



Mount Polley Mining Corporation

an Imperial Metals company
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MOUNT POLLEY MINING CORPORATION (MPMC) PUBLIC LIAISON COMMITTEE (PLC) MEETING SUMMARY

Meeting Details

In person Meeting and Conference Call Hybrid Meeting
General Meeting – Q2 2023

April 18, 2023

9:00 am to 1:00 pm

Meeting held at the Likely Community Hall in Likely, BC

Meeting called by: MPMC Designated Representation

Meeting Chaired by: Gabriel Holmes

Minutes by: Alicia Lalonde

Member	Present	Call-in	Organization
Aaron Higginbottom			T'exelc - Williams Lake First Nation
Abhirosh Chandran		x	Ministry of Environment and Climate Change Strategy
Alicia Lalonde	x		DWB Consulting (MPMC)
Alex Gresl			Williams Lake Chamber of Commerce
Bee Hooker			Big Lake Community
Bill Carruthers			Williams Lake Community
Christine McLean			Mitchell Bay Community
Claudine Kadonaga			Likely Business
Don Parsons	x		Imperial Metals (MPMC)
Doug Watt	x		Likely Resident
Emily Sonnag			Xat'sūll - Soda Creek First Nation
Gabe Holmes	x		Mount Polley Mining Corporation (MPMC)
Jackie Sarginson			MLA Cariboo North Coralee Oaks Office
Jason Raine	x		University of Northern BC and Quesnel River Research Centre
Jason Ryll			Williams Lake Chamber of Commerce
Johanna Godt			Sedgewick Strategies (MPMC)
Kala Ivens	x		T'exelc - Williams Lake First Nation
Kelly Parker	x		MPMC
Linda Bartsch			Horsefly Business
Lisa Kraus	x		Likely and District Chamber of Commerce
Lyn Anglin		x	Consultant to Imperial Metals (MPMC)
Luc Lachance		x	Ministry of Environment and Climate Change Strategy
Mathieu O'Leary			Mount Polley Mining Corporation
Maureen LeBourdais	x		Cariboo Regional District
Melanie St Arnault		x	Ministry of Energy, Mines, and Low Carbon Innovation
Micky McIntosh	x		Likely Resident
Mike Stinson	x		Xat'sūll - Soda Creek First Nation
Nishitha Singi			T'exelc - Williams Lake First Nation
Richard Holmes	x		Little Lake Community
Steve Hocquard	x		Horsefly Community
Surinderpal Rathor			Williams Lake Government
Taylor Strosher		x	Ministry of Environment and Climate Change Strategy
Victoria Stevens			Ministry of Energy, Mines, and Low Carbon Innovation
Walt Cobb			Williams Lake Resident
Guests			
Katharina Bachelor	x		Minnow Environmental (MPMC)
Jesse Maddaloni		x	WSP Golder (MPMC)
Lee Nikl		x	WSP Golder (MPMC)
Richard Tuohey	x		MPMC

Meeting Start: 9:05 am

Roll Call – Introductions and acknowledgements – Gabriel Holmes

- I'd like to acknowledge that we operate on unceded traditional territories and work in partnership with the Williams Lake and Xatsull First Nations.

Additions to Agenda, and Approval of Agenda – Gabriel Holmes

- As I have indicated in the agenda, we are going to go over the following:
 - PLC Membership and Terms of Reference Review
 - ENV/EMLI Discussion/Compliance Review
 - Release of mine contact water
 - Permitting/Amendment Applications
 - Environmental Monitoring Update
 - Toe drain data
 - Hazeltine Creek sediment and tissue
 - Discharge/WTP Update
 - NPM
 - Water Treatment/Management Update
 - Remediation/Reclamation Update
 - Mining Update
 - Job Opportunities/Production Mining
 - Roundtable Discussion
 - PLC Questions/Comments
 - Next Meeting- July 4, 2023?
- Does anyone have additions to the agenda, or have objections to it? If not, we are going to move on through what we have planned.
- Taylor Strosher (TS): Can I speak to the group about the CEMP at the end of the meeting?
- GH: Yes, I have a slide dedicated to regulatory documents so we can talk about it then.
- Agenda approved.

PLC Membership and Terms of Reference Review – Gabriel Holmes

- Each of us as members can identify people and reach out to people that may be interested in joining the committee. If anyone has someone in mind, an individual or organization, please forward that to me.
- There are still numerous vacancies on the committee.
- Employee representative and member from united steel workers should be filled.

Communications

- It is important that we communicate to the regulators and stakeholders regularly.
- We have the PLC, Sharepoint and other websites, meetings, calls and presentations, tours and reporting
- Are we effective communicators?

- I don't often receive feedback but I want to reaffirm that our doors are always open. We are committed to our communications plan.

ENV/EMLI Discussion/ Compliance Review

- TS: I don't have anything from my end today. We haven't had a recent compliance inspection. We don't have a compliance officer that can participate in the meetings at this time. If anyone has any questions, they can reach out.
- Abhirosh Chandran (AC): Nothing here.
- MSA: Nothing on my side for now.
- GH: If any member wants access to an inspection, request it.
- GH: I'd like to discuss a recent unauthorized discharge that occurred at the mine site. A pipeline in the contact water collection system around mine site was obstructed. It was frozen and engaged the contingency system which was another pipe and sump. We were pumping from Wight Pit to the Long Ditch to supplement flow to the Water Treatment Plant so we had increased flow through ditch. Once the pipe was frozen, the system overflowed and water went into the surrounding environment. This investigation is ongoing. We will follow up with a report that will give you a comprehensive overview of the incident. We don't anticipate any adverse effects. No water made its way to any aquatic ecosystems. The report is due next week and we will be sharing it with you. There was no evident erosion in the contingency system, it was just an overflow. Some 300 m of pipeline was frozen. The pipe is 30" in diameter so it is a large pipeline. The only difference in its operation at the time of failure, was that it was pumping from the Wight Pit. We were having nighttime lows of -10. We had to spend a week repairing the pipe using steam trucks.

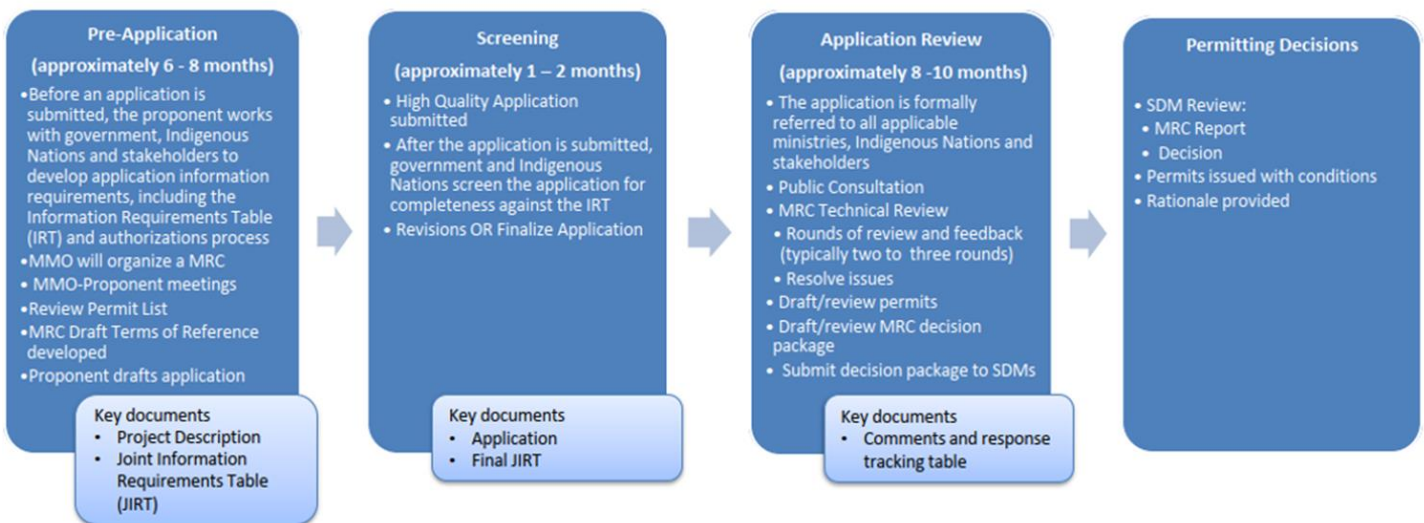
Care and Maintenance to Operations- Gabriel Holmes

- I will remove the Care and Maintenance slides in our next meeting.
- We have achieved full scale operations; we have met our production targets in Q1.
- We have ongoing water management including source control, water treatment plant operations, and environmental monitoring, and mill operations are ongoing.
 - Some issues with turbid water going to the WTP
 - Spatial constraints in the pit when mining resumed
- Tailings dam construction up to 970m is scheduled for this year
- CanMag production is on hold. The facility is going to be in care and maintenance. They do intend to operate that facility again.
- Equipment is being refurbished, repaired, or replaced on an as needed basis, though there is a maintenance schedule for some equipment as well.
- Electrical equipment repair and replacement.
- We are still hiring in many departments. There are still many positions available so if you know anyone who may be interested, please reach out.
- We do a lot of health and safety training to ensure we are providing a safe work environment for our employees. We have new safety department personnel. The mine rescue team is practicing with regularity.
- We've started the Community Initiatives Committee.

- KP: Q1 2023 went well when it comes to production. We hit targets in mine operations and in the mill. Dam construction to 970m will be completed. We are looking at the end of mine timeline for further construction on the dam. Money was put into the mill and we are happy with how things are going. We are hitting recovery numbers that have not been hit before. We have a lot of contractor employees working with us which is something that the whole industry is experiencing. We had 8 lost time incidents last year and to date this year we have had zero. Safety is an investment; we are doing well with that. The mine rescue competition is in mid-June which is the first time we've had a team in in a few years. Provincials are also being held in Williams Lake this year. Community Initiatives Committee- we were a sponsor for the Williams Lake indoor rodeo, heavy metal rocks sponsor, we are holding the Big Lake and Likely fishing derbies, providing fireworks, etc. There are a lot of initiatives coming forward. We want community involvement.
- Richard Tuohey (RT): Q1 we made budget, the plant had higher recovery than what was in the budget. We are hitting steady targets. Hitting 80t coming out of the pit.

