



7th Floor - 4922 48th Street,
P.O. Box 2130, Yellowknife NT X1A 2P6

Tel: 867-669-0506 Fax: 867-873-6610
www.mvlwb.com

March 2, 2020

MV2014F0013
MV2014L8-0006
MV2019L8-0002

Mr. David Harpley
Canadian Zinc Corporation
SUITE 1710-650 West Georgia Street
Vancouver BC V6B 4N9

Sent via Email

Dear Mr. Harpley:

**Explosives Management Plan – Version 2 – Resubmission required
Canadian Zinc Corporation – Prairie Creek All Season Road Project**

The Mackenzie Valley Land and Water Board (MVLWB or the Board) met on February 27, 2020 to review your Explosives Management Plan, Version 2, which was submitted under Part C, Condition 140 of Land Use Permit (Permit) MV2014F0013, Part F condition 16 of Water Licence (Licence) MV2014L8-0006, and Part E condition 16 of Licence MV2019L8-0002.

The Explosives Management Plan Version 2 is considered to be approved as an interim submission, upon resubmission the Plan will require a public review and a confirmation of conformity from the Board. Please include a conformity table in the Plan. The Board requires that Canadian Zinc Corporation resubmit the Explosives Management Plan in accordance with comments made during this review, as summarized in Table 1 (attached).

The Board notes CZN's News Release dated February 4, 2020 regarding the change in Project schedule and has directed CZN to submit a revised Explosives Management Plan **90 days prior to handling, storing or using explosives.**

If you have any questions or concerns, please contact Andrew Wheeler at (867) 766 7467 or email awheeler@mvlwb.com.

Yours sincerely,

A handwritten signature in blue ink, appearing to read "Mavis Cli-Michaud".

Mavis Cli-Michaud
MVLWB, Chair

Copied to: Distribution List

Attached: Table 1: Board Directives on the Explosives Management Plan Version 2

Table 1: Board Directives on Explosives Management Plan Version 2

Item	Outstanding items requiring updating	Review comment reference
1.	Provide additional detail in section 5.6.1 regarding the response plan by notifying Board staff within 30 days of a low Action Level being reached and submitting the response plan for review and approval within 90 days. The purpose of the response plan is to evaluate the effectiveness of the mitigations implemented, and the expected effectiveness of any proposed new or adjusted Action Levels / mitigations.	GNWT - ENR comment ID-2
2.	Include a statement on how lessons learned will be incorporated into subsequent Plan updates.	GNWT - ENR comment ID-3
3.	Update section 5.6 with a reference to the specific location in which the water quality monitoring adaptive management framework is located in the Water Monitoring Plan.	GNWT - ENR comment ID-4 and 5; MVLWB comment ID-17
4.	Update the Plan to accurately reference Permit and Licence conditions pertaining to the Explosives Management Plan.	MVLWB comment ID-1
5.	Update the title of the Avalanche Safety Plan to the Avalanche Hazard Management Plan.	MVLWB comment ID-2
6.	Update the Updates to Conformity Table with the correct reference to where the information is contained.	MVLWB comment ID-3, 4 and 5
7.	Update section 4.2 discussion on water quality monitoring with a reference to the specific location in which the information is located in the Water Monitoring Plan.	MVLWB comment ID-4
8.	Update the Plan to ensure the scope is consistent in its application to the PWR and/or WR construction.	MVLWB comment ID-6
9.	Update the Plan to ensure it addresses the use, handling and storage of explosives, and mitigative approaches for the use, handling and storage of explosives.	MVLWB comment ID-7 and 8
10.	Update section 4.4 by removing the reference to disposal by dissolution.	MVLWB comment ID-9
11.	Update the Plan with a reference to the specific location in which the information is located in the Wildlife Management and Monitoring Plan.	MVLWB comment ID-10
12.	Update the references section.	MVLWB comment ID-11
13.	Update section 3.6 with the information provided in the response.	MVLWB comment ID-13
14.	Update the Plan to ensure the requirements of the <i>Explosives Act</i> , RSC 1985, c E-17, and the Department of Fisheries and Oceans Guidelines for the use of explosives in or near Canadian Fisheries waters are met; specifically, with respect to magazine licence requirements, magazine storage quantity-distance requirements, and quantity-distance requirements for use near fisheries waters.	MVLWB comment ID-1, 14 and 20
15.	Update the Plan with explosive products typically used for avalanche control and include applicable Safety Data Sheets in an appendix.	MVLWB comment ID-15
16.	Update the Plan to include descriptions and rationale of monitoring required to evaluate the effectiveness of mitigative approaches with respect to the storage, handling and blasting procedures, as per Permit and Licence conditions.	MVLWB comment ID-16
17.	Update the Plan to ensure information with respect to avalanche hazard management is described solely in the Avalanche Hazard Management Plan with an appropriate cross reference to the Explosives Management Plan.	MVLWB comment ID-19
18.	Update the Plan by describing methods, in addition to the spill prevention methods described in section 4.3, for minimizing nitrogen species loading into the environment as a result of the handling and use of explosives.	PC comment ID-1
19.	Update the Plan to reflect CZNs commitment to PC comment and recommendation ID-2.	PC comment ID-2
20.	Update the Plan to reflect CZNs commitment to PC comment and recommendation ID-3.	PC comment ID-3
21.	Update the Plan to identify who is responsible for transportation records, once generated, and the NRCan permit.	PC comment ID-4

22.	Update section 1.2 by editing the text to match Permit requirements.	Racher Consulting comment ID-2
23.	Update the Plan to reflect CZNs commitment to Racher Consulting comment and recommendation ID-3.	Racher Consulting comment ID-3
24.	Update section 5.6.1 to include CZNs commitment to Racher Consulting comment and recommendation ID-4, and to align with the Report of EA Appendix B, as per Permit Condition 140.	Racher Consulting comment ID-4
25.	Update the Plan to include CZNs commitment to Racher Consulting comment and recommendation ID-5.	Racher Consulting comment ID-5