15064.37	0
Jul-45	887.2114	0	64.44123	0	969.7833	0	0	0	0	1921.436	0
Aug-45	1238.478	0	64.44123	0	1071.374	0	0	0	0	2374.293	0
Sep-45	2424.203	0	20.78749	0	2080.807	0	0	0	0	4525.798	0
Oct-45	0	0	0	0	70.54922	0	0	0	0	70.54922	0
Nov-45	0	0	0	0	0	0	0	0	0	0	0
Dec-45	0	0	0	0	0	0	0	0	0	0	0
Jan-46	0	0	0	0	0	0	0	0	0	0	0
Feb-46	0	0	0	0	0	0	0	0	0	0	0
Mar-46	0	0	0	0	0	0	0	0	0	0	0
Apr-46	0	0	0	0	0	0	0	0	0	0	0
May-46	0	0	0	0	0	0	0	0	0	0	0
Jun-46	2471.268	5094.551	893.8622	0	6604.684	0	0	0	0	15064.37	0
Jul-46	887.2114	0	64.44123	0	969.7833	0	0	0	0	1921.436	0
Aug-46	1238.478	0	64.44123	0	1071.374	0	0	0	0	2374.293	0
Sep-46	2424.203	0	20.78749	0	2080.807	0	0	0	0	4525.798	0
Oct-46	0	0	0	0	70.54922	0	0	0	0	70.54922	0
Nov-46	0	0	0	0	0	0	0	0	0	0	0
Dec-46	0	0	0	0	0	0	0	0	0	0	0
Jan-47	0	0	0	0	0	0	0	0	0	0	0
Feb-47	0	0	0	0	0	0	0	0	0	0	0
Mar-47	0	0	0	0	0	0	0	0	0	0	0
Apr-47	0	0	0	0	0	0	0	0	0	0	0
May-47	0	0	0	0	0	0	0	0	0	0	0
Jun-47	2471.268	5094.551	893.8622	0	6604.684	0	0	0	0	15064.37	0
Jul-47	887.2114	0	64.44123	0	969.7833	0	0	0	0	1921.436	0
Aug-47	1238.478	0	64.44123	0	1071.374	0	0	0	0	2374.293	0
Sep-47	2424.203	0	20.78749	0	2080.807	0	0	0	0	4525.798	0
Oct-47	0	0	0	0	70.54922	0	0	0	0	70.54922	0
Nov-47	0	0	0	0	0	0	0	0	0	0	0
Dec-47	0	0	0	0	0	0	0	0	0	0	0

IVR WASTE ROCK STORAGE FACILITY

	INFLOWS					OUTFLOWS					STORAGE
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3
Date	Rainfall Runoff	SWE Runoff	IVR WRSF Runoff	IVR WRSF Seepage	GSP-2	Whale Tail (North Basin)	Whale Tail Attenuation Pond	Northeast Sector	IVR Attenuation Pond	Whale Tail Pit	Storage
Jan-48	0	0	0	0	0	0	0	0	0	0	0
Feb-48	0	0	0	0	0	0	0	0	0	0	0
Mar-48	0	0	0	0	0	0	0	0	0	0	0
Apr-48	0	0	0	0	0	0	0	0	0	0	0
May-48	0	0	0	0	0	0	0	0	0	0	0
Jun-48	2471.268	5096.116	893.8622	0	6606.047	0	0	0	0	15067.29	0
Jul-48	887.2114	0	64.44123	0	969.8289	0	0	0	0	1921.481	0
Aug-48	1238.478	0	64.44123	0	1071.374	0	0	0	0	2374.293	0
Sep-48	2424.203	0	20.78749	0	2080.807	0	0	0	0	4525.798	0
Oct-48	0	0	0	0	70.54922	0	0	0	0	70.54922	0
Nov-48	0	0	0	0	0	0	0	0	0	0	0
Dec-48	0	0	0	0	0	0	0	0	0	0	0
Jan-49	0	0	0	0	0	0	0	0	0	0	0
Feb-49	0	0	0	0	0	0	0	0	0	0	0
Mar-49	0	0	0	0	0	0	0	0	0	0	0
Apr-49	0	0	0	0	0	0	0	0	0	0	0
May-49	0	0	0	0	0	0	0	0	0	0	0
Jun-49	2471.268	5094.551	893.8622	0	6604.684	0	0	0	0	15064.37	0
Jul-49	887.2114	0	64.44123	0	969.7833	0	0	0	0	1921.436	0
Aug-49	1238.478	0	64.44123	0	1071.374	0	0	0	0	2374.293	0
Sep-49	2424.203	0	20.78749	0	2080.807	0	0	0	0	4525.798	0
Oct-49	0	0	0	0	70.54922	0	0	0	0	70.54922	0
Nov-49	0	0	0	0	0	0	0	0	0	0	0
Dec-49	0	0	0	0	0	0	0	0	0	0	0
Jan-50	0	0	0	0	0	0	0	0	0	0	0
Feb-50	0	0	0	0	0	0	0	0	0	0	0
Mar-50	0	0	0	0	0	0	0	0	0	0	0
Apr-50	0	0	0	0	0	0	0	0	0	0	0
May-50	0	0	0	0	0	0	0	0	0	0	0
Jun-50	2471.268	5094.551	893.8622	0	6604.684	0	0	0	0	15064.37	0
Jul-50	887.2114	0	64.44123	0	969.7833	0	0	0	0	1921.436	0
Aug-50	1238.478	0	64.44123	0	1071.374	0	0	0	0	2374.293	0
Sep-50	2424.203	0	20.78749	0	2080.807	0	0	0	0	4525.798	0
Oct-50	0	0	0	0	70.54922	0	0	0	0	70.54922	0
Nov-50	0	0	0	0	0	0	0	0	0	0	0
Dec-50	0	0	0	0	0	0	0	0	0	0	0

EAST (LAKE A53) SECTOR / IVR ATTENUATION POND

	INFLOWS												OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Runoff	Ore Runoff	Land Farm	Whale Tail Attenuation Pond	IVR Pit	IVR WRSF	North Sump	Whale Tail WRSF	Whale Tail Pit	Truck Shop	Camp Biodisk	Whale Tail Lake (North Basin)	Whale Tail Lake (South Basin)	O-WTP	Evaporation	Underground	Flush during Operations	Pond Volume	Water Level
Jan-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154,735	161.73
Feb-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154,735	161.73
Mar-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154,735	161.73
Apr-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154,735	161.73
May-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	154,735	161.73
Jun-18	122,328	17,216	0	1,353	0	0	0	0	0	0	0	0	115,154	0	0	1,393	0	0	179,085	161.90
Jul-18	14,326	7,149	0	159	0	0	0	0	0	0	0	0	5,652	0	0	15,982	0	0	179,085	161.90
Aug-18	19,998	7,935	0	221	0	0	0	0	0	0	0	0	12,010	0	0	16,143	0	0	179,085	161.90
Sep-18	39,143	7,450	0	434	0	0	0	0	0	0	0	0	40,778	0	0	6,249	0	0	179,085	161.90
Oct-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Nov-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Dec-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Jan-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Feb-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Mar-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Apr-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
May-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Jun-19	122,165	17,383	0	1,353	0	0	0	0	0	0	0	0	139,495	0	0	1,406	0	0	179,085	161.90
Jul-19	14,326	7,149	0	159	0	0	0	0	0	0	0	0	5,652	0	0	15,982	0	0	179,085	161.90
Aug-19	19,998	7,935	0	221	0	0	0	0	0	0	0	0	12,010	0	0	16,143	0	0	179,085	161.90
Sep-19	39,143	7,450	0	434	0	0	0	0	0	0	0	0	40,778	0	0	6,249	0	0	179,085	161.90
Oct-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Nov-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Dec-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Jan-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Feb-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Mar-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Apr-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
May-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Jun-20	122,190	17,386	0	1,353	0	0	0	0	0	0	0	0	0	139,524	0	1,406	0	0	179,085	161.90
Jul-20	14,326	7,149	0	159	0	0	0	0	0	0	0	0	0	5,652	0	15,982	0	0	179,085	161.90
Aug-20	19,998	7,935	0	221	0	0	0	0	0	0	0	0	0	12,010	0	16,143	0	0	179,085	161.90
Sep-20	39,143	7,450	0	434	0	0	0	0	0	0	0	0	0	40,778	0	6,249	0	0	179,085	161.90
Oct-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Nov-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Dec-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Jan-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Feb-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Mar-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Apr-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
May-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Jun-21	122,165	17,383	0	1,353	0	0	0	0	0	0	0	0	0	139,495	0	1,406	0	0	179,085	161.90
Jul-21	14,326	7,149	0	159	0	0	0	0	0	0	0	0	0	5,652	0	15,982	0	0	179,085	161.90
Aug-21	19,998	7,935	0	221	0	0	0	0	0	0	0	0	0	12,010	0	16,143	0	0	179,085	161.90
Sep-21	39,143	7,450	0	434	0	0	0	0	0	0	0	0	0	40,778	0	6,249	0	0	179,085	161.90
Oct-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Nov-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Dec-21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Jan-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Feb-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Mar-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179,085	161.90
Apr-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103,157	75,928	160.91
May-22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51,578	24,350	159.87
Jun-22	136,315	2,841	0	1,353	148,003	111,071	19,709	6,569	24,472	157,822	2,990	5,568	0	0	639,831	230	0	0	1,000	158.33
Jul-22	16,046	950	0	159	3,335	14,058	2,300	761	3,673	59,773	3,196	5,952	0	0	108,080	2,123	0	0	1,000	158.33
Aug-22	22,399	1,054	0	221	0	19,149	3,204	1,056	4,017	61,586	3,196	5,952	0	0	119,690	2,144	0	0	1,000	158.33

EAST (LAKE A53) SECTOR / IVR ATTENUATION POND

	INFLOWS												OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Runoff	Ore Runoff	Land Farm	Whale Tail Attenuation Pond	IVR Pit	IVR WRSF	North Sump	Whale Tail WRSF	Whale Tail Pit	Truck Shop	Camp Biodisk	Whale Tail Lake (North Basin)	Whale Tail Lake (South Basin)	O-WTP	Evaporation	Underground	Flush during Operations	Pond Volume	Water Level
Sep-22	43,843	990	0	434	17,526	36,366	6,242	2,043	7,689	78,870	3,093	5,760	0	0	202,025	830	0	0	1,000	158.33
Oct-22	0	0	0	0	600	1,222	0	0	261	43,192	3,196	5,952	0	0	0	0	0	0	55,423	160.60
Nov-22	0	0	0	0	0	1,237	0	0	0	40,595	3,093	5,760	0	0	0	0	0	0	106,108	161.28
Dec-22	0	0	0	0	0	1,222	0	0	0	41,896	3,196	5,952	0	0	0	0	0	0	158,374	161.76
Jan-23	0	0	0	0	0	1,222	0	0	0	41,894	3,196	5,952	0	0	0	0	0	0	210,638	162.11
Feb-23	0	0	0	0	0	1,257	0	0	0	37,988	2,887	5,376	0	0	0	0	0	0	258,146	162.40
Mar-23	0	0	0	0	0	1,222	0	0	0	41,899	3,196	5,952	0	0	0	0	0	0	310,415	162.68
Apr-23	0	0	0	0	0	1,237	0	0	0	40,595	3,093	5,760	0	0	0	0	0	0	361,101	162.93
May-23	0	0	0	0	0	1,222	0	0	0	41,896	3,196	5,952	0	0	0	0	0	0	413,367	163.18
Jun-23	92,361	20,060	4,965	1,353	92,090	111,071	14,577	6,569	24,472	157,023	3,093	5,760	0	0	864,000	1,623	0	0	81,138	160.98
Jul-23	12,200	1,211	689	159	3,176	14,060	1,572	761	3,673	59,490	3,196	5,952	0	0	183,569	2,707	0	0	1,000	158.33
Aug-23	16,302	1,054	1,113	221	0	19,151	2,016	1,056	4,017	61,335	3,196	5,952	0	0	113,269	2,144	0	0	1,000	158.33
Sep-23	30,312	990	2,470	434	16,651	36,367	3,553	2,043	7,689	78,489	3,093	5,760	0	0	187,019	830	0	0	1,000	158.33
Oct-23	0	0	0	0	574	1,222	0	0	261	43,181	3,196	5,952	0	0	0	0	0	0	55,385	160.60
Nov-23	0	0	0	0	0	1,237	0	0	0	40,595	3,093	5,760	0	0	0	0	0	0	106,071	161.28
Dec-23	0	0	0	0	0	1,222	0	0	0	41,896	3,196	5,952	0	0	0	0	0	0	158,337	161.76
Jan-24	0	0	0	0	0	1,222	0	0	0	41,594	3,196	5,952	0	0	0	0	0	0	210,301	162.11
Feb-24	0	0	0	0	0	1,249	0	0	0	39,003	2,990	5,568	0	0	0	0	0	0	259,111	162.40
Mar-24	0	0	0	0	0	1,222	0	0	0	41,588	3,196	5,952	0	0	0	0	0	0	311,069	162.68
Apr-24	0	0	0	0	0	1,237	0	0	0	40,295	3,093	5,760	0	0	0	0	0	0	361,455	162.93
May-24	0	0	0	0	0	1,222	0	0	0	41,586	3,196	5,952	0	0	0	0	0	0	413,411	163.18
Jun-24	60,865	19,124	10,887	1,353	92,113	111,094	8,461	6,570	24,477	156,746	3,093	5,760	0	0	864,000	1,547	0	0	48,407	160.47
Jul-24	9,022	1,066	1,276	159	3,176	14,060	952	761	3,673	59,164	3,196	5,952	0	0	147,481	2,382	0	0	1,000	158.33
Aug-24	12,639	1,054	1,782	221	0	19,151	1,303	1,056	4,017	61,007	3,196	5,952	0	0	109,233	2,144	0	0	1,000	158.33
Sep-24	24,739	990	3,488	434	16,651	36,367	2,445	2,043	7,689	78,182	3,093	5,760	0	0	181,049	830	0	0	1,000	158.33
Oct-24	0	0	0	0	574	1,222	0	0	261	42,870	3,196	5,952	0	0	0	0	0	0	55,075	160.60
Nov-24	0	0	0	0	0	1,237	0	0	0	40,295	3,093	5,760	0	0	0	0	0	0	105,461	161.27
Dec-24	0	0	0	0	0	1,222	0	0	0	41,586	3,196	5,952	0	0	0	0	0	0	157,417	161.75
Jan-25	0	0	0	0	0	1,222	0	0	0	41,584	3,196	5,952	0	0	0	0	0	0	209,371	162.10
Feb-25	0	0	0	0	0	1,257	0	0	0	37,708	2,887	5,376	0	0	0	0	0	0	256,598	162.39
Mar-25	0	0	0	0	0	1,222	0	0	0	41,589	3,196	5,952	0	0	0	0	0	0	308,558	162.67
Apr-25	0	0	0	0	0	1,237	0	0	0	40,295	3,093	5,760	0	0	0	0	0	0	358,943	162.92
May-25	0	0	0	0	0	1,222	0	0	0	41,586	3,196	5,952	0	0	0	0	0	0	410,899	163.17
Jun-25	60,974	18,995	10,885	1,353	92,090	111,073	8,460	6,569	24,472	156,722	3,093	5,760	0	0	864,000	1,536	0	0	45,807	160.42
Jul-25	9,024	1,057	1,276	159	3,176	14,077	952	761	3,673	59,163	3,196	5,952	0	0	144,910	2,363	0	0	1,000	158.33
Aug-25	12,639	1,054	1,782	221	0	19,904	1,303	1,056	4,017	61,718	3,196	5,952	0	0	110,698	2,144	0	0	1,000	158.33
Sep-25	24,739	990	3,488	434	16,651	38,016	2,445	2,043	7,689	79,794	3,093	5,760	0	0	184,310	830	0	0	1,000	158.33
Oct-25	0	0	0	0	574	2,976	0	0	261	44,623	3,196	5,952	0	0	0	0	0	0	58,582	160.66
Nov-25	0	0	0	0	0	2,880	0	0	0	41,940	3,093	5,760	0	0	0	0	0	0	112,255	161.34
Dec-25	0	0	0	0	0	2,976	0	0	0	43,338	3,196	5,952	0	0	0	0	0	0	167,717	161.82
Jan-26	0	0	0	0	0	0	0	0	0	1,350	0	228	2	0	0	0	169,293	0	0	157.75
Feb-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-26	77540.58	1969.637	10884.54	1353.097	0	0	0	0	0	0	0	0	91,589	0	0	159	0	0	0	157.75
Jul-26	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9,527	0	0	1,811	0	0	0	157.75
Aug-26	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13,766	0	0	1,829	0	0	0	157.75
Sep-26	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28,902	0	0	708	0	0	0	157.75
Oct-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75

EAST (LAKE A53) SECTOR / IVR ATTENUATION POND

	INFLOWS												OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Runoff	Ore Runoff	Land Farm	Whale Tail Attenuation Pond	IVR Pit	IVR WRSF	North Sump	Whale Tail WRSF	Whale Tail Pit	Truck Shop	Camp Biodisk	Whale Tail Lake (North Basin)	Whale Tail Lake (South Basin)	O-WTP	Evaporation	Underground	Flush during Operations	Pond Volume	Water Level
May-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-27	77540.58	1969.637	10884.54	1353.097	0	0	0	0	0	0	0	0	91,589	0	0	159	0	0	0	157.75
Jul-27	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9,527	0	0	1,811	0	0	0	157.75
Aug-27	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13,766	0	0	1,829	0	0	0	157.75
Sep-27	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28,902	0	0	708	0	0	0	157.75
Oct-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-28	77556.62	1970.034	10886.79	1353.377	0	0	0	0	0	0	0	0	91,608	0	0	159	0	0	0	157.75
Jul-28	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9,527	0	0	1,811	0	0	0	157.75
Aug-28	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13,766	0	0	1,829	0	0	0	157.75
Sep-28	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28,902	0	0	708	0	0	0	157.75
Oct-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-29	77540.58	1969.637	10884.54	1353.097	0	0	0	0	0	0	0	0	91,589	0	0	159	0	0	0	157.75
Jul-29	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9,527	0	0	1,811	0	0	0	157.75
Aug-29	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13,766	0	0	1,829	0	0	0	157.75
Sep-29	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28,902	0	0	708	0	0	0	157.75
Oct-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-30	77540.58	1969.637	10884.54	1353.097	0	0	0	0	0	0	0	0	91,589	0	0	159	0	0	0	157.75
Jul-30	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9,527	0	0	1,811	0	0	0	157.75
Aug-30	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13,766	0	0	1,829	0	0	0	157.75
Sep-30	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28,902	0	0	708	0	0	0	157.75
Oct-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-31	77540.58	1969.637	10884.54	1353.097	0	0	0	0	0	0	0	0	91,589	0	0	159	0	0	0	157.75
Jul-31	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9,527	0	0	1,811	0	0	0	157.75
Aug-31	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13,766	0	0	1,829	0	0	0	157.75
Sep-31	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28,902	0	0	708	0	0	0	157.75
Oct-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75

EAST (LAKE A53) SECTOR / IVR ATTENUATION POND

	INFLOWS												OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Runoff	Ore Runoff	Land Farm	Whale Tail Attenuation Pond	IVR Pit	IVR WRSF	North Sump	Whale Tail WRSF	Whale Tail Pit	Truck Shop	Camp Biodisk	Whale Tail Lake (North Basin)	Whale Tail Lake (South Basin)	O-WTP	Evaporation	Underground	Flush during Operations	Pond Volume	Water Level
Jan-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-32	77556.62	1970.034	10886.79	1353.377	0	0	0	0	0	0	0	0	91,608	0	0	159	0	0	0	157.75
Jul-32	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9,527	0	0	1,811	0	0	0	157.75
Aug-32	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13,766	0	0	1,829	0	0	0	157.75
Sep-32	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28,902	0	0	708	0	0	0	157.75
Oct-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-33	77540.58	1969.637	10884.54	1353.097	0	0	0	0	0	0	0	0	91,589	0	0	159	0	0	0	157.75
Jul-33	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9,527	0	0	1,811	0	0	0	157.75
Aug-33	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13,766	0	0	1,829	0	0	0	157.75
Sep-33	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28,902	0	0	708	0	0	0	157.75
Oct-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-34	77540.58	1969.637	10884.54	1353.097	0	0	0	0	0	0	0	0	91,589	0	0	159	0	0	0	157.75
Jul-34	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9,527	0	0	1,811	0	0	0	157.75
Aug-34	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13,766	0	0	1,829	0	0	0	157.75
Sep-34	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28,902	0	0	708	0	0	0	157.75
Oct-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-35	77540.58	1969.637	10884.54	1353.097	0	0	0	0	0	0	0	0	91,589	0	0	159	0	0	0	157.75
Jul-35	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9,527	0	0	1,811	0	0	0	157.75
Aug-35	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13,766	0	0	1,829	0	0	0	157.75
Sep-35	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28,902	0	0	708	0	0	0	157.75
Oct-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-36	77556.62	1970.034	10886.79	1353.377	0	0	0	0	0	0	0	0	91,608	0	0	159	0	0	0	157.75
Jul-36	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9,527	0	0	1,811	0	0	0	157.75
Aug-36	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13,766	0	0	1,829	0	0	0	157.75