Permitting/Amendment Applications – Don Parsons

Mount Polley Mine Permitting Process



- There are many steps in each component of the permitting process.
 - This chart gives an idea of the timeline of each step.
 - It is a long and drawn out process though it needs to be reviewed thoroughly and the relevant information needs to be provided

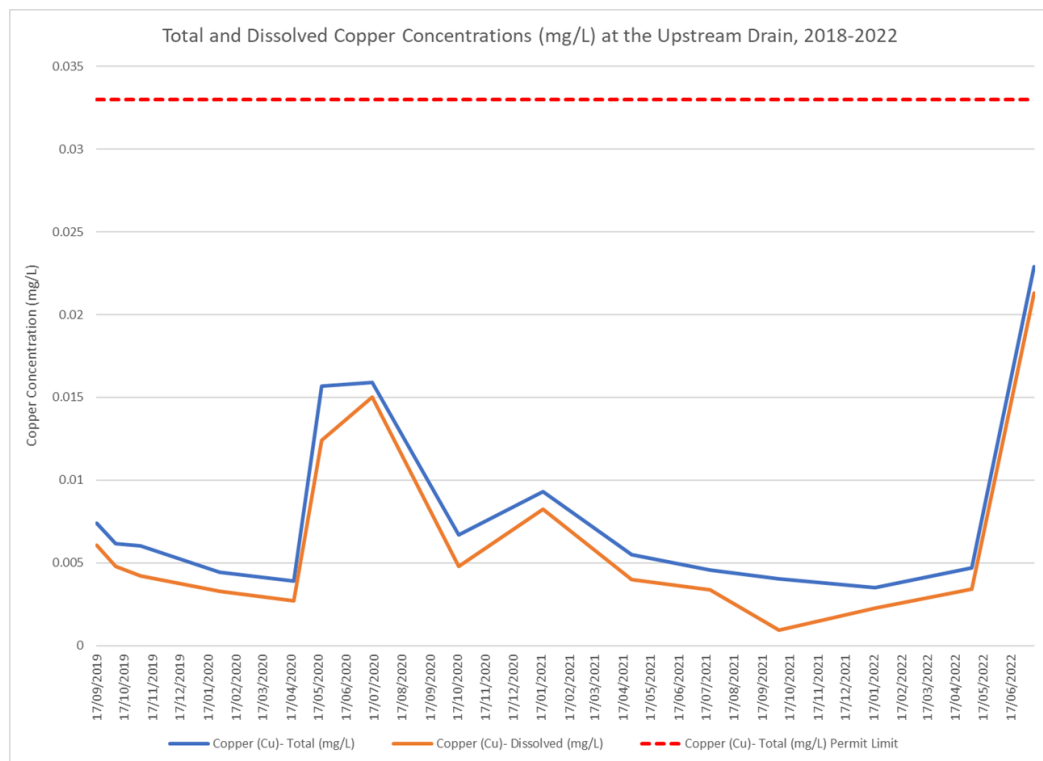
Submission Name	Permit	Projects	Pre-Application	Application Submission	Target Approval
Joint Application					
Springer Expansion	M-200 PE-11678	Springer Pit Expansion Southeast Rock Disposal Site Northwest PAG Stockpile Quesnel Lake Discharge	Oct 2022	Q2 2023	Jan 2024
Individual Application					
Springer NAG Tailings Co-Disposal	M-200	Springer NAG Tailings Co-Disposal (Dry Stack)	Dec 2021	Oct 2022	May 17, 2023 *From MMO
NAG/PAG Ratio Reduction	M-200	NAG/PAG Ratio Reduction to 1.5:1	June 2022	Q2 2023	Jun 2023
Tailings Storage Facility above 970m	M-200	TSF Design & Construction above 970m	April 2022	Q2 2023	Jun 2023
Notice of Departure (None Outstanding)					
Bonanza Ledge Ore	M-200	Mill 20,000 tonnes of Ore at Polley	N/A	Dec 2022	March 23, 2023 (Approved)

- Joint Application:
 - Springer Expansion- 8-10 years of work, preapplication completed.
- Individual Applications:
 - Dry stack tailings and NAG (Non-Acid Generating) tailings on the SERDS: The technical assessment report has been submitted. We have been consulting with the First Nation's on the details and involved the EoR. Documents will be forwarded to the Director.
 - NAG/PAG reduction: We are looking to reduce the NAG/PAG ratio from 2:1 to 1.5:1. This makes for a smaller PAG stockpile when we put it back into the pit.
 - Tailings Design and Construction Above 970m: We add 1-2m to the dam every year. We are looking at a slightly different design. Golder is working on Issue for Construction drawings and we are hoping to receive those shortly. There will be 2 m added to the TSF this year and 2 m next.
- Notice of Departure:
 - Bonanza Ledge Ore: Bonanza has 20,000 tonnes of extra ore that they would like to bring to Mount Polley to process. We have had the M-200 permit amended to process that ore. We haven't worked out commercial terms. A sample of that is going through metallurgical test work. Trucking will start after freshet once road bans are removed.
- MPMC External Sharepoint site for the technical review of documents
 - This is a tool for FN's partners, stakeholders and regulators
 - LN: Like any Sharepoint site, the information that the reviewers need will be placed there. It won't replace the actual submission process. There is a high-level timeline provided. The timelines will be updated as we go.
 - This was a product of discussions with the Xatsull First Nation.
 - There is refinement needed before it is launched but a link will be provided.
- Discussion of CEMP update
 - Required to update this year and is currently under review.

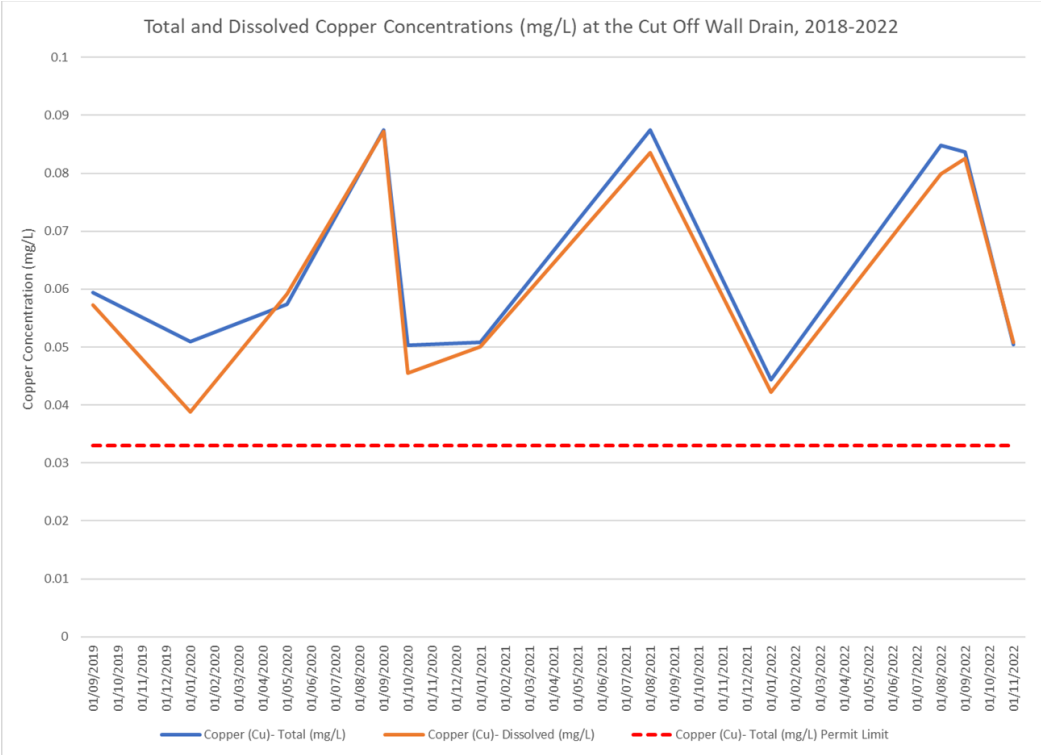
- TS: It has been received and we are hoping to collaborate with the PLC and other stakeholders. I will be contacting everyone to initiate that process.

Environmental Monitoring Update – Gabriel Holmes

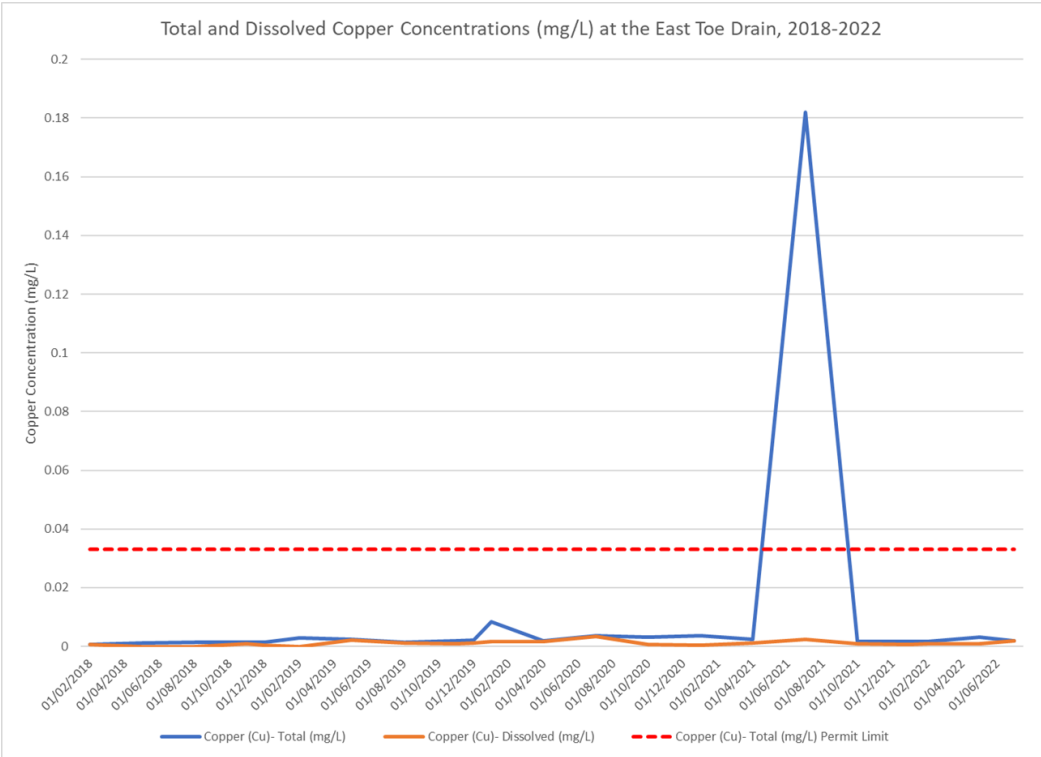
- We have a comprehensive environmental monitoring program: we spend a lot of time monitoring and sampling water to inform water management decisions.
 - Sites include: Polley Lake, pit lakes, Wight Pit, Hazeltine Creek, Edney Creek, mine site seepage, groundwater and the Water Treatment Plant.
 - We complete routine weekly, monthly, quarterly, semi-annual and annual sampling.
 - We do sample various other sites around the mine site for supplemental information.



