

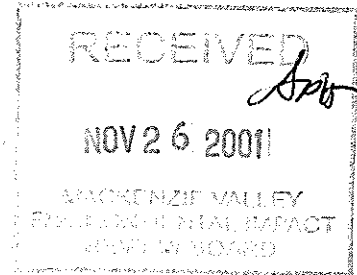


**CANADIAN ZINC**  
CORPORATION

November 23, 2001

Mr. Louie Azzolini  
Environmental Assessment Officer  
Mackenzie Valley Environmental Impact Review Board  
PO Box 938, 200 Scotia Centre, 5102 – 50<sup>th</sup> Ave.  
Yellowknife, NT  
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By Fax: 1-867-766-7074



Dear Mr. Azzolini:

**Re: Response to MVEIRB IR #1 - Prairie Creek Mine**

- **Metallurgical Pilot Plant Program**  
**(Water Licence Application MV2001L2-0003; MVEIRB File EA01-002)**
- **Underground Decline and Exploration Drilling**  
**(Land Use Application MV2001C0023; MVEIRB File EA01-002)**

We are pleased to provide Canadian Zinc's response to the MVEIRB's Information Request #1 dated October 20, 2001 concerning the above-noted Environmental Assessments currently before the Board.

MVEIRB Information Request #1 requested that Canadian Zinc provide a comprehensive list of commitments to implement mitigative measures in conjunction with the proposed developments as made over the course of the Environmental Assessment process.

Such lists of commitments are appended to the attached response for each of the abovenoted developments.

By this letter, Canadian Zinc hereby commits to adhere to these mitigative measures in carrying out the proposed developments.

Yours very truly,

**CANADIAN ZINC CORPORATION**

*Original Signed By*

Malcolm Swallow  
President & CEO



November 23, 2001

**Canadian Zinc Corporation Metallurgical Pilot Plant and Underground Decline  
Environmental Assessments**

**Response to Information Request**

**Information Request:**

**Date:** *October 20, 2001*

**From:** *Louie Azzolini, Environmental Assessment Officer, MVEIRB*

**Subject:** *Commitments Table*

**Objective:** *To have a comprehensive list of all of Canadian Zinc's (CZN) commitments to implement mitigative measures.*

**Request:** *Provide a comprehensive list of all of CZN's commitments. The list should be presented in the form of a table with sections that separate the commitments according to the items in the scope of the assessment (i.e. water quality and quantity, wildlife and wildlife habitat, etc.).*

*For each commitment, CZN should explain:*

- *The impact that the commitment was meant to mitigate; and*
- *Describe the commitment.*

*The table should be accompanied by a statement that CZN will adhere to all of the commitments in the table and should also be accompanied by the signature of an individual within the company with the authority to make this commitment on behalf of the company.*

**Response:**

See attached Tables of Commitments



**Schedule of Commitments  
Metallurgical Pilot Plant**

November 23, 2001

No.	Commitment Made	Impact to be Mitigated	Section per Terms of Reference
1	Geotechnical assessment of tailings facility to be completed & report submitted for approval prior to discharge of process water to pond	Ensure stability of tailings impoundment and suitability for proposed use; mitigate potential for structural failures/seepage losses	Water quality & quantity
2	Tailings solids to be retained in existing thickeners in mill	Mitigate potential environmental effects associated with subaerial/subaqueous tailings solids storage	Water quality & quantity
3	Process water to be tested prior to discharge either to tailings pond (if approved for use) or to receiving environment	Mitigate loadings to receiving environment and potential impacts to water quality & aquatic resources	Water quality & quantity
4	Process water to be treated, if necessary, to meet criteria for discharge to receiving environment as set under Water Licence	Mitigate loadings to receiving environment and potential impacts to water quality & aquatic resources	Water quality & quantity
5	Pilot plant to be operated within confines of existing mill building & foundation	Minimize potential disturbance to external ambient environmental; provide for spill containment	Terrain; vegetation; water; aquatic wildlife; land use; noise; aesthetics
6	Water, up to 75 m <sup>3</sup> per day, 4000 m <sup>3</sup> total, to be obtained from existing wells	Mitigate potential impacts associated with water intake from Prairie Creek	Water quality & quantity
7	CZN personnel to inspect tailings dams daily throughout duration of development	Ensure stability of tailings impoundment; mitigate potential for structural failures/seepage losses	Water quality & quantity
8	CZN to report observed instabilities to geotechnical engineers	Ensure stability of tailings impoundment; mitigate potential for structural failures/seepage losses	Water quality & quantity
9	CZN/geotechnical engineers to develop response plan to observed instabilities	Ensure stability of tailings impoundment; mitigate potential for structural failures/seepage losses	Water quality & quantity

