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## Conditions Annexed to and Forming Part of Land Use Permit # MV2020D0007

### Part A: Scope of Permit

1. This Permit entitles Canadian Zinc Corporation (the Permittee) to conduct the following activities at the Prairie Creek Mine site:
  - a) The extraction of waste rock and ore from the Prairie Creek Mine;
  - b) The demolition, refurbishment, development and operation of site facilities (including the airstrip);
  - c) The storage of fuel;
  - d) The development of a waste rock pile;
  - e) The construction and maintenance of site roads and lay down areas;
  - f) The quarrying of materials from specified areas;
  - g) The use of explosives;
  - h) The use of equipment for moving earth and clearing land; and
  - i) Progressive closure and reclamation of site components.
2. The scope of this Permit is as described in Table 3: Final scope of development in the Report of Environmental Assessment EA0809-002.
3. The Permit is issued subject to the conditions contained herein with respect to the use of land for the activities and area identified in Part A, Conditions 1 and 2 of this Permit.
4. Compliance with the terms and conditions of this Permit has no effect on the Permittee's obligations to comply with all applicable federal, territorial, and municipal legislation.

### Part B: Definitions (defined terms are capitalized throughout the Permit)

**Act** - the *Mackenzie Valley Resource Management Act*.

**Board** - the Mackenzie Valley Land and Water Board established under Part 4 of the *Mackenzie Valley Resource Management Act*.

**Durable Land** - land that is able to withstand repeated use, such as gravel or sand with minimal vegetative cover.

**Engagement Plan** - a document, developed in accordance with the Board's *Engagement and Consultation Policy* and the *Engagement Guidelines for Applicants and Holders of Water Licences and Land Use Permits*, that clearly describes how, when, and which engagement activities will occur with an affected party during the life of the Project.

**Environmental Assessment** - Environmental Assessment EA0809-002, conducted by the Mackenzie Valley Environmental Impact Review Board for the Project.

**Fuel Storage Tank** - a closed container for the storage of *petroleum* or *allied petroleum products* with a capacity of more than 230 litres.

**Greywater** - all liquid Wastes from showers, baths, sinks, kitchens, and domestic washing facilities but not including toilet Wastes.

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**Habitat** - the area or type of site where a species or an individual of a species of wildlife naturally occurs or on which it depends, directly or indirectly, to carry out its life processes.

**Inspector** - an Inspector designated by the Minister under the *Mackenzie Valley Resource Management Act*.

**Minister** - the Minister of Northern Affairs or the Minister of the Government of the Northwest Territories – Department of Lands, as the case may be.

**Ordinary High Water Mark** - the usual or average level to which a body of water rises at its highest point and remains for sufficient time so as to change the characteristics of the land. In flowing waters (rivers, streams) this refers to the “active channel/bank-full level” which is often the 1:2 year flood flow return level. In inland lakes, wetlands, or marine environments, it refers to those parts of the Watercourse bed and banks that are frequently flooded by water so as to leave a mark on the land and where the natural vegetation changes from predominately aquatic vegetation to terrestrial vegetation (excepting water tolerant species). For reservoirs, this refers to normal high operating levels (full supply level).

**Project** – means the Prairie Creek Mine Project as summarized in Part A, Conditions 1 and 2 (the Scope of the Permit).

**Sewage** - all toilet Wastes and Greywater.

**Spill Contingency Plan** - a document, developed in accordance with Aboriginal Affairs and Northern Development Canada’s *Guidelines for Spill Contingency Planning* that describes the set of procedures to be implemented to minimize the effects of a spill.

**Toxic** - a substance is toxic if it enters or may enter the environment in a quantity or concentration or under conditions such that it:

- a) Has or may have an immediate or long-term harmful effect on the environment or its biological diversity;
- b) Constitutes or may constitute a danger to the environment on which life depends; or
- c) Constitutes or may constitute a danger in Canada to human life or health.

