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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: Stornoway Diamond Company **Licence No: _____**
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Land Manager: **Nicole Westcott** Tel :**604-983-7750** Fax: **604-987-7107**
Email:**nwestcott@stornowaydiamonds.com**

2. Project Manager: **Robin Hopkins** Tel: **604-983-7750** Fax: **604-987-7107** E-mail: **N/A**

3. Does the applicant hold the necessary property rights?

Yes.

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

Stornoway Diamond Corporation (or its wholly owned subsidiary Ashton Mining (Northwest Territories) Ltd.) holds the mineral rights to a majority of the dispositions designated as the land use area for the Coronation Gulf Project however there are several claims that are not registered in the applicant's name. These claims form a part of two separate joint venture agreements of which Stornoway is the official operator. Documentation supporting this was submitted in 2002 when an application was submitted for the first license authorizing the Eureka camp (NWB2COR0205 which expired October 31, 2005. This license was renewed as 2BE-COR0508 and expired October 21, 2008).

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 1, 2010** Completion: **April 31, 2012**

CAMP CLASSIFICATION

6. Type of Camp

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

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

Field crews will be working from a temporary campsite which has been utilized during past exploration programs and would accommodate approximately 10 people over the course of the four week program. Personnel will most likely consist of four to five drillers, one cook/first aid attendant, one helicopter pilot, one helicopter engineer, and two geologists.

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

The Eureka camp is located at UTM zone 12, 384500E, 7436500N and was originally established in 2002 when a camp location used during the spring was found to be unsuitable for a float equipped aircraft following spring break up. This site was originally chosen in 2002 as it was found to be accessible by both ski and float equipped aircraft and had a previously utilized, marked landing strip suitable for a Twin Otter to land on tundra tires. For these reasons, and the fact that it is centrally located to Stornoway Diamond Corporation's current landholdings in the area the Eureka camp was chosen as the location to retain over the three other camps that it found itself with in the Coronation Gulf area after its acquisition of Ashton Mining Canada Inc. in 2007 (the remaining locations have had abandonment and reclamation activities completed on them and final land use plans have been submitted).

This site was not actually occupied in 2002 however the tent frames, floors and equipment were moved there after break up in anticipation of its use the following year.

In 2003 an extensive regional till sampling program was conducted on the claims comprising the Coronation Gulf property and the Eureka camp was utilized for a four week period during the season. From June 26 to July 24, 2004 a population of eight personnel occupied the camp and were supported by both helicopter and, as needed, a fixed-wing aircraft.

In 2004 Stornoway undertook a six week exploration program which included till sampling, ground geophysical surveys and a short diamond drilling program and the Eureka camp was occupied throughout this time period. The camp had a fluctuating population during this time with the minimum occupancy being eight personnel consisting of four geologists, one project manager, one helicopter pilot, one engineer and one cook who were all there throughout the entire six weeks. For a period of 17 days this population increased with the addition of four drillers and one foreman, and for a period of 16 days a crew of three geophysical personnel also based themselves from camp. As in the previous year the crew was supported by both a helicopter, and, as needed, a fixed-wing aircraft.

In 2005 a small regional till sampling program was conducted on the Coronation Gulf property however during its three week duration the two person sampling crew and their helicopter pilot stayed at Lupin Mine. The Eureka site was used as a fuel cache location during this time and at the conclusion of the season remaining fuel (please refer to current inventory below) was stored as per the Spill Contingency Plan for this project, and the rest of the campsite put in winterized/storage mode.

From 2006 to 2008 there were no exploration activities conducted by Stornoway in the area and the site remained in storage mode. The site was briefly visited in September of 2008 while abandonment and restoration activities were being conducted on the neighboring "Jubilee" camp and again in July of 2009 when a Stornoway representative was in the area.

At the time of the 2009 visit there were eight full drums of diesel, two full drums of jet fuel, and four empty drums of jet fuel at the site. All drums were found to be in good condition and free from any visible signs of leakage. Please see Appendix "C" for photographs of the site taken during the visit in July of 2009.

A full history of the site can be found in the Final Land Use Plan submitted for the original land use license under which authority the Eureka camp was established was submitted to INAC on June 23, 2009. A copy can be made available to accompany this application upon request.

CAMP LOCATION

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

Please see Appendix "B" for a figure showing land use area and Appendix "C" for photographs of the Eureka camp.

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 camp location was chosen on the basis of its central position in relation to the exploration area and it's proximity to a suitable domestic water source. It is accessible by both ski and float equipped aircraft and has a previously utilized, marked landing strip suitable for a Twin Otter to land on tundra tires. For site history please see answer to question 8.