- The Upstream Drain drains into the collection system directly upstream of Perimeter Embankment Till Borrow Pond which is the influent to the Water Treatment Plant. Dissolved and total copper are very similar. This is dam filtered water so there is very low TSS.



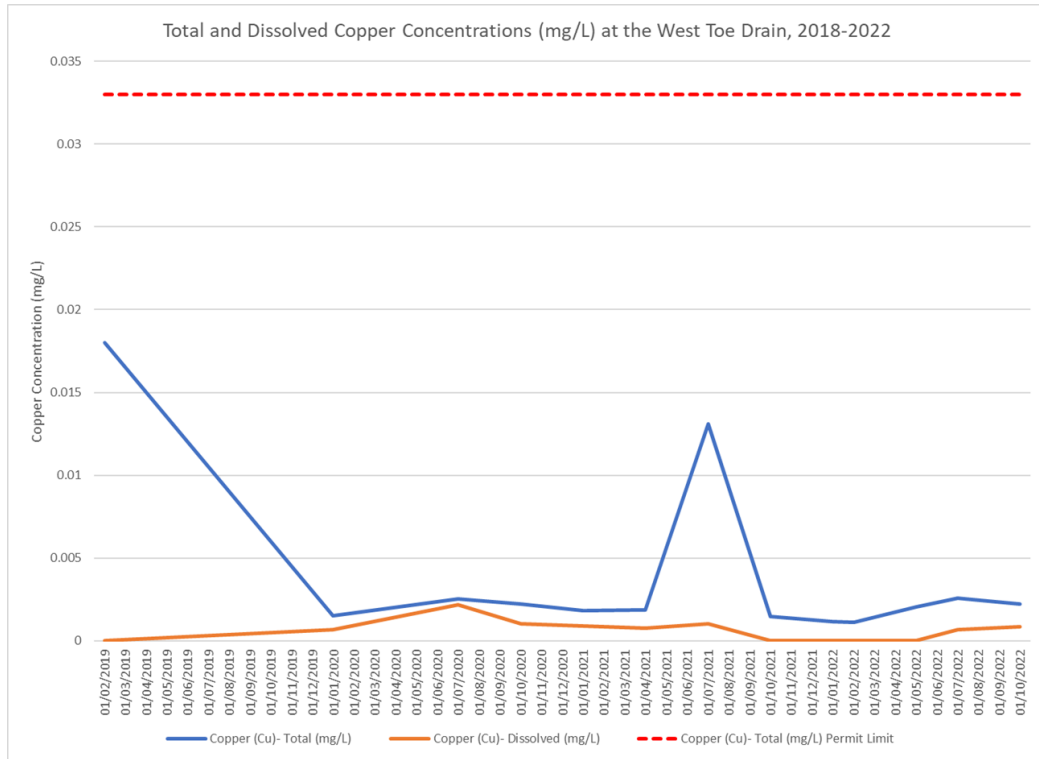
- This graph shows the Cut-off Wall (COW) drain. Water trickles out, there is no substantial volume, but is above the permit limit. It drains into the breach sump which is 100 m upstream of the Perimeter Embankment Till Borrow Pond.



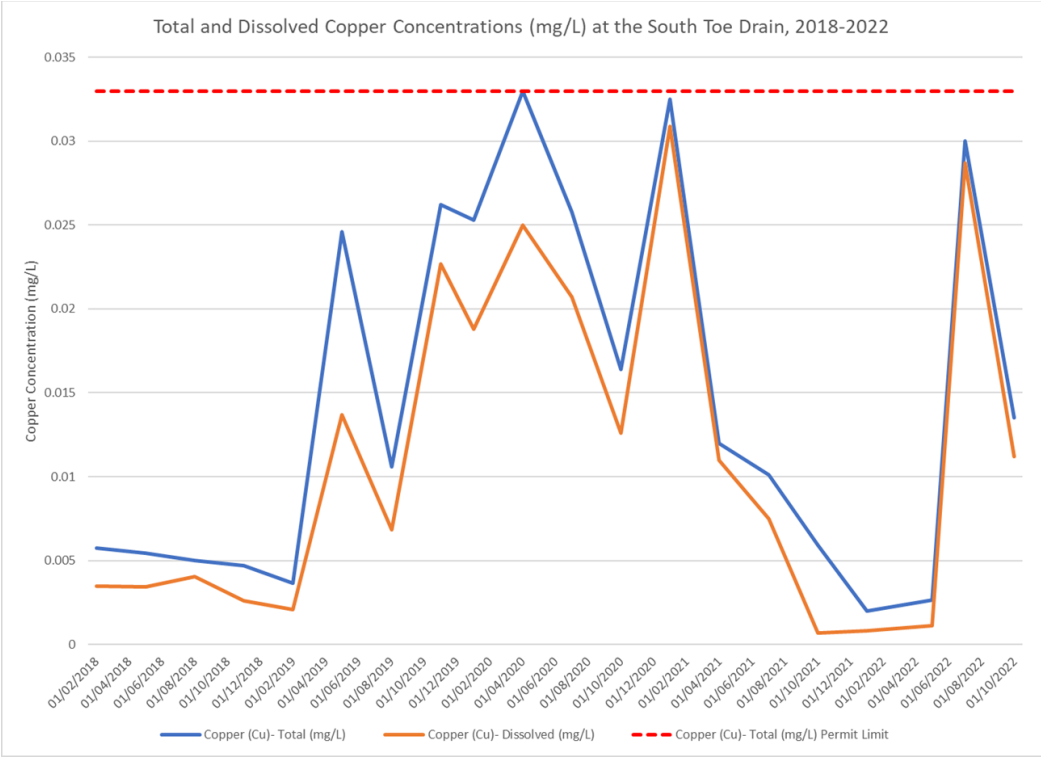
- This is the East Main Toe Drain. It drains passively into main embankment seepage pond and the Tailings Storage Facility, where it is used for the sprinkler system. There is one outlier shown on this graph which

is likely due to contamination or sampling error. We'll have to look at the filed data and the conditions at the time of sampling.

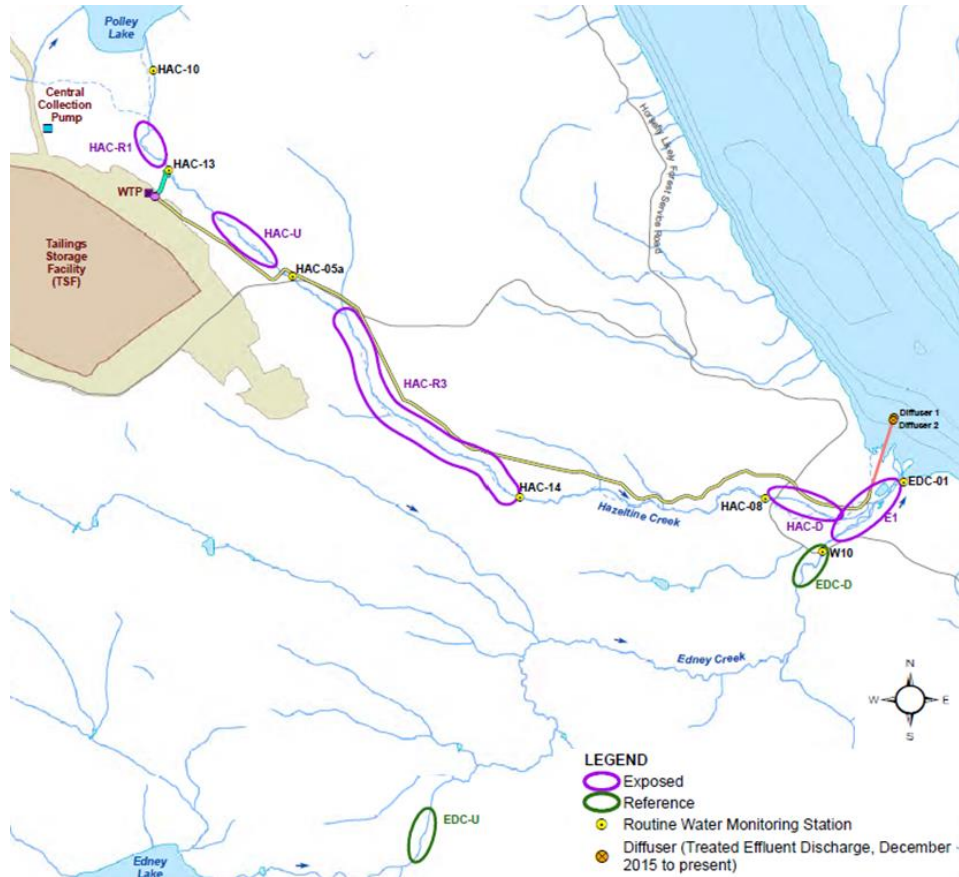
- DP: The drains help the EoR to make sure there is no mobilizing of material in the dam.
- GH: Total Suspended Solids may indicate there is movement or changes within the dam itself, mobilizing fines into the drains.