EAST (LAKE A53) SECTOR / IVR ATTENUATION POND

	INFLOWS												OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Runoff	Ore Runoff	Land Farm	Whale Tail Attenuation Pond	IVR Pit	IVR WRSF	North Sump	Whale Tail WRSF	Whale Tail Pit	Truck Shop	Camp Biodisk	Whale Tail Lake (North Basin)	Whale Tail Lake (South Basin)	O-WTP	Evaporation	Underground	Flush during Operations	Pond Volume	Water Level
Sep-36	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28,902	0	0	708	0	0	0	157.75
Oct-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-37	77540.58	1969.637	10884.54	1353.097	0	0	0	0	0	0	0	0	91,589	0	0	159	0	0	0	157.75
Jul-37	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9,527	0	0	1,811	0	0	0	157.75
Aug-37	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13,766	0	0	1,829	0	0	0	157.75
Sep-37	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28,902	0	0	708	0	0	0	157.75
Oct-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-38	77540.58	1969.637	10884.54	1353.097	0	0	0	0	0	0	0	0	91,589	0	0	159	0	0	0	157.75
Jul-38	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9,527	0	0	1,811	0	0	0	157.75
Aug-38	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13,766	0	0	1,829	0	0	0	157.75
Sep-38	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28,902	0	0	708	0	0	0	157.75
Oct-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-39	77540.58	1969.637	10884.54	1353.097	0	0	0	0	0	0	0	0	91,589	0	0	159	0	0	0	157.75
Jul-39	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9,527	0	0	1,811	0	0	0	157.75
Aug-39	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13,766	0	0	1,829	0	0	0	157.75
Sep-39	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28,902	0	0	708	0	0	0	157.75
Oct-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-40	77556.62	1970.034	10886.79	1353.377	0	0	0	0	0	0	0	0	91,608	0	0	159	0	0	0	157.75
Jul-40	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9,527	0	0	1,811	0	0	0	157.75
Aug-40	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13,766	0	0	1,829	0	0	0	157.75
Sep-40	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28,902	0	0	708	0	0	0	157.75
Oct-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75

EAST (LAKE A53) SECTOR / IVR ATTENUATION POND

	INFLOWS												OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Runoff	Ore Runoff	Land Farm	Whale Tail Attenuation Pond	IVR Pit	IVR WRSF	North Sump	Whale Tail WRSF	Whale Tail Pit	Truck Shop	Camp Biodisk	Whale Tail Lake (North Basin)	Whale Tail Lake (South Basin)	O-WTP	Evaporation	Underground	Flush during Operations	Pond Volume	Water Level
May-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-41	77540.58	1969.637	10884.54	1353.097	0	0	0	0	0	0	0	0	91,589	0	0	159	0	0	0	157.75
Jul-41	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9,527	0	0	1,811	0	0	0	157.75
Aug-41	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13,766	0	0	1,829	0	0	0	157.75
Sep-41	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28,902	0	0	708	0	0	0	157.75
Oct-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-42	77540.58	1969.637	10884.54	1353.097	0	0	0	0	0	0	0	0	91,589	0	0	159	0	0	0	157.75
Jul-42	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9,527	0	0	1,811	0	0	0	157.75
Aug-42	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13,766	0	0	1,829	0	0	0	157.75
Sep-42	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28,902	0	0	708	0	0	0	157.75
Oct-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-43	77540.58	1969.637	10884.54	1353.097	0	0	0	0	0	0	0	0	91588.53	0	0	159.3166	0	0	0	157.75
Jul-43	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9527.095	0	0	1810.899	0	0	0	157.75
Aug-43	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13766.02	0	0	1829.191	0	0	0	157.75
Sep-43	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28902.44	0	0	708.0739	0	0	0	157.75
Oct-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-44	77556.62	1970.034	10886.79	1353.377	0	0	0	0	0	0	0	0	91607.5	0	0	159.3166	0	0	0	157.75
Jul-44	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9527.095	0	0	1810.899	0	0	0	157.75
Aug-44	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13766.02	0	0	1829.191	0	0	0	157.75
Sep-44	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28902.44	0	0	708.0739	0	0	0	157.75
Oct-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-45	77540.58	1969.637	10884.54	1353.097	0	0	0	0	0	0	0	0	91588.53	0	0	159.3166	0	0	0	157.75
Jul-45	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9527.095	0	0	1810.899	0	0	0	157.75
Aug-45	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13766.02	0	0	1829.191	0	0	0	157.75
Sep-45	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28902.44	0	0	708.0739	0	0	0	157.75
Oct-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75

EAST (LAKE A53) SECTOR / IVR ATTENUATION POND

	INFLOWS												OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Runoff	Ore Runoff	Land Farm	Whale Tail Attenuation Pond	IVR Pit	IVR WRSF	North Sump	Whale Tail WRSF	Whale Tail Pit	Truck Shop	Camp Biodisk	Whale Tail Lake (North Basin)	Whale Tail Lake (South Basin)	O-WTP	Evaporation	Underground	Flush during Operations	Pond Volume	Water Level
Jan-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-46	77540.58	1969.637	10884.54	1353.097	0	0	0	0	0	0	0	0	91588.53	0	0	159.3166	0	0	0	157.75
Jul-46	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9527.095	0	0	1810.899	0	0	0	157.75
Aug-46	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13766.02	0	0	1829.191	0	0	0	157.75
Sep-46	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28902.44	0	0	708.0739	0	0	0	157.75
Oct-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-47	77540.58	1969.637	10884.54	1353.097	0	0	0	0	0	0	0	0	91588.53	0	0	159.3166	0	0	0	157.75
Jul-47	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9527.095	0	0	1810.899	0	0	0	157.75
Aug-47	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13766.02	0	0	1829.191	0	0	0	157.75
Sep-47	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28902.44	0	0	708.0739	0	0	0	157.75
Oct-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-48	77556.62	1970.034	10886.79	1353.377	0	0	0	0	0	0	0	0	91607.5	0	0	159.3166	0	0	0	157.75
Jul-48	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9527.095	0	0	1810.899	0	0	0	157.75
Aug-48	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13766.02	0	0	1829.191	0	0	0	157.75
Sep-48	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28902.44	0	0	708.0739	0	0	0	157.75
Oct-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-49	77540.58	1969.637	10884.54	1353.097	0	0	0	0	0	0	0	0	91588.53	0	0	159.3166	0	0	0	157.75
Jul-49	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9527.095	0	0	1810.899	0	0	0	157.75
Aug-49	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13766.02	0	0	1829.191	0	0	0	157.75
Sep-49	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28902.44	0	0	708.0739	0	0	0	157.75
Oct-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jan-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Feb-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Mar-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Apr-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
May-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Jun-50	77540.58	1969.637	10884.54	1353.097	0	0	0	0	0	0	0	0	91588.53	0	0	159.3166	0	0	0	157.75
Jul-50	9092.854	810.0847	1276.383	158.672	0	0	0	0	0	0	0	0	9527.095	0	0	1810.899	0	0	0	157.75
Aug-50	12692.92	899.0657	1781.732	221.4937	0	0	0	0	0	0	0	0	13766.02	0	0	1829.191	0	0	0	157.75

EAST (LAKE A53) SECTOR / IVR ATTENUATION POND

	INFLOWS												OUTFLOWS						STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Natural Runoff	Direct Runoff	Ore Runoff	Land Farm	Whale Tail Attenuation Pond	IVR Pit	IVR WRSF	North Sump	Whale Tail WRSF	Whale Tail Pit	Truck Shop	Camp Biodisk	Whale Tail Lake (North Basin)	Whale Tail Lake (South Basin)	O-WTP	Evaporation	Underground	Flush during Operations	Pond Volume	Water Level
Sep-50	24845.18	844.21	3487.571	433.5529	0	0	0	0	0	0	0	0	28902.44	0	0	708.0739	0	0	0	157.75
Oct-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Nov-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75
Dec-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157.75

WHALE TAIL LAKE (SOUTH BASIN)

	INFLOWS													OUTFLOWS										STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Rainfall Land Runoff	SWE Land Runoff	Rainfall Lake Runoff	SWE Lake Runoff	Lake A18	East Sector	Lake A55	Lake A60	Lake A62	Lake A65	Whale Tail Dike Seepage Pumping Station	Whale Tail Lake (North Basin)	Discharge from O-WTP	Overflow to WTN	Diversion Lake A16 (Mammoth Lake)	Groundwater Infiltration	IVR Pit	Camp Use	Dust Control	Truck Shop	Drilling Water	Evaporation	Drawdown to UG / IVR Pit	Pond Volume	Water Level
Jan-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,412	0	3,196	744	0	0	4,591,416	152.49
Feb-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,178	0	2,887	672	0	0	4,585,679	152.49
Mar-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,412	0	3,196	744	0	0	4,579,327	152.48
Apr-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,334	0	3,093	720	0	0	4,573,180	152.47
May-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,412	0	3,196	744	0	0	4,566,828	152.47
Jun-18	78,414	161,653	33,763	64,160	941,469	0	418,007	223,042	78,288	346,307	0	0	0	2,299,747	0	0	0	2,334	0	3,093	1,068	7,921	0	4,597,768	152.50
Jul-18	28,120	0	40,389	0	25,899	0	24,855	0	5,090	0	0	0	0	0	0	0	0	2,412	0	3,196	1,488	90,288	0	4,624,737	152.53
Aug-18	39,040	0	45,435	0	68,679	0	43,996	4,182	8,679	12,153	0	0	0	0	0	0	0	2,412	0	3,196	1,488	92,440	0	4,747,366	152.67
Sep-18	74,971	0	44,651	0	270,738	0	125,094	60,824	23,588	95,468	0	0	0	0	0	0	0	0	0	0	0	37,451	0	5,405,248	153.36
Oct-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,405,248	153.36
Nov-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,405,248	153.36
Dec-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,405,248	153.36
Jan-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,405,248	153.36
Feb-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,405,248	153.36
Mar-19	0	0	0	0	0	0	0	0	0	0	0	1,333,333	0	0	0	13,609	0	0	0	0	0	0	0	6,724,972	154.44
Apr-19	0	0	0	0	0	0	0	0	0	0	0	711,111	0	0	0	6,585	0	0	0	0	0	0	0	7,429,498	154.73
May-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,429,498	154.73
Jun-19	349,062	719,595	129,286	245,684	0	0	55,786	223,041	47,259	0	0	1,128,365	0	0	0	23,109	0	0	0	0	0	30,330	0	10,274,140	155.60
Jul-19	130,334	0	166,486	0	0	0	0	0	0	0	0	0	0	0	0	26,040	0	0	0	0	0	372,171	0	10,172,750	155.57
Aug-19	182,271	0	183,813	0	0	0	0	4,182	0	0	0	0	0	0	0	26,040	0	0	0	0	0	373,976	0	10,143,000	155.56
Sep-19	355,072	0	174,943	0	0	0	0	60,824	0	0	0	0	0	0	0	25,200	0	0	0	0	0	146,732	0	10,561,900	155.68
Oct-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26,040	0	0	0	0	0	0	0	10,535,860	155.67
Nov-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25,200	0	0	0	0	0	0	0	10,510,660	155.66
Dec-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26,040	0	0	0	0	0	0	0	10,484,620	155.65
Jan-20	0	0	0	0	0	0	0	0	0	0	10,800	0	0	0	0	31,310	0	0	0	0	0	0	0	10,464,110	155.65
Feb-20	0	0	0	0	0	0	0	0	0	0	10,440	0	0	0	0	29,290	0	0	0	0	0	0	0	10,445,260	155.64
Mar-20	0	0	0	0	0	0	0	0	0	0	11,160	0	0	0	0	31,310	0	0	0	0	0	0	0	10,425,110	155.64
Apr-20	0	0	0	0	0	0	0	0	0	0	10,800	0	0	0	0	30,300	0	0	0	0	0	0	0	10,405,610	155.63
May-20	0	0	0	0	0	0	0	0	0	0	11,160	0	0	0	0	31,310	0	0	0	0	0	0	0	10,385,460	155.63
Jun-20	354,607	731,251	148,714	282,688	0	139,524	0	223,088	0	0	10,800	0	0	0	377,986	30,300	0	0	0	0	0	34,887	0	11,832,960	156.00
Jul-20	125,761	0	182,970	0	0	5,652	0	0	0	0	11,160	0	0	0	0	31,310	0	0	0	0	0	409,019	0	11,718,170	155.97
Aug-20	175,857	0	202,193	0	0	12,010	0	4,182	0	0	11,160	0	0	0	0	31,310	0	0	0	0	0	411,370	0	11,680,900	155.96
Sep-20	343,411	0	190,974	0	0	40,778	0	60,824	0	0	10,800	0	0	0	304,244	30,300	0	0	0	0	0	160,178	0	11,832,960	156.00
Oct-20	0	0	0	0	0	0	0	0	0	0	11,160	0	0	0	0	31,310	0	0	0	0	0	0	0	11,812,810	155.99
Nov-20	0	0	0	0	0	0	0	0	0	0	10,800	0	0	0	0	30,300	0	0	0	0	0	0	0	11,793,310	155.99
Dec-20	0	0	0	0	0	0	0	0	0	0	11,160	0	0	0	0	31,310	0	0	0	0	0	0	0	11,773,160	155.99
Jan-21	0	0	0	0	0	0	0	0	0	0	11,310	0	0	0	0	31,620	0	0	0	0	0	0	0	11,752,850	155.98
Feb-21	0	0	0	0	0	0	0	0	0	0	10,220	0	0	0	0	28,560	0	0	0	0	0	0	0	11,734,510	155.98
Mar-21	0	0	0	0	0	0	0	0	0	0	11,315	0	0	0	0	31,620	0	0	0	0	0	0	0	11,714,210	155.97
Apr-21	0	0	0	0	0	0	0	0	0	0	10,950	0	0	0	0	30,600	0	0	0	0	0	0	0	11,694,560	155.97
May-21	0	0	0	0	0	0	0	0	0	0	11,315	0	0	0	0	31,620	0	0	0	0	0	0	0	11,674,250	155.96
Jun-21	349,929	721,384	153,788	292,244	0	139,495	0	223,041	0	0	10,950	0	455,239	0	2,120,681	30,600	0	0	0	0	0	36,078	0	11,832,960	156.00
Jul-21	125,647	0	183,381	0	0	5,652	0	0	0	0	11,315	0	95,427	0	11,817	31,620	0	0	0	0	0	409,938	0	11,801,010	155.99
Aug-21	175,371	0	203,586	0	0	12,010	0	4,182	0	0	11,315	0	101,414	0	30,100	31,620	0	0	0	0	0	414,206	0	11,832,960	156.00
Sep-21	343,200	0	191,264	0	0	40,778	0	60,824	0	0	10,950	0	165,393	0	621,388	30,600	0	0	0	0	0	160,421	0	11,832,960	156.00
Oct-21	0	0	0	0	0	0	0	0	0	0	11,315	0	31,073	0	10,768	31,620	0	0	0	0	0	0	0	11,832,960	156.00
Nov-21	0	0	0	0	0	0	0	0	0	0	10,950	0	25,500	0	5,850	30,600	0	0	0	0	0	0	0	11,832,960	156.00
Dec-21	0	0	0	0	0	0	0	0	0	0	11,315	0	26,350	0	6,045	31,620	0	0	0	0	0	0	0	11,832,960	156.00
Jan-22	0	0	0	0	0	0	0	0	0	0	11,165	0	26,350	0	5,895	31,620	0	0	0	0	0	0	0	11,832,960	156.00
Feb-22	0	0	0	0	0	0	0	0	0	0	10,080	0	23,800	0	5,320	28,560	0	0	0	0	0	0	0	11,832,960	156.00
Mar-22	0	0	0	0	0	0	0	0	0	0	11,160	0	26,350	0	5,890	31,620	0	0	0	0	0	0	0	11,832,960	156.00
Apr-22	0	0	0	0	0	0	0	0	0	0	10,800	0	102,248	0	82,448	30,600	0	0	0	0	0	0	0	11,832,960	156.00
May-22	0	0	0	0	0	0	0	0	0	0	11,160	0	55,213	0	34,753	31,620	0	0	0	0	0	0	0	11,832,960	156.00
Jun-22	349,863	721,248	153,859	292,380	0	0	0	223,041	0	0	10,800	0	632,235	0	2,316,732	30,600	0	0	0	0	0	36,095	0	11,832,960	156.00
Jul-22	125,621	0	183,474	0	0	0	0	0	0	0	11,160	0	131,780	0	22,952	31,620	0	0	0	0	0	410,146	0	11,820,280	156.00
Aug-22	175,340	0	203,676	0	0	0	0	4,182	0	0	11,160	0	126,930	0	62,597	31,620	0	0	0	0	0	414,387	0	11,832,960	156.00
Sep-22	343,200	0	191,264	0	0	0	0	60,824	0	0	10,800	0	207,781	0	622,848	30,600	0	0	0	0	0	160,421	0	11,832,960	156.00
Oct-22	0	0	0	0	0	0	0	0	0	0	11,160	0	8,865	0	6,405	31,620	0	0	0	0	0	0	0	11,814,960	156.00
Nov-22	0	0	0	0	0	0	0	0	0	0	10,800	0	1,800	0	0	30,600	0	0	0	0	0	0	0	11,796,960	155.99
Dec-22	0	0	0	0	0	0	0	0	0	0	11,160	0	1,860	0	0	31,620	0	0	0	0	0	0	0	11,778,360	155.99
Jan-23	0	0	0	0	0	0	0	0	0	0	11,160	0	2,760	0	0	31,620	0	0	0	0	0	0	0	11,760,660	155.98
Feb-23	0	0	0	0	0	0	0	0	0	0	10,080	0	2,520	0	0	28,560	0	0	0	0	0	0	0	11,744,700	155.98
Mar-23	0	0	0	0	0	0	0	0	0	0	11,160	0	2,790	0	0	31,620	0	0	0	0	0	0	0	11,727,030	155.97
Apr-23	0	0	0	0	0	0	0	0	0	0	10,800	0	2,700	0	0	30,600	0	0	0	0	0	0	0	11,709,930	155.97
May-23	0	0	0	0	0	0	0	0	0	0	11,160	0	2,790	0	0	31,620	0	0	0	0	0	0	0	11,692,260	155.96
Jun-23	349,922	721,368	153,796	292,260	0	0	0	223,041	0	0	10,800	0	862,550	0	2,406,357	30,600	0	0	0	0	0	36,080	0	11,832,960	156.00
Jul-23	125,605	0	183,532	0	0	0	0	0	0	0	11,160	0	228,230	0	106,631	31,620	0	0	0	0	0	410,276	0	11,832,960	156.00
Aug-23	175,334	0	203,692	0	0	0	0	4,182	0	0	11,160	0	141,857	0	90,184	31,620	0	0	0	0	0	414,420	0	11,832,960	156.00
Sep-23	343,200	0	191,264	0	0	0	0	60,824	0	0	10,800	0	212,603	0	627,670	30,600	0	0	0	0	0	160,421	0	11,832,960	156.00
Oct-23	0	0	0	0	0	0	0	0	0	0	11,160	0	9,894	0	6,534	31,620	0	0	0	0	0	0	0	11,815,860	156.00

WHALE TAIL LAKE (SOUTH BASIN)