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

☑	Crown Lands	Permit Number (s)/Expiry Date:	**Application Submitted**
☐	Commissioners Lands	Permit Number (s)/Expiry Date:	**N/A**
☐	Inuit Owned Lands	Permit Number (s)/Expiry Date:	**N/A**

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

From Camp Location to :

Kugluktuk – 110 km
Yellowknife – 500 km

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

As this project is not located within close proximity to any communities and is in the early grass roots stage there has not been any consultation conducted to date.

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?

No impact on traditional water use areas or local fish and wildlife habitats is anticipated.

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
- ☐ 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?

All land based drill cuttings are pumped to a sump which is either a natural depression or a dyke that is temporarily deployed , both of which trap the cuttings and allow the water to drain naturally.

20. Describe what will be done with drill water?

Drill water will be re-circulated, but some may be lost in the rock face. The drill will be accompanied by a "Poly Drill" or similar filtration system to treat return water where applicable.

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.

Polydrill 550 and if required, calcium chloride may be used. All drilling additives to be used are non-toxic, and biodegradable, and will be stored in a plywood floored tent. The plywood flooring will be lined with plastic and the plastic liner then topped with enviromats to absorb any potential spillage.

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

N/A

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.

Please see the attached Spill Contingency Plan for the Coronation Gulf Project.

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

One large spill kit and an ample supply of absorbent mats will be located within the camp perimeter.

In addition, at least one empty fuel drum will be located at each fuel cache in the event of damaged or leaking drums. Extra absorbent pads will be kept with the helicopter, drill and any area where re-fuelling, transferring and/or handling is done.

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

Please see the attached Spill Contingency Plan for full details of the types, quantities, and method of storage for fuels and chemicals at both the camp facility and the drill shack. MSDS for all fuel to be used form Appendix III of the Spill Contingency Plan for the Coronation Gulf Project.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

The camp/domestic water source will be the unnamed lake to the west of the camp location.

Water for drilling activities will be drawn from lakes or ponds proximal to chosen drill sites.

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

☑ Domestic Use: **10 cubic metres/day** Water Source: **Unamed Lake Proximal to Camp Location**

☑ Drilling: **50 cubic metres/day** Water Source: **Lakes/Ponds Proximal to Drill Site Locations**

☐ 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:

A submersible pump with filtered intake to prevent the entrapment of fish will be used for both the domestic and drilling water supply.

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

Drinking water will not be monitored.

30. Will drinking water be treated? How?

Not applicable.

31. Will water be stored on site?

Yes, water for domestic purposes will be stored at the camp location (approx. 150-gallon tanks).

WASTE TREATMENT AND DISPOSAL

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

☑ Camp Sewage (blackwater)

There will be one sewage sump on the perimeter of the camp which will be backfilled/recontoured as per the Abandonment and Restoration Plan for this project.

☑ Camp Greywater –

There will be two greywater sumps (one behind the kitchen tent and one behind the dry tent) that will be backfilled and/or recontoured as per the Abandonment and Restoration Plan for this project.

☐ Solid Waste

☑ Bulky Items/Scrap Metal

Any and all scrap and garbage will be backhauled and disposed of in an authorized facility.

☑ Waste Oil/Hazardous Waste –

Minimal amounts of waste oil will be backhauled to Yellowknife for proper disposal.

☑ Empty Barrels/Fuel Drums

Fuel drums will be returned to Yellowknife for proper treatment and disposal.

☐ Other:

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

No incinerator will be on site.

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

All domestic waste (both combustible and non-combustible) will be backhauled to Yellowknife on a regular basis for disposal.

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

Sumps for drill cuttings will be located at least 30 metres from any high water mark.

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

No leachate is anticipated. Monitoring not applicable.

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?

The water supply and waste disposal methods described in this application are typical of remote exploration camps in this climate.

ABANDONMENT AND RESTORATION

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

All drill sites will be restored as closely as possible to prior conditions. Absorbent pads/mats will be used during fuel transfer, and situated under the drill rig at strategic sites.

Diamond drilling cuttings which are fine inert silt are the only by product of drilling. Cutting additives, if used, will be biodegradable to minimize their environmental impact. The drill will be accompanied by a "Poly Drill" or similar filtration system to treat return water where applicable. The drill rig is helicopter moved and supported, thus there will be no clearing or leveling of drill sites, and minimal on site fuel. Upon completion of all drill holes, casings are removed or cut-off at ground level and all materials are removed from the drill site.

All scrap material, fuel drums and equipment will be returned to Yellowknife for proper disposal.

Please see the attached Abandonment and Restoration Plan for the Coronation Gulf Project for more detailed information.

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: _____

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