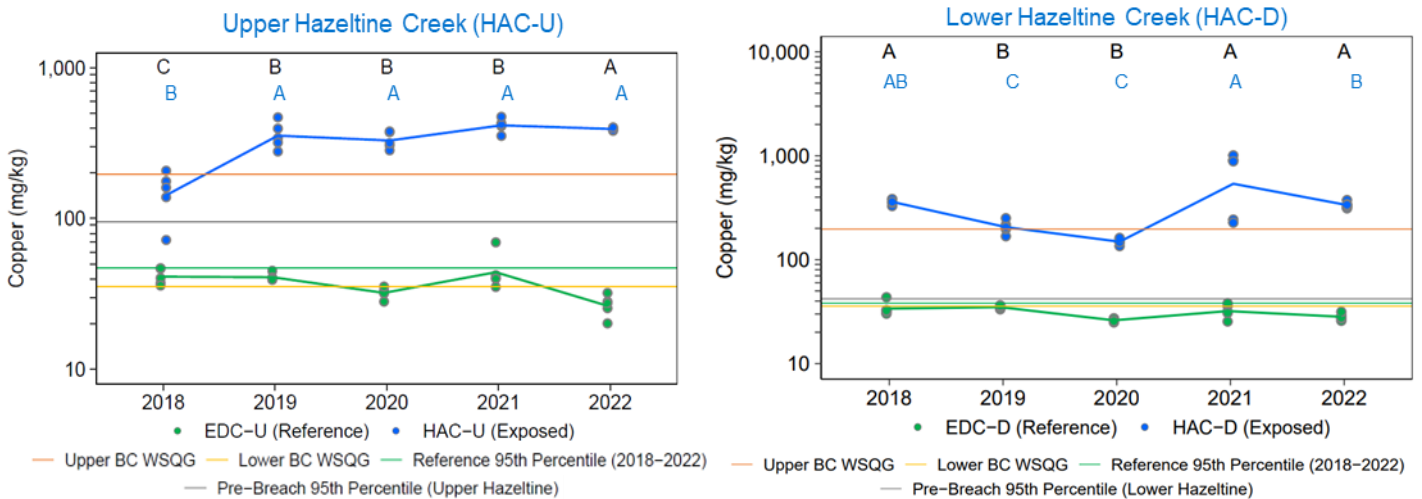
- This is the West Main Toe Drain: There are low concentrations of copper. We have the opportunity to send this water to the Water Treatment Plant, as it is amenable to discharge.



- This is the South Toe Drain. It drains from the south embankment into the ditch where it is conveyed along Gavin Lake Road and gravity fed to the main embankment seepage pond. Here we see erratic copper concentrations. We continue to monitor these drains regularly.
- Hazeltine Creek Sediment Quality and Benthic Invertebrate Tissue Quality- Katharina Batchelar

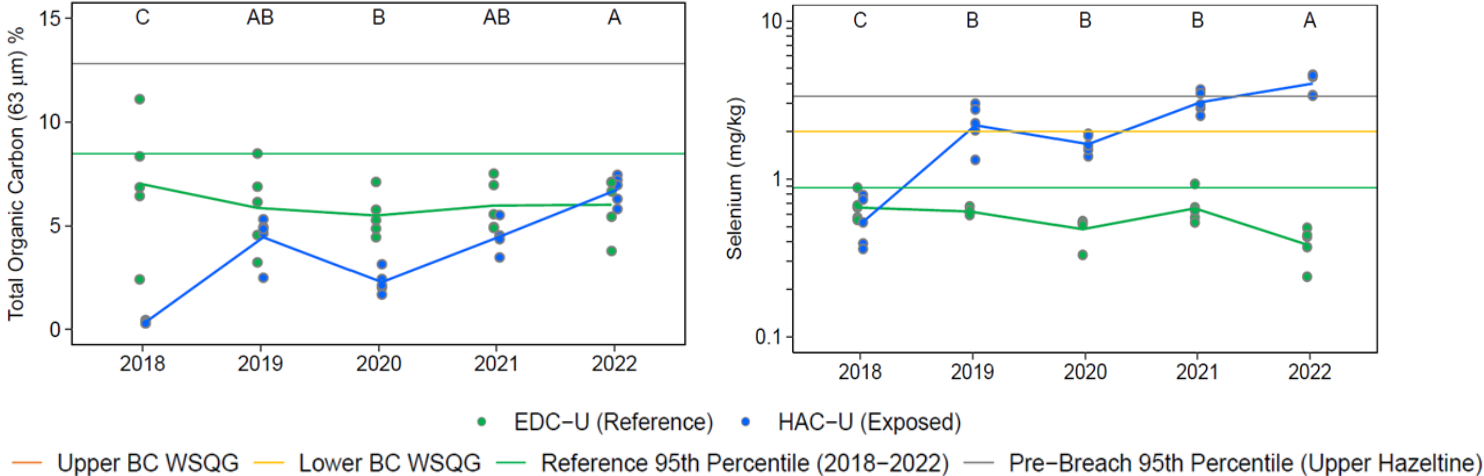


- This map shows our sampling areas.
- Hazeltine Creek is primarily an erosional system. The sediment available can vary over time. We can see more sand in one year than another which can influence sediment quality results.

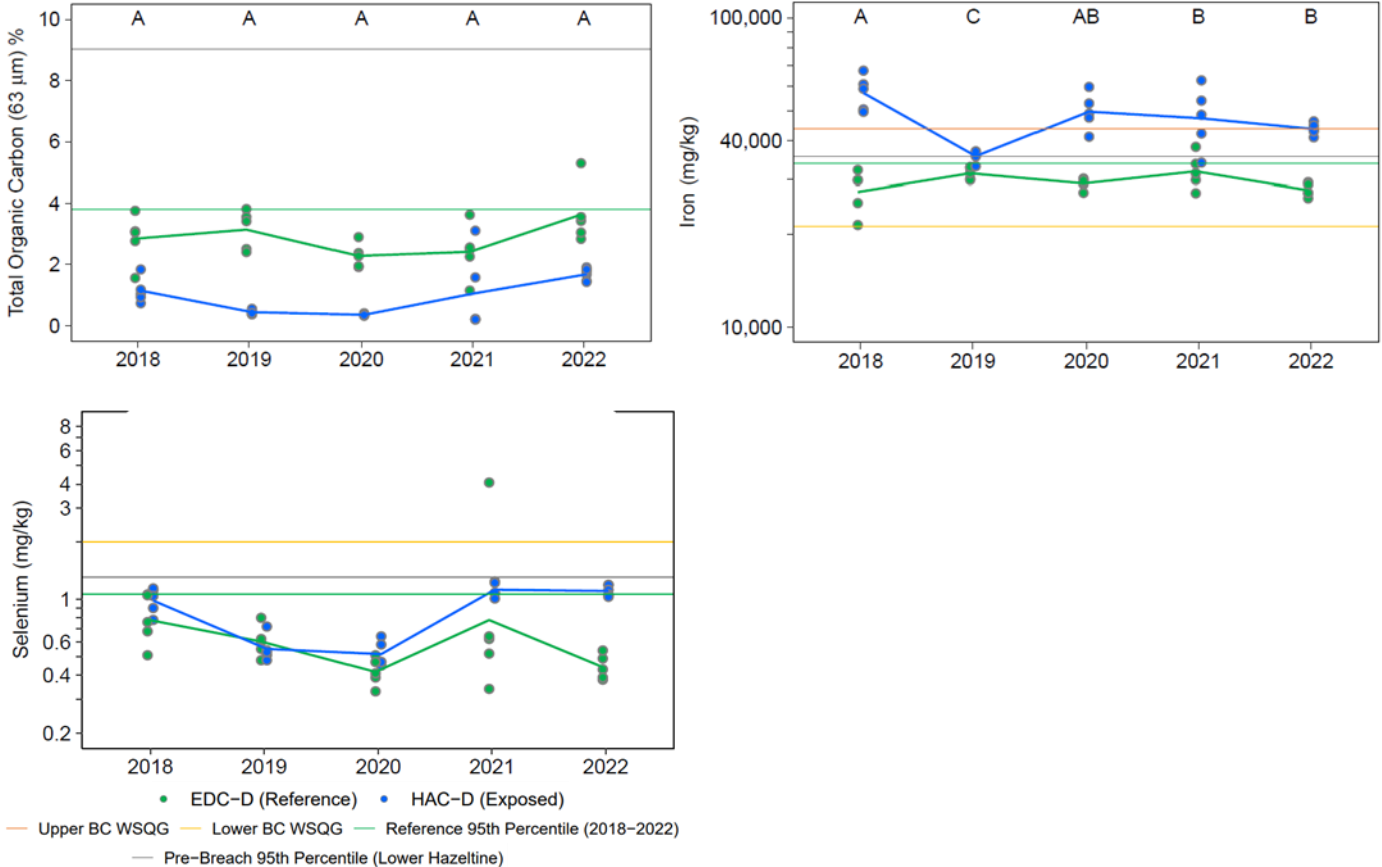


- The blue letters show temporal changes, black letters show changes from reference.
- Upper Hazeltine Creek plot- Copper concentrations in sediments increased from 2018 to 2019, but have not increased since 2019.

- Lower Hazeltine Creek plot- Copper concentrations in sediments have not increased since 2018.

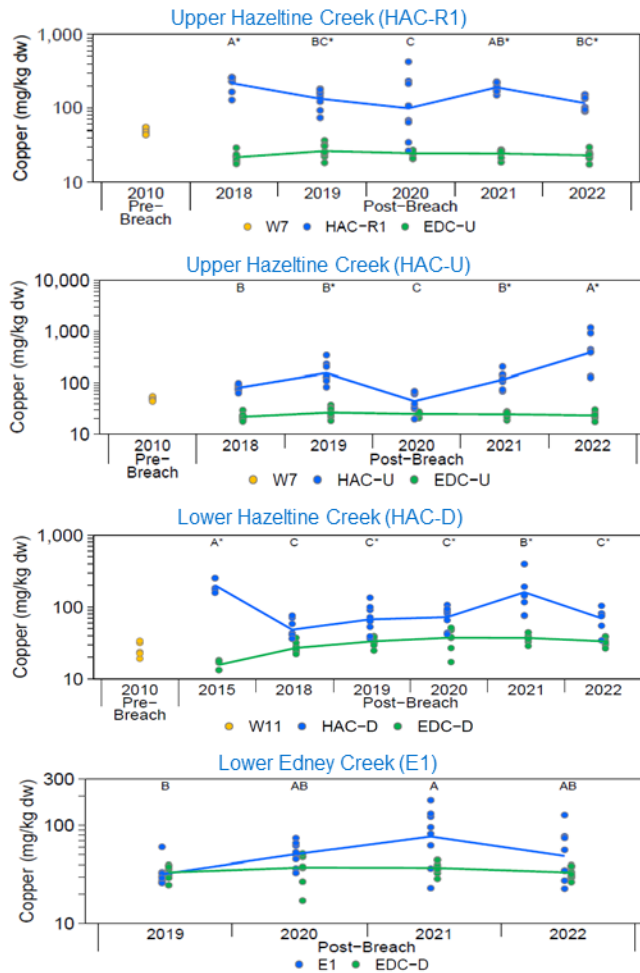


- Selenium was higher in 2022 than in 2018 and 2020. This increase is associated with physical characteristics such as Total Organic Carbon of the sediment. Total Organic Carbon and selenium concentrations were lowest in years when percent sand was highest (2018 and 2020).