	INFLOWS													OUTFLOWS										STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Rainfall Land Runoff	SWE Land Runoff	Rainfall Lake Runoff	SWE Lake Runoff	Lake A18	East Sector	Lake A55	Lake A60	Lake A62	Lake A65	Whale Tail Dike Seepage Pumping Station	Whale Tail Lake (North Basin)	Discharge from O-WTP	Overflow to WTN	Diversion Lake A16 (Mammoth Lake)	Groundwater Infiltration	IVR Pit	Camp Use	Dust Control	Truck Shop	Drilling Water	Evaporation	Drawdown to UG / IVR Pit	Pond Volume	Water Level
Nov-23	0	0	0	0	0	0	0	0	0	0	10,800	0	2,700	0	0	30,600	0	0	0	0	0	0	0	11,798,760	155.99
Dec-23	0	0	0	0	0	0	0	0	0	0	11,160	0	2,790	0	0	31,620	0	0	0	0	0	0	0	11,781,090	155.99
Jan-24	0	0	0	0	0	0	0	0	0	0	11,160	0	2,790	0	0	31,620	0	0	0	0	0	0	0	11,763,420	155.98
Feb-24	0	0	0	0	0	0	0	0	0	0	10,440	0	2,610	0	0	29,580	0	0	0	0	0	0	0	11,746,890	155.98
Mar-24	0	0	0	0	0	0	0	0	0	0	11,160	0	2,790	0	0	31,620	0	0	0	0	0	0	0	11,729,220	155.97
Apr-24	0	0	0	0	0	0	0	0	0	0	10,800	0	2,700	0	0	30,600	0	0	0	0	0	0	0	11,712,120	155.97
May-24	0	0	0	0	0	0	0	0	0	0	11,160	0	2,790	0	0	31,620	0	0	0	0	0	0	0	11,694,450	155.97
Jun-24	349,920	721,586	153,798	292,353	0	0	0	223,088	0	0	10,800	0	862,550	0	2,408,905	30,600	0	0	0	0	0	36,080	0	11,832,960	156.00
Jul-24	125,605	0	183,532	0	0	0	0	0	0	0	11,160	0	199,322	0	77,723	31,620	0	0	0	0	0	410,276	0	11,832,960	156.00
Aug-24	175,334	0	203,692	0	0	0	0	4,182	0	0	11,160	0	137,835	0	86,162	31,620	0	0	0	0	0	414,420	0	11,832,960	156.00
Sep-24	343,200	0	191,264	0	0	0	0	60,824	0	0	10,800	0	206,700	0	621,767	30,600	0	0	0	0	0	160,421	0	11,832,960	156.00
Oct-24	0	0	0	0	0	0	0	0	0	0	11,160	0	9,720	0	6,360	31,620	0	0	0	0	0	0	0	11,815,860	156.00
Nov-24	0	0	0	0	0	0	0	0	0	0	10,800	0	2,700	0	0	30,600	0	0	0	0	0	0	0	11,798,760	155.99
Dec-24	0	0	0	0	0	0	0	0	0	0	11,160	0	2,790	0	0	31,620	0	0	0	0	0	0	0	11,781,090	155.99
Jan-25	0	0	0	0	0	0	0	0	0	0	11,160	0	2,790	0	0	31,620	0	0	0	0	0	0	0	11,763,420	155.98
Feb-25	0	0	0	0	0	0	0	0	0	0	10,080	0	2,520	0	0	28,560	0	0	0	0	0	0	0	11,747,460	155.98
Mar-25	0	0	0	0	0	0	0	0	0	0	11,160	0	2,790	0	0	31,620	0	0	0	0	0	0	0	11,729,790	155.97
Apr-25	0	0	0	0	0	0	0	0	0	0	10,800	0	2,700	0	0	30,600	0	0	0	0	0	0	0	11,712,690	155.97
May-25	0	0	0	0	0	0	0	0	0	0	11,160	0	2,790	0	0	31,620	0	0	0	0	0	0	0	11,695,020	155.97
Jun-25	349,920	721,363	153,799	292,264	0	0	0	223,041	0	0	10,800	0	862,550	0	2,409,117	30,600	0	0	0	0	0	36,080	0	11,832,960	156.00
Jul-25	125,605	0	183,532	0	0	0	0	0	0	0	11,160	0	199,337	0	77,738	31,620	0	0	0	0	0	410,276	0	11,832,960	156.00
Aug-25	175,334	0	203,692	0	0	0	0	4,182	0	0	11,160	0	139,252	0	87,580	31,620	0	0	0	0	0	414,420	0	11,832,960	156.00
Sep-25	343,200	0	191,264	0	0	0	0	60,824	0	0	10,800	0	209,899	0	624,966	30,600	0	0	0	0	0	160,421	0	11,832,960	156.00
Oct-25	0	0	0	0	0	0	0	0	0	0	11,160	0	9,830	0	6,470	31,620	0	0	0	0	0	0	0	11,815,860	156.00
Nov-25	0	0	0	0	0	0	0	0	0	0	10,800	0	2,700	0	0	30,600	0	0	0	0	0	0	0	11,798,760	155.99
Dec-25	0	0	0	0	0	0	0	0	0	0	11,160	0	2,790	0	0	31,620	0	0	0	0	0	0	0	11,781,090	155.99
Jan-26	0	0	0	0	0	0	0	0	0	0	0	0	90	0	0	17,246	0	372	0	0	0	0	0	11,763,560	155.98
Feb-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,577	0	336	0	0	0	0	0	11,747,650	155.98
Mar-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,246	0	372	0	0	0	0	0	11,730,030	155.97
Apr-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,689	0	360	0	0	0	0	0	11,712,980	155.97
May-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,246	0	372	0	0	0	0	1,395,000	10,300,370	155.61
Jun-26	360,929	744,060	141,855	269,568	0	0	0	223,041	0	0	0	0	0	0	0	16,689	0	360	0	0	0	33,278	1,350,000	10,639,490	155.70
Jul-26	129,023	0	162,633	0	0	0	0	0	2,889	0	0	0	0	0	0	17,246	0	372	0	0	0	363,557	1,395,000	9,157,860	155.28
Aug-26	170,590	0	160,556	0	0	0	15,360	4,182	14,848	0	0	0	0	0	0	17,246	0	372	0	0	0	326,660	1,395,000	7,784,119	154.86
Sep-26	288,785	0	129,035	0	0	0	126,013	60,824	24,224	0	0	0	0	0	0	16,689	0	360	0	0	0	108,227	1,350,000	6,937,725	154.54
Oct-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,246	0	372	0	0	0	0	1,395,000	5,525,107	153.48
Nov-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,689	0	360	0	0	0	0	0	5,508,058	153.46
Dec-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,246	0	372	0	0	0	0	0	5,490,439	153.44
Jan-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,246	0	372	0	0	0	0	0	5,472,822	153.43
Feb-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,577	0	336	0	0	0	0	0	5,456,909	153.41
Mar-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,246	0	372	0	0	0	0	0	5,439,292	153.39
Apr-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,689	0	360	0	0	0	0	0	5,422,242	153.38
May-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,246	0	372	0	0	0	0	0	5,404,625	153.36
Jun-27	74,297	153,163	38,230	72,649	918,505	0	418,006	223,041	78,288	327,812	0	0	0	0	0	16,689	2,134,794	360	0	0	0	8,969	0	5,547,803	153.50
Jul-27	26,661	0	45,647	0	25,899	0	24,855	0	5,090	0	0	0	0	0	0	17,246	8,493	372	0	0	0	102,041	0	5,547,803	153.50
Aug-27	37,217	0	50,661	0	68,679	0	43,996	4,182	8,679	12,153	0	0	0	0	0	17,246	104,877	372	0	0	0	103,072	0	5,547,803	153.50
Sep-27	72,848	0	47,570	0	270,738	0	125,094	60,824	23,588	95,468	0	0	0	0	0	16,707	639,163	360	0	0	0	39,899	0	5,547,803	153.50
Oct-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,282	0	372	0	0	0	0	0	5,530,148	153.48
Nov-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,725	0	360	0	0	0	0	0	5,513,063	153.47
Dec-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,283	0	372	0	0	0	0	0	5,495,408	153.45
Jan-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,284	0	372	0	0	0	0	0	5,477,752	153.43
Feb-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,169	0	348	0	0	0	0	0	5,461,235	153.41
Mar-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,285	0	372	0	0	0	0	0	5,443,578	153.40
Apr-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,728	0	360	0	0	0	0	0	5,426,490	153.38
May-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,286	0	372	0	0	0	0	0	5,408,831	153.36
Jun-28	74,291	153,199	38,236	72,682	941,663	0	418,093	223,088	78,304	346,378	0	0	0	0	0	16,759	2,180,873	360	0	0	0	8,970	0	5,547,803	153.50
Jul-28	26,661	0	45,647	0	25,899	0	24,855	0	5,090	0	0	0	0	0	0	17,337	8,401	372	0	0	0	102,041	0	5,547,803	153.50
Aug-28	37,217	0	50,661	0	68,679	0	43,996	4,182	8,679	12,153	0	0	0	0	0	17,338	104,786	372	0	0	0	103,072	0	5,547,803	153.50
Sep-28	72,848	0	47,570	0	270,738	0	125,094	60,824	23,588	95,468	0	0	0	0	0	16,781	639,089	360	0	0	0	39,899	0	5,547,803	153.50
Oct-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,342	0	372	0	0	0	0	0	5,530,089	153.48
Nov-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,783	0	360	0	0	0	0	0	5,512,946	153.47
Dec-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,342	0	372	0	0	0	0	0	5,495,232	153.45
Jan-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,342	0	372	0	0	0	0	0	5,477,518	153.43
Feb-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,664	0	336	0	0	0	0	0	5,461,518	153.41
Mar-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,342	0	372	0	0	0	0	0	5,443,804	153.40
Apr-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,783	0	360	0	0	0	0	0	5,426,661	153.38
May-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,342	0	372	0	0	0	0	0	5,408,947	153.36
Jun-29	74,291	153,152	38,236	72,660	941,466	0	418,006	223,041	78,288	346,306	0	0	0	0	0	16,787	2,180,473	360	0	0	0	8,970	0	5,547,803	153.50
Jul-29	26,661	0	45,647	0	25,899	0	24,855	0	5,090	0	0	0	0	0	0	17,352	8,386	372	0	0	0	102,041	0	5,547,803	153.50
Aug-29	37,217	0	50,661	0	68,679	0	43,996	4,182	8,679	12,153	0	0	0	0	0	17,353	104,770	372	0	0	0	103,072	0	5,547,803	153.50

WHALE TAIL LAKE (SOUTH BASIN)

	INFLOWS													OUTFLOWS										STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Rainfall Land Runoff	SWE Land Runoff	Rainfall Lake Runoff	SWE Lake Runoff	Lake A18	East Sector	Lake A55	Lake A60	Lake A62	Lake A65	Whale Tail Dike Seepage Pumping Station	Whale Tail Lake (North Basin)	Discharge from O-WTP	Overflow to WTN	Diversion Lake A16 (Mammoth Lake)	Groundwater Infiltration	IVR Pit	Camp Use	Dust Control	Truck Shop	Drilling Water	Evaporation	Drawdown to UG / IVR Pit	Pond Volume	Water Level
Sep-29	72,848	0	47,570	0	270,738	0	125,094	60,824	23,588	95,468	0	0	0	0	0	16,794	639,076	360	0	0	0	39,899	0	5,547,803	153.50
Oct-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,355	0	372	0	0	0	0	0	5,530,076	153.48
Nov-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,795	0	360	0	0	0	0	0	5,512,920	153.47
Dec-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,355	0	372	0	0	0	0	0	5,495,193	153.45
Jan-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,355	0	372	0	0	0	0	0	5,477,466	153.43
Feb-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,676	0	336	0	0	0	0	0	5,461,454	153.41
Mar-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,355	0	372	0	0	0	0	0	5,443,727	153.40
Apr-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,796	0	360	0	0	0	0	0	5,426,571	153.38
May-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,355	0	372	0	0	0	0	0	5,408,844	153.36
Jun-30	74,291	153,152	38,236	72,660	941,466	0	418,006	223,041	78,288	346,306	0	0	0	0	0	16,799	2,180,358	360	0	0	0	8,970	0	5,547,803	153.50
Jul-30	26,661	0	45,647	0	25,899	0	24,855	0	5,090	0	0	0	0	0	0	17,362	8,376	372	0	0	0	102,041	0	5,547,803	153.50
Aug-30	37,217	0	50,661	0	68,679	0	43,996	4,182	8,679	12,153	0	0	0	0	0	17,362	104,761	372	0	0	0	103,072	0	5,547,803	153.50
Sep-30	72,848	0	47,570	0	270,738	0	125,094	60,824	23,588	95,468	0	0	0	0	0	16,803	639,066	360	0	0	0	39,899	0	5,547,803	153.50
Oct-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,365	0	372	0	0	0	0	0	5,530,066	153.48
Nov-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,805	0	360	0	0	0	0	0	5,512,901	153.47
Dec-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,365	0	372	0	0	0	0	0	5,495,164	153.45
Jan-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,365	0	372	0	0	0	0	0	5,477,427	153.43
Feb-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,685	0	336	0	0	0	0	0	5,461,406	153.41
Mar-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,365	0	372	0	0	0	0	0	5,443,669	153.40
Apr-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,805	0	360	0	0	0	0	0	5,426,504	153.38
May-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,365	0	372	0	0	0	0	0	5,408,767	153.36
Jun-31	74,291	153,152	38,236	72,660	941,466	0	418,006	223,041	78,288	346,306	0	0	0	0	0	16,809	2,180,271	360	0	0	0	8,970	0	5,547,803	153.50
Jul-31	26,661	0	45,647	0	25,899	0	24,855	0	5,090	0	0	0	0	0	0	17,373	8,365	372	0	0	0	102,041	0	5,547,803	153.50
Aug-31	37,217	0	50,661	0	68,679	0	43,996	4,182	8,679	12,153	0	0	0	0	0	17,374	104,750	372	0	0	0	103,072	0	5,547,803	153.50
Sep-31	72,848	0	47,570	0	270,738	0	125,094	60,824	23,588	95,468	0	0	0	0	0	16,815	639,055	360	0	0	0	39,899	0	5,547,803	153.50
Oct-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,377	0	372	0	0	0	0	0	5,530,053	153.48
Nov-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,817	0	360	0	0	0	0	0	5,512,877	153.47
Dec-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,377	0	372	0	0	0	0	0	5,495,128	153.45
Jan-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,377	0	372	0	0	0	0	0	5,477,379	153.43
Feb-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,256	0	348	0	0	0	0	0	5,460,774	153.41
Mar-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,377	0	372	0	0	0	0	0	5,443,025	153.40
Apr-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,817	0	360	0	0	0	0	0	5,425,847	153.38
May-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,378	0	372	0	0	0	0	0	5,408,098	153.36
Jun-32	74,291	153,199	38,236	72,682	941,663	0	418,093	223,088	78,304	346,378	0	0	0	0	0	16,821	2,180,078	360	0	0	0	8,970	0	5,547,803	153.50
Jul-32	26,661	0	45,647	0	25,899	0	24,855	0	5,090	0	0	0	0	0	0	17,387	8,351	372	0	0	0	102,041	0	5,547,803	153.50
Aug-32	37,217	0	50,661	0	68,679	0	43,996	4,182	8,679	12,153	0	0	0	0	0	17,388	104,735	372	0	0	0	103,072	0	5,547,803	153.50
Sep-32	72,848	0	47,570	0	270,738	0	125,094	60,824	23,588	95,468	0	0	0	0	0	16,828	639,041	360	0	0	0	39,899	0	5,547,803	153.50
Oct-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,391	0	372	0	0	0	0	0	5,530,040	153.48
Nov-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,830	0	360	0	0	0	0	0	5,512,850	153.47
Dec-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,391	0	372	0	0	0	0	0	5,495,086	153.45
Jan-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,391	0	372	0	0	0	0	0	5,477,323	153.43
Feb-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,708	0	336	0	0	0	0	0	5,461,278	153.41
Mar-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,392	0	372	0	0	0	0	0	5,443,515	153.40
Apr-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,831	0	360	0	0	0	0	0	5,426,324	153.38
May-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,392	0	372	0	0	0	0	0	5,408,561	153.36
Jun-33	74,291	153,152	38,236	72,660	941,466	0	418,006	223,041	78,288	346,306	0	0	0	0	0	16,835	2,180,038	360	0	0	0	8,970	0	5,547,803	153.50
Jul-33	26,661	0	45,647	0	25,899	0	24,855	0	5,090	0	0	0	0	0	0	17,403	8,336	372	0	0	0	102,041	0	5,547,803	153.50
Aug-33	37,217	0	50,661	0	68,679	0	43,996	4,182	8,679	12,153	0	0	0	0	0	17,403	104,720	372	0	0	0	103,072	0	5,547,803	153.50
Sep-33	72,848	0	47,570	0	270,738	0	125,094	60,824	23,588	95,468	0	0	0	0	0	16,843	639,026	360	0	0	0	39,899	0	5,547,803	153.50
Oct-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,407	0	372	0	0	0	0	0	5,530,024	153.48
Nov-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,845	0	360	0	0	0	0	0	5,512,819	153.47
Dec-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,407	0	372	0	0	0	0	0	5,495,040	153.45
Jan-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,407	0	372	0	0	0	0	0	5,477,261	153.43
Feb-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,722	0	336	0	0	0	0	0	5,461,203	153.41
Mar-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,407	0	372	0	0	0	0	0	5,443,423	153.40
Apr-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,846	0	360	0	0	0	0	0	5,426,218	153.38
May-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,407	0	372	0	0	0	0	0	5,408,438	153.36
Jun-34	74,291	153,152	38,236	72,660	941,466	0	418,006	223,041	78,288	346,306	0	0	0	0	0	16,851	2,179,901	360	0	0	0	8,970	0	5,547,803	153.50
Jul-34	26,661	0	45,647	0	25,899	0	24,855	0	5,090	0	0	0	0	0	0	17,419	8,320	372	0	0	0	102,041	0	5,547,803	153.50
Aug-34	37,217	0	50,661	0	68,679	0	43,996	4,182	8,679	12,153	0	0	0	0	0	17,419	104,704	372	0	0	0	103,072	0	5,547,803	153.50
Sep-34	72,848	0	47,570	0	270,738	0	125,094	60,824	23,588	95,468	0	0	0	0	0	16,859	639,011	360	0	0	0	39,899	0	5,547,803	153.50
Oct-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,424	0	372	0	0	0	0	0	5,530,007	153.48
Nov-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,862	0	360	0	0	0	0	0	5,512,784	153.47
Dec-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,425	0	372	0	0	0	0	0	5,494,988	153.45
Jan-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,425	0	372	0	0	0	0	0	5,477,191	153.43
Feb-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,739	0	336	0	0	0	0	0	5,461,116	153.41
Mar-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,425	0	372	0	0	0	0	0	5,443,318	153.40
Apr-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,863	0	360	0	0	0	0	0	5,426,096	153.38
May-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,426	0	372	0	0	0	0	0	5,408,298	153.36
Jun-35	74,291	153,152	38,236	72,660	941,466	0	418,006	223,041	78,288	346,306	0	0	0	0	0	16,875	2,179,736	360	0	0	0	8,970	0	5,547,803	153.50

WHALE TAIL LAKE (SOUTH BASIN)

	INFLOWS													OUTFLOWS										STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Rainfall Land Runoff	SWE Land Runoff	Rainfall Lake Runoff	SWE Lake Runoff	Lake A18	East Sector	Lake A55	Lake A60	Lake A62	Lake A65	Whale Tail Dike Seepage Pumping Station	Whale Tail Lake (North Basin)	Discharge from O-WTP	Overflow to WTN	Diversion Lake A16 (Mammoth Lake)	Groundwater Infiltration	IVR Pit	Camp Use	Dust Control	Truck Shop	Drilling Water	Evaporation	Drawdown to UG / IVR Pit	Pond Volume	Water Level
Jul-35	26,661	0	45,647	0	25,899	0	24,855	0	5,090	0	0	0	0	0	0	17,454	8,285	372	0	0	0	102,041	0	5,547,803	153.50
Aug-35	37,217	0	50,661	0	68,679	0	43,996	4,182	8,679	12,153	0	0	0	0	0	17,455	104,669	372	0	0	0	103,072	0	5,547,803	153.50
Sep-35	72,848	0	47,570	0	270,738	0	125,094	60,824	23,588	95,468	0	0	0	0	0	16,896	638,974	360	0	0	0	39,899	0	5,547,803	153.50
Oct-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,463	0	372	0	0	0	0	0	5,529,967	153.48
Nov-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,900	0	360	0	0	0	0	0	5,512,707	153.47
Dec-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,464	0	372	0	0	0	0	0	5,494,871	153.45
Jan-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,464	0	372	0	0	0	0	0	5,477,035	153.43
Feb-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,338	0	348	0	0	0	0	0	5,460,349	153.41
Mar-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,465	0	372	0	0	0	0	0	5,442,512	153.40
Apr-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,902	0	360	0	0	0	0	0	5,425,250	153.38
May-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,465	0	372	0	0	0	0	0	5,407,413	153.36
Jun-36	74,292	153,200	38,235	72,681	941,663	0	418,093	223,088	78,304	346,378	0	0	0	0	0	16,945	2,179,270	360	0	0	0	8,970	0	5,547,803	153.50
Jul-36	26,661	0	45,647	0	25,899	0	24,855	0	5,090	0	0	0	0	0	0	17,583	8,156	372	0	0	0	102,041	0	5,547,803	153.50
Aug-36	37,217	0	50,661	0	68,679	0	43,996	4,182	8,679	12,153	0	0	0	0	0	17,588	104,535	372	0	0	0	103,072	0	5,547,803	153.50
Sep-36	72,848	0	47,570	0	270,738	0	125,094	60,824	23,588	95,468	0	0	0	0	0	17,042	638,828	360	0	0	0	39,899	0	5,547,803	153.50
Oct-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,632	0	372	0	0	0	0	0	5,529,799	153.48
Nov-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,065	0	360	0	0	0	0	0	5,512,374	153.47
Dec-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,635	0	372	0	0	0	0	0	5,494,367	153.45
Jan-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,637	0	372	0	0	0	0	0	5,476,358	153.43
Feb-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,931	0	336	0	0	0	0	0	5,460,091	153.41
Mar-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,640	0	372	0	0	0	0	0	5,442,079	153.40
Apr-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,072	0	360	0	0	0	0	0	5,424,647	153.38
May-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,643	0	372	0	0	0	0	0	5,406,631	153.36
Jun-37	74,292	153,154	38,235	72,658	941,466	0	418,006	223,041	78,288	346,306	0	0	0	0	0	17,079	2,177,865	360	0	0	0	8,970	0	5,547,803	153.50
Jul-37	26,661	0	45,647	0	25,899	0	24,855	0	5,090	0	0	0	0	0	0	17,647	8,092	372	0	0	0	102,041	0	5,547,803	153.50
Aug-37	37,217	0	50,661	0	68,679	0	43,996	4,182	8,679	12,153	0	0	0	0	0	17,646	104,477	372	0	0	0	103,072	0	5,547,803	153.50
Sep-37	72,848	0	47,570	0	270,738	0	125,094	60,824	23,588	95,468	0	0	0	0	0	17,076	638,793	360	0	0	0	39,899	0	5,547,803	153.50
Oct-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,645	0	372	0	0	0	0	0	5,529,786	153.48
Nov-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,075	0	360	0	0	0	0	0	5,512,350	153.47
Dec-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,645	0	372	0	0	0	0	0	5,494,334	153.45
Jan-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,645	0	372	0	0	0	0	0	5,476,318	153.43
Feb-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,937	0	336	0	0	0	0	0	5,460,045	153.41
Mar-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,644	0	372	0	0	0	0	0	5,442,028	153.40
Apr-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,075	0	360	0	0	0	0	0	5,424,593	153.38
May-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,644	0	372	0	0	0	0	0	5,406,577	153.36
Jun-38	74,292	153,154	38,235	72,658	941,466	0	418,006	223,041	78,288	346,306	0	0	0	0	0	17,067	2,177,823	360	0	0	0	8,970	0	5,547,803	153.50
Jul-38	26,661	0	45,647	0	25,899	0	24,855	0	5,090	0	0	0	0	0	0	17,605	8,133	372	0	0	0	102,041	0	5,547,803	153.50
Aug-38	37,217	0	50,661	0	68,679	0	43,996	4,182	8,679	12,153	0	0	0	0	0	17,603	104,521	372	0	0	0	103,072	0	5,547,803	153.50
Sep-38	72,848	0	47,570	0	270,738	0	125,094	60,824	23,588	95,468	0	0	0	0	0	17,023	638,847	360	0	0	0	39,899	0	5,547,803	153.50
Oct-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,578	0	372	0	0	0	0	0	5,529,853	153.48
Nov-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,010	0	360	0	0	0	0	0	5,512,482	153.47
Dec-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,577	0	372	0	0	0	0	0	5,494,533	153.45
Jan-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,576	0	372	0	0	0	0	0	5,476,585	153.43
Feb-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,875	0	336	0	0	0	0	0	5,460,375	153.41
Mar-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,575	0	372	0	0	0	0	0	5,442,428	153.40
Apr-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,007	0	360	0	0	0	0	0	5,425,061	153.38
May-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17,574	0	372	0	0	0	0	0	5,407,115	153.36
Jun-39	74,292	153,153	38,235	72,659	941,466	0	418,006	223,041	78,288	346,306	0	0	0	0	0	16,919	2,178,509	360	0	0	0	8,970	0	5,547,803	153.50
Jul-39	26,661	0	45,647	0	25,899	0	24,855	0	5,090	0	0	0	0	0	0	17,193	8,545	372	0	0	0	102,041	0	5,547,803	153.50
Aug-39	37,217	0	50,661	0	68,679	0	43,996	4,182	8,679	12,153	0	0	0	0	0	17,170	104,953	372	0	0	0	103,072	0	5,547,803	153.50
Sep-39	72,848	0	47,570	0	270,738	0	125,094	60,824	23,588	95,468	0	0	0	0	0	16,507	639,362	360	0	0	0	39,899	0	5,547,803	153.50
Oct-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,947	0	372	0	0	0	0	0	5,530,483	153.48
Nov-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,396	0	360	0	0	0	0	0	5,513,727	153.47
Dec-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,939	0	372	0	0	0	0	0	5,496,417	153.45
Jan-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,934	0	372	0	0	0	0	0	5,479,110	153.43
Feb-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15,838	0	348	0	0	0	0	0	5,462,925	153.42
Mar-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,926	0	372	0	0	0	0	0	5,445,627	153.40
Apr-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,376	0	360	0	0	0	0	0	5,428,892	153.38
May-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,917	0	372	0	0	0	0	0	5,411,602	153.36
Jun-40	74,290	153,197	38,237	72,685	941,663	0	418,093	223,088	78,304	346,378	0	0	0	0	0	15,392	2,185,012	360	0	0	0	8,970	0	5,547,803	153.50
Jul-40	26,661	0	45,647	0	25,899	0	24,855	0	5,090	0	0	0	0	0	0	11,200	14,539	372	0	0	0	102,041	0	5,547,803	153.50
Aug-40	37,217	0	50,661	0	68,679	0	43,996	4,182	8,679	12,153	0	0	0	0	0	10,778	111,345	372	0	0	0	103,072	0	5,547,803	153.50
Sep-40	72,848	0	47,570	0	270,738	0	125,094	60,824	23,588	95,468	0	0	0	0	0	8,307	647,563	360	0	0	0	39,899	0	5,547,803	153.50
Oct-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,443	0	372	0	0	0	0	0	5,540,988	153.49
Nov-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,208	0	360	0	0	0	0	0	5,534,420	153.49
Dec-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,390	0	372	0	0	0	0	0	5,527,657	153.48
Jan-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,366	0	372	0	0	0	0	0	5,520,920	153.47
Feb-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,729	0	336	0	0	0	0	0	5,514,855	153.47
Mar-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,319	0	372	0	0	0	0	0	5,508,164	153.46
Apr-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,092	0	360	0	0	0	0	0	5,501,713	153.45

