P.O. Box 119
Gjoa Haven, NT X0E 1J0
Tel: (867) 360-6338
Fax: (867) 360-6369

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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI

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WATER LICENCE APPLICATION FORM

NUNAVUT WATER BOARD
APR 18 2000
PUBLIC REGISTRY

Application for: (check one)
☒ New ☐ Amendment ☐ Renewal ☐ Assignment

LICENCE NO: (for NWB use only) NWB2ELL

1. NAME AND MAILING ADDRESS OF APPLICANT/LICENSEE
Cominco Ltd., Exploration
400 - 1066 West Hastings St.
Vancouver, B.C., V6E 3X1
Att: Michael H. Gunning
Phone: 604-685-3057
Fax: 604-685-3069
e-mail: mhgun@attglobal.net

2. ADDRESS OF CORPORATE OFFICE IN CANADA (if applicable)
Cominco Ltd.
500-200 Burrard St.
Vancouver, B.C., V6C 3L7
Phone: 604-682-0611
Fax: 604-844-2516
e-mail:

3. LOCATION OF UNDERTAKING (describe and attach a topographical map, indicating the main components of the undertaking) Northeastern Ellesmere Island.
Contiguous, northeast-southwest trending block of prospecting permits on Judge Daly Promontory east of Archer Fiord. A temporary, ten-man tent camp will be established at Carl Ritter Bay (co-ordinates below).
Latitude: 80°57' Longitude: 67°42' NTS Map No. 120 B Scale 1:250,000

4. DESCRIPTION OF UNDERTAKING (attach plans and drawings)
Six week, reconnaissance surface mineral exploration program. Temporary tent base camp, 10-man, with helicopter-supported daily foot traverses by four two-man teams of geologists and prospectors. Geological mapping, rock sampling, prospecting and stream silt sampling will be done. Camp at temp. air strip established by Geological Survey in 1998.

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

☐ Industrial
☐ **Mine Development**
☐ **Advanced Exploration**
☐ **Exploratory Drilling**
☐ **Remote/Tourism Camps**
☐ **Municipal**
☐ Power
☒ Other (describe): Reconnaissance Exploration

6. **WATER USE**

- [x] To obtain water
- [ ] To modify the bed or bank of a watercourse
- [ ] To alter the flow of, or store, water
- [ ] To cross a watercourse
- [ ] To divert a watercourse
- [ ] Flood control
- [ ] Other (describe):_____

→ general camp use, ten-man, 4-6 weeks

7. **QUANTITY OF WATER INVOLVED** (litres per second, litres per day or cubic metres per year, including both quantity to be used and quality to be returned to source)

Variable, say 200 gallon/day → cooking, dry facility

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

- [ ] Sewage
- [ ] Solid Waste
- [ ] Hazardous
- [ ] Bulky Items/Scrap Metal
- [ ] Waste oil
- [ ] Greywater
- [ ] Sludges
- [x] Other (describe) Brown water from kitchen and dry sinks → small sump collection

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

See attached letter.

Land Use Permit

DIAND	[x] 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.)

NIRB Screening [ ] Yes [ ] No If no, date expected _____

None Regional foot traverses will have no impact. Temporary tent camp will be completely demobilized at end of program.

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

Helicopter Operation

Nunasi Helicopters Inc.
#9 Yellowknife Airport
Yellowknife, NT, X1A 3T2

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

Ivory gull status confirmed with Canadian Wildlife Service, Yellowknife → n/a

13. **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 _____

Inuktitut/English Summary of Project* ☒ Yes ☐ No If no, date expected _____

Application fee $30.00 (c/o of Receiver General for Canada) ☒ Yes ☐ No If no, date expected _____

14. **PROPOSED TIME SCHEDULE**

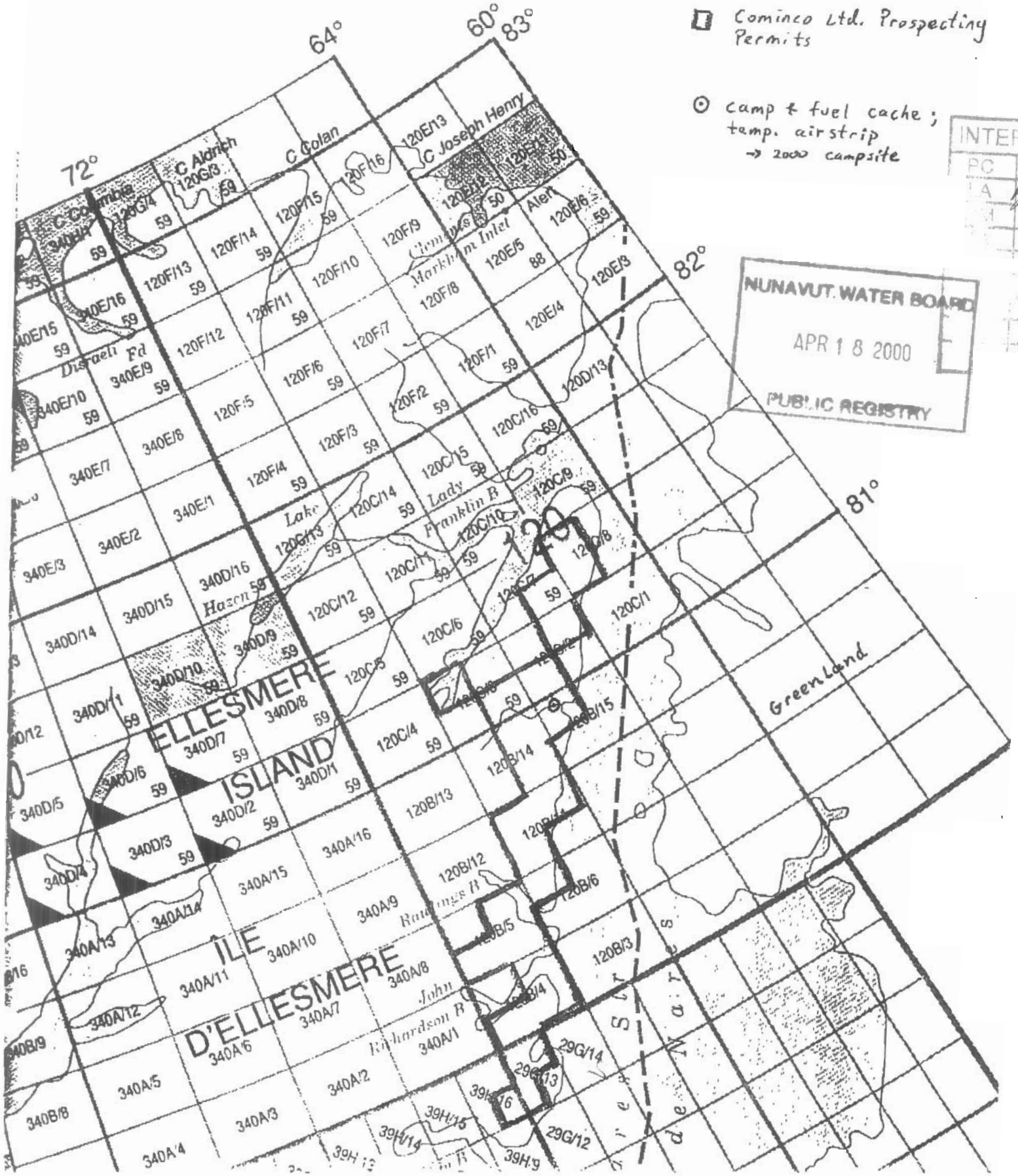
☐ Annual (or) ☐ Multi Year

