

ENVIRONMENTAL PROTECTION NOTICE

Application for an Amendment to Permit No. 107783 under the Provisions of the *Environmental Management Act*

We, Phoenix Metals Corp., intend to submit an application to amend Permit No. 107783, issued on March 24, 2017 and most recently amended on February 27, 2025, under the *Environmental Management Act*. The proposed amendment will authorize a repeat of the previously permitted short-term dewatering program to discharge (to land) accumulated groundwater seepage currently stored within the underground workings of the Lexington-Grenoble Mine.

The land upon which the facility will be situated is legally described as Lexington Crown Grant L645, located approximately 11.5 km southeast of Greenwood, British Columbia (BC), within the Regional District of Kootenay Boundary. The approximate coordinates of the discharge are Latitude: 49.0092397, Longitude: -118.613883. Proposed works include a pump, a 75 mm diameter discharge pipe, and a 203 mm diameter by 30 m long horizontal discharge pipe. The discharged water would be distributed over a forested upland area prior to potentially reaching Goosmus Creek through a combination of overland flow and groundwater seepage.

Permit No. 107783 currently authorizes both an initial short-term dewatering program, consisting of discharge up to 1,000 m³/day for a maximum of 30 days, and long-term operational dewatering up to 50 m³/day. The previously authorized short-term dewatering provision has been exhausted. The proposed amendment is therefore intended to authorize a repeat of the short-term dewatering program to remove groundwater that has subsequently accumulated within the underground mine workings. No change to the maximum authorized short-term discharge rate of 1,000 m³/day or the maximum 30-day discharge period is proposed. The characteristics of the undiluted, untreated accumulated groundwater are as follows:

Parameter	Units	Discharge Quality	BCAWQG (max)	Parameter	Units	Discharge Quality	BCAWQG (max)
Nitrate (as Nitrogen (N))	mg/L	0.026	32.8	Selenium, Dissolved	mg/L	0.0030	-
Ammonia, Total (as N)	mg/L	<0.020	-	Aluminum, Total	mg/L	0.028	-
Total Suspended Solids	mg/L	<2	25	Arsenic, Total	mg/L	0.0013	0.005
Lethal Concentration 50%, 48 hr Daphnia	%	>100	-	Cadmium, Total	mg/L	0.00006	-
Aluminum, Dissolved	mg/L	<0.005	-	Copper, Total	mg/L	0.0317	0.033
Arsenic, Dissolved	mg/L	0.0012	-	Iron, Total	mg/L	0.07	0.145
Cadmium, Dissolved	mg/L	0.00006	1.95	Mercury, Total	mg/L	<0.00002	0.00001
Copper, Dissolved	mg/L	0.0216	-	Molybdenum, Total	mg/L	0.104	46
Iron, Dissolved	mg/L	<0.010	-	Selenium, Total	mg/L	0.003	0.002
Mercury, Dissolved	mg/L	<0.00002	-	pH, Field	-	7.90	6.5-8.5
Molybdenum, Dissolved	mg/L	0.0939	-	Hardness (as CaCO ₃)	mg/L	334	-

BCAWQG = *British Columbia Approved Water Quality Guidelines (maximum allowable concentration)*

The discharged water would not undergo active treatment prior to discharge. Water will be distributed across the forested upland area, allowing infiltration, evapotranspiration, and natural physical, chemical, and biological processes to occur prior to any potential interaction with Goosmus Creek. A monitoring program is provided in Permit No. 107783 and includes monitoring of both the mine water discharge and Goosmus Creek during dewatering activities.

Any person who may be adversely affected by the proposed discharge and wishes to provide relevant information may, within 30 days after the last date of posting, publishing, service or display, submit comments to the applicant contact person, with a copy to Caroline Wisheart, Senior Environmental Protection Officer via e-mail at: Caroline.Wisheart@gov.bc.ca or by telephone at (778) 572-3826.

The identity of any respondents and the contents of anything submitted in relation to this application will become part of the public record.

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