WHALE TAIL LAKE (SOUTH BASIN)

	INFLOWS													OUTFLOWS										STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Rainfall Land Runoff	SWE Land Runoff	Rainfall Lake Runoff	SWE Lake Runoff	Lake A18	East Sector	Lake A55	Lake A60	Lake A62	Lake A65	Whale Tail Dike Seepage Pumping Station	Whale Tail Lake (North Basin)	Discharge from O-WTP	Overflow to WTN	Diversion Lake A16 (Mammoth Lake)	Groundwater Infiltration	IVR Pit	Camp Use	Dust Control	Truck Shop	Drilling Water	Evaporation	Drawdown to UG / IVR Pit	Pond Volume	Water Level
May-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,271	0	372	0	0	0	0	0	5,495,070	153.45
Jun-41	74,268	153,104	38,261	72,708	941,466	0	418,006	223,041	78,288	346,306	0	0	0	0	0	4,030	2,279,348	360	0	0	0	8,976	0	5,547,803	153.50
Jul-41	26,661	0	45,647	0	25,899	0	24,855	0	5,090	0	0	0	0	0	0	2,423	23,315	372	0	0	0	102,041	0	5,547,803	153.50
Aug-41	37,217	0	50,661	0	68,679	0	43,996	4,182	8,679	12,153	0	0	0	0	0	2,354	119,769	372	0	0	0	103,072	0	5,547,803	153.50
Sep-41	72,848	0	47,570	0	270,738	0	125,094	60,824	23,588	95,468	0	0	0	0	0	1,874	653,995	360	0	0	0	39,899	0	5,547,803	153.50
Oct-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,578	0	372	0	0	0	0	0	5,545,853	153.50
Nov-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,526	0	360	0	0	0	0	0	5,543,968	153.50
Dec-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,575	0	372	0	0	0	0	0	5,542,020	153.49
Jan-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,574	0	372	0	0	0	0	0	5,540,074	153.49
Feb-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,421	0	336	0	0	0	0	0	5,538,317	153.49
Mar-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,572	0	372	0	0	0	0	0	5,536,373	153.49
Apr-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,520	0	360	0	0	0	0	0	5,534,493	153.49
May-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,570	0	372	0	0	0	0	0	5,532,551	153.48
Jun-42	74,263	153,094	38,267	72,718	941,466	0	418,006	223,041	78,288	346,306	0	0	0	0	0	539	2,320,320	360	0	0	0	8,977	0	5,547,803	153.50
Jul-42	26,661	0	45,647	0	25,899	0	24,855	0	5,090	0	0	0	0	0	0	33	25,705	372	0	0	0	102,041	0	5,547,803	153.50
Aug-42	37,217	0	50,661	0	68,679	0	43,996	4,182	8,679	12,153	0	0	0	0	0	33	122,090	372	0	0	0	103,072	0	5,547,803	153.50
Sep-42	72,848	0	47,570	0	270,738	0	125,094	60,824	23,588	95,468	0	0	0	0	0	32	656,146	51	0	0	0	39,899	0	5,547,803	153.50
Oct-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	5,547,770	153.50
Nov-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	5,547,738	153.50
Dec-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	5,547,704	153.50
Jan-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4999
Feb-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29.9661	0	0	0	0	0	0	0	5.55E+06	153.4998
Mar-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4998
Apr-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.10654	0	0	0	0	0	0	0	5.55E+06	153.4998
May-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4997
Jun-43	74262.51	153093.1	38266.86	72718.74	941466.2	0	418006.2	223041.1	78287.92	346305.6	0	0	0	0	0	32.10654	2.34E+06	0	0	0	0	8977.212	0	5.55E+06	153.5
Jul-43	26661.03	0	45646.84	0	25899.12	0	24855.04	0	5089.512	0	0	0	0	0	0	33.17676	26077.39	0	0	0	0	102041	0	5.55E+06	153.5
Aug-43	37216.72	0	50660.77	0	68678.95	0	43996.16	4181.555	8679.217	12153.48	0	0	0	0	0	33.17676	122462	0	0	0	0	103071.7	0	5.55E+06	153.5
Sep-43	72848.19	0	47569.75	0	270737.5	0	125093.5	60823.67	23587.6	95468.19	0	0	0	0	0	32.10654	656197.6	0	0	0	0	39898.72	0	5.55E+06	153.5
Oct-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.5
Nov-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.10654	0	0	0	0	0	0	0	5.55E+06	153.4999
Dec-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4999
Jan-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4999
Feb-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31.03632	0	0	0	0	0	0	0	5.55E+06	153.4998
Mar-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4998
Apr-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.10654	0	0	0	0	0	0	0	5.55E+06	153.4998
May-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4997
Jun-44	74262.51	153140.1	38266.86	72741.09	941662.5	0	418093.1	223087.8	78304.2	346378	0	0	0	0	0	32.10654	2.34E+06	0	0	0	0	8977.212	0	5.55E+06	153.5
Jul-44	26661.03	0	45646.84	0	25899.12	0	24855.04	0	5089.512	0	0	0	0	0	0	33.17676	26077.39	0	0	0	0	102041	0	5.55E+06	153.5
Aug-44	37216.72	0	50660.77	0	68678.95	0	43996.16	4181.555	8679.217	12153.48	0	0	0	0	0	33.17676	122462	0	0	0	0	103071.7	0	5.55E+06	153.5
Sep-44	72848.19	0	47569.75	0	270737.5	0	125093.5	60823.67	23587.6	95468.19	0	0	0	0	0	32.10654	656197.6	0	0	0	0	39898.72	0	5.55E+06	153.5
Oct-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.5
Nov-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.10654	0	0	0	0	0	0	0	5.55E+06	153.4999
Dec-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4999
Jan-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4999
Feb-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29.9661	0	0	0	0	0	0	0	5.55E+06	153.4998
Mar-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4998
Apr-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.10654	0	0	0	0	0	0	0	5.55E+06	153.4998
May-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4997
Jun-45	74262.51	153093.1	38266.86	72718.74	941466.2	0	418006.2	223041.1	78287.92	346305.6	0	0	0	0	0	32.10654	2.34E+06	0	0	0	0	8977.212	0	5.55E+06	153.5
Jul-45	26661.03	0	45646.84	0	25899.12	0	24855.04	0	5089.512	0	0	0	0	0	0	33.17676	26077.39	0	0	0	0	102041	0	5.55E+06	153.5
Aug-45	37216.72	0	50660.77	0	68678.95	0	43996.16	4181.555	8679.217	12153.48	0	0	0	0	0	33.17676	122462	0	0	0	0	103071.7	0	5.55E+06	153.5
Sep-45	72848.19	0	47569.75	0	270737.5	0	125093.5	60823.67	23587.6	95468.19	0	0	0	0	0	32.10654	656197.6	0	0	0	0	39898.72	0	5.55E+06	153.5
Oct-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.5
Nov-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.10654	0	0	0	0	0	0	0	5.55E+06	153.4999
Dec-45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4999
Jan-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4999
Feb-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29.9661	0	0	0	0	0	0	0	5.55E+06	153.4998
Mar-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4998
Apr-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.10654	0	0	0	0	0	0	0	5.55E+06	153.4998
May-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4997
Jun-46	74262.51	153093.1	38266.86	72718.74	941466.2	0	418006.2	223041.1	78287.92	346305.6	0	0	0	0	0	32.10654	2.34E+06	0	0	0	0	8977.212	0	5.55E+06	153.5
Jul-46	26661.03	0	45646.84	0	25899.12	0	24855.04	0	5089.512	0	0	0	0	0	0	33.17676	26077.39	0	0	0	0	102041	0	5.55E+06	153.5
Aug-46	37216.72	0	50660.77	0	68678.95	0	43996.16	4181.555	8679.217	12153.48	0	0	0	0	0	33.17676	122462	0	0	0	0	103071.7	0	5.55E+06	153.5
Sep-46	72848.19	0	47569.75	0	270737.5	0	125093.5	60823.67	23587.6	95468.19	0	0	0	0	0	32.10654	656197.6	0	0	0	0	39898.72	0	5.55E+06	153.5
Oct-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.5
Nov-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.10654	0	0	0	0	0	0	0	5.55E+06	153.4999
Dec-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4999
Jan-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4999
Feb-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29.9661	0	0	0	0	0	0	0	5.55E+06	153.4998

WHALE TAIL LAKE (SOUTH BASIN)

	INFLOWS													OUTFLOWS										STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Rainfall Land Runoff	SWE Land Runoff	Rainfall Lake Runoff	SWE Lake Runoff	Lake A18	East Sector	Lake A55	Lake A60	Lake A62	Lake A65	Whale Tail Dike Seepage Pumping Station	Whale Tail Lake (North Basin)	Discharge from O-WTP	Overflow to WTN	Diversion Lake A16 (Mammoth Lake)	Groundwater Infiltration	IVR Pit	Camp Use	Dust Control	Truck Shop	Drilling Water	Evaporation	Drawdown to UG / IVR Pit	Pond Volume	Water Level
Mar-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4998
Apr-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.10654	0	0	0	0	0	0	0	5.55E+06	153.4998
May-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4997
Jun-47	74262.51	153093.1	38266.86	72718.74	941466.2	0	418006.2	223041.1	78287.92	346305.6	0	0	0	0	0	32.10654	2.34E+06	0	0	0	0	8977.212	0	5.55E+06	153.5
Jul-47	26661.03	0	45646.84	0	25899.12	0	24855.04	0	5089.512	0	0	0	0	0	0	33.17676	26077.39	0	0	0	0	102041	0	5.55E+06	153.5
Aug-47	37216.72	0	50660.77	0	68678.95	0	43996.16	4181.555	8679.217	12153.48	0	0	0	0	0	33.17676	122462	0	0	0	0	103071.7	0	5.55E+06	153.5
Sep-47	72848.19	0	47569.75	0	270737.5	0	125093.5	60823.67	23587.6	95468.19	0	0	0	0	0	32.10654	656197.6	0	0	0	0	39898.72	0	5.55E+06	153.5
Oct-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.5
Nov-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.10654	0	0	0	0	0	0	0	5.55E+06	153.4999
Dec-47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4999
Jan-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4999
Feb-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31.03632	0	0	0	0	0	0	0	5.55E+06	153.4998
Mar-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4998
Apr-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.10654	0	0	0	0	0	0	0	5.55E+06	153.4998
May-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4997
Jun-48	74262.51	153140.1	38266.86	72741.09	941662.5	0	418093.1	223087.8	78304.2	346378	0	0	0	0	0	32.10654	2.34E+06	0	0	0	0	8977.212	0	5.55E+06	153.5
Jul-48	26661.03	0	45646.84	0	25899.12	0	24855.04	0	5089.512	0	0	0	0	0	0	33.17676	26077.39	0	0	0	0	102041	0	5.55E+06	153.5
Aug-48	37216.72	0	50660.77	0	68678.95	0	43996.16	4181.555	8679.217	12153.48	0	0	0	0	0	33.17676	122462	0	0	0	0	103071.7	0	5.55E+06	153.5
Sep-48	72848.19	0	47569.75	0	270737.5	0	125093.5	60823.67	23587.6	95468.19	0	0	0	0	0	32.10654	656197.6	0	0	0	0	39898.72	0	5.55E+06	153.5
Oct-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.5
Nov-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.10654	0	0	0	0	0	0	0	5.55E+06	153.4999
Dec-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4999
Jan-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4999
Feb-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29.9661	0	0	0	0	0	0	0	5.55E+06	153.4998
Mar-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4998
Apr-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.10654	0	0	0	0	0	0	0	5.55E+06	153.4998
May-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4997
Jun-49	74262.51	153093.1	38266.86	72718.74	941466.2	0	418006.2	223041.1	78287.92	346305.6	0	0	0	0	0	32.10654	2.34E+06	0	0	0	0	8977.212	0	5.55E+06	153.5
Jul-49	26661.03	0	45646.84	0	25899.12	0	24855.04	0	5089.512	0	0	0	0	0	0	33.17676	26077.39	0	0	0	0	102041	0	5.55E+06	153.5
Aug-49	37216.72	0	50660.77	0	68678.95	0	43996.16	4181.555	8679.217	12153.48	0	0	0	0	0	33.17676	122462	0	0	0	0	103071.7	0	5.55E+06	153.5
Sep-49	72848.19	0	47569.75	0	270737.5	0	125093.5	60823.67	23587.6	95468.19	0	0	0	0	0	32.10654	656197.6	0	0	0	0	39898.72	0	5.55E+06	153.5
Oct-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.5
Nov-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.10654	0	0	0	0	0	0	0	5.55E+06	153.4999
Dec-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4999
Jan-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4999
Feb-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29.9661	0	0	0	0	0	0	0	5.55E+06	153.4998
Mar-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4998
Apr-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.10654	0	0	0	0	0	0	0	5.55E+06	153.4998
May-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.4997
Jun-50	74262.51	153093.1	38266.86	72718.74	941466.2	0	418006.2	223041.1	78287.92	346305.6	0	0	0	0	0	32.10654	2.34E+06	0	0	0	0	8977.212	0	5.55E+06	153.5
Jul-50	26661.03	0	45646.84	0	25899.12	0	24855.04	0	5089.512	0	0	0	0	0	0	33.17676	26077.39	0	0	0	0	102041	0	5.55E+06	153.5
Aug-50	37216.72	0	50660.77	0	68678.95	0	43996.16	4181.555	8679.217	12153.48	0	0	0	0	0	33.17676	122462	0	0	0	0	103071.7	0	5.55E+06	153.5
Sep-50	72848.19	0	47569.75	0	270737.5	0	125093.5	60823.67	23587.6	95468.19	0	0	0	0	0	32.10654	656197.6	0	0	0	0	39898.72	0	5.55E+06	153.5
Oct-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.17676	0	0	0	0	0	0	0	5.55E+06	153.5
Nov-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.10654	0	0	0	0	0	0	0	5.55E+06	153.4999
Dec-50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.10654	0	0	0	0	0	0	0	5.55E+06	153.4999

Nemo Lake

	INFLOWS				OUTFLOWS								STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Net_Summer_Precipit	Net_Winter_Precipitation	NE_Pond_Dewatering	NC Channel	Evaporation	Camp_Use_Act	Truck_shop_Ac	Drilling_water_	Dust_control_A	UG_Actual	Cement_Actual	Discharge	Pond Volume	Water Level
Jan-18	0	0	0	0	0	0	0	0	0	303	0	0	8,359,697	7.08
Feb-18	0	0	0	0	0	0	0	0	0	122	0	0	8,359,575	7.08
Mar-18	0	0	0	0	0	0	0	0	0	135	0	0	8,359,440	7.08
Apr-18	0	0	0	0	0	0	0	0	0	131	0	0	8,359,309	7.08
May-18	0	0	0	0	0	0	0	0	0	135	0	0	8,359,174	7.08
Jun-18	124,903	262,523	0	0	10,867	0	0	0	0	0	0	375,733	8,360,000	7.08
Jul-18	82,037	0	0	0	123,526	0	0	0	0	0	0	0	8,318,511	7.05
Aug-18	99,562	0	0	0	124,774	0	0	0	0	0	0	0	8,293,299	7.03
Sep-18	139,791	0	0	0	48,300	2,334	3,093	1,440	0	0	0	17,922	8,360,000	7.08
Oct-18	0	0	0	0	0	2,412	3,196	1,488	0	0	0	0	8,352,904	7.08
Nov-18	0	0	0	0	0	2,334	3,093	1,440	0	0	0	0	8,346,037	7.07
Dec-18	0	0	0	0	0	2,412	3,196	1,128	0	0	0	0	8,339,301	7.07
Jan-19	0	0	0	0	0	2,412	3,196	744	0	0	0	0	8,332,950	7.06
Feb-19	0	0	0	0	0	2,178	2,887	672	0	0	0	0	8,327,212	7.06
Mar-19	0	0	0	0	0	2,412	3,196	744	0	0	0	0	8,320,860	7.05
Apr-19	0	0	0	0	0	2,334	3,093	720	0	0	0	0	8,314,713	7.05
May-19	0	0	0	0	0	2,412	3,196	744	0	0	0	0	8,308,362	7.04
Jun-19	124,903	238,257	0	0	10,867	2,334	3,093	1,069	0	0	0	294,158	8,360,000	7.08
Jul-19	82,037	0	0	0	123,526	2,412	3,196	1,488	0	0	0	0	8,311,415	7.04
Aug-19	99,562	0	0	0	124,774	2,412	3,196	1,488	0	0	0	0	8,279,107	7.02
Sep-19	139,791	0	0	0	48,300	2,334	3,093	1,440	0	0	0	3,731	8,360,000	7.08
Oct-19	0	0	0	0	0	2,412	3,196	1,488	0	0	0	0	8,352,904	7.08
Nov-19	0	0	0	0	0	2,334	3,093	1,440	0	0	0	0	8,346,037	7.07
Dec-19	0	0	0	0	0	2,412	3,196	1,488	0	0	0	0	8,338,941	7.07
Jan-20	0	0	0	0	0	2,412	3,196	1,488	0	0	0	0	8,331,846	7.06
Feb-20	0	0	0	0	0	2,256	2,990	1,392	0	0	0	0	8,325,207	7.06
Mar-20	0	0	0	0	0	2,412	3,196	1,488	0	0	0	0	8,318,112	7.05
Apr-20	0	0	0	0	0	2,334	3,093	1,440	0	0	0	0	8,311,245	7.04
May-20	0	0	0	0	0	2,412	3,196	1,488	0	0	0	0	8,304,149	7.04
Jun-20	124,903	238,330	0	0	10,867	2,334	3,093	1,440	0	0	0	289,647	8,360,000	7.08
Jul-20	82,037	0	0	8,559	123,526	2,412	3,196	2,976	0	0	0	0	8,318,486	7.05
Aug-20	99,562	0	0	11,948	124,774	2,412	3,196	2,976	0	0	0	0	8,296,638	7.03
Sep-20	139,791	0	0	23,387	48,300	2,334	3,093	2,880	0	0	0	43,209	8,360,000	7.08
Oct-20	0	0	0	0	0	2,412	3,196	2,976	0	0	0	0	8,351,416	7.08
Nov-20	0	0	0	0	0	2,334	3,093	2,880	0	0	0	0	8,343,109	7.07
Dec-20	0	0	0	0	0	2,412	3,196	2,976	0	0	0	0	8,334,525	7.06
Jan-21	0	0	0	0	0	2,412	3,196	2,976	0	0	1,626	0	8,324,316	7.05
Feb-21	0	0	0	0	0	2,178	2,887	2,688	0	0	1,468	0	8,315,095	7.05
Mar-21	0	0	0	0	0	2,412	3,196	2,976	0	0	1,626	0	8,304,885	7.04
Apr-21	0	0	0	0	0	2,334	3,093	2,880	0	0	1,573	0	8,295,004	7.03
May-21	0	0	0	0	0	2,412	3,196	2,976	0	0	1,626	0	8,284,795	7.02
Jun-21	124,903	238,257	0	72,990	10,867	2,334	3,093	2,880	0	0	1,573	340,198	8,360,000	7.08
Jul-21	82,037	0	0	8,559	123,526	2,412	3,196	2,976	0	0	1,626	0	8,316,861	7.05
Aug-21	99,562	0	0	11,948	124,774	2,412	3,196	2,976	0	0	1,626	0	8,293,387	7.03
Sep-21	139,791	0	0	23,387	48,300	2,334	3,093	2,880	0	0	1,573	38,385	8,360,000	7.08
Oct-21	0	0	0	0	0	2,412	3,196	2,976	0	0	1,626	0	8,349,790	7.08
Nov-21	0	0	0	0	0	2,334	3,093	2,880	0	0	1,573	0	8,339,911	7.07
Dec-21	0	0	0	0	0	2,412	3,196	2,976	0	0	1,626	0	8,329,701	7.06
Jan-22	0	0	0	0	0	2,412	3,196	2,976	0	0	1,725	0	8,319,393	7.05