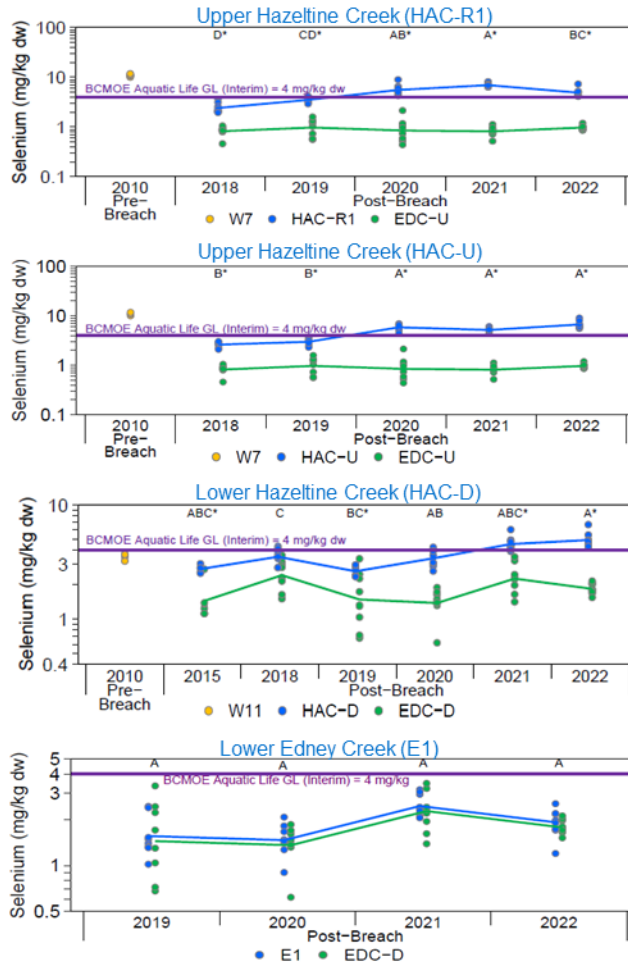


- Iron concentrations were lower in 2022 than 2018

- Selenium was not identified as an analyte of interest (concentrations < BC WSQG and pre-breach; temporal statistics not completed)



- Copper pre-breach data is shown in yellow, reference sites are shown in green and exposed areas are shown in blue.
- Copper is higher in 2022 than pre-breach at all areas (where pre-breach data is available).
- Copper in 2022 is similar to or lower than the first year of monitoring, except at HAC-U (relative to reference).
- The trophic transfer of copper in 2022 was similar to the first year of monitoring except at HAC-U. Trophic transfer is how the copper is moving through the food chain.
- At HAC-U, concentrations and trophic transfer of copper were higher in 2022 than in all prior years (2018 to 2021).
 - This localized increase may be related to the variability of dominant taxa in composite-taxa samples.
 - Increase in concentrations and trophic transfer not observed in caddisfly samples.



- Selenium- interim aquatic life guideline is the purple line.
- Mean selenium in 2022 is higher than the Interim Aquatic Life guideline, except at E1
 - Suggests potential selenium- associated risks to aquatic life based on Interim Guideline
- Selenium in 2022 is higher than the first year of monitoring, except at HAC-D and E1 (relative to reference).
- Selenium lower in 2022 than pre-breach except at HAC-D (where pre-breach data is available).
- At HAC-D, selenium increased from below the guideline (2015 to 2020) and pre-breach (2015 to 2019) to higher than the guideline and pre-breach (2021 and 2022).
- Trophic transfer of selenium has been temporally stable since 2018.
- Weather
 - We have 2 stations on-site that monitor parameters every 5 minutes (rain, temperature, wind direction, wind speed, gust speed, solar radiation, relative humidity, dew point, battery).
 - MPMC has been collecting climate data since 1995.
 - We collect snowpack measurements manually
 - We are at 109 mm snow water equivalent in April which is likely above average. We measure that snowpack twice per month.
 - We are above the average snowpack for 2022/23.
 - We will do one more snowpack measurement next week though some sites have already bared off.

- Waste Management

- We generate a lot of waste at a facility such as this and it is important that it be disposed of in a responsible fashion.
- We have a permitted landfill on-site and have many recycling initiatives underway.
- We are all responsible for our own waste.
- Clean up and proper disposal of waste is part of our job.
 - This is an ongoing effort; we enlist services of GFL to deal with hazardous and non-hazardous waste.
 - We sell our waste oil.
- This is an example of a waste inspection log. Waste inspections are conducted weekly and monthly. We will take notes and if there are any issues, we note corrective actions and then the log is circulated to the department superintendents.
 - GFL does a secondary inspection monthly, and inventory of products that they supply.

2	15-Dec-22	279	DS	Crusher Laydown	No	Cardboard bin, spill pad waste barrel full, need to be emptied. 6-8 empty five gallon pails need disposal.	Housekeeping				closed
3	15-Dec-22	280	DS	Landfill	No	Looks good no food or recyclable waste. Large pile could be covered soon.					closed
4	15-Dec-22	281	DS	Warehouse Shipping Yard	No	Looks good, neat and tidy.					closed
5	15-Dec-22	282	DS	Mill Dumpster	No	Overflowing, needs to be emptied, inside oily rag waste barrel full.					closed
6	15-Dec-22	283	DS	Weld Barn Dumpster	No	Looks good, 1/3 full					closed
7	15-Dec-22	284	DS	Gas Bay Dumpster	No	Cardboard bin full, waste bin 1/2 full					closed
8	21-Dec-22	285	DS	Light Duty Fuel Island	No	Oily rag waste barrel full, rest of bins 1/4 full					closed
9	21-Dec-22	286	DS	Fuel Farm (heavy equipment)	No	Looks good, cardboard waste gone, oily rag waste barrel needs to be emptied, still need a waste bin/barrel for plastic jugs and recyclable bottles.		Place bin for plastics and bin for recyclable bottles and cans at fuel farm			open
10	21-Dec-22	287	DS	Pit Shop (inside)	No	Looks good, oily rag bin full, numerous 5 gallon pails need disposal.					closed
11	21-Dec-22	288	DS	Pit Shop (outside)	No	Looks good bins empty					closed
12	21-Dec-22	289	DS	Maintenance Laydown	Yes	2 aerosol waste barrels, 1 oily rag and 1 oily spill pads waste barrels full, need to be emptied (Same as Dec. 15 inspection	Housekeeping	Empty or replace full bins			open
13	21-Dec-22	290	DS	Crusher Laydown	Yes	Cardboard bin, spill pad, oil rag waste barrels full, need to be emptied. >20 empty five gallon pails need disposal. Same as Dec. 15 inspection except there are another 10-15 empty 5 gallon pails.	Housekeeping	Empty or replace full bins			open
14	21-Dec-22	291	DS	Landfill	No	6-8 aerosols and a few recyclable bottles found, large pile could be covered. There are 6-10 wooden pallets at back of pile?? there is a wood waste pile 40m away					closed
15	21-Dec-22	292	DS	Warehouse Shipping Yard	No	Looks good, neat and tidy					closed
16	21-Dec-22	293	DS	Mill Dumpster	No	Looks good outside bin empty/inside waste barrels 1/2 full					closed
17	21-Dec-22	294	DS	Weld Barn Dumpster	No	Looks good bin 1/2 full					closed
18	21-Dec-22	295	DS	Gas Bay Dumpster	No	Looks good, cardboard bin (same as Dec. 15 inspection)					closed

Water Treatment/Management Update – Gabriel Holmes

- Water Treatment Plant Update- Mount Polley Mine- Jesse Maddaloni

- Central collection and treatment- All contact water is centrally collected and treated for discharge
- BAT, Best Achievable Technology- This is a regulatory process stipulated by the BC government for selecting treatment technologies.
- Operation Water Quality- does water require treatment?
 - Influent is measured at the Perimeter Embankment Till Borrow Pond
 - Only parameters of interest are listed in the table
 - Parameters above permit limits are bold and underlined- copper

Golder 2022a

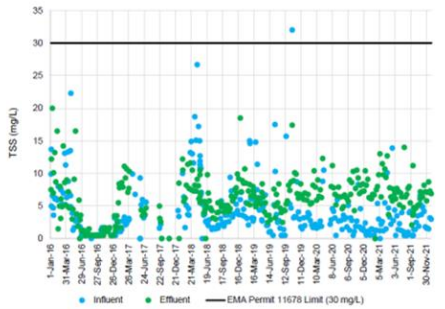
Parameter	Unit	EMA Permit 11678 WTP Discharge Limit (For Reference Only, Does Not Apply to Influent)	WTP Influent 2022 Monitoring Maximum
Major Ions			
Total Sulphate	mg/L	1,100	616
Nutrients			
Total Ammonia	mg/L (as N)	1.3	0.23
Total Nitrate	mg/L (as N)	34	6
Total Phosphorus	mg/L	0.09	0.025
Total Metals			
Arsenic	mg/L	0.028	0.002
Chromium	mg/L	0.004	0.0005
Copper	mg/L	0.033	0.187
Iron	mg/L	1	0.48
Manganese	mg/L	3.4	0.27
Molybdenum	mg/L	0.36	0.27
Selenium	mg/L	0.075	0.063
Zinc	mg/L	0.059	0.015

- Operations Treatment Performance 2016-2021
 - TSS- consistently below permit limit, plant is effective at keeping TSS below the permit limit
 - Copper- A few exceedances over multiple years, managed by stopping discharge, putting plant into recirculation (and lime addition, if deemed necessary) per the Trigger Response Plan
 - Selenium- influent and effluent consistently below the permit limits, indicating that plant is not required for selenium treatment



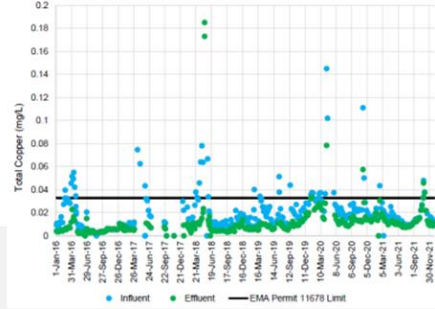
Operations Treatment Performance: 2016 - 2021

Chart Colour Legend: **WTP Influent** / **WTP Effluent** / **WTP Effluent Permit Limit**



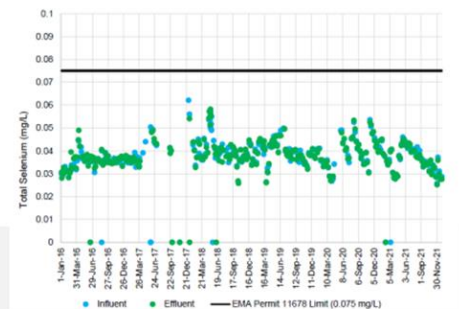
Total Suspended Solids

Consistently managed below permit limit.



