



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
4601 N Monroe Street • Spokane, WA 99205-1295 • 509-329-3400

September 26, 2019

Mr. Mark N. Ioli
VP and General Manager
Echo Bay Minerals Company
363 Fish Hatchery Road
Republic, Washington 99166-8711

RE: Clarification and Correction to State Waste Discharge permit ST0008033

Dear Mark Ioli:

The Department of Ecology made clarifications and corrected a typographical error to the Echo Bay Minerals Company State Waste Discharge permit ST0008033. The changes made to the permit are below:

- On Page 8, in the monitoring requirements table under Section S2.A, (005) Tailings Impoundment Underdrain System Water, footnote (a) is missing from the sampling frequency for the parameter WAD Cyanide. The applicable footnote allows the reduction of sampling when the mill is idle to once per month for pH and Cyanide. Ecology has added the footnote to the sampling frequency for WAD Cyanide for the Tailings Impoundment Underdrain Water to correct the error and to better clarify the requirements for that monitoring point.

The corrected pages are enclosed. Please replace the current pages with the corrected versions. Since it is not a major change, we are correcting the permit and no public comment period is necessary.

Please contact Pat Hallinan at (509) 329-3500 or by email at phal461@ecy.wa.gov if you have questions about this permit correction.

Sincerely,



Shara Joy
Water Quality Program

Certified Mail 7017 0190 0000 4201 2031

SJ:sj

Enclosure

cc: Gina Myers, Echo Bay Minerals Company
Jacquelyn Nutt, Echo Bay Minerals Company
Gary Passmore, Confederated Tribes of the Colville Reservation
David Kliegman, Okanogan Highlands Alliance
David Chambers, Center for Science in Public Participation



d. Groundwater Quality Limits

Beginning on May 1, 2015 and lasting through April 30, 2020, groundwater quality affected by the Permittee's site activities as measured by monitoring wells **TP-1, TP-2 and TP-3** are subject to the following final limits:

Groundwater Enforcement Limits (mg/L) ^a			
Monitoring Well	NO ₃ +NO ₂ (as N)	Sulfate	TDS
TP-1	10	235	-
TP-2	7.8	167	-
TP-3	6.6	123	391

^a Two consecutive exceedances of an enforcement limit for the same parameter at the same well is a violation

S2. Monitoring requirements

S2.A. Process wastewater monitoring

The Permittee must monitor the Tailings Impoundment Process Wastewater by obtaining a grab sample from the surface of the tailings pond or from the reclaim water line.

The Permittee must monitor the Treated Underdrain water prior to the discharge to the infiltration system.

The Permittee must monitor Tailings Impoundment Drain/Leak Collection and Recovery System Water and the Tailings Underdrain Water from their respective collection vault/sumps or at the discharge location.

The Permittee must monitor in accordance with the following schedule and the requirements specified in **Appendix A** ^x.

Parameter	Units & Speciation	Sampling Frequency	Sample Type
(001) Tailings Impoundment Process Water			
WAD Cyanide	mg/L	1/week ^a	Grab ^b
pH	Standard Units	"	"
(002) East and (003) West Tailings Impoundment Drain and Leak Collection and Recovery Systems (LCRS)^c			
Flow	gpm	1/week	Estimate ^d
Conductivity	µmhos/cm	1/week	Grab
pH	Standard Units	"	"

Parameter	Units & Speciation	Sampling Frequency	Sample Type
(004) Reclaim Pond Leak Collection and Recovery System (LCRS)			
Flow	gpm	1/day	Estimate ^d
Conductivity	µmhos/cm	1/week	Grab
pH	Standard Units	"	"
(005) Tailings Impoundment Underdrain System Water (must monitor and report from both 'old' and 'new' sumps)			
Flow	GPD	1/day	Meter
Influent Conductivity ^e	µmhos/cm	Continuous ^f	Meter
WAD Cyanide	mg/L	2/week ^a	Grab
(006) Underdrain Water Treatment System (prior to onsite infiltration)			
Conductivity	µmhos/cm	1/month	Grab
pH	Standard Units	"	"
Nitrate + Nitrite Nitrogen	mg/L as N	"	"
Total Dissolved Solids	mg/L	"	"
Sulfate	mg/L	"	"
Dissolved Iron	mg/L	"	"
Dissolved Manganese	mg/L	"	"
^a	When the mill is idle, the Permittee may reduce the sampling frequency for WAD Cyanide and pH to once per month.		
^b	Grab means an individual sample collected over a fifteen (15) minute, or less, period.		
^c	Consisting of combined flows from the Tailings Impoundment wick drain and LCRS systems. If measured independently, the Permittee must report results from both the wick drain system and LCRS system separately.		
^d	Estimated using either a bucket and stop watch, or recorded pump run times, or equivalent.		
^e	The Permittee must report the daily instantaneous maximum and minimum conductivity.		
^f	Continuous means uninterrupted except for brief lengths of time for calibration, for power failure, or for unanticipated equipment repair or maintenance. Sampling must be taken once per day when continuous monitoring is not possible.		