Nemo Lake

	INFLOWS				OUTFLOWS								STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Net_Summer_Precipit	Net_Winter_Precipitation	NE_Pond_Dewatering	NC Channel	Evaporation	Camp_Use_Act	Truck_shop_Ac	Drilling_water_	Dust_control_A	UG_Actual	Cement_Actual	Discharge	Pond Volume	Water Level
Feb-22	0	0	0	0	0	2,178	2,887	2,688	0	0	1,558	0	8,310,081	7.04
Mar-22	0	0	0	0	0	2,412	3,196	2,976	0	0	1,725	0	8,299,773	7.03
Apr-22	0	0	0	0	0	2,334	3,093	2,880	0	0	1,669	0	8,289,798	7.03
May-22	0	0	0	0	0	2,412	3,196	2,976	0	0	1,725	0	8,279,489	7.02
Jun-22	124,903	238,257	0	72,990	10,867	2,334	3,093	2,880	0	0	1,669	334,796	8,360,000	7.08
Jul-22	82,037	0	0	8,559	123,526	2,412	3,196	2,976	0	0	1,725	0	8,316,761	7.05
Aug-22	99,562	0	0	11,948	124,774	2,412	3,196	2,976	0	0	1,725	0	8,293,189	7.03
Sep-22	139,791	0	0	23,387	48,300	2,334	3,093	2,880	0	0	1,669	38,091	8,360,000	7.08
Oct-22	0	0	0	0	0	2,412	3,196	2,976	0	0	1,725	0	8,349,692	7.08
Nov-22	0	0	0	0	0	2,334	3,093	2,880	0	0	1,669	0	8,339,716	7.07
Dec-22	0	0	0	0	0	2,412	3,196	2,976	0	0	1,725	0	8,329,407	7.06
Jan-23	0	0	0	0	0	2,412	3,196	2,976	0	0	758	0	8,320,065	7.05
Feb-23	0	0	0	0	0	2,178	2,887	2,688	0	0	685	0	8,311,627	7.04
Mar-23	0	0	0	0	0	2,412	3,196	2,976	0	0	758	0	8,302,284	7.04
Apr-23	0	0	0	0	0	2,334	3,093	2,880	0	0	734	0	8,293,243	7.03
May-23	0	0	0	0	0	2,412	3,196	2,976	0	0	758	0	8,283,901	7.02
Jun-23	124,903	238,257	0	72,990	10,867	2,334	3,093	2,880	0	0	734	340,143	8,360,000	7.08
Jul-23	82,037	0	0	8,559	123,526	2,412	3,196	2,976	0	0	758	0	8,317,727	7.05
Aug-23	99,562	0	0	11,948	124,774	2,412	3,196	2,976	0	0	758	0	8,295,121	7.03
Sep-23	139,791	0	0	23,387	48,300	2,334	3,093	2,880	0	0	734	40,958	8,360,000	7.08
Oct-23	0	0	0	0	0	2,412	3,196	2,976	0	0	758	0	8,350,658	7.08
Nov-23	0	0	0	0	0	2,334	3,093	2,880	0	0	734	0	8,341,617	7.07
Dec-23	0	0	0	0	0	2,412	3,196	2,976	0	0	758	0	8,332,275	7.06
Jan-24	0	0	0	0	0	2,412	3,196	2,976	0	0	2,016	0	8,321,675	7.05
Feb-24	0	0	0	0	0	2,256	2,990	2,784	0	0	1,886	0	8,311,759	7.04
Mar-24	0	0	0	0	0	2,412	3,196	2,976	0	0	2,016	0	8,301,160	7.03
Apr-24	0	0	0	0	0	2,334	3,093	2,880	0	0	1,951	0	8,290,902	7.03
May-24	0	0	0	0	0	2,412	3,196	2,976	0	0	2,016	0	8,280,302	7.02
Jun-24	124,903	238,330	0	73,006	10,867	2,334	3,093	2,880	0	0	1,951	335,416	8,360,000	7.08
Jul-24	82,037	0	0	8,559	123,526	2,412	3,196	2,976	0	0	2,016	0	8,316,471	7.05
Aug-24	99,562	0	0	11,948	124,774	2,412	3,196	2,976	0	0	2,016	0	8,292,607	7.03
Sep-24	139,791	0	0	23,387	48,300	2,334	3,093	2,880	0	0	1,951	37,227	8,360,000	7.08
Oct-24	0	0	0	0	0	2,412	3,196	2,976	0	0	2,016	0	8,349,401	7.08
Nov-24	0	0	0	0	0	2,334	3,093	2,880	0	0	1,951	0	8,339,143	7.07
Dec-24	0	0	0	0	0	2,412	3,196	2,976	0	0	2,016	0	8,328,543	7.06
Jan-25	0	0	0	0	0	2,412	3,196	2,976	0	0	730	0	8,319,229	7.05
Feb-25	0	0	0	0	0	2,178	2,887	2,688	0	0	659	0	8,310,817	7.04
Mar-25	0	0	0	0	0	2,412	3,196	2,976	0	0	730	0	8,301,503	7.04
Apr-25	0	0	0	0	0	2,334	3,093	2,880	0	0	707	0	8,292,489	7.03
May-25	0	0	0	0	0	2,412	3,196	2,976	0	0	730	0	8,283,175	7.02
Jun-25	124,903	238,257	0	72,990	10,867	2,334	3,093	2,880	0	0	707	339,445	8,360,000	7.08
Jul-25	82,037	0	0	8,559	123,526	2,412	3,196	2,976	0	0	730	0	8,317,756	7.05
Aug-25	99,562	0	0	11,948	124,774	2,412	3,196	2,976	0	0	730	0	8,295,178	7.03
Sep-25	139,791	0	0	23,387	48,300	2,334	3,093	2,880	0	0	707	41,042	8,360,000	7.08
Oct-25	0	0	0	0	0	2,412	3,196	2,976	0	0	730	0	8,350,686	7.08
Nov-25	0	0	0	0	0	2,334	3,093	2,880	0	0	707	0	8,341,673	7.07
Dec-25	0	0	0	0	0	2,412	3,196	2,976	0	0	730	0	8,332,359	7.06
Jan-26	0	0	0	0	0	0	0	0	0	0	0	0	8,332,359	7.06
Feb-26	0	0	0	0	0	0	0	0	0	0	0	0	8,332,359	7.06

Nemo Lake

	INFLOWS				OUTFLOWS								STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Net_Summer_Precipit	Net_Winter_Precipitation	NE_Pond_Dewatering	NC Channel	Evaporation	Camp_Use_Act	Truck_shop_Ac	Drilling_water_	Dust_control_A	UG_Actual	Cement_Actual	Discharge	Pond Volume	Water Level
Mar-26	0	0	0	0	0	0	0	0	0	0	0	0	8,332,359	7.06
Apr-26	0	0	0	0	0	0	0	0	0	0	0	0	8,332,359	7.06
May-26	0	0	0	0	0	0	0	0	0	0	0	0	8,332,359	7.06
Jun-26	124,903	238,257	0	0	10,867	0	0	0	0	0	0	324,651	8,360,000	7.08
Jul-26	82,037	0	0	0	123,526	0	0	0	0	0	0	0	8,318,511	7.05
Aug-26	99,562	0	0	0	124,774	0	0	0	0	0	0	0	8,293,299	7.03
Sep-26	139,791	0	0	0	48,300	0	0	0	0	0	0	24,789	8,360,000	7.08
Oct-26	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Nov-26	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Dec-26	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jan-27	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Feb-27	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Mar-27	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Apr-27	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
May-27	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jun-27	124,903	238,257	0	0	10,867	0	0	0	0	0	0	352,293	8,360,000	7.08
Jul-27	82,037	0	0	0	123,526	0	0	0	0	0	0	0	8,318,511	7.05
Aug-27	99,562	0	0	0	124,774	0	0	0	0	0	0	0	8,293,299	7.03
Sep-27	139,791	0	0	0	48,300	0	0	0	0	0	0	24,789	8,360,000	7.08
Oct-27	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Nov-27	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Dec-27	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jan-28	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Feb-28	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Mar-28	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Apr-28	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
May-28	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jun-28	124,903	238,330	0	0	10,867	0	0	0	0	0	0	352,366	8,360,000	7.08
Jul-28	82,037	0	0	0	123,526	0	0	0	0	0	0	0	8,318,511	7.05
Aug-28	99,562	0	0	0	124,774	0	0	0	0	0	0	0	8,293,299	7.03
Sep-28	139,791	0	0	0	48,300	0	0	0	0	0	0	24,789	8,360,000	7.08
Oct-28	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Nov-28	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Dec-28	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jan-29	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Feb-29	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Mar-29	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Apr-29	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
May-29	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jun-29	124,903	238,257	0	0	10,867	0	0	0	0	0	0	352,293	8,360,000	7.08
Jul-29	82,037	0	0	0	123,526	0	0	0	0	0	0	0	8,318,511	7.05
Aug-29	99,562	0	0	0	124,774	0	0	0	0	0	0	0	8,293,299	7.03
Sep-29	139,791	0	0	0	48,300	0	0	0	0	0	0	24,789	8,360,000	7.08
Oct-29	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Nov-29	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Dec-29	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jan-30	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Feb-30	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Mar-30	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08

Nemo Lake

	INFLOWS				OUTFLOWS								STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Net_Summer_Precipit	Net_Winter_Precipitation	NE_Pond_Dewatering	NC Channel	Evaporation	Camp_Use_Act	Truck_shop_Ac	Drilling_water_	Dust_control_A	UG_Actual	Cement_Actual	Discharge	Pond Volume	Water Level
Apr-30	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
May-30	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jun-30	124,903	238,257	0	0	10,867	0	0	0	0	0	0	352,293	8,360,000	7.08
Jul-30	82,037	0	0	0	123,526	0	0	0	0	0	0	0	8,318,511	7.05
Aug-30	99,562	0	0	0	124,774	0	0	0	0	0	0	0	8,293,299	7.03
Sep-30	139,791	0	0	0	48,300	0	0	0	0	0	0	24,789	8,360,000	7.08
Oct-30	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Nov-30	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Dec-30	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jan-31	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Feb-31	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Mar-31	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Apr-31	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
May-31	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jun-31	124,903	238,257	0	0	10,867	0	0	0	0	0	0	352,293	8,360,000	7.08
Jul-31	82,037	0	0	0	123,526	0	0	0	0	0	0	0	8,318,511	7.05
Aug-31	99,562	0	0	0	124,774	0	0	0	0	0	0	0	8,293,299	7.03
Sep-31	139,791	0	0	0	48,300	0	0	0	0	0	0	24,789	8,360,000	7.08
Oct-31	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Nov-31	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Dec-31	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jan-32	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Feb-32	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Mar-32	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Apr-32	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
May-32	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jun-32	124,903	238,330	0	0	10,867	0	0	0	0	0	0	352,366	8,360,000	7.08
Jul-32	82,037	0	0	0	123,526	0	0	0	0	0	0	0	8,318,511	7.05
Aug-32	99,562	0	0	0	124,774	0	0	0	0	0	0	0	8,293,299	7.03
Sep-32	139,791	0	0	0	48,300	0	0	0	0	0	0	24,789	8,360,000	7.08
Oct-32	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Nov-32	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Dec-32	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jan-33	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Feb-33	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Mar-33	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Apr-33	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
May-33	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jun-33	124,903	238,257	0	0	10,867	0	0	0	0	0	0	352,293	8,360,000	7.08
Jul-33	82,037	0	0	0	123,526	0	0	0	0	0	0	0	8,318,511	7.05
Aug-33	99,562	0	0	0	124,774	0	0	0	0	0	0	0	8,293,299	7.03
Sep-33	139,791	0	0	0	48,300	0	0	0	0	0	0	24,789	8,360,000	7.08
Oct-33	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Nov-33	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Dec-33	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jan-34	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Feb-34	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Mar-34	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Apr-34	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08

Nemo Lake

	INFLOWS				OUTFLOWS								STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Net_Summer_Precipit	Net_Winter_Precipitation	NE_Pond_Dewatering	NC Channel	Evaporation	Camp_Use_Act	Truck_shop_Ac	Drilling_water_	Dust_control_A	UG_Actual	Cement_Actual	Discharge	Pond Volume	Water Level
May-34	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jun-34	124,903	238,257	0	0	10,867	0	0	0	0	0	0	352,293	8,360,000	7.08
Jul-34	82,037	0	0	0	123,526	0	0	0	0	0	0	0	8,318,511	7.05
Aug-34	99,562	0	0	0	124,774	0	0	0	0	0	0	0	8,293,299	7.03
Sep-34	139,791	0	0	0	48,300	0	0	0	0	0	0	24,789	8,360,000	7.08
Oct-34	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Nov-34	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Dec-34	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jan-35	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Feb-35	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Mar-35	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Apr-35	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
May-35	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jun-35	124,903	238,257	0	0	10,867	0	0	0	0	0	0	352,293	8,360,000	7.08
Jul-35	82,037	0	0	0	123,526	0	0	0	0	0	0	0	8,318,511	7.05
Aug-35	99,562	0	0	0	124,774	0	0	0	0	0	0	0	8,293,299	7.03
Sep-35	139,791	0	0	0	48,300	0	0	0	0	0	0	24,789	8,360,000	7.08
Oct-35	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Nov-35	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Dec-35	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jan-36	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Feb-36	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Mar-36	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Apr-36	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
May-36	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jun-36	124,903	238,330	0	0	10,867	0	0	0	0	0	0	352,366	8,360,000	7.08
Jul-36	82,037	0	0	0	123,526	0	0	0	0	0	0	0	8,318,511	7.05
Aug-36	99,562	0	0	0	124,774	0	0	0	0	0	0	0	8,293,299	7.03
Sep-36	139,791	0	0	0	48,300	0	0	0	0	0	0	24,789	8,360,000	7.08
Oct-36	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Nov-36	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Dec-36	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jan-37	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Feb-37	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Mar-37	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Apr-37	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
May-37	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jun-37	124,903	238,257	0	0	10,867	0	0	0	0	0	0	352,293	8,360,000	7.08
Jul-37	82,037	0	0	0	123,526	0	0	0	0	0	0	0	8,318,511	7.05
Aug-37	99,562	0	0	0	124,774	0	0	0	0	0	0	0	8,293,299	7.03
Sep-37	139,791	0	0	0	48,300	0	0	0	0	0	0	24,789	8,360,000	7.08
Oct-37	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Nov-37	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Dec-37	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jan-38	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Feb-38	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Mar-38	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Apr-38	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
May-38	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08

Nemo Lake

	INFLOWS				OUTFLOWS								STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Net_Summer_Precipit	Net_Winter_Precipitation	NE_Pond_Dewatering	NC Channel	Evaporation	Camp_Use_Act	Truck_shop_Ac	Drilling_water_	Dust_control_A	UG_Actual	Cement_Actual	Discharge	Pond Volume	Water Level
Jun-38	124,903	238,257	0	0	10,867	0	0	0	0	0	0	352,293	8,360,000	7.08
Jul-38	82,037	0	0	0	123,526	0	0	0	0	0	0	0	8,318,511	7.05
Aug-38	99,562	0	0	0	124,774	0	0	0	0	0	0	0	8,293,299	7.03
Sep-38	139,791	0	0	0	48,300	0	0	0	0	0	0	24,789	8,360,000	7.08
Oct-38	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Nov-38	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Dec-38	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jan-39	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Feb-39	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Mar-39	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Apr-39	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
May-39	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jun-39	124,903	238,257	0	0	10,867	0	0	0	0	0	0	352,293	8,360,000	7.08
Jul-39	82,037	0	0	0	123,526	0	0	0	0	0	0	0	8,318,511	7.05
Aug-39	99,562	0	0	0	124,774	0	0	0	0	0	0	0	8,293,299	7.03
Sep-39	139,791	0	0	0	48,300	0	0	0	0	0	0	24,789	8,360,000	7.08
Oct-39	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Nov-39	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Dec-39	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jan-40	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Feb-40	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Mar-40	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Apr-40	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
May-40	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jun-40	124,903	238,330	0	0	10,867	0	0	0	0	0	0	352,366	8,360,000	7.08
Jul-40	82,037	0	0	0	123,526	0	0	0	0	0	0	0	8,318,511	7.05
Aug-40	99,562	0	0	0	124,774	0	0	0	0	0	0	0	8,293,299	7.03
Sep-40	139,791	0	0	0	48,300	0	0	0	0	0	0	24,789	8,360,000	7.08
Oct-40	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Nov-40	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Dec-40	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jan-41	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Feb-41	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Mar-41	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Apr-41	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
May-41	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jun-41	124,903	238,257	0	0	10,867	0	0	0	0	0	0	352,293	8,360,000	7.08
Jul-41	82,037	0	0	0	123,526	0	0	0	0	0	0	0	8,318,511	7.05
Aug-41	99,562	0	0	0	124,774	0	0	0	0	0	0	0	8,293,299	7.03
Sep-41	139,791	0	0	0	48,300	0	0	0	0	0	0	24,789	8,360,000	7.08
Oct-41	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Nov-41	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Dec-41	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jan-42	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Feb-42	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Mar-42	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Apr-42	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
May-42	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jun-42	124,903	238,257	0	0	10,867	0	0	0	0	0	0	352,293	8,360,000	7.08

Nemo Lake

	INFLOWS				OUTFLOWS								STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Net_Summer_Precipit	Net_Winter_Precipitation	NE_Pond_Dewatering	NC Channel	Evaporation	Camp_Use_Act	Truck_shop_Ac	Drilling_water_	Dust_control_A	UG_Actual	Cement_Actual	Discharge	Pond Volume	Water Level
Jul-42	82,037	0	0	0	123,526	0	0	0	0	0	0	0	8,318,511	7.05
Aug-42	99,562	0	0	0	124,774	0	0	0	0	0	0	0	8,293,299	7.03
Sep-42	139,791	0	0	0	48,300	0	0	0	0	0	0	24,789	8,360,000	7.08
Oct-42	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Nov-42	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Dec-42	0	0	0	0	0	0	0	0	0	0	0	0	8,360,000	7.08
Jan-43	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Feb-43	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Mar-43	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Apr-43	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
May-43	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Jun-43	124903.3	238256.7	0	0	10867.42	0	0	0.00E+00	0	0	0	352292.6	8.36E+06	7.084746
Jul-43	82037	0	0	0	123526.3	0	0	0	0	0	0	0	8.32E+06	7.049585
Aug-43	99561.93	0	0	0	124774	0	0	0	0	0	0	0	8.29E+06	7.028219
Sep-43	139790.5	0	0	0	48299.63	0	0	0	0	0	0	24789.41	8.36E+06	7.084746
Oct-43	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Nov-43	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Dec-43	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Jan-44	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Feb-44	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Mar-44	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Apr-44	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
May-44	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Jun-44	124903.3	238330	0	0	10867.42	0	0	0.00E+00	0	0	0	352365.9	8.36E+06	7.084746
Jul-44	82037	0	0	0	123526.3	0	0	0	0	0	0	0	8.32E+06	7.049585
Aug-44	99561.93	0	0	0	124774	0	0	0	0	0	0	0	8.29E+06	7.028219
Sep-44	139790.5	0	0	0	48299.63	0	0	0	0	0	0	24789.41	8.36E+06	7.084746
Oct-44	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Nov-44	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Dec-44	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Jan-45	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Feb-45	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Mar-45	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Apr-45	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
May-45	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Jun-45	124903.3	238256.7	0	0	10867.42	0	0	0.00E+00	0	0	0	352292.6	8.36E+06	7.084746
Jul-45	82037	0	0	0	123526.3	0	0	0	0	0	0	0	8.32E+06	7.049585
Aug-45	99561.93	0	0	0	124774	0	0	0	0	0	0	0	8.29E+06	7.028219
Sep-45	139790.5	0	0	0	48299.63	0	0	0	0	0	0	24789.41	8.36E+06	7.084746
Oct-45	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Nov-45	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Dec-45	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Jan-46	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Feb-46	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Mar-46	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Apr-46	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
May-46	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Jun-46	124903.3	238256.7	0	0	10867.42	0	0	0.00E+00	0	0	0	352292.6	8.36E+06	7.084746
Jul-46	82037	0	0	0	123526.3	0	0	0	0	0	0	0	8.32E+06	7.049585