Total Copper

A few exceedance instances over multiple years, managed by stopping discharge, recirculation and lime addition - per TRP



Total Selenium

Consistently below permit limit.

Golder 2022b

- Closure/Post Closure
 - Desire to return discharges to pre-mining watersheds
 - Distributed discharge: Multiple local systems, not a centralized collection system, distributed to the different catchments
 - BAT Option A: Distributed passive/semi passive on select sources
 - BAT Option B: Centralized pit lake + Actiflo
 - Unknown whether selenium is constituent of concern in closure
- Closure Water Quality
 - Predictions are provided in Closure and Post Closure columns, concentrations are derived from modelling
 - Current permit limits, closure permit limits are not set at this time as they could change
 - Contact water environment changes in Closure and Post Closure, in Post Closure some reclamation will have occurred which is why the predicted concentrations are lower than the Closure concentrations
 - Copper and selenium (in closure only) are predicted to be above the permit limits

Closure Water Quality

Does contact water require treatment?

Golder 2022a

Parameter	Unit	EMA Permit 11678 WTP Discharge Limit (For Reference Only, Does Not Apply to Influent, And Permit Does Not Extend to Closure)	WTP Influent 95th Percentile Modelled Concentrations CLOSURE	WTP Influent 95th Percentile Modelled Concentrations POST-CLOSURE
Major Ions				
Total Sulphate	mg/L	1,100	654	282
Nutrients				
Total Ammonia	mg/L (as N)	1.3	0.24	0.027
Total Nitrate	mg/L (as N)	34	19	5.2
Total Phosphorus	mg/L	0.09	0.036	0.036
Total Metals				
Arsenic	mg/L	0.028	0.0018	0.0019
Chromium	mg/L	0.004	0.0014	0.0018
Copper	mg/L	0.033	0.3	0.17
Iron	mg/L	1	0.68	0.23
Manganese	mg/L	3.4	0.75	0.23
Molybdenum	mg/L	0.36	0.17	0.074
Selenium	mg/L	0.075	0.078	0.033
Zinc	mg/L	0.059	0.014	0.0067

Notes:

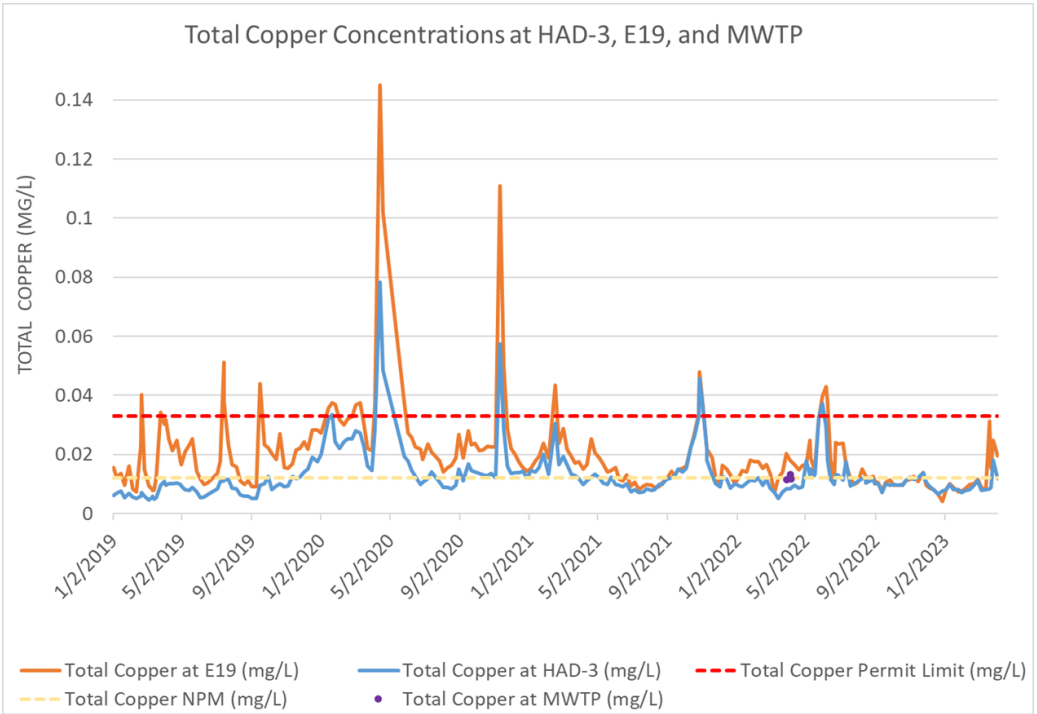
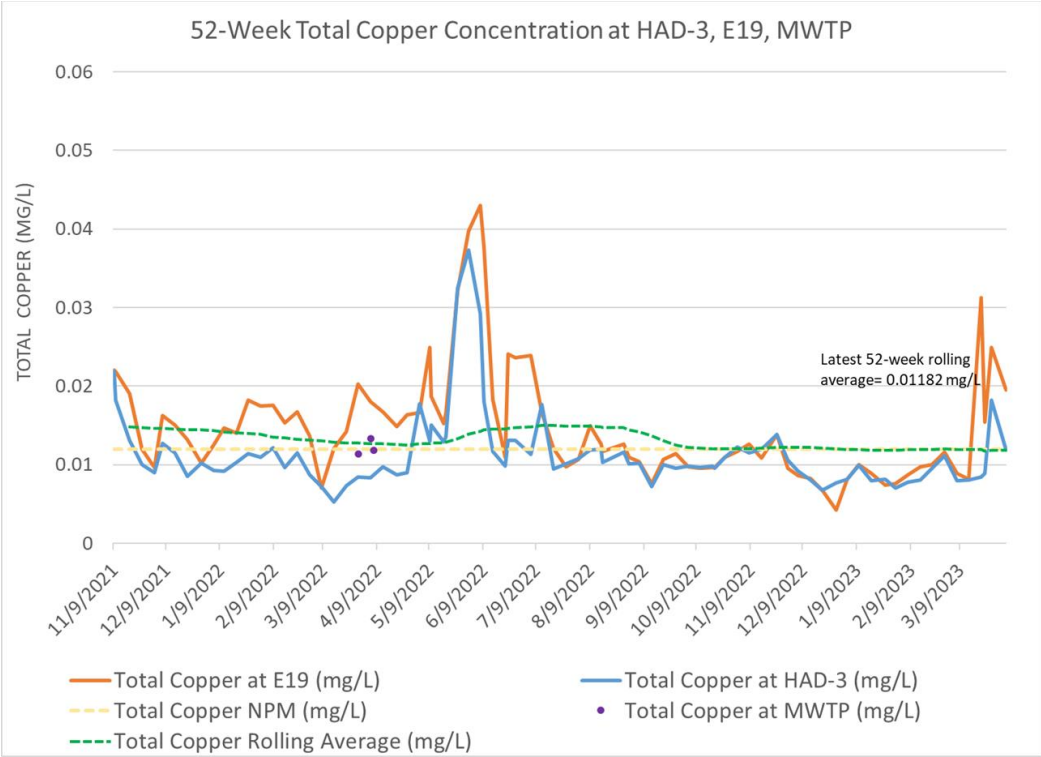
- 1) **Bold and underlined** values exceed permitted discharge limits. These EMA Permit 11678 discharge limits apply to the effluent of the WTP, and not to be PETBP (WTP influent). PETBP water quality predictions are shown to demonstrate the requirement for treatment of a water quality parameter.
- 2) The SWWBM was developed to predict water quality conservatively; where uncertainty exists in the model inputs, the inputs are selected such that under-prediction would be minimized. Thus, over-prediction is generally expected.

- Table shows technologies that are being assessed for the site
 - Blue arrows indicate that the technology has been implemented full scale
- Pit Lake Treatment
 - Waiting for more stable conditions to trial the next stage
- SRF
 - Proof-of-concept bench scale testing, long term (52 week) leach bench testing, plan for detailed bench scale testing has been prepared, SRF substrate geotechnical testing, Wight Pit SRF assessment
- PBR:
 - Proof-of-concept bench scale testing, plan for detailed bench scale testing has been prepared
- Actiflo
 - Flocculant Management Plan for EMA Permit
- Closure Treatment Planning
 - Life cycle comparison between closure BAT options
- BCR, SSR are no longer being pursued as treatment options.

