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NUNAVUT IMALIRIYIN KATIMAYINGI
NUNAVUT WATER BOARD
OFFICE DES EAUX DU NUNAVUT

WATER LICENCE SCHEDULE III - APPLICATION FORM

**Nunavut Water
Board**

SEP 26 2006

Public Registry

Application for: (check one)

☐ New ☐ Renewal ☒ Amendment ☐ Assignment ☐ Cancellation

LICENCE NO:
(for NWB use only)

1. NAME AND MAILING ADDRESS OF APPLICANT/LICENSEE

Canzinc Ltd.
Nanisivik NU
X0A 0X0

Phone: 867-436-7544
Fax: 867-436-7376
e-mail: mmarkle@nu.breakwater.ca

2. ADDRESS OF CORPORATE OFFICE IN CANADA (if applicable)

Canzinc Ltd.
95 Wellington St. W Suite 950
Toronto, ON
M5J2N7

Phone: 416-363-4798
Fax: 416-363-1315
e-mail: bcarreau@breakwater.ca

3. LOCATION OF UNDERTAKING (describe and attach a topographical map, indicating the main components of the Undertaking)

Nanisivik, Nunavut
Sampling Station 159-4 (West Twin Lake final discharge point)

Latitude: (73 ° 01 ' 29 " N) Longitude: (84° 28 ' 33" W)
NTS Map Sheet No. 48 Scale:

4. DESCRIPTION OF UNDERTAKING. To clarify the request in the attached letters, please refer to Part H item 11 of our current license. This section outlines the circumstances where the sampling frequency should be increased, but does not address the circumstances that allow for reduction as the MMER does in 13. (1). To further clarify, we will still be sampling weekly (as per our approved closure monitoring plan) for the substances (such as Zinc) that average greater than 10% of the allowable maximum monthly mean in our license.

5. TYPE OF PRIMARY UNDERTAKING (A supplementary questionnaire must be submitted with the application for undertakings listed in "**bold**")

- ☐ Industrial
☐ **Mining and Milling** (includes exploration/drilling)
☐ **Municipal** (includes camps/lodges)
☐ Power

- ☐ Agricultural
☐ **Conservation**
☐ Recreational
☐ **Miscellaneous** (describe below):

N/A.

See Schedule II of *Northwest Territories Waters Regulations* for Description of Undertakings

6. WATER USE

- ☐ To obtain water
 ☐ Flood control
☐ To cross a watercourse
 ☐ To divert a watercourse
☐ To modify the bed or bank of a watercourse
 ☐ To alter the flow of, or store, water

☒ Other (describe): **Modify Sampling Frequency**

7. QUANTITY OF WATER INVOLVED (cubic metres per day including both quantity to be used and quality to be returned to source)

Water use ☐ 100m³/day or less
☐ Greater than 100m³/day; if greater, indicate quantities to be used for each purpose (camp, drilling, etc.)

Water returned to source
 _____ m³/day

N/A

8. WASTE (for each type of waste describe: composition, quantity (cubic metres per day), methods of treatment and disposal, etc.)

- ☐ Sewage
☐ Solid Waste
☐ Hazardous
☐ Bulky Items/Scrap Metal

- ☐ Waste oil
☐ Greywater
☐ Sludges
☐ Other describe: _____

N/A

9. OTHER PERSONS OR PROPERTIES AFFECTED BY THIS UNDERTAKING (give name, mailing address and location; attach if necessary)

N/A

Land Use Permit
 DIAND

☐ Yes ☐ No If no, date expected _____

Regional Inuit Association

☐ Yes ☐ No If no, date expected _____

Commissioner

☐ Yes ☐ No If no, date expected _____

10. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES (direct, indirect, cumulative impacts, etc.)

N/A

NIRB Screening ☐ Yes ☒ No If no, date expected _____

11. INUIT WATER RIGHTS

Will the project or activity substantially affect the quality, quantity, or flow of water flowing through Inuit Owned Lands and the rights of Inuit under Article 20 of the Nunavut Land Claims Agreement?