Nemo Lake

	INFLOWS				OUTFLOWS								STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Net_Summer_Precipit	Net_Winter_Precipitation	NE_Pond_Dewatering	NC Channel	Evaporation	Camp_Use_Act	Truck_shop_Ac	Drilling_water_	Dust_control_A	UG_Actual	Cement_Actual	Discharge	Pond Volume	Water Level
Aug-46	99561.93	0	0	0	124774	0	0	0	0	0	0	0	8.29E+06	7.028219
Sep-46	139790.5	0	0	0	48299.63	0	0	0	0	0	0	24789.41	8.36E+06	7.084746
Oct-46	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Nov-46	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Dec-46	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Jan-47	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Feb-47	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Mar-47	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Apr-47	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
May-47	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Jun-47	124903.3	238256.7	0	0	10867.42	0	0	0.00E+00	0	0	0	352292.6	8.36E+06	7.084746
Jul-47	82037	0	0	0	123526.3	0	0	0	0	0	0	0	8.32E+06	7.049585
Aug-47	99561.93	0	0	0	124774	0	0	0	0	0	0	0	8.29E+06	7.028219
Sep-47	139790.5	0	0	0	48299.63	0	0	0	0	0	0	24789.41	8.36E+06	7.084746
Oct-47	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Nov-47	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Dec-47	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Jan-48	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Feb-48	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Mar-48	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Apr-48	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
May-48	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Jun-48	124903.3	238330	0	0	10867.42	0	0	0.00E+00	0	0	0	352365.9	8.36E+06	7.084746
Jul-48	82037	0	0	0	123526.3	0	0	0	0	0	0	0	8.32E+06	7.049585
Aug-48	99561.93	0	0	0	124774	0	0	0	0	0	0	0	8.29E+06	7.028219
Sep-48	139790.5	0	0	0	48299.63	0	0	0	0	0	0	24789.41	8.36E+06	7.084746
Oct-48	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Nov-48	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Dec-48	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Jan-49	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Feb-49	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Mar-49	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Apr-49	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
May-49	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Jun-49	124903.3	238256.7	0	0	10867.42	0	0	0.00E+00	0	0	0	352292.6	8.36E+06	7.084746
Jul-49	82037	0	0	0	123526.3	0	0	0	0	0	0	0	8.32E+06	7.049585
Aug-49	99561.93	0	0	0	124774	0	0	0	0	0	0	0	8.29E+06	7.028219
Sep-49	139790.5	0	0	0	48299.63	0	0	0	0	0	0	24789.41	8.36E+06	7.084746
Oct-49	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Nov-49	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Dec-49	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Jan-50	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Feb-50	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Mar-50	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Apr-50	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
May-50	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Jun-50	124903.3	238256.7	0	0	10867.42	0	0	0.00E+00	0	0	0	352292.6	8.36E+06	7.084746
Jul-50	82037	0	0	0	123526.3	0	0	0	0	0	0	0	8.32E+06	7.049585
Aug-50	99561.93	0	0	0	124774	0	0	0	0	0	0	0	8.29E+06	7.028219

Nemo Lake

	INFLOWS				OUTFLOWS								STORAGE	
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3	m
Date	Net_Summer_Precipit	Net_Winter_Precipitation	NE_Pond_Dewatering	NC Channel	Evaporation	Camp_Use_Act	Truck_shop_Ac	Drilling_water_	Dust_control_A	UG_Actual	Cement_Actual	Discharge	Pond Volume	Water Level
Sep-50	139790.5	0	0	0	48299.63	0	0	0	0	0	0	24789.41	8.36E+06	7.084746
Oct-50	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Nov-50	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746
Dec-50	0	0	0	0	0	0	0	0	0	0	0	0	8.36E+06	7.084746

WATER TREATMENT

	INFLOWS: Metal WTP						INFLOWS: TSS WTP	INFLOWS: RO Plant		INFLOWS: Saltmaker	Bypass	Total Inflows	Bypass	OUTLOWS: Lake A16 (Mammoth Lake) / Whale Tail Lake (South Basin)					OUTFLOWS: GSP (Brine)	Total Outflows
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon
Date	Quarry 1	Whale Tail Attenuation Pond	GSP-1	IVR Attenuation Pond (Contact Water)	Northeast Sector	IVR Attenuation Pond (Lake A53 Dewatering)	Whale Tail Lake (North Basin)	Whale Tail Attenuation Pond	GSP-2	GSP-1	A53 Bypass	Total Inflows	Bypass to Mammoth Lake	O-WTP to Mammoth Lake	O-WTP to Whale Tail Lake (South Basin)	S-WTP (Brackish) to Mammoth Lake	RO Permeate to Whale Tail Lake (South Basin)	S-WTP (Brine) to Whale Tail Lake (South Basin)	RO Brine to GSP-1	Total Discharge
Jan-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec-18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun-19	237,261	462,519	0	0	235,932	0	1,128,365	0	0	0	0	2,064,078	0	935,712	1,128,365	0	0	0	0	2,064,077
Jul-19	0	107,320	0	0	22,599	0	0	0	0	0	0	129,920	0	129,920	0	0	0	0	0	129,920
Aug-19	0	129,974	0	0	33,497	0	0	0	0	0	0	163,471	0	163,471	0	0	0	0	0	163,471
Sep-19	0	212,628	0	0	73,742	0	0	0	0	0	0	286,370	0	286,370	0	0	0	0	0	286,370
Oct-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun-20	0	476,647	236,680	0	235,981	0	0	0	0	0	0	949,308	0	949,308	0	0	0	0	0	949,308
Jul-20	0	87,355	482	0	0	0	0	0	0	0	0	87,837	0	87,837	0	0	0	0	0	87,837
Aug-20	0	108,876	0	0	0	0	0	0	0	0	0	108,876	0	108,876	0	0	0	0	0	108,876
Sep-20	0	181,702	0	0	0	0	0	0	0	0	0	181,702	0	181,702	0	0	0	0	0	181,702
Oct-20	0	0	0	0	0	0	0	31,000	0	0	0	31,000	0	0	0	26,350	0	0	4,650	31,000
Nov-20	0	0	0	0	0	0	0	30,000	0	0	0	30,000	0	0	0	25,500	0	0	4,500	30,000
Dec-20	0	0	0	0	0	0	0	31,000	0	0	0	31,000	0	0	0	26,350	0	0	4,650	31,000
Jan-21	0	0	0	0	0	0	0	31,000	0	0	0	31,000	0	0	0	26,350	0	0	4,650	31,000
Feb-21	0	0	0	0	0	0	0	28,000	0	0	0	28,000	0	0	0	23,800	0	0	4,200	28,000
Mar-21	0	0	0	0	0	0	0	31,000	0	0	0	31,000	0	0	0	26,350	0	0	4,650	31,000
Apr-21	0	0	0	0	0	0	0	30,000	0	0	0	30,000	0	0	0	25,500	0	0	4,500	30,000
May-21	0	0	0	0	0	0	0	31,000	0	0	0	31,000	0	0	0	26,350	0	0	4,650	31,000
Jun-21	0	480,098	0	0	0	0	0	0	0	0	0	480,098	0	480,098	0	0	0	0	0	480,098
Jul-21	0	82,532	0	0	0	0	0	0	0	0	0	82,532	0	82,532	0	0	0	0	0	82,532
Aug-21	0	102,043	0	0	0	0	0	0	0	0	0	102,043	0	102,043	0	0	0	0	0	102,043
Sep-21	0	167,690	0	0	0	0	0	0	0	0	0	167,690	0	167,690	0	0	0	0	0	167,690
Oct-21	0	0	0	0	0	0	0	31,000	0	0	0	31,000	0	0	0	0	26,350	0	4,650	31,000
Nov-21	0	0	0	0	0	0	0	30,000	0	0	0	30,000	0	0	0	0	25,500	0	4,500	30,000
Dec-21	0	0	0	0	0	0	0	31,000	0	0	0	31,000	0	0	0	0	26,350	0	4,650	31,000
Jan-22	0	0	0	0	0	0	0	31,000	0	0	0	31,000	0	0	0	0	26,350	0	4,650	31,000
Feb-22	0	0	0	0	0	0	0	28,000	0	0	0	28,000	0	0	0	0	23,800	0	4,200	28,000
Mar-22	0	0	0	0	0	0	0	31,000	0	0	0	31,000	0	0	0	0	26,350	0	4,650	31,000
Apr-22	0	0	0	0	0	0	0	0	0	1,740	103,157	104,897	103,157	0	0	0	0	1,740	0	104,897
May-22	0	0	0	0	0	51,578	0	0	0	1,860	0	53,438	0	51,578	0	0	0	1,860	0	53,438

WATER TREATMENT

	INFLOWS: Metal WTP						INFLOWS: TSS WTP	INFLOWS: RO Plant		INFLOWS: Saltmaker	Bypass	Total Inflows	Bypass	OUTLOWS: Lake A16 (Mammoth Lake) / Whale Tail Lake (South Basin)					OUTFLOWS: GSP (Brine)	Total Outflows
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon
Date	Quarry 1	Whale Tail Attenuation Pond	GSP-1	IVR Attenuation Pond (Contact Water)	Northeast Sector	IVR Attenuation Pond (Lake A53 Dewatering)	Whale Tail Lake (North Basin)	Whale Tail Attenuation Pond	GSP-2	GSP-1	A53 Bypass	Total Inflows	Bypass to Mammoth Lake	O-WTP to Mammoth Lake	O-WTP to Whale Tail Lake (South Basin)	S-WTP (Brackish) to Mammoth Lake	RO Permeate to Whale Tail Lake (South Basin)	S-WTP (Brine) to Whale Tail Lake (South Basin)	RO Brine to GSP-1	Total Discharge
Jun-22	0	0	0	639,831	0	0	0	0	18,022	1,800	0	659,653	0	639,831	0	0	15,319	1,800	2,703	659,653
Jul-22	0	0	0	108,080	0	0	0	0	6,726	1,860	0	116,666	0	108,080	0	0	5,717	1,860	1,009	116,666
Aug-22	0	0	0	119,690	0	0	0	0	7,083	1,860	0	128,633	0	119,690	0	0	6,021	1,860	1,062	128,633
Sep-22	0	0	0	202,025	0	0	0	0	8,121	1,800	0	211,945	0	202,025	0	0	6,903	1,800	1,218	211,945
Oct-22	0	0	0	0	0	0	0	0	0	1,860	0	1,860	0	0	0	0	0	1,860	0	1,860
Nov-22	0	0	0	0	0	0	0	0	0	1,800	0	1,800	0	0	0	0	0	1,800	0	1,800
Dec-22	0	0	0	0	0	0	0	0	0	1,860	0	1,860	0	0	0	0	0	1,860	0	1,860
Jan-23	0	0	0	0	0	0	0	0	0	2,790	0	2,790	0	0	0	0	0	2,790	0	2,790
Feb-23	0	0	0	0	0	0	0	0	0	2,520	0	2,520	0	0	0	0	0	2,520	0	2,520
Mar-23	0	0	0	0	0	0	0	0	0	2,790	0	2,790	0	0	0	0	0	2,790	0	2,790
Apr-23	0	0	0	0	0	0	0	0	0	2,700	0	2,700	0	0	0	0	0	2,700	0	2,700
May-23	0	0	0	0	0	0	0	0	0	2,790	0	2,790	0	0	0	0	0	2,790	0	2,790
Jun-23	0	0	0	864,000	0	0	0	0	30,000	2,700	0	896,700	0	864,000	0	0	25,500	2,700	4,500	896,700
Jul-23	0	0	0	183,569	0	0	0	0	31,000	2,790	0	217,359	0	183,569	0	0	26,350	2,790	4,650	217,359
Aug-23	0	0	0	113,269	0	0	0	0	31,000	2,790	0	147,059	0	113,269	0	0	26,350	2,790	4,650	147,059
Sep-23	0	0	0	187,019	0	0	0	0	30,000	2,700	0	219,719	0	187,019	0	0	25,500	2,700	4,500	219,719
Oct-23	0	0	0	0	0	0	0	0	0	2,790	0	2,790	0	0	0	0	0	2,790	0	2,790
Nov-23	0	0	0	0	0	0	0	0	0	2,700	0	2,700	0	0	0	0	0	2,700	0	2,700
Dec-23	0	0	0	0	0	0	0	0	0	2,790	0	2,790	0	0	0	0	0	2,790	0	2,790
Jan-24	0	0	0	0	0	0	0	0	0	2,790	0	2,790	0	0	0	0	0	2,790	0	2,790
Feb-24	0	0	0	0	0	0	0	0	0	2,610	0	2,610	0	0	0	0	0	2,610	0	2,610
Mar-24	0	0	0	0	0	0	0	0	0	2,790	0	2,790	0	0	0	0	0	2,790	0	2,790
Apr-24	0	0	0	0	0	0	0	0	0	2,700	0	2,700	0	0	0	0	0	2,700	0	2,700
May-24	0	0	0	0	0	0	0	0	0	2,790	0	2,790	0	0	0	0	0	2,790	0	2,790
Jun-24	0	0	0	864,000	0	0	0	0	30,000	2,700	0	896,700	0	864,000	0	0	25,500	2,700	4,500	896,700
Jul-24	0	0	0	147,481	0	0	0	0	31,000	2,790	0	181,271	0	147,481	0	0	26,350	2,790	4,650	181,271
Aug-24	0	0	0	109,233	0	0	0	0	31,000	2,790	0	143,023	0	109,233	0	0	26,350	2,790	4,650	143,023
Sep-24	0	0	0	181,049	0	0	0	0	30,000	2,700	0	213,749	0	181,049	0	0	25,500	2,700	4,500	213,749
Oct-24	0	0	0	0	0	0	0	0	0	2,790	0	2,790	0	0	0	0	0	2,790	0	2,790
Nov-24	0	0	0	0	0	0	0	0	0	2,700	0	2,700	0	0	0	0	0	2,700	0	2,700
Dec-24	0	0	0	0	0	0	0	0	0	2,790	0	2,790	0	0	0	0	0	2,790	0	2,790
Jan-25	0	0	0	0	0	0	0	0	0	2,790	0	2,790	0	0	0	0	0	2,790	0	2,790
Feb-25	0	0	0	0	0	0	0	0	0	2,520	0	2,520	0	0	0	0	0	2,520	0	2,520
Mar-25	0	0	0	0	0	0	0	0	0	2,790	0	2,790	0	0	0	0	0	2,790	0	2,790
Apr-25	0	0	0	0	0	0	0	0	0	2,700	0	2,700	0	0	0	0	0	2,700	0	2,700
May-25	0	0	0	0	0	0	0	0	0	2,790	0	2,790	0	0	0	0	0	2,790	0	2,790
Jun-25	0	0	0	864,000	0	0	0	0	30,000	2,700	0	896,700	0	864,000	0	0	25,500	2,700	4,500	896,700
Jul-25	0	0	0	144,910	0	0	0	0	31,000	2,790	0	178,700	0	144,910	0	0	26,350	2,790	4,650	178,700
Aug-25	0	0	0	110,698	0	0	0	0	31,000	2,790	0	144,488	0	110,698	0	0	26,350	2,790	4,650	144,488
Sep-25	0	0	0	184,310	0	0	0	0	30,000	2,700	0	217,010	0	184,310	0	0	25,500	2,700	4,500	217,010
Oct-25	0	0	0	0	0	0	0	0	0	2,790	0	2,790	0	0	0	0	0	2,790	0	2,790
Nov-25	0	0	0	0	0	0	0	0	0	2,700	0	2,700	0	0	0	0	0	2,700	0	2,700
Dec-25	0	0	0	0	0	0	0	0	0	2,790	0	2,790	0	0	0	0	0	2,790	0	2,790
Jan-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

WATER TREATMENT

	INFLOWS: Metal WTP						INFLOWS: TSS WTP	INFLOWS: RO Plant		INFLOWS: Saltmaker	Bypass	Total Inflows	Bypass	OUTLOWS: Lake A16 (Mammoth Lake) / Whale Tail Lake (South Basin)					OUTFLOWS: GSP (Brine)	Total Outflows
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon
Date	Quarry 1	Whale Tail Attenuation Pond	GSP-1	IVR Attenuation Pond (Contact Water)	Northeast Sector	IVR Attenuation Pond (Lake A53 Dewatering)	Whale Tail Lake (North Basin)	Whale Tail Attenuation Pond	GSP-2	GSP-1	A53 Bypass	Total Inflows	Bypass to Mammoth Lake	O-WTP to Mammoth Lake	O-WTP to Whale Tail Lake (South Basin)	S-WTP (Brackish) to Mammoth Lake	RO Permeate to Whale Tail Lake (South Basin)	S-WTP (Brine) to Whale Tail Lake (South Basin)	RO Brine to GSP-1	Total Discharge
Nov-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec-26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec-27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

WATER TREATMENT

	INFLOWS: Metal WTP						INFLOWS: TSS WTP	INFLOWS: RO Plant		INFLOWS: Saltmaker	Bypass	Total Inflows	Bypass	OUTLOWS: Lake A16 (Mammoth Lake) / Whale Tail Lake (South Basin)					OUTFLOWS: GSP (Brine)	Total Outflows
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon
Date	Quarry 1	Whale Tail Attenuation Pond	GSP-1	IVR Attenuation Pond (Contact Water)	Northeast Sector	IVR Attenuation Pond (Lake A53 Dewatering)	Whale Tail Lake (North Basin)	Whale Tail Attenuation Pond	GSP-2	GSP-1	A53 Bypass	Total Inflows	Bypass to Mammoth Lake	O-WTP to Mammoth Lake	O-WTP to Whale Tail Lake (South Basin)	S-WTP (Brackish) to Mammoth Lake	RO Permeate to Whale Tail Lake (South Basin)	S-WTP (Brine) to Whale Tail Lake (South Basin)	RO Brine to GSP-1	Total Discharge
Apr-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec-31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec-32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec-33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

WATER TREATMENT

	INFLOWS: Metal WTP						INFLOWS: TSS WTP	INFLOWS: RO Plant		INFLOWS: Saltmaker	Bypass	Total Inflows	Bypass	OUTLOWS: Lake A16 (Mammoth Lake) / Whale Tail Lake (South Basin)					OUTFLOWS: GSP (Brine)	Total Outflows
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon
Date	Quarry 1	Whale Tail Attenuation Pond	GSP-1	IVR Attenuation Pond (Contact Water)	Northeast Sector	IVR Attenuation Pond (Lake A53 Dewatering)	Whale Tail Lake (North Basin)	Whale Tail Attenuation Pond	GSP-2	GSP-1	A53 Bypass	Total Inflows	Bypass to Mammoth Lake	O-WTP to Mammoth Lake	O-WTP to Whale Tail Lake (South Basin)	S-WTP (Brackish) to Mammoth Lake	RO Permeate to Whale Tail Lake (South Basin)	S-WTP (Brine) to Whale Tail Lake (South Basin)	RO Brine to GSP-1	Total Discharge
Sep-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec-35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec-36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec-37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

WATER TREATMENT

	INFLOWS: Metal WTP						INFLOWS: TSS WTP	INFLOWS: RO Plant		INFLOWS: Saltmaker	Bypass	Total Inflows	Bypass	OUTLOWS: Lake A16 (Mammoth Lake) / Whale Tail Lake (South Basin)					OUTFLOWS: GSP (Brine)	Total Outflows
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon
Date	Quarry 1	Whale Tail Attenuation Pond	GSP-1	IVR Attenuation Pond (Contact Water)	Northeast Sector	IVR Attenuation Pond (Lake A53 Dewatering)	Whale Tail Lake (North Basin)	Whale Tail Attenuation Pond	GSP-2	GSP-1	A53 Bypass	Total Inflows	Bypass to Mammoth Lake	O-WTP to Mammoth Lake	O-WTP to Whale Tail Lake (South Basin)	S-WTP (Brackish) to Mammoth Lake	RO Permeate to Whale Tail Lake (South Basin)	S-WTP (Brine) to Whale Tail Lake (South Basin)	RO Brine to GSP-1	Total Discharge
Feb-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec-42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan-43	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0
Feb-43	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0
Mar-43	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0
Apr-43	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0
May-43	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0
Jun-43	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0
Jul-43	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0
Aug-43	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0
Sep-43	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0
Oct-43	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0
Nov-43	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0
Dec-43	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0
Jan-44	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0
Feb-44	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0
Mar-44	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0
Apr-44	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0
May-44	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0
Jun-44	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0