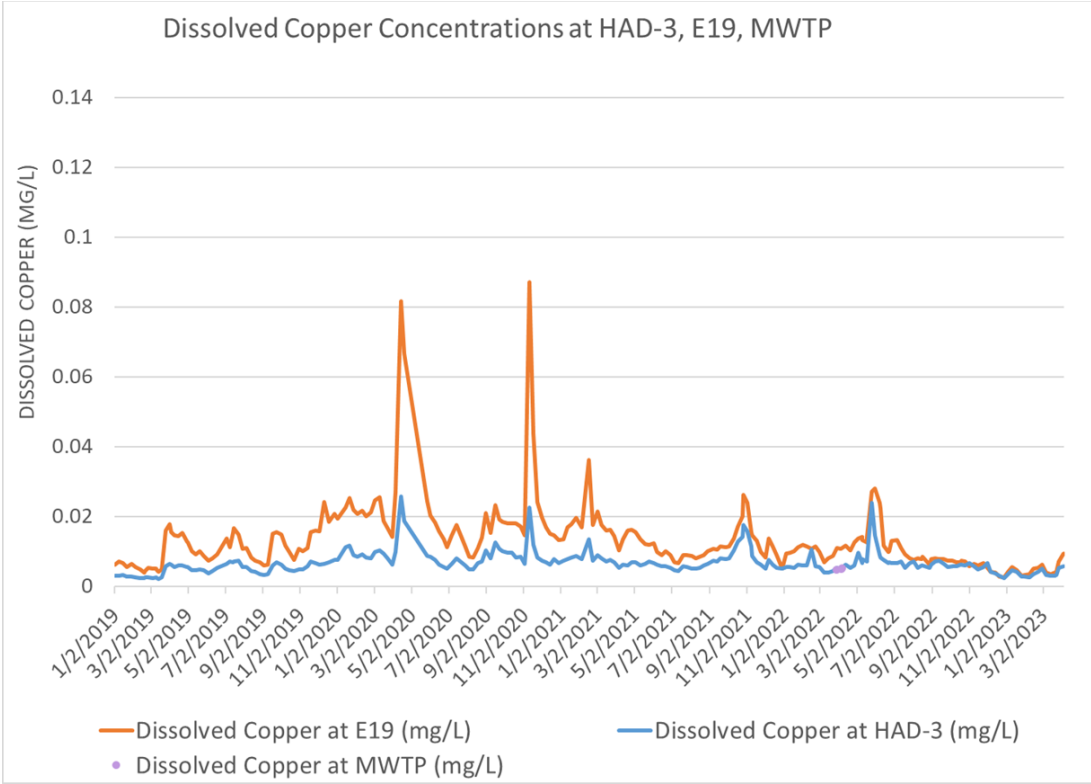
Technology / Stage of Development	Targeted COCs	Proof-of-Concept Bench-Scale Testing	Detailed Bench-Scale Testing	Pilot-Scale Testing	Demo-Scale Testing	Full-Scale Execution	Work Completed
Actiflo	TSS, total copper					→	Bench and full-scale testing.
Lime Treatment	Dissolved copper					→	N/A
TMT Treatment	Dissolved copper	→					Bench and full-scale testing. Toxicity evaluation.
Pit-Lake Treatment	Selenium, nitrate	→					Preliminary concept design and proof-of-concept bench-scale testing. Pilot-scale testing workplan.
Saturated Rock Fill (SRF)	Selenium, nitrate	→					Concept design, proof-of-concept bench-scale testing, detailed bench-scale testing workplan (in progress), and long-term substrate leach testing. Wight Pit SRF assessments.
Packed Bed Reactor (PBR)	Selenium, nitrate	→					Concept design, proof-of-concept bench-scale testing, and detailed bench scale testing workplan (in progress).
Biochemical Reactor (BCR)	Selenium, nitrate	█					Concept design and proof-of-concept bench-scale testing.
Submerged Sand Reactor (SSR)	Selenium, nitrate	█					Screening analysis.
Constructed Wetland Treatment (CWT)	Selenium, nitrate	→					Concept design, bench-scale testing, and on-site pilot scale testing (by others).

Implemented → Under Consideration → Eliminated/Paused █
 Golder 2022a

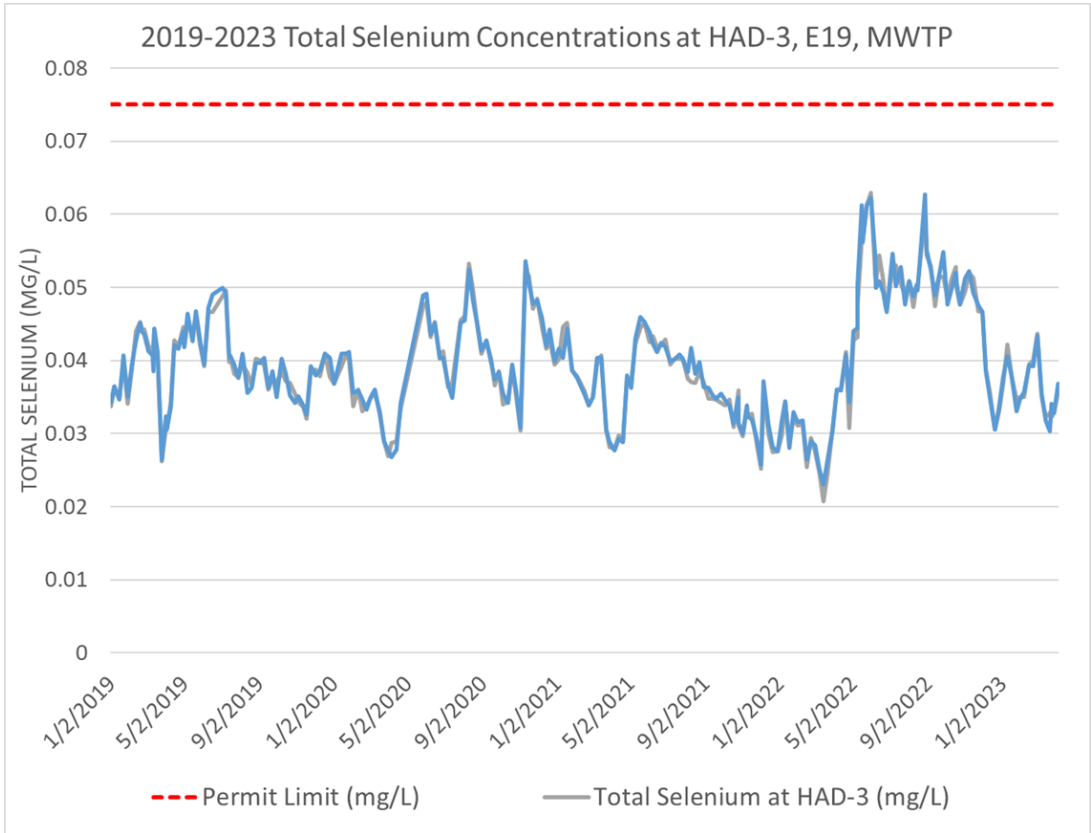
- The Water Treatment Plant discharged nearly continuously throughout Q1. A total of ~2,093,832m³ was discharged in Q1 with an average discharge rate of ~0.274 m³/s, average of ~23,265 m³/day
- Authorized annual average rate of discharge is 29,000 m³/day
- Maximum authorized rate of discharge is 52,000 m³/day
- Mobile WTP (MWTP) was on and off as the water level in the Perimeter Embankment Till Borrow Pond was periodically low.
- NPM (Numeric Performance Metric): We are endeavoring to meet the NPM. The most recent amendment does add clarity to that NPM provision. We are currently at 0.01182 mg/L (see graph below).



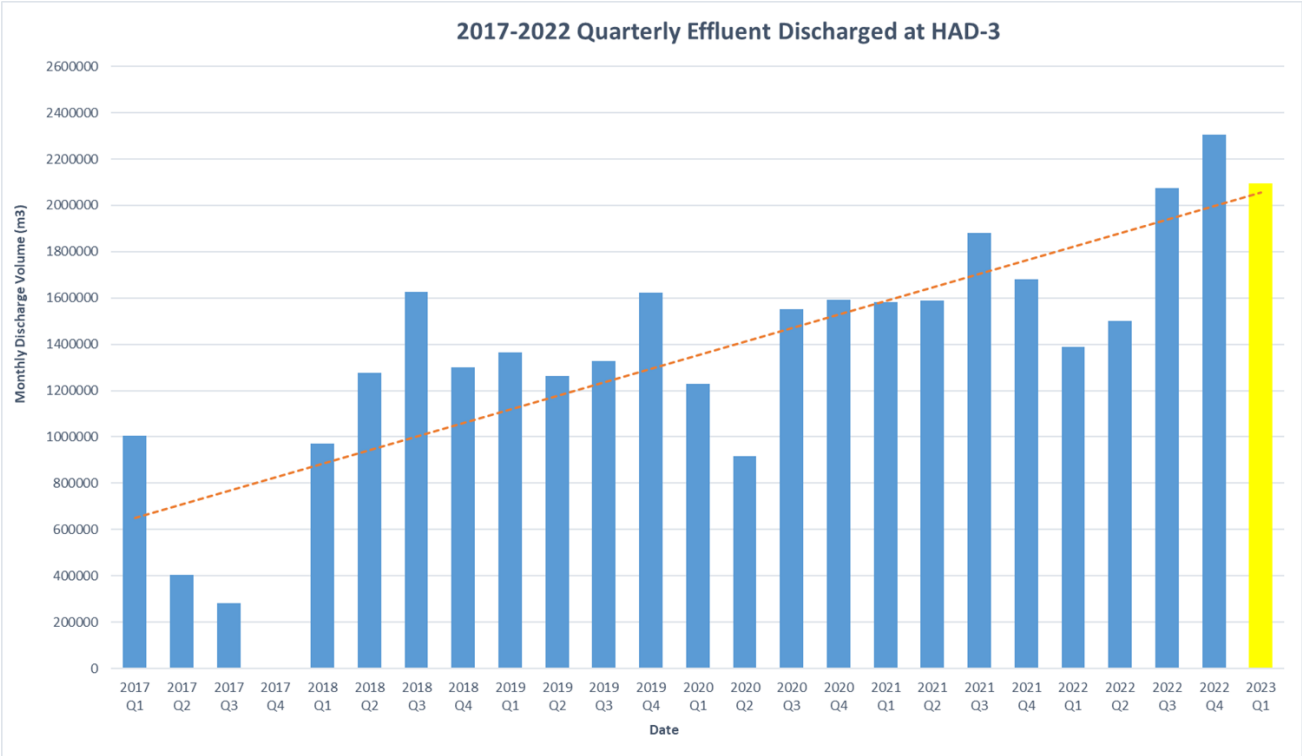
- The last few quarters we've had very favorable water quality.



