

ENVIRONMENTAL PROTECTION NOTICE

Application for a Permit Amendment under The Provisions of the *Environmental Management Act*

We, Mount Polley Mining Corporation, 200 – 580 Hornby St., Vancouver, BC, V6C 3B6, intend to submit this amendment application to the Director to amend Permit 11678, issued May 30, 1997 and last amended September 19, 2016, which authorizes the discharge of effluent from a copper-gold mine and mill.

This permit amendment application requests that a discharge point for the discharge of treated mine contact water be modified in Permit 11678. The location from which the discharge originates is within Mining Leases 345731, 410495, 524068, 573346 and 933989, and Mineral Claim 514039, 514044, CB16 204475, PM5 206450, and POL2 411010, Cariboo Mining Division, Cariboo Land District. The discharge will occur at depth into Quesnel Lake, adjacent to Mineral Claim 501479. The maximum rate of all water discharged from this facility will be 0.6 cubic meters per second and the maximum volume will be 10,000,000 cubic meters per year. Table 1 shows British Columbia Water Quality Guidelines that the treated water will meet at the edge of the initial dilution zone in Quesnel Lake. By meeting these guidelines, end uses such as drinking water, aquatic health and recreation are protected in Quesnel Lake.

The permit amendment application also requests a seepage discharge for the discharge of mine contact water (via groundwater) be added to Permit 11678. The location from which the discharge originates is within Mining Leases 345731, 410495, 524068, 573346 and 933989, and Mineral Claim 514039, 514044, CB16 204475, PM5 206450, and POL2 411010, Cariboo Mining Division, Cariboo Land District. The discharge will occur from groundwater at depth into Bootjack Lake, within Mining Lease 933989, Cariboo Mining Division, Cariboo Land District. The discharge will be non-continuous, occurring only under extended contingency scenarios with no discharge from the mine. Table 1 shows British Columbia Water Quality guidelines that the seepage water will meet at the edge of the initial dilution zone in Bootjack Lake. By meeting these guidelines, end uses such as drinking water, aquatic health and recreation are protected in Bootjack Lake.

Any person who may be adversely affected by the proposed amendment and wishes to provide relevant information may, within 30 days after the last date of posting, publishing, service or display, send written comments to the applicant (Mount Polley Mining Corporation, inquiries@imperialmetals.com, Box 12, Likely BC, V0L 1N0), with a copy to the Ministry of Environment Director of Mining Operations Mount Polley (MtPolleyMinePermit@gov.bc.ca, 2080 A Labieux Road, Nanaimo BC, V9T 6J0). The identity of any respondents and the contents of anything submitted in relation to this application will become part of the public record.

Date: October 20, 2016

Mount Polley Mining Corporation Contact Number: 250-790-2215

Table 1: British Columbia Water Quality guidelines that the treated water will meet at the edge of the initial dilution zone in the receiving environment.

Parameter	Units	Maximum BC Water Quality Guidelines			Chronic BC Water Quality Guidelines	
		Aquatic Life	Drinking Water	Wildlife Water	Aquatic Life	Wildlife Water
Physical Parameters						
Dissolved Oxygen	mg/L	5 – 9	-	-	8-11	-
Total Suspended Solids	mg/L	+25 mg/L from background	-	+20 mg/L from background	+5 mg/L from background	-
Water Temperature	°C	±1°C change from background	15	±1°C change from background	-	-
pH (field)	pH Unit	6.5 - 9.0	6.5 - 8.5	-	6.5 - 9.0	-
Major Ions						
Chloride	mg/L	600	250	600	150	-
Sulphate	mg/L	-	500	-	218	-
Nutrients						
Ammonia	mg/L (as N)	20.5*	-	-	1.84*	-
Nitrate	mg/L (as N)	32.8	10	100	3	-
Nitrite	mg/L (as N)	0.060*	1	10	0.02*	-
Total Phosphorus	mg/L	-	0.01	-	0.005 - 0.015 in lakes	-
Total Metals						
Aluminum	mg/L	-	-	5	-	-
Antimony	mg/L	-	-	-	0.009*	-
Arsenic	mg/L	0.005	0.025*	0.025*	-	-
Boron	mg/L	1.2	5	5	-	-
Chromium VI	mg/L	-	-	-	0.001*	0.05*
Cobalt	mg/L	0.11	-	-	0.004	-
Copper	mg/L	0.0067*	0.5	0.3	0.002	-
Iron	mg/L	1	-	-	-	-
Manganese	mg/L	1.09*	-	-	0.83	-
Molybdenum	mg/L	2	0.25	0.05	1	-
Selenium	mg/L	-	0.01	-	0.002	0.002
Silver	mg/L	0.0001*	-	-	0.00005*	-
Zinc	mg/L	0.03*	5	-	0.0075	-
Dissolved Metals						
Aluminum	mg/L	0.1*	0.2	-	0.05	-
Antimony	mg/L	-	-	-	-	-
Cadmium	mg/L	0.000288*	-	-	0.000127	-
Iron	mg/L	0.35	-	-	-	-

Notes:

W = working guideline; M = interim guideline

Bold indicates most conservative guideline of each maximum and chronic water quality guideline

*indicates guideline is dependent on another parameter and representative average conditions in the receiving environment were applied