WATER TREATMENT

	INFLOWS: Metal WTP						INFLOWS: TSS WTP	INFLOWS: RO Plant		INFLOWS: Saltmaker	Bypass	Total Inflows	Bypass	OUTLOWS: Lake A16 (Mammoth Lake) / Whale Tail Lake (South Basin)					OUTFLOWS: GSP (Brine)	Total Outflows
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon
Date	Quarry 1	Whale Tail Attenuation Pond	GSP-1	IVR Attenuation Pond (Contact Water)	Northeast Sector	IVR Attenuation Pond (Lake A53 Dewatering)	Whale Tail Lake (North Basin)	Whale Tail Attenuation Pond	GSP-2	GSP-1	A53 Bypass	Total Inflows	Bypass to Mammoth Lake	O-WTP to Mammoth Lake	O-WTP to Whale Tail Lake (South Basin)	S-WTP (Brackish) to Mammoth Lake	RO Permeate to Whale Tail Lake (South Basin)	S-WTP (Brine) to Whale Tail Lake (South Basin)	RO Brine to GSP-1	Total Discharge
Jul-44	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Aug-44	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Sep-44	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Oct-44	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Nov-44	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Dec-44	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Jan-45	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Feb-45	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Mar-45	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Apr-45	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
May-45	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Jun-45	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Jul-45	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Aug-45	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Sep-45	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Oct-45	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Nov-45	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Dec-45	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Jan-46	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Feb-46	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Mar-46	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Apr-46	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
May-46	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Jun-46	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Jul-46	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Aug-46	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Sep-46	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Oct-46	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Nov-46	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Dec-46	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Jan-47	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Feb-47	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Mar-47	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Apr-47	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
May-47	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Jun-47	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Jul-47	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Aug-47	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Sep-47	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Oct-47	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Nov-47	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Dec-47	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Jan-48	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Feb-48	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Mar-48	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Apr-48	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
May-48	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Jun-48	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Jul-48	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Aug-48	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Sep-48	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Oct-48	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Nov-48	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0

WATER TREATMENT

	INFLOWS: Metal WTP						INFLOWS: TSS WTP	INFLOWS: RO Plant		INFLOWS: Saltmaker	Bypass	Total Inflows	Bypass	OUTLOWS: Lake A16 (Mammoth Lake) / Whale Tail Lake (South Basin)					OUTFLOWS: GSP (Brine)	Total Outflows
	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon	m3/mon
Date	Quarry 1	Whale Tail Attenuation Pond	GSP-1	IVR Attenuation Pond (Contact Water)	Northeast Sector	IVR Attenuation Pond (Lake A53 Dewatering)	Whale Tail Lake (North Basin)	Whale Tail Attenuation Pond	GSP-2	GSP-1	A53 Bypass	Total Inflows	Bypass to Mammoth Lake	O-WTP to Mammoth Lake	O-WTP to Whale Tail Lake (South Basin)	S-WTP (Brackish) to Mammoth Lake	RO Permeate to Whale Tail Lake (South Basin)	S-WTP (Brine) to Whale Tail Lake (South Basin)	RO Brine to GSP-1	Total Discharge
Dec-48	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Jan-49	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Feb-49	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Mar-49	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Apr-49	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
May-49	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Jun-49	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Jul-49	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Aug-49	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Sep-49	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Oct-49	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Nov-49	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Dec-49	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Jan-50	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Feb-50	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Mar-50	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Apr-50	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
May-50	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Jun-50	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Jul-50	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Aug-50	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Sep-50	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Oct-50	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Nov-50	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Dec-50	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0

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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

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March 2020

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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
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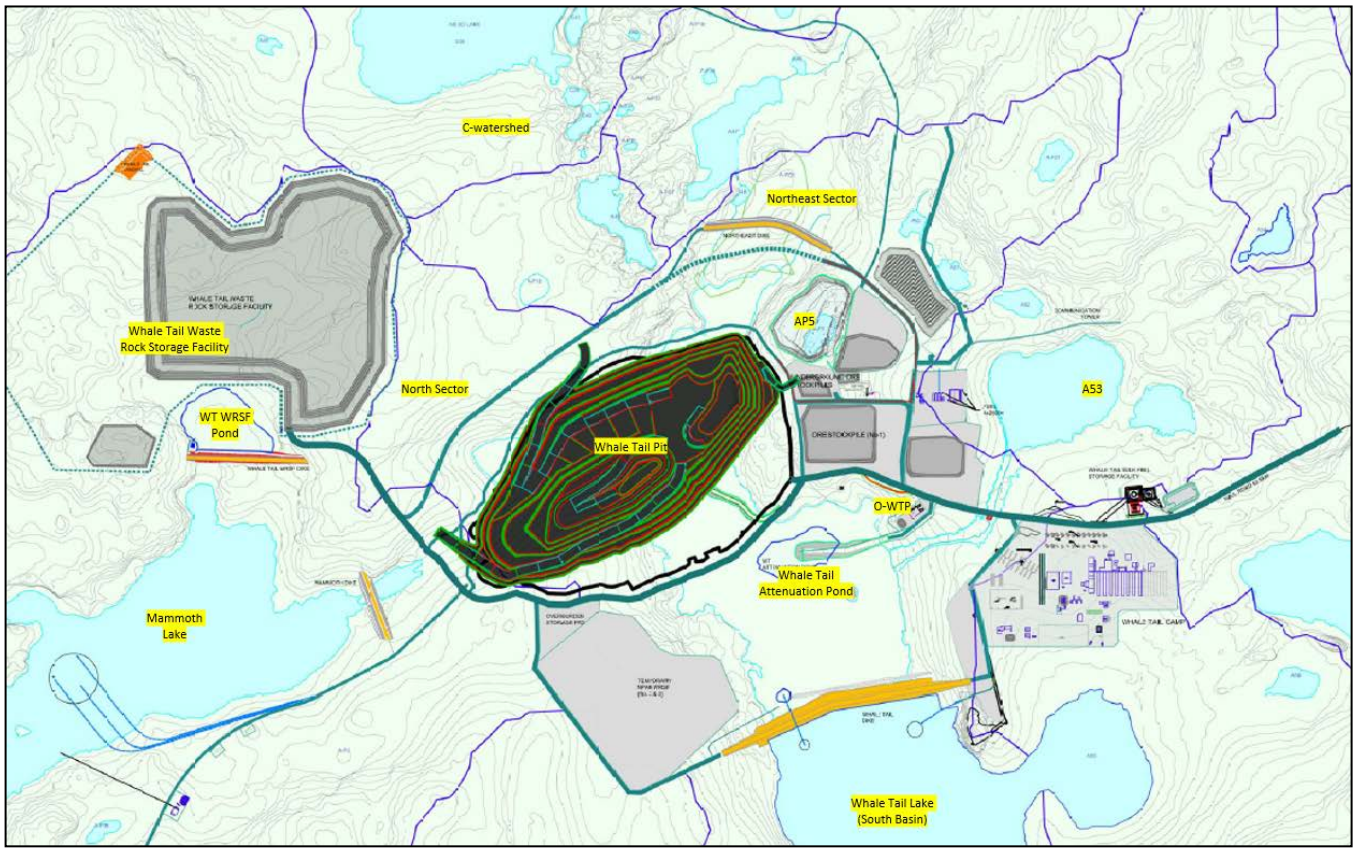


Figure 2: Site Layout, Final Mining Year 2022

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.

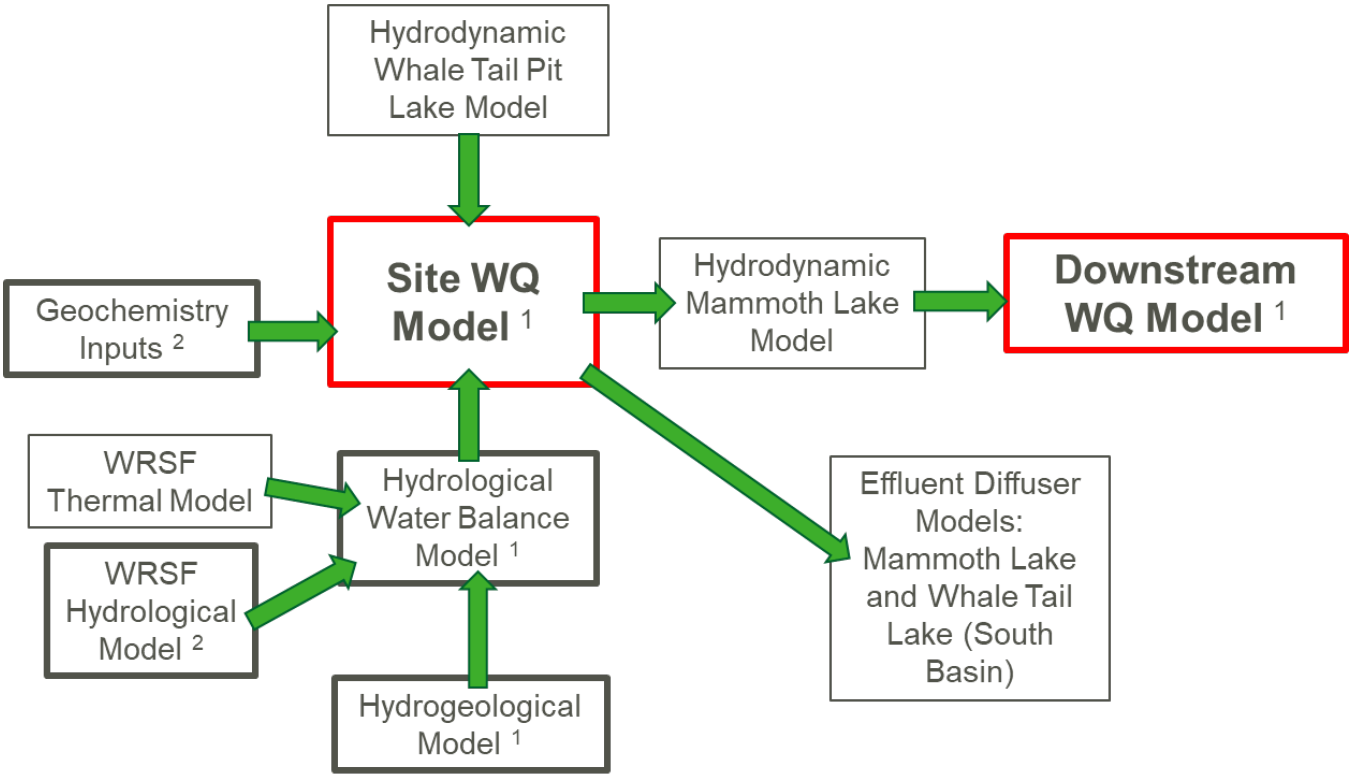
In the GoldSim model, on-site facilities that accumulate water (e.g., water management ponds, pits, and sumps) are treated as distinct reservoirs within the model. Inflow volumes and concentrations or mass loads are included as inputs to each reservoir to account for chemical loadings from natural areas, 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.

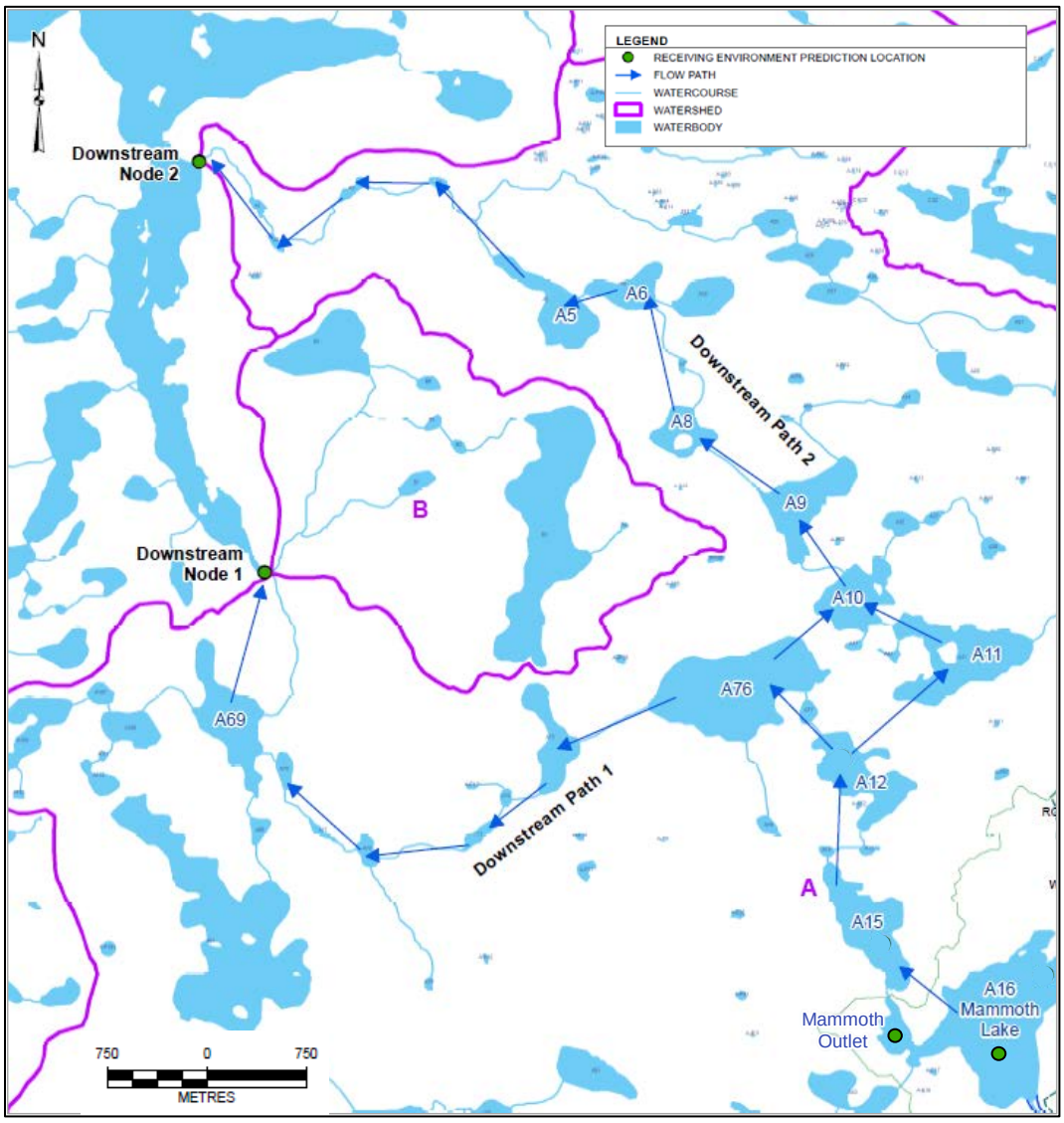


Figure *4: Receiving Environment Flow Paths and Prediction Locations*

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.

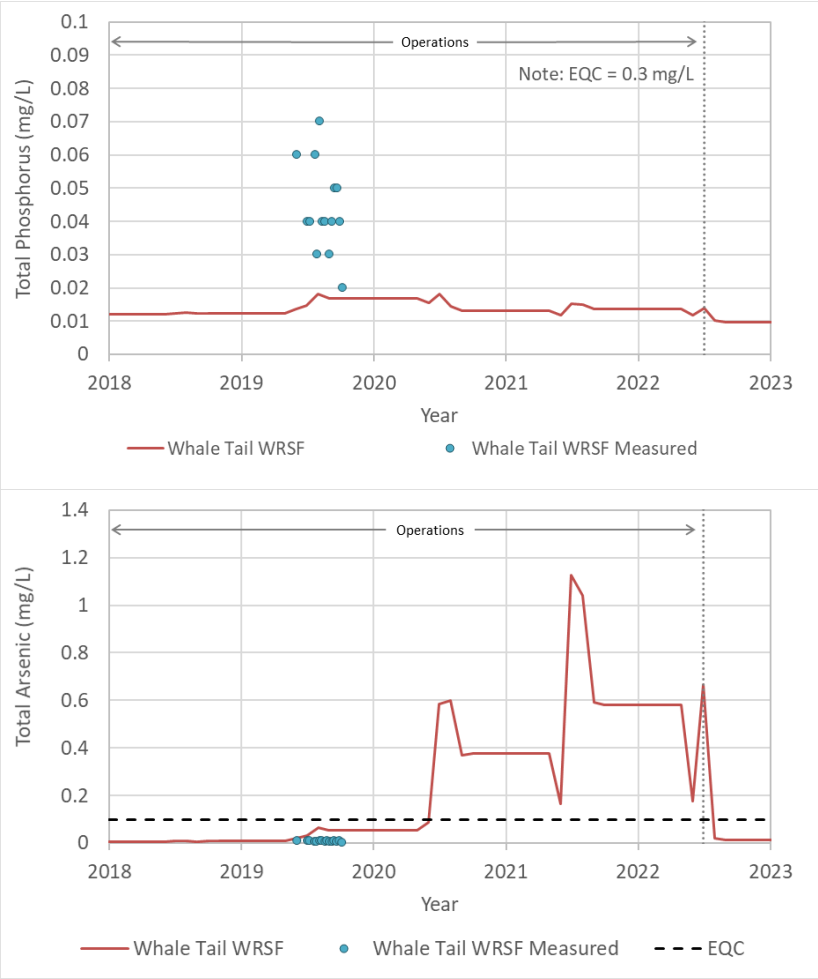


Figure 5: Projected total phosphorus (a) and total arsenic (b) concentrations for the Whale Tail WRSF during operations. Open circles represent non-detected values at the detection limit for measured data.

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.

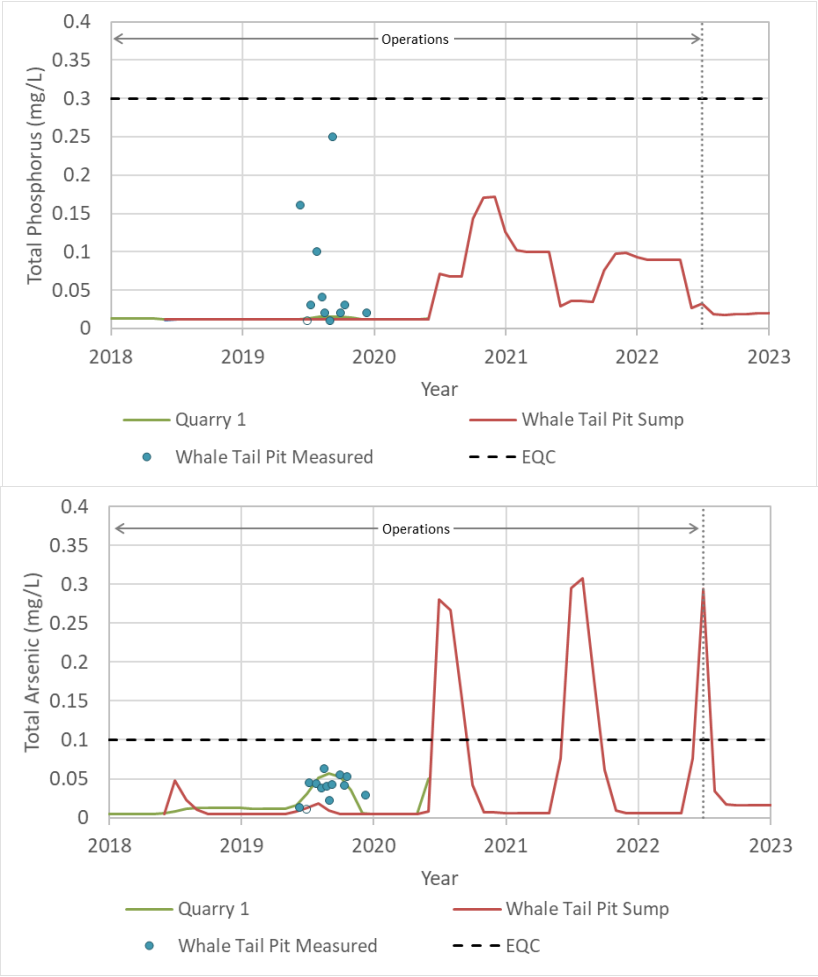


Figure 6: Projected total phosphorus (a) and total arsenic (b) concentrations for Quarry 1 and the Whale Tail Pit sump during operations. Open circles represent non-detected values at the detection limit for measured data.

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.

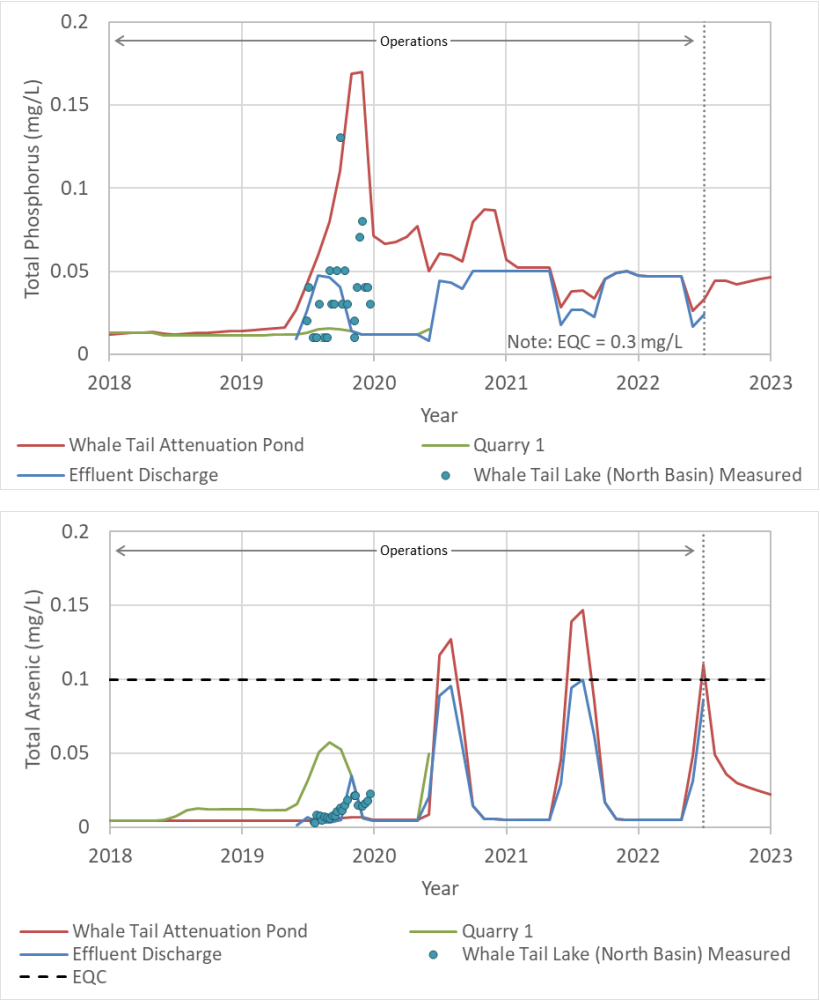


Figure 7: Projected total phosphorus (a) and total arsenic (b) concentrations for the Quarry 1 and Whale Tail Attenuation Pond prior to treatment, and treated WTP effluent discharge during operations. Open circles represent non-detected values at the detection limit for measured data.

