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July 14, 2006

Your file - Votre référence 2BE-KAZ

Our file - Notre référence 9545-2 / #91438

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Re: 2BE-KAZ - Pacific Ridge Exploration Ltd. - Baker Lake Project - Licence Application

On behalf of Indian and Northern Affairs Canada (INAC) I have reviewed the above-mentioned application. The following specialist advice has been provided pursuant to INAC's mandated responsibilities for the enforcement of the *Nunavut Waters and Nunavut Surface Rights Tribunal Act* (NW&NSRT), *Arctic Waters Pollution Prevention Act* (AWPPA), and the *Department of Indian Affairs and Northern Development Act* (DIAND Act).

Indian and Northern Affairs Canada has reviewed the additional information concerning Pacific Ridge Exploration Ltd.'s Baker Lake Project, formerly referred to as the Kazan Falls Project. It is understood that the Nunavut Planning Commission has determined that this project conforms with the Keewatin Regional Land-use Plan. The proponent is expected to uphold the Code of Good Conduct for Land Users and the Department of Indian and Northern Development's Caribou Protection Measures as specified in Appendices G an H of the Land-use Plan.

Indian and Northern Affairs Canada is appreciative that the project's drilling program has been re rescheduled to coincide with the historical caribou water crossings as addressed in its Environmental Protection Plan. Having a 20 person camp positioned at Bissette Lake (coordinate of 63°50'40"N, 95°27'40"W) and fly camps situated at Martell Lake and Shane Lake are not anticipated to cause water quality concerns.

Indian and Northern Affairs Canada requests that the comments submitted for the original licence application in June 2006 be reviewed by the Board when determining which terms and conditions should be applied to this project's licence. A copy of these comments has been appended to this review letter.

June 2006 comments:

SPILL CONTINGENCY / HAZARDOUS MATERIALS

- All fuel caches shall be located above the high water mark of any water body. Furthermore, INAC recommends the use of secondary containment, such as self-supporting insta-berms, when storing barreled fuel on location rather than relying on natural depressions.
- The proponent shall ensure that any hazardous materials, including waste oil, receive proper treatment and disposal at an approved treatment facility.
- The Spill Contingency Plan's INAC Water Resources Inspector contact information should be revised. The appropriate telephone number is (867) 975-4289 and fax number is (867) 975-



6445.

- INAC recommends that the Spill Contingency Plan include the contact information of the Onsite Coordinator and any other key project personnel.
- INAC recommends that a copy of the Spill Contingency Plan and appropriate Material Safety
 Data Sheets be stored within each spill response kit. Having copies of this Plan accessible to
 project personnel is an important aspect of promoting appropriate spill response procedures.

DRILLING OPERATIONS

- For drilling operations on ice, the proponent should ensure that all drill cuttings are disposed of in a sump or removed from the project area for appropriate treatment. Furthermore, the drill water returned to the environment should conform to the CCME Guidelines for the Protection of Aquatic Life. The proponent should consult the Government of British Columbia's Ministry of Environment's Ambient Water Quality Guidelines (Criteria) for Turbidity, Suspended and Benthic Sediments, referenced by the CCME Guidelines. These Guidelines state that induced suspended sediment concentration should not exceed background levels by more than 25 mg/L at any given time when background levels are between 25 and 250 mg/L. When background exceeds 250 mg/L, suspended sediments should not be increased by more than 10% of the measures background level at any onetime.
- INAC recommends that the proponent respond to question 21 of the Exploration / Remote Camp Supplementary Questionnaire regarding the use of drill additives, i.e., list their brand names and properties. A response to this question cannot be found in the Spill Contingency Plan as indicated by the proponent in the Questionnaire.
- Should the drill hole penetrate below the permafrost layer, the drill hole should be permanently sealed and capped to prevent induced contamination of groundwater or salinization of surface waters due to artesian flow.
- If the proponent penetrates below the permafrost layer, INAC requests that the proponent notify the Nunavut Water Board and itself of permafrost depth for future reference and data management purposes.
- INAC recommends that the proponent follow the Mineral Exploration Guidelines for Saskatchewan (Saskatchewan Mineral Exploration and Government Advisory Committee, 2005) with regard to uranium exploration best management practices. In particular, the proponent is advised to comply with the following guidelines.
 - Drill mud solids or cuttings with a uranium concentration greater than 0/05% are to be disposed of down the drill hole and sealed.
 - Any drill hole that encounters mineralization with a uranium content greater than 1.0% over a length of >1 meter, and with a meter-percent concentration >5.0, should be sealed by grouting for the initial 15 m below the ground's active surface layer, the entire length of the mineralization zone below the permafrost, and 15 m above the non-permafrost area if these conditions are encountered. Should the drill hole not go beyond permafrost conditions, there will be no need to place grouting beyond the 15 m below the active surface layer due to permafrost encapsulation.
 - Gamma radiation levels measures at 1 m from the surface of core storage areas should be reduced to 1.0 μSv and in no instance will the level be allowed to exceed 2.5 μSv. When

core is found to exceed the levels identified, the Nunavut Water Board should be contacted for review and approval of the handling procedures (INAC requests that it also be notified of such occurrences). Instruments that measure radiation in counts per second must be converted to μS according to the specifications of that instrument.

CAMPS

 INAC recommends that the ashes of burned combustible wastes be raked to remove noncombustible wastes (e.g., tinfoil and iron nails) prior to being buried on-site or delivered to an approved waste disposal facility along with non-combustible wastes.

INAC recommends that the following comments be taken into consideration when Indian and Northern Affairs Canada requests notification of any changes in the proposed project, as further review may be necessary. Please do not hesitate to contact me if you have any questions or comments with regards to the foregoing by telephone (867) 975-4555 or by email via abernethyd@inac-ainc.gc.ca.

Sincerely,

Original signed

David W. Abernethy Water Resources Coordinator

cc. Jim Rogers - Manager of Water Resources, Indian and Northern Affairs Canada, Igaluit