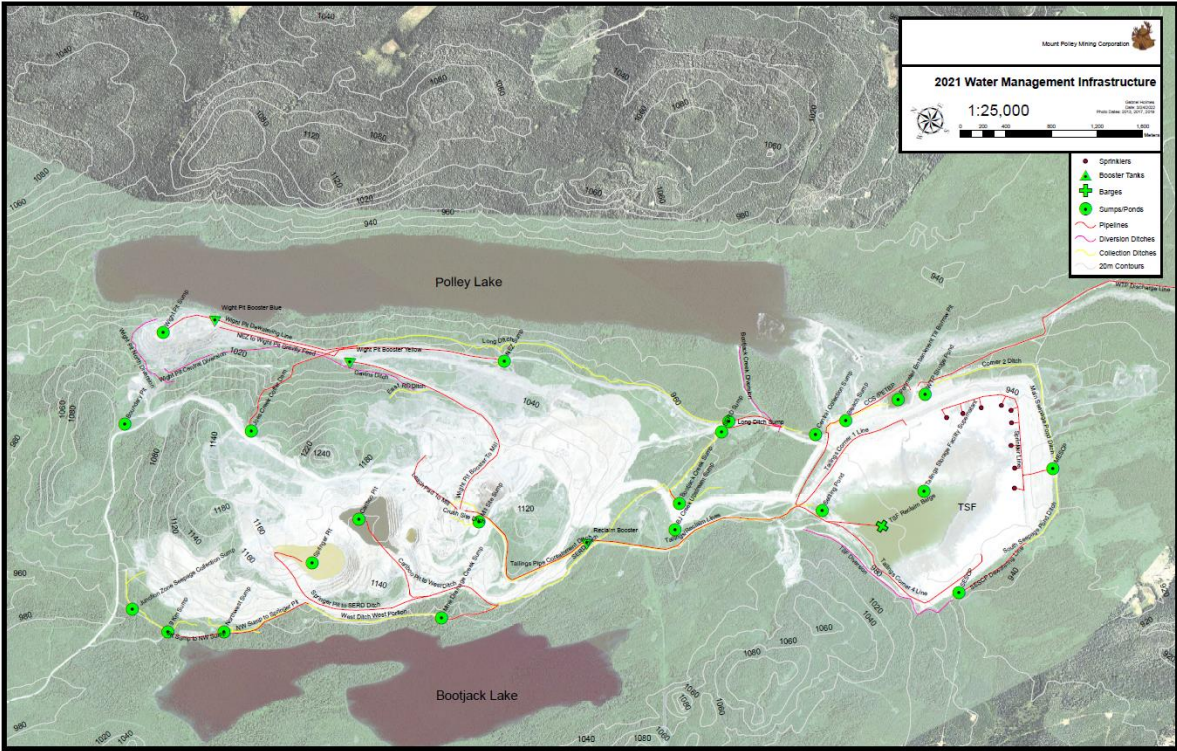
- This graph shows dissolved copper which includes particles that pass through a 0.45 micron filter. Minimal treatment is required based on the water quality going to plant.



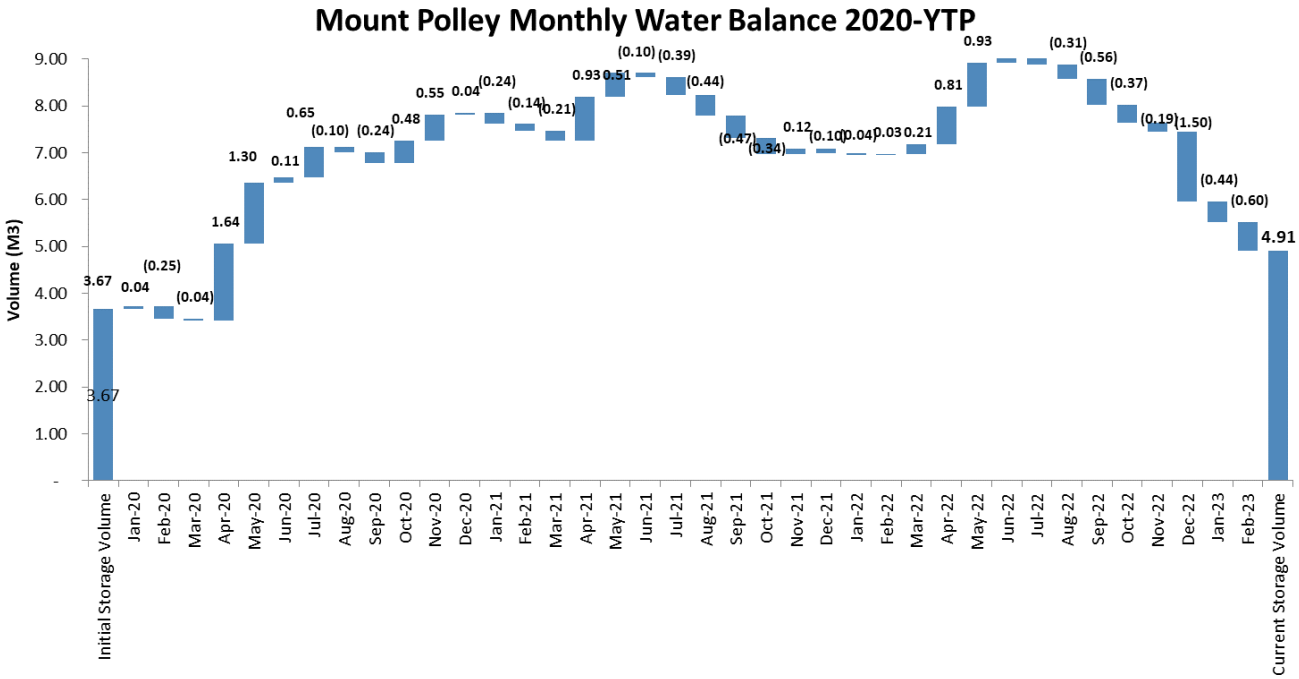
- There have been pretty stable selenium concentrations.



- The discharge in Q1 decreased as we had reduced throughput due to turbid water entering Perimeter Embankment Till Borrow Pond and a few down days.
- Water Management Infrastructure
 - Inspected daily by pump watch personnel. A comprehensive inspection is conducted twice per year per our permit requirements.

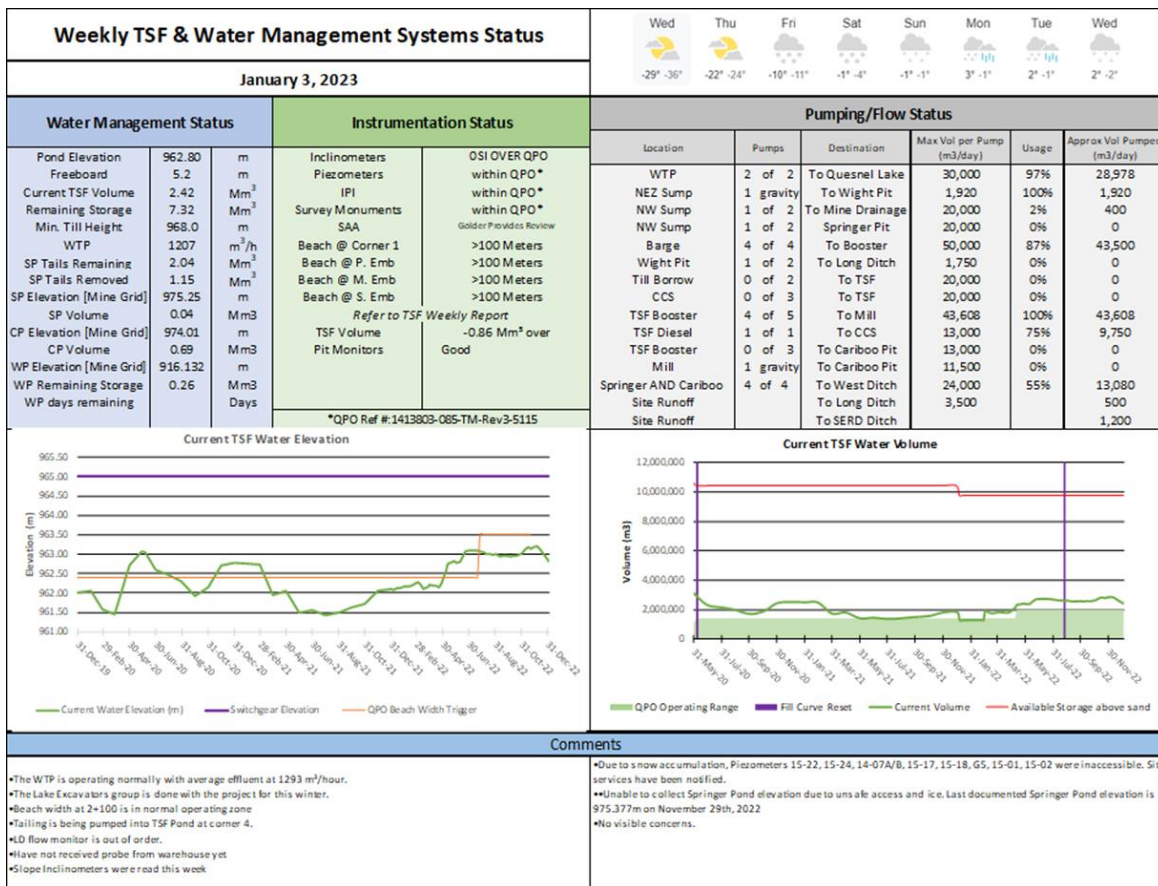


- Year over year water balance comparisons
 - The far right represents the end of February 2023, the chart at the bottom shows volumes as of last week. We have increasing water on-site due to freshet conditions. We have 3 years in a row of above average snowpack which creates challenges for water management.



	Volume - This week	Volume - Last Week	Total Change
	(Mm ³)	(Mm ³)	(Mm ³)
TSF	2.206	1.851	0.355
Cariboo Pit	0.254	0.254	0.000
Springer Pit	0.036	0.036	0.001
Wight Pit	2.581	2.567	0.014
Total	5.076	4.707	0.369
Volumes As of	11-Apr-23	4-Apr-23	

- No QPOs are highlighted in the TSF and Water Management Dashboard (shown below) so the EoR is happy with the facility at the moment.



- Tailings Storage Facility
 - Pumping down to meet QPOs (Quantitative Performance Objectives)
 - Favorable water quality amenable to treatment
 - Working to meet EoR QPOs at all times
- Springer Pit
 - Dewatering wells installed in the tailings are in use to dewater interstitial water in tailings
- Cariboo Pit
 - Maintaining water elevation to permit mining
 - Providing water to the concentrator for processing
 - Partially backfilled to facilitate mining near the north wall of the Springer Pit

- Ongoing monitoring at the end of pipe
- Wight Pit
 - Currently flooded
 - Surplus water storage
 - Ongoing monitoring at end of pipe
 - Under ice monitoring concluded
- Maintenance / Improvements
 - NEZ seep water pipeline to the mill
 - Mobile WTP operations

Remediation/Reclamation Update – Gabriel Holmes

- No remediation work was completed in Q1. Environmental monitoring activities are ongoing in the remediated areas and planning is underway for the completion of the project.
- We are initiating Year 1 of our Reclamation Research Program this year.

Next Meeting

- July 11, 2023- in person meeting at the mine with a site tour

Meeting End 12:30pm

Resources

PLC SharePoint Site:

<https://imperialmetals.sharepoint.com/sites/MountPolleyPLC>

BC Ministry of Environment Natural Resource and Enforcement Database:

<https://a100.gov.bc.ca/pub/ocers/searchApproved.do?submitType=menu>

BC Mine Information page:

<https://mines.nrs.gov.bc.ca/>

mountpolley.com

imperialmetals.com

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