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.

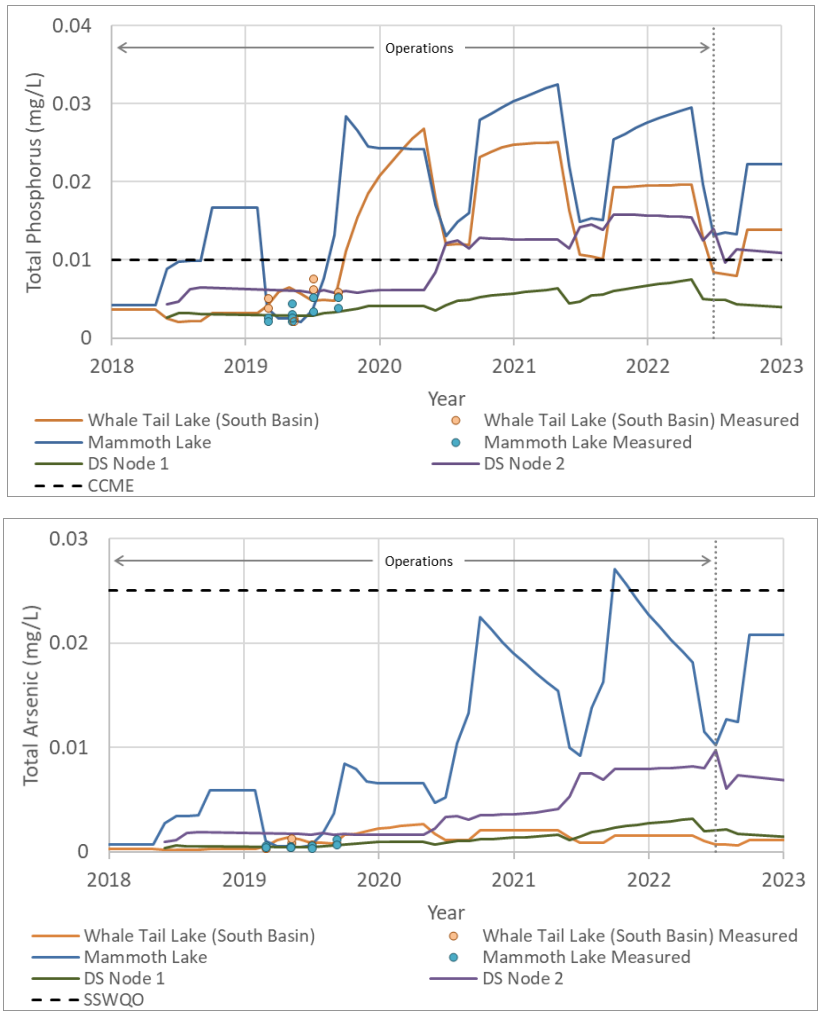


Figure 8: Projected total phosphorus (a) and total arsenic (b) concentrations for the receiving and downstream environment during operations. Open circles represent non-detected values at the detection limit in measured data.

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).

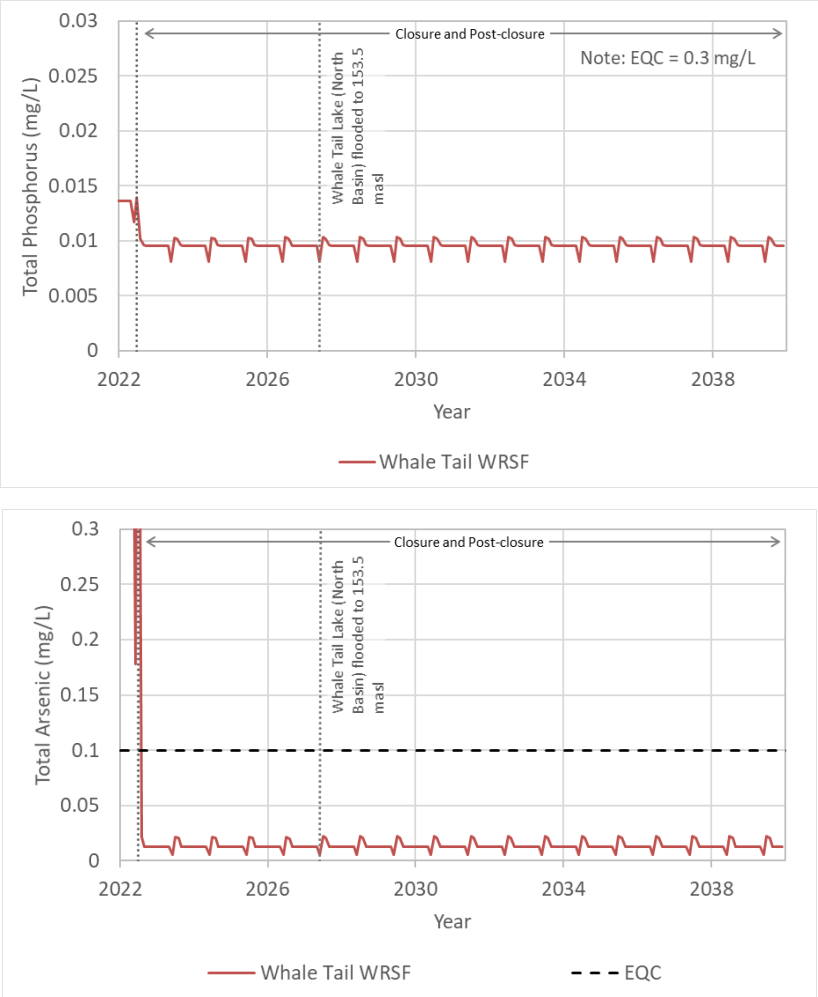


Figure 9: Projected total phosphorus (a) and total arsenic (b) concentrations for the Whale Tail WRSF pond in closure and post-closure.

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.

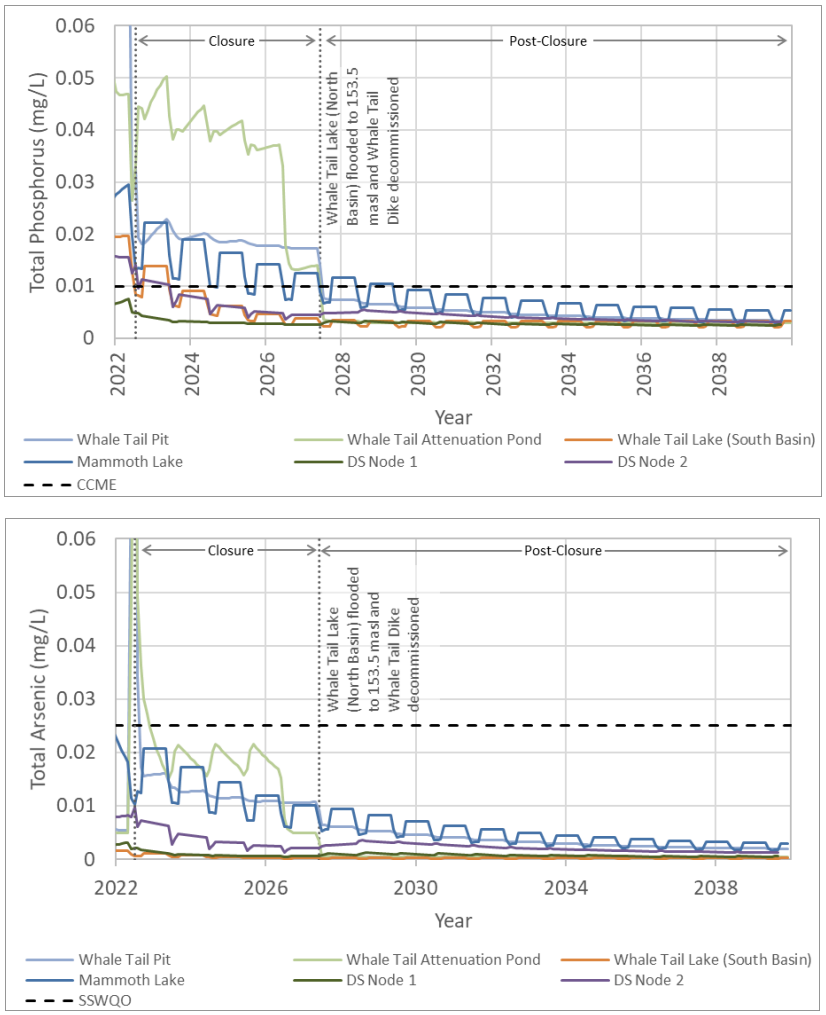


Figure 10: Projected total phosphorus (a) and total arsenic (b) concentrations for the Whale Tail Pit, the Whale Tail Attenuation Pond, and the receiving environment during closure and post-closure.

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.

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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

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APPENDIX A

Geochemical Source Terms and Water Quality Inputs

Constituents	Whale Tail Lake		Natural Runoff		Mammoth Lake		Nemo Lake		Watershed A		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
		January		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	2018	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		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
Quarry 1	*Construction and Operations*	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	2019	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		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	2020	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	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**

			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
		August		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	2022	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		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	2023	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		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	2024	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		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
Whale Tail Pit	*Closure*	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	2025	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		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	2026	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		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	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
		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

			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
		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
Whale Tail Pit	*Post-Closure, fully flooded pit*	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

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	*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
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	0.000012	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

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
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	0.0000067	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[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, 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

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 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)

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
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[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)	*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
Whale Tail Lake (South Basin)	*Closure, controlled discharge from pit lake*	January	2032	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		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	2033	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		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	2034	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		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	2035	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	2036	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

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)

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 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

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)	*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

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*	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)

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

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	0.000014	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

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, 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
Downstream Node 2 (DS2)	*Closure, controlled discharge from pit lake*	July	2027	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		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		0.067	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		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	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		0.062	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		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
		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	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		0.058	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		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	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		0.056	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		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[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*	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

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[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)

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APPENDIX E • 2020 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
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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.

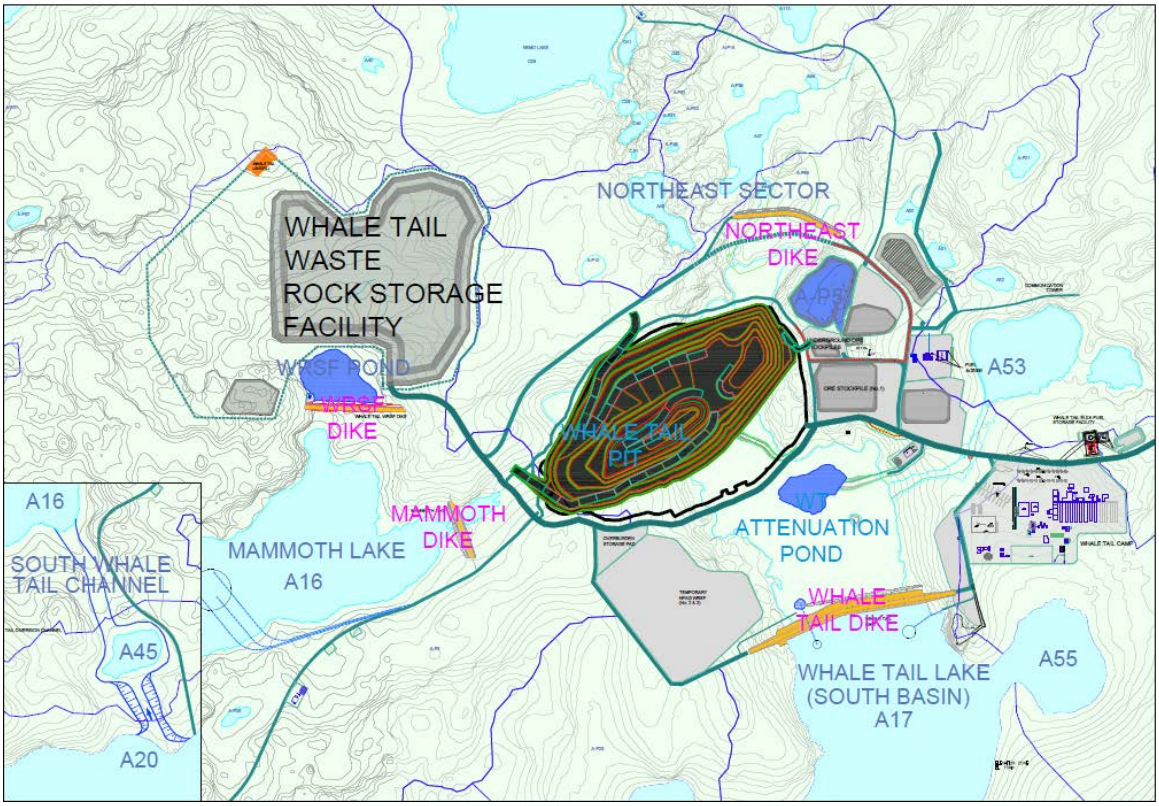

Figure 2-1: View of Whale Tail area

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.

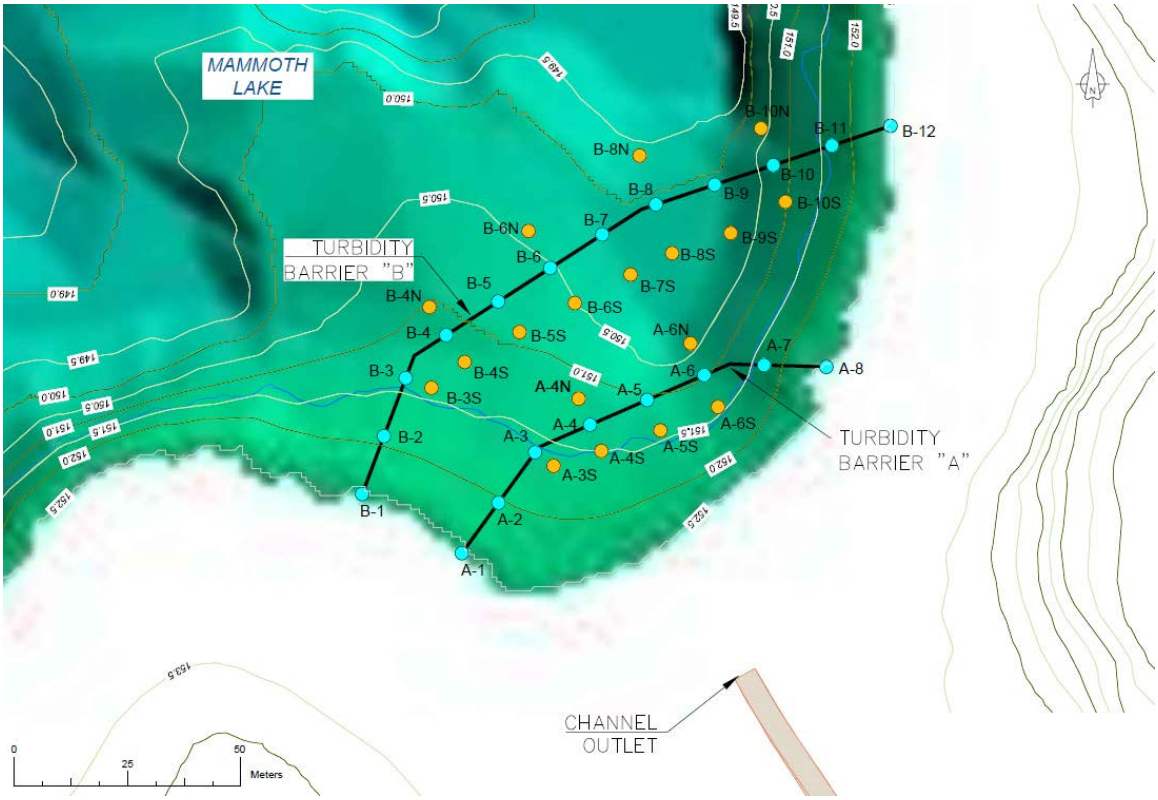

Figure 2-2: Turbidity Barrier Location

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

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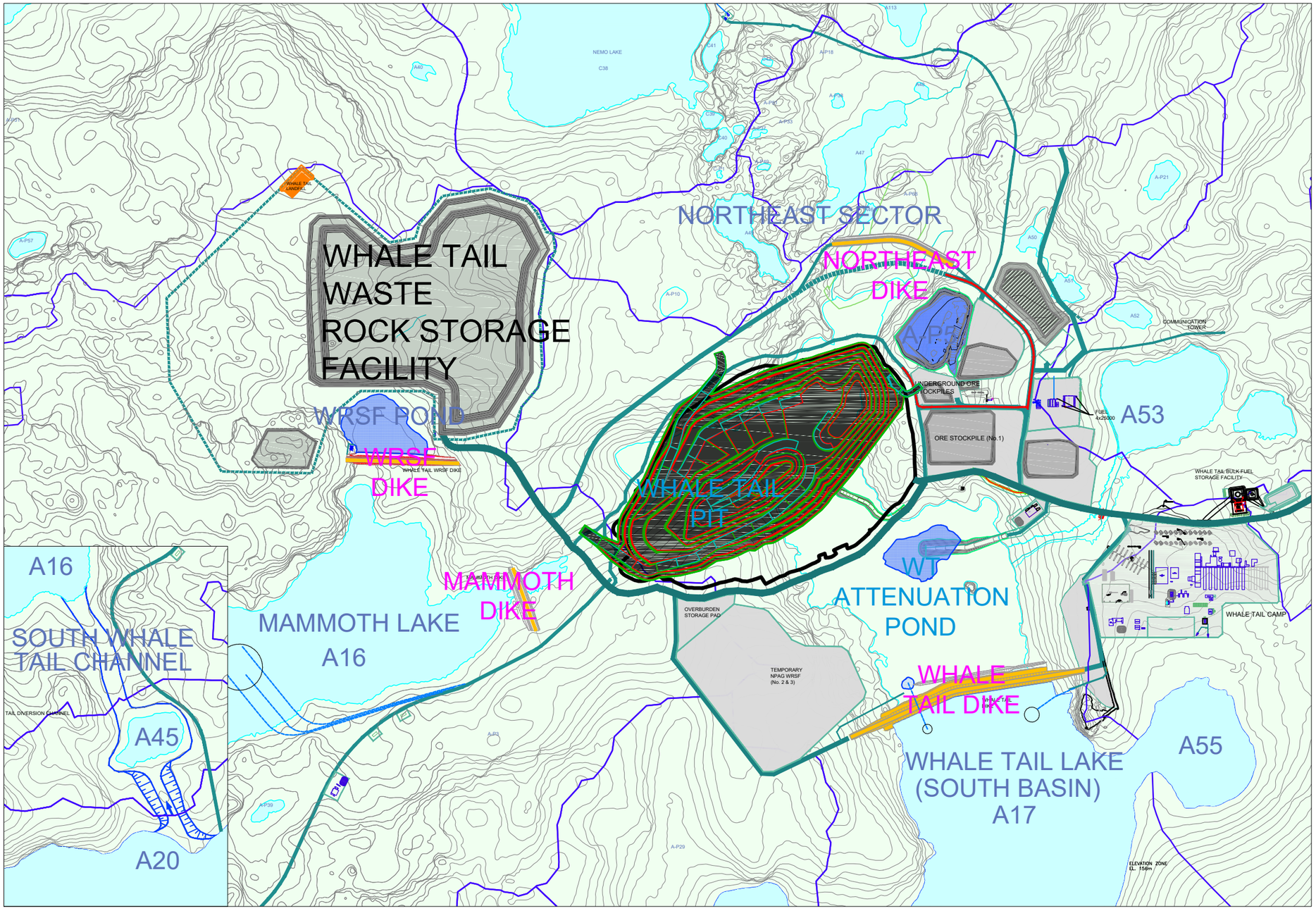

PLAN CLÉ
KEY PLAN

NOTES GÉNÉRALES / GENERAL NOTES

L'INFORMATION CI-CONTENUE EST LA PROPRIÉTÉ DE AGNICO-EAGLE LTÉE ET NE DOIT ÊTRE REPRODUITE, SOUS QUELQUE FORME QUE CE SOIT, NI UTILISÉE À D'AUTRES FINS QUE CELLE POUR LAQUELLE L'INFORMATION EST PRÊTÉE SANS AUTORISATION ÉCRITE PRÉALABLE, TOUTE DIMINUTION DE COPIES À AUTRUI ET TOUTE UTILISATION AUTRE