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10	CZN to monitor tailings pond water level, 870 portal & catchment pond flow rates weekly throughout duration of development	Mitigate potential impacts and cumulative effects to water quality & aquatic resources	Water quality & quantity
11	CZN to monitor water quality of discharges from minesite to receiving environment monthly throughout duration of development	Mitigate potential impacts and cumulative effects to water quality & aquatic resources	Water quality & quantity
12	Routine preventive maintenance to be employed to ensure efficient operation of generators and support equipment	Mitigate potential impacts to air associated with inefficient operation of combustion engines	Air quality & climate
13	CZN to work closely with First Nations to fulfill provisions of Development Cooperation Agreement	Ensure opportunities to First Nations for involvement in & contributions to development	Socioeconomics
14	Operational planning meetings to be conducted on a daily basis throughout duration of development	Ensure operations conducted in compliance with terms and conditions of licences & mitigation measures properly employed	All
15	Operations reports to be completed daily throughout duration of development	Ensure operations conducted in compliance with terms and conditions of licences & mitigation measures properly employed	All
16	Operational monitoring to be ongoing throughout duration of development	Ensure operations conducted in compliance with terms and conditions of licences & mitigation measures properly employed	All
17	Process/tailings pond water quality to be tested monthly throughout duration of development	Mitigate loadings to receiving environment and potential impacts to water quality & aquatic resources	Water quality & quantity
18	All personnel to undergo safety orientation training prior to commencing work at the minesite	Ensure safe and efficient work environment including nuisance animal prevention and animal attack avoidance	Wildlife

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**Schedule of Commitments  
Underground Decline and Exploration Drilling**

November 23, 2001

No.	Commitment Made	Impact to be Mitigated	Section per Terms of Reference
1	Minewater discharge rate from decline to be monitored daily throughout duration of development	Mitigate loadings to receiving environment and potential impacts to water quality & aquatic resources	Water quality; Aquatic resources
2	Minewater from the decline to be discharged to a sump for settling prior to discharge to the receiving environment, or discharged directly to tailings impoundment (if approved for use)	Mitigate loadings to receiving environment and potential impacts to water quality & aquatic resources	Water quality; Aquatic resources
3	Minewater sump to be lined or sealed as necessary to prevent uncontrolled seepage	Mitigate loadings to receiving environment and potential impacts to water quality & aquatic resources	Water quality; Aquatic resources
4	Minewater from decline to be treated if necessary to meet receiving environment discharge criteria as set under Water Licence	Mitigate loadings to receiving environment and potential impacts to water quality & aquatic resources	Water quality; Aquatic resources
5	Minewater quality from decline to be tested monthly to ensure compliance with discharge limits throughout duration of development	Mitigate loadings to receiving environment and potential impacts to water quality & aquatic resources	Water quality; Aquatic resources
6	Geotechnical assessment of tailings facility to be completed & report submitted for approval prior to discharge of minewater to pond	Ensure stability of tailings impoundment and suitability for proposed use; mitigate potential for structural failures/seepage losses	Water quality & quantity
7	CZN personnel to inspect tailings dams daily throughout duration of development	Ensure stability of tailings impoundment; mitigate potential for structural failures/seepage losses	Water quality & quantity
8	CZN to report observed instabilities to geotechnical engineers	Ensure stability of tailings impoundment; mitigate potential for structural failures/seepage losses	Water quality & quantity

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9	CZN/geotechnical engineers to develop response plan to observed instabilities	Ensure stability of tailings impoundment; mitigate potential for structural failures/seepage losses	Water quality & quantity
10	CZN to monitor tailings pond water level, 870 portal & catchment pond flow rates weekly throughout duration of development	Mitigate potential impacts and cumulative effects to water quality & aquatic resources	Water quality & quantity
11	CZN to monitor water quality of discharges from minesite to receiving environment monthly throughout duration of development	Mitigate potential impacts and cumulative effects to water quality & aquatic resources	Water quality & quantity
12	Decline to be developed within carbonate host rock	Mitigate potential impacts associated with oxidation of sulphide minerals	Water quality; Aquatic resources
13	Waste rock to be sample weekly and analyzed monthly for ABA & metals scan throughout duration of development	Mitigate potential impacts associated with oxidation of sulphide minerals	Water quality; Aquatic resources
14	Waste rock to be stored adjacent to the portal or in the plantsite area	Minimize disturbance of new areas; contain runoff from waste rock within plantsite area	Terrain; vegetation; wildlife habitat
15	Decline to be allowed to flood upon completion of exploration program	Mitigate potential impacts associated with oxidation of any exposed sulphide minerals	Water quality; Aquatic resources
16	Portal entrance to decline to be secured as required	Mitigate potential for inadvertent access to underground workings	Reclamation; wildlife
17	Existing road network to be used to access portal area	Minimize disturbance of new areas	Terrain; wildlife habitat
18	Operational planning meetings to be conducted on a daily basis throughout duration of development	Ensure operations conducted in compliance with terms and conditions of licences & mitigation measures properly employed	All
19	Operations reports to be completed daily throughout duration of development	Ensure operations conducted in compliance with terms and conditions of licences & mitigation measures properly employed	All



20	Operational monitoring to be ongoing throughout duration of development	Ensure operations conducted in compliance with terms and conditions of licences & mitigation measures properly employed	All
21	CZN to work closely with First Nations to fulfill provisions of Development Cooperation Agreement	Ensure opportunities to First Nations for involvement in & contributions to development	Socioeconomics
22	Routine preventive maintenance to be employed to ensure efficient operation of generators and support equipment	Mitigate potential impacts to air associated with inefficient operation of combustion engines	Air quality; Noise
23	All personnel to undergo safety orientation training prior to commencing work at the minesite	Ensure safe and efficient work environment including nuisance animal prevention and animal attack avoidance	Wildlife

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