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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: Stantec Consulting Ltd. **Licence No:** _____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: Carey Sibbald Tel: 867-920-2216 Fax: 867-920-2278 E-mail: carey.sibbald@stantec.com

2. Project Manager: Dan McQuinn Tel: 902-468-7777 Fax: 902-468-9009 .
E-mail: dan.mcquinn@stantec.com

3. Does the applicant hold the necessary property rights? No

4. Is the applicant an 'operator' for another company (i.e., the holder of the property rights)? If so, please provide letter of authorization.

   Stantec Consulting Ltd. has been hired by Defence Construction Canada (DCC) to complete the geotechnical investigation at the Nanisivik Naval Facility – see the attached letter to proceed from DCC

5. Duration of the Project

   ☒ One year or less Start and completion dates: August 20, 2010 to June 2011
   ☐ Multi Year:

   If Multi-Year indicate proposed schedule of on site activities
   Start: _____ Completion:_____

CAMP CLASSIFICATION

6. Type of Camp

   NO CAMP – NOT APPLICABLE; all personnel will stay in Arctic Bay and travel to the Nanisivik Naval Facility twice daily (two 12-hour shifts)

   ☐ Mobile (self-propelled)
   ☐ Temporary
   ☐ Seasonally Occupied: _____
   ☐ Permanent

☐ Other:_____

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

N/A

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

N/A

CAMP LOCATION

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

N/A

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.

N/A

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

☐ Crown Lands Permit Number (s)/Expiry Date: _____
☐ Commissioners Lands Permit Number (s)/Expiry Date: _____
☐ Inuit Owned Lands Permit Number (s)/Expiry Date: _____

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

N/A

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

N/A

14. Will the project have impacts on traditional water use areas used by the nearby communities? Will the project have impacts on local fish and wildlife habitats?

N/A

PURPOSE OF THE CAMP

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

16. Activities (check all applicable)

☐ Preliminary site visit

- ☐ Prospecting
- ☐ Geological mapping
- ☐ Geophysical survey
- ☒ Diamond drilling – However NO CAMP will be constructed for the geotechnical program; personnel will travel to the project site from Arctic Bay, NU, twice daily
- ☐ Reverse circulation drilling
- ☐ Evaluation Drilling/Bulk Sampling (also complete separate questionnaire)
- ☐ Other: _____

17. Type of deposit (exploration focus):

- ☐ Lead Zinc
- ☐ Diamond
- ☐ Gold
- ☐ Uranium
- ☐ Other: _____

DRILLING INFORMATION

18. Drilling Activities

- ☒ Land Based drilling
- ☐ Drilling on ice

19. Describe what will be done with drill cuttings?

Drill cuttings will be disposed of on land, at least 30 m from the high water mark of any waterbody

20. Describe what will be done with drill water?

Drill water will either be re-circulated from the drill directly into a wet will within the existing wharf facilities to prevent siltation, or be collected and tanked to allow any minor accumulations of silt to settle out. Settled drill water will then be returned to source (Strathcona Sound). Collected silt (estimated less than 1 kg) will be disposed of on the ground in a low lying depression near the drill locations, at least 30 m from the high water mark of any waterbody.

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.

Salt will be added to the withdrawn water to further reduce the freezing point and prevent the drill from freezing in the borehole. No other additives will be used.

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

Most core and soil samples will be logged on site and shipped off site for analysis. Permafrost testing of core samples may occur on site if it is not possible to ship them back frozen. On site permafrost testing will consist of a moisture content measurement.

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 Spill Contingency Plan.

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

    There will be 2 spill kits located on site. One spill kit will be kept by the drill at all times. The other will be kept at the water pump when it is being used.

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

    Approximately 600 L of diesel fuel will be required to operate the drill throughout the geotechnical investigation program. This diesel fuel will be kept at the local fuel bulk station of the Mine Port Facility. except for daily usage which will be transported by truck .

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

    Water for drilling will be withdrawn from Strathcona Sound (marine); see attached map.

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

    ☐ Domestic Use: _____ Water Source: _____
    ☒ Drilling: 0.75 m^3/day Water Source: Strathcona Sound
    ☐ 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:

    NO WATER INTAKE FOR CAMP; NO CAMP

    The water intake for the drill will be equipped with an appropriately sized fish screen to prevent fish entrapment/impingement (as per DFO *Freshwater Intake End-of-Pipe Fish Screen Guidelines*).

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

    N/A

30. Will drinking water be treated? How?

N/A

31. Will water be stored on site?

N/A

WASTE TREATMENT AND DISPOSAL

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

☐ Camp Sewage (blackwater)

☐ Camp Greywater

☐ Solid Waste

☐ Bulky Items/Scrap Metal

☒ Waste Oil/Hazardous Waste

Any waste oil or hazardous wastes (e.g., lubricants, etc) arising from the geotechnical drill program will be properly stored until removal offsite by sealift in late fall. Any waste oil or hazardous wastes will be shipped off site to an approved disposer.

☒ Empty Barrels/Fuel Drums

Empty fuel drums associated with the geotechnical drill program will be stored in a designated area until removal off site by sealift in late fall. Empty fuel drums will be disposed of at an approved disposer.

☐ Other:

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

No incineration system will be used for the geotechnical drill program. Any combustible wastes associated with the drill program (e.g., food wastes, packaging, etc) will be disposed of on-site

(existing Mine Port Facility) as per site regulations, or transported with field personnel back to Arctic Bay.

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

Any non-combustible wastes associated with the geotechnical drill program will be disposed of on-site as per site regulations. This may include shipping wastes off site to an approved disposer.

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

N/A – Sumps will not be used for the geotechnical drill program

36. Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency?

N/A – Leachate monitoring will not be done

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 waste and signs of our work will be removed and the areas will be returned to original condition before drilling. Maintenance would be limited to greasing the machines, except in case of drill breakdown. The drill is receiving an overhaul before mobilization to the site to minimize breakdown possibility and maintenance requirements.

ABANDONMENT AND RESTORATION

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

All drill and test pitting sites will be returned to their original or near original condition prior to drilling or test pitting. No other abandonment or restoration activities are planned following the geotechnical drill program.

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: __Site reconnaissance prior to conducting investigation. The program will include collection of geotechnical data.__

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