

ENVIRONMENTAL PROTECTION NOTICE

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

We, Mount Polley Mining Corporation, 5720 Bootjack Forest Service Road, PO Box 12, Likely, British Columbia, Canada, intend to submit this amendment application to the Director to amend Permit 11678, issued May 30, 1997 and last revised December 31, 2020, which authorizes the discharge of effluent from a copper-gold mine and mill complex located near Likely British Columbia.

This permit amendment application requests that the discharge period as defined in Permit 11678 Section 1.2.3 be extended from December 31, 2022 to December 31, 2025 to manage onsite water inventory and support permitted operations. The discharge effluent is treated mine water. The primary treatment type applied to the discharge is the Veolia Actiflo treatment system. This application does not include changes to discharge volume or quality.

The location of the facilities from which the discharge originates is within Mineral Leases No. 345731, No. 410495, No. 524068, No. 573346, No. 933970, and No. 933989 as well as Mineral Claims No. CB16 204475, No. PM5 206540, No. POL2 411010, No. 514039, and No. 514044, Cariboo Mining Division, Cariboo Land District. The discharge will occur at depth into Quesnel Lake, adjacent to Mineral Claim 501479.

The authorized annual average rate of discharge is 29,000 m³/day. The maximum rate of discharge is 52,000 m³/day. The operating period will 24 hours per day, 7 days per week. The physical and chemical characteristics of the mine water discharge are variable but the criteria that it must meet is unchanged and is shown in Table 1. Table 1 shows Permit 11678, Section 1.2.4, water quality limits that the treated water must meet at the treatment plant outlet and the edge of the initial dilution zone in Quesnel Lake. Water quality at the edge of the initial dilution zone in Quesnel Lake typically meets approved British Columbia Water Quality Guidelines apart from certain seasonal periods when Quesnel Lake naturally exceeds those guidelines. In addition to being screen against the permit limits all water quality data are screened against applicable approved British Columbia Water Quality Guidelines at the edge of the initial dilution zone in Quesnel Lake. By meeting these permit limits and comparing to approved guidelines, end uses such as drinking water, aquatic health and recreation are protected in Quesnel Lake.

Approved British Columbia Water Quality Guidelines can be found here:

<https://www2.gov.bc.ca/gov/content/environment/air-land-water/water/water-quality/water-quality-guidelines/approved-water-quality-guidelines>

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, environmental@mountpolley.com, Box 12, Likely BC, V0L 1N0), with a copy to the Ministry of Environment and Climate Change Strategy Mining Authorization (env.miningauthorizations@gov.bc.ca) The identity of any respondents and the contents of anything submitted in relation to this application will become part of the public record.

Date: February 17, 2022

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

Table 1 Permit 11678 Section 1.2.4 states "The characteristics of the discharge at the treatment plant outlet must be equivalent to or less than the values specified below in column 2 of Table 1 below." These limits will remain unchanged with this permit amendment.

Parameter	Treatment Plant Outlet (1)	Edge of Quesnel Lake IDZ (1)(2)(3)
Rainbow Trout 96hrLC50	50 % Mortality in 100% effluent	-
Daphnia Magna 48hrLC50	50 % Mortality in 100% effluent	-
pH	< 9.5 and >6.0 pH units	-
Total Suspended Solids	30 mg/L, and 15 mg/L Monthly Average	-
Total Sulfate	1,100 mg/L	218 mg/L
Total Ammonia (as N)	1.3 mg/L	0.18 mg/l as N
Total Nitrate (as N)	34.0 mg/L	3.0 mg/l as N
Total Nitrite (as N)	0.78 mg/L	0.02 mg/L as N
Total Phosphorus	90.0 µg/L	10.0 µg/L
Fluoride	17.0 mg/L	1.0 mg/L
Total Arsenic	28 µg/L	5.0 µg/L
Total Chromium	4 µg/L	1 µg/L
Total Copper	33 µg/L	2.2 µg/L (30-day rolling average)
Total Iron	1.0 mg/L	1.0 mg/L
Dissolved Iron	0.35 mg/L	0.35 mg/L
Total Manganese	3.4 mg/L	0.84 mg/L
Total Molybdenum	0.36 mg/L	0.05 mg/L
Total Silver	0.24 µg/L	0.05 µg/L
Total Selenium	75 µg/L	2 µg/L
Total Zinc	59 µg/L	7.5 µg/L
Dissolved Aluminum	0.75 mg/L	0.05 mg/L
Dissolved Cadmium	0.34 µg/L	0.13 µg/L

(1) All values are maximum values from grab samples unless otherwise specified.

(2) Only applies while discharging directly to Quesnel Lake.

(3) The "Edge of Quesnel Lake IDZ" is a point located 100m from the Quesnel Lake outfall, represented by site QUL-58 mid and/or near bottom samples, or alternative location approved by the Director.