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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: Commander Resources Ltd. **Licence No:** 2BE-STO1015
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: Steve Potts Tel: 604-685-5354 Fax: 604-685-2814 E-mail: spotts@commanderresources.com

2. Project Manager: AS ABOVE Tel: _____ Fax: _____ E-mail: _____

3. Does the applicant hold the necessary property rights? YES - Prospecting permits 7548 & 7549

4. Is the applicant an 'operator' for another company (i.e., the holder of the property rights)? If so, please provide letter of authorization. NO

5. Duration of the Project

   ☐ One year or less Start and completion dates: _____
   ☒ Multi Year:

   If Multi-Year indicate proposed schedule of on site activities
   Start: June 2013 Completion: July 2015

CAMP CLASSIFICATION

6. Type of Camp

   ☐ Mobile (self-propelled)
   ☒ Temporary
   ☒ Seasonally Occupied: Summer Only
   ☐ Permanent
   ☐ Other: _____

7. What is the design, maximum and expected average population of the camp?

   Tent camp - will be able to accommodate a maximum of 12 people
   Expected average camp population - 10 people

8. Provide history of the site if it has been used in the past.

   1995 - 2001: Camp site used by Teck-Cominco Ltd.

CAMP LOCATION

9. Please describe proposed camp location in relation to biogeographical and geomorphological features, and water bodies.

The camp is to be situated adjacent to a small, unnamed lake about 700m x 200m in size. The lake is about 9km east of Aston Bay on Peel Sound, and about 1km north of Aston River. The location is the same as in the original application.

10. How was the location of the camp selected? Was the site previously used? Was assistance from the Regional Inuit Association Land Manager sought? Include maps and/or aerial photographs.

The site was used by a previous explorer (Teck-Cominco) from 1995 to 2001

11. Is the camp or any aspect of the project located on:

- [X] Crown Lands — Permit Number (s)/Expiry Date: PP7548 & PP7549 / 01/31/13
- [ ] Commissioners Lands — Permit Number (s)/Expiry Date: _____
- [ ] Inuit Owned Lands — Permit Number (s)/Expiry Date: _____

12. Closest Communities (direction and distance in km):

Resolute - 112 km North

13. Has the proponent notified and consulted the nearby communities and potentially interested parties about the proposed work?

Service providers in Resolute have been contacted. Community consultations will proceed immediately prior to commencement of field work.

14. Will the project have impacts on traditional water use areas used by the nearby communities? NO
Will the project have impacts on local fish and wildlife habitats? NO

PURPOSE OF THE CAMP

15.
- [X] Mining (includes exploration drilling)
- [ ] Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.) (Omit questions # 16 to 21)
- [ ] Other _____

16. Activities (check all applicable)

- [X] Preliminary site visit
- [X] Prospecting
- [ ] Geological mapping
- [X] Geophysical survey
- [X] Diamond drilling

- ☐ Reverse circulation drilling
- ☐ Evaluation Drilling/Bulk Sampling (also complete separate questionnaire)
- ☐ Other: _____

17. Type of deposit (exploration focus):

- ☒ Lead Zinc
- ☐ Diamond
- ☐ Gold
- ☐ Uranium
- ☒ Other: Copper

DRILLING INFORMATION

18. Drilling Activities

- ☒ Land Based drilling
- ☐ Drilling on ice

19. Describe what will be done with drill cuttings?

Cuttings will be disposed of in a natural sump. If no sump is available, cuttings will be collected and disposed of in a suitable sump.

20. Describe what will be done with drill water?

Water use will be minimized with recirculation. Drill water will be directed towards a sump and away from surface water bodies.

21. List the brand names and constituents of the drill additives to be used? Includes MSDS sheets and provide confirmation that the additives are non-toxic and biodegradable.

Calcium Chloride, Rod Grease, Polymer, Linseed Soap - SEE ATTACHED

22. Will any core testing be done on site? Describe.

Core will be flown to camp and sampled and cut using a diamond bladed saw. All analytical testing will be done at accredited labs in southern Canada.

SPILL CONTINGENCY PLANNING

23. The proponent is required to have a site specific Spill Contingency Plan prepared and submitted with the application This Plan should be prepared in accordance with the *NWT Environmental Protection Act, Spill Contingency Planning and Reporting Regulations, July 22, 1998* and *A Guide to the Spill Contingency Planning and Reporting Regulations, June 2002.* Please include for review.

SEE ATTACHED

24. How many spill kits will be on site and where will they be located?

Three spill kits will be on site. One will be stored at the fuel cache, one at the drill, and the third will be stored at the generator shack.

25. Please describe the types, quantities, and method of storage of fuel and chemicals on site, and provide MSDS sheets.

SEE ATTACHED

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

Camp water will be taken from a small, unnamed lake about 700m x 200m in size. Water for drilling in the Storm area will be taken from the Aston River, south of the area of planned drilling. Water for drilling in the Seal (proposed) area will be taken from a number of small lakes. Care will be taken to ensure that water bodies will have large enough capacity to avoid impact on lake level or flow. SEE ATTACHED MAPS.