**Waste** - any garbage, debris, chemical, or Toxic Material to be used, stored, disposed of, or handled on land, and also as defined in section 51 of the Act.

**Waste Management Plan (WMP)** - a document, developed in accordance with the Board’s *Guidelines for Developing a Waste Management Plan*, that describes the methods of Waste management from Waste generation to final disposal.

**Watercourse** - a natural body of flowing or standing water or an area occupied by water during part of the year, and includes streams, springs, swamps and gulches but does not include groundwater.

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**Part C: Conditions Applying to All Activities** (headings correspond to subsections 26(1) of the Mackenzie Valley Land Use Regulations)

**26(1)(a) Location and Area**

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| 1. | The Permittee shall locate all camps on Durable Land or previously cleared areas.  | <b>Camp Location</b>          |
| 2. | The Permittee shall not conduct a quarry operation within 100 metres of the Ordinary High Water Mark of any Watercourse, unless otherwise authorized in writing by an Inspector. | <b>Quarry Setback</b>         |
| 3. | The Permittee shall not conduct this land use operation on any lands not designated in the accepted Project.   | <b>Location of Activities</b> |

**26(1)(b) Time**

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| 4. | At least 48 hours prior to the commencement of this land use operation, the Permittee's Field Supervisor shall contact an Inspector at (867) 695-2626.   | <b>Contact Inspector</b> |
| 5. | At least 48 hours prior to commencement of this land use operation, the Permittee shall provide in writing to the Board and Inspector, the following information:<br><ul style="list-style-type: none"> <li>a) the name(s) of the person(s) in charge of the field operation;</li> <li>b) alternates; and</li> <li>c) all methods for contacting the above person(s).</li> </ul> | <b>Identify Agent</b>    |

**26(1)(c) Type and Size of Equipment**

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| 6. | The Permittee shall not use any equipment except of a similar type, size, and number to that listed in the accepted Project. | <b>Only Approved Equipment</b> |
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**26(1)(d) Methods and Techniques**

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| 7. | The Permittee shall source aggregates for the Mine from the on-site quarry. The Permittee shall not source aggregates from any other location, unless otherwise authorized in writing by the Board. | <b>Quarry Material</b>   |
| 8. | Any crushing associated with quarrying shall not occur within 100 metres of the Ordinary High Water Mark of any Watercourse.  | <b>Crushing</b>  |
| 9. | The Permittee shall ensure that all trucks/vehicles or machinery leaving the concentrate shed(s) are free of contaminants.  | <b>Trucks/vehicles or machinery Leaving the Concentrate Shed</b> |

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### **26(1)(e) Type, Location, Capacity, and Operation of All Facilities**

10. The Permittee shall ensure that the land use area is kept clean at all times. **Clean Work Area**

### **26(1)(f) Control or Prevention of Ponding of Water, Flooding, Erosion, Slides, and Subsidence of Land.**

11. The Permittee shall install and maintain culverts such that scouring does not occur. **Culvert Size**

12. The Permittee shall minimize erosion by installing erosion control structures as the land use operation progresses. **Progressive Erosion Control**

13. The Permittee shall not cut any stream bank, unless otherwise authorized in writing by an Inspector. **Stream Banks**

14. The Permittee shall slope the sides of Waste material piles, excavations, and embankments — except in solid rock — to a minimum ratio of 2:1 vertical, unless otherwise authorized in writing by an Inspector. **Excavation and Embankments**

### **26(1)(g) Use, Storage, Handling, and Ultimate Disposal of Any Chemical or Toxic Material**

15. During the period of this Permit, if a spill occurs or is foreseeable, the Permittee shall: **Report Spills**

- a) Implement the approved Spill Contingency Plan;
- b) immediately report each spill using the NU-NT Spill Report Form by one of the following methods:
  - Telephone: (867) 920-8130
  - Fax: (867) 873-6924
  - E-mail: [spills@gov.nt.ca](mailto:spills@gov.nt.ca)
  - Online: Spill Reporting and Tacking Database
- c) report each spill to the Board and an Inspector within 24 hours; and
- d) submit, to the Board and an Inspector, a detailed report on each spill within 30 days, including descriptions of cause, response, actions, and any changes to procedures to prevent similar occurrences in the future. Any updates to this report shall be provided to the Board and an Inspector in writing as changes occur.

16. The Permittee shall dispose of all Waste petroleum products by removal to an approved disposal facility or by incineration in a device designed for this purpose, as described in the approved Waste Management Plan. **Waste Petroleum Disposal**

17. The Permittee shall ensure that hazardous Wastes are drummed and collected in the Waste Transfer Area for off-site disposal. **Drummed Hazardous Waste**

18. The Permittee shall consume or remove from site for disposal the reagents currently stored on the reagent storage pad south of the Mine. **Reagents**

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| 19.   | The Permittee shall ensure that appropriate spill contingency materials are in place during the transfer of any hazardous materials including sulphuric acid from tankers to storage tanks.  | <b>Transfer of Hazardous Materials</b> |
| 20.   | The Permittee shall ensure that all concentrates in bags leaving the site are free of external concentrate dust. Any torn bags will be double bagged, and any spillage cleaned up completely.  | <b>Concentrate Storage/Removal</b>     |
| 21.   | The Permittee shall ensure that asbestos-containing material, lead paint, and any such material will be landfilled within the Waste Rock Pile.   | <b>Site Infrastructure</b>             |
| <b>26(1)(h) Wildlife and Fish Habitat</b>                           |  |  |
| 22.   | The Permittee shall take all reasonable measures to prevent damage to wildlife and fish Habitat during this land use operation.  | <b>Habitat Damage</b>                  |
| <b>26(1)(i) Storage, Handling, and Disposal of Refuse or Sewage</b> |  |  |
| 23.   | The Permittee shall keep all garbage and debris in a secure container until disposal.  | <b>Garbage Container</b>               |
| 24.   | Six months prior to commencement of camp demolition and new camp construction, the Permittee shall submit a Waste Management Plan to the Board for approval. The Plan shall be in accordance with the Mackenzie Valley Land and Water Board's <i>Guidelines for Developing a Waste Management Plan</i> and shall:<br><br>a) Describe how all Waste streams associated with the Project are handled, including references to other plans as necessary;<br>b) Describe in detail the process for handling any Waste stream not specifically described in another management plan including, but not limited to, Sewage, Domestic Waste, and hazardous Waste, and;<br>c) Describe details of incineration management. | <b>Waste Management</b>                |
| 25.   | If not approved by the Board, the Waste Management Plan shall be revised and resubmitted for approval within 45 days of receiving notification of the Board's decision.  | <b>Resubmit if not approved</b>        |
| 26.   | The Permittee shall adhere to the approved Waste Management Plan and shall annually review the plan and make any necessary revisions to reflect changes in operations, technology, chemicals or fuels. Revisions to the plan shall be submitted to the Board for approval.   | <b>Waste Management Plan</b>           |
| 27.   | The Permittee shall dispose of all Toxic or persistent substances as described in the approved Waste Management Plan.  | <b>Waste Chemical Disposal</b>         |
| 28.   | The Permittee shall dispose of all garbage, Waste, and debris as described in the approved Waste Management Plan, unless otherwise authorized in writing by an Inspector.  | <b>Remove Garbage</b>                  |

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29. The Permittee shall dispose of all Sewage and Greywater as described in the approved Waste Management Plan. **Sewage Disposal**

**26(1)(j) Protection of Historical, Archaeological, and Burial Sites**

30. The Permittee shall not operate any vehicle or equipment within 30 metres of a known or suspected historical or archaeological site or burial ground. **Archaeological Buffer**

31. The Permittee shall not knowingly remove, disturb, or displace any archaeological specimen or site. **Site Disturbance**

**26(1)(k) Objects and Places of Recreational, Scenic, and Ecological Value**

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**26(1)(l) Security Deposit**

32. Within 90 days of issuance of the Permit, the Permittee shall deposit with the Minister a security deposit of \$XXXXXX. **Security Deposit**

33. Prior to commencement of construction of upgrades to the Mill, the Permittee shall deposit with the Minister an additional security deposit of \$XXXXXX. **Additional Security Deposit**

34. Within 12 months of commencement of construction of upgrades to the Mill, the Permittee shall deposit with the Minister an additional security deposit of \$XXXXXX. **Additional Security Deposit**

35. Within 24 months of commencement of construction of upgrades to the Mill, the Permittee shall deposit with the Minister an additional security deposit of \$XXXXXX. **Additional Security Deposit**

36. All costs to remediate the area under this Permit are the responsibility of the Permittee. **Responsibility for Remediation Costs**

37. The Permittee shall be liable for any cost of damages over and above the amount of the security deposit. **Liability for damages**

**26(1)(m) Fuel Storage**

38. The Permittee shall: **Check for Leaks**

- a) examine all Fuel Storage Tanks and containers for leaks a minimum once per day;
- b) repair all leaks immediately; and
- c) records of inspections and repairs must be kept and made available to the Inspector.

39. The Permittee shall not allow petroleum products to spread to surrounding lands or Watercourses. **Fuel Containment**

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| 40. | Six months prior to commencement of camp demolition and new camp Construction, the Licensee shall submit a Spill Contingency Plan to the Board for approval.  | <b>Spill Contingency Plan</b>        |
| 41. | Prior to commencement of operations, the Permittee shall ensure that spill-response equipment is in place, to respond to any potential spills.  | <b>Spill Response</b>                |
| 42. | All equipment that may be parked, should have a haz-mat/drip tray under it or be sufficiently diapered. Leaky equipment should be repaired immediately.   | <b>Drip Trays</b>                    |
| 43. | The Permittee shall clean up all leaks, spills, and contaminated material.  | <b>Clean Up Spills</b>               |
|     | <b>26(1)(n) Methods and Techniques for Debris and Brush Disposal</b>  |                                      |
| 44. | Prior to the expiry date of this Permit, the Permittee shall progressively dispose of all brush and trees.  | <b>Brush Disposal/<br/>Time</b>      |
|     | <b>26(1)(o) Restoration of the Lands</b>  |                                      |
| 45. | All areas affected by construction or removal activities shall be stabilized and landscaped to their pre-construction profiles, unless otherwise authorized in writing by an Inspector.             | <b>Pre-construction Profiles</b>     |
| 46. | The Permittee shall store overburden and use it to re-contour the site after operations are complete, unless otherwise authorized in writing by an Inspector.                                       | <b>Save and Place Organic Soil</b>   |
| 47. | Prior to the expiry date of this Permit, the Permittee shall complete all cleanup and restoration of the lands used.  | <b>Final Cleanup and Restoration</b> |
| 48. | The Permittee shall carry out progressive reclamation of disturbed areas as soon as it is practical to do so.   | <b>Progressive Reclamation</b>       |
|     | <b>26(1)(p) Display of Permits and Permit Numbers</b>   |                                      |
| 49. | The Permittee shall display a copy of this Permit in each campsite established to carry out this land use operation.  | <b>Display Permit</b>                |
|     | <b>26(1)(q) Biological and Physical Protection of the Land</b>  |                                      |
| 45. | The Permittee shall adhere to all of the commitments made during the review of the application and supporting documents, including <b>during</b> the Environmental Assessment Process (EA0809-002). | <b>Commitments</b>                   |
| 46. | <b>Within six months of the effective date of this Permit</b> , the Permittee shall submit an Engagement Plan to the Board for approval.  | <b>Engagement Plan</b>               |