N/A

If yes, has the applicant entered into an agreement with the Designated Inuit organization to pay compensation for any loss or damage that may be caused by the alteration. If no compensation agreement has been made, how will compensation be determined?

12. **CONTRACTORS AND SUB-CONTRACTORS** (name, address and functions)

N/A

13. **STUDIES UNDERTAKEN TO DATE** (list and attach copies of studies, reports, research, etc.)

N/A

14. **THE FOLLOWING DOCUMENTS MUST BE INCLUDED WITH THE APPLICATION FOR THE REGULATORY PROCESS TO BEGIN**Supplementary Questionnaire (where applicable: see section 5) ☐ Yes ☐ No If no, date expected N/AInuktitut and/or Innuinaqtun/English Summary of Project ☐ Yes ☐ No If no, date expected N/AApplication fee of \$30.00 (Payee Receiver General for Canada) ☐ Yes ☒ No If no, date expected Sept 30/06Water Use fee of \$30.00 (unless otherwise indicated in Section 9 of the *NWT Waters Regulations*; Payee Receiver General for Canada) ☐ Yes ☐ No If no, date expected N/A.15. **PROPOSED TIME SCHEDULE** (unless otherwise indicated, the NWB will consider the application for a five (5) year term)☐ one year or less (or) ☐ Multi Year

Start Date: Present

Completion Date: October 2008

Murray Markle
Name (Print)Site manager
Title (Print)
Signature17/08/06
Date

For Nunavut Water Board office use only

APPLICATION FEE Amount: \$ _____ Pay ID No.: _____

WATER USE DEPOSIT Amount: \$ _____ Pay ID No.: _____

Engineer's report shall be submitted to the Board within sixty (60) days of the inspection, with a covering letter from the Licensee outlining an implementation plan to respond to the Engineer's recommendations.

EFFLUENT MONITORING

7. The Licensee shall collect a grab sample or composite sample of effluent daily from Station No. 159-4 during periods of discharge and without delay, record the pH and concentration of substances as required by Part D, Item 6, except for Nickel and Radium²²⁶. Samples for Nickel and Radium shall be collected in accordance with Part H, Item 10 or Part H, Item 11.
8. The Licensee shall collect a grab sample or composite sample of effluent daily for the initial 14 days of discharge and weekly thereafter at Station No. 159-12 during periods of discharge and without delay, record the pH and concentration of substances as required by Part D, Item 6, except for Nickel and Radium²²⁶. Samples for Nickel and Radium shall be collected in accordance with Part H, Item 10 or Part H, Item 11.
9. If additional Final Discharge Points are identified as required by Part D, Item 10, sampling frequency shall comply with Part H, Item 10 and Part H, Item 11.
10. The Licensee shall not less than once per week and not less than four days apart, collect from each Final Discharge Point a grab sample or composite sample of effluent and without delay, record the pH and concentration of substances as required by Part D, Item 6.
11. The Licensee shall increase the frequency of sampling if the substance's monthly mean concentration is equal to or greater than 10% of the value set for the Maximum Monthly Mean Concentration as required under Part D, Item 6.
12. Testing conducted under Part D, Item 6 shall comply with the analytical requirements set out in Schedule 3 of the MMER and for Cadmium in accordance with the analytical requirements outlined in the Environment Canada "*Guidance Document for the Sampling and Analysis of Metal Mining Effluents*" EPS 2/MM/4-April 2001.
13. The Licensee shall maintain records relating to effluent monitoring equipment that contain:
 - i. A description of the equipment and, if applicable the manufacturer's specification and the year and model number of the equipment; and
 - ii. The results of the calibration tests of the equipment.

ACUTE LETHALITY AND *DAPHNIA MAGNA* TESTING

14. The Licensee shall collect from each Final Discharge Point a grab sample and conduct an Acute Lethality Test in accordance with the requirements and procedures specified in