27. Estimated water use (in cubic metres/day):

- [X] Domestic Use: 2 Water Source: Described above
- [X] Drilling: 15 Water Source: Described above
- [ ] Other: _____ Water Source: _____

28. Describe water intake for camp operations? Is the water intake equipped with a mesh screen to prevent entrapment of fish? (see *DFO 1995, Freshwater Intake End-of-Pipe Fish Screen Guideline*) Describe:

Water will be extracted from the lake using an electrically powered submersible pump with a fine screen (<1/4" openings) on the intake to prevent fish entrapment.

29. Will drinking water quality be monitored? What parameters will be analyzed and at what frequency?

Given the brief field season and the small camp size, no water quality testing will be performed. Should the camp size or duration of the field season increase, coliform testing will be carried out.

30. Will drinking water be treated? How?

Bleach will be added in low concentrations if organic material is present in the water.

31. Will water be stored on site? YES. Temporary storage in a 500L plastic tank.

WASTE TREATMENT AND DISPOSAL

32. Describe the characteristics, quantities, treatment and disposal methods for:

☐ Camp Sewage (blackwater)

0.05 m^3/day - all sewage waste will be incinerated

☐ Camp Greywater

2 m^3/day - greywater will be disposed of in dry pits located adjacent to camp and allowed to percolate into overburden at a minimum distance of 50m from nearby water sources

☐ Solid Waste

All combusible solid waste will be incinerated on-site

☐ Bulky Items/Scrap Metal

Non-combustible solid waste will be stored on site in sealed containers and periodically flown out and taken to an approved disposal site.

☐ Waste Oil/Hazardous Waste

Waste oil will be collected and sealed in clearly marked plastic containers, and transported to Resolute for disposal at an approved site. Lead acid batteries will also be sealed in appropriate, clearly marked containers, and transported to Resolute for disposal at an approved facility.

☐ Empty Barrels/Fuel Drums

Empty drums will be transported to Resolute for either refilling or disposal at an approved site.

☐ Other:

33. Please describe incineration system if used on site. What types of wastes will be incinerated?

A dual chamber, fuel fired incinerator will be used to incinerate sewage and combustible solid waste. Ashes will be stored in sealed containers and removed from site for disposal at an approved facility.

34. Where and how will non-combustible waste be disposed of? If in a municipality in Nunavut, has authorization been granted?

Non-combustible waste will be stored in sealed containers and removed from site weekly for disposal at an approved facility. Due to the small volume of waste anticipated (<0.11 m^3 / week), authorization will be secured before commencement of field work.

35. Describe location (relative to water bodies and camp facilities) dimensions and volume, and freeboard for all sumps (if applicable).

One sump will be located behind the cook tent and another will be located behind the dry tent. Each sump will be at least 80 cm in diamater and 100 cm in depth. Sumps will be located at least 50 m from any water bodies.

36. Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency? NO. No leachate will be produced on site.

OPERATION AND MAINTENANCE

37. Have the water supply and waste treatment and disposal methods been used and proven in cold climate? What known O&M problems may occur? What contingency plans are in place?

All water supply and waste treatment and disposal methods have been proven in cold climates. No O&M problems are anticipated. Contingency plans are N/A.

ABANDONMENT AND RESTORATION

38. Provide a detailed description of progressive and final abandonment and restoration activities at the site.

All drill sites will be cleaned after the completion of each hole. All tent sites will be restored by fertilizing the ground following the removal of tent canvas, frames, and floors.

See attached Abandonment and Restoration Plan for further details.

BASELINE DATA

39. Has or will any baseline information be collected as part of this project? Provide bibliography.

- ☐ Physical Environment (Landscape and Terrain, Air, Water, etc.)
- ☐ Biological Environment (Vegetation, Wildlife, Birds, Fish and Other Aquatic Organisms, etc.)
- ☐ Socio-Economic Environment (Archaeology, Land and Resources Use,
- ☐ Demographics, Social and Culture Patterns, etc.)
- ☐ Other: _____

SEE ATTACHED

REGULATORY INFORMATION

40. At a minimum, you should ensure you have a copy of and consult the documents below for compliance with existing regulatory requirements:

- ✓ ARTICLE 13 – *NCLA -Nunavut Land Claims Agreement*
- ✓ NWNSRTA – *The Nunavut Waters and Nunavut Surface Rights Tribunal Act, 2002*
- ✓ *Northwest Territories Waters Regulations, 1993*
- ✓ NWB - Water Licensing in Nunavut - Interim Procedures and Information Guide for Applicants
- ✓ NWB - Interim Rules of Practice and Procedure for Public Hearings
- ✓ RWED – *Environmental Protection Act, R-068-93- Spill Contingency Planning and Reporting Regulations, 1993*
- ✓ RWED A Guide to the Spill Contingency Planning and Reporting Regulations, 2002
- ✓ NWTWB - Guidelines for Contingency Planning
- ✓ *Canadian Environmental Protection Act, 1999 (CEPA)*
- ✓ *Fisheries Act, RS 1985* - s.34, 35, 36 and 37
- ✓ DFO - Freshwater Intake End of Pipe Fish Screen Guideline
- ✓ NWTWB - Guidelines for the Discharge of Treated Municipal Wastewater in the NWT

- ✓ Canadian Council for Ministers of the Environment (CCME); Canadian Drinking Water Quality Guidelines, 1987
- ✓ Public Health Act - Camp Sanitation Regulations
- ✓ Public Health Act - Water Supply Regulations
- ✓ *Territorial Lands Act* and *Territorial Land Use Regulations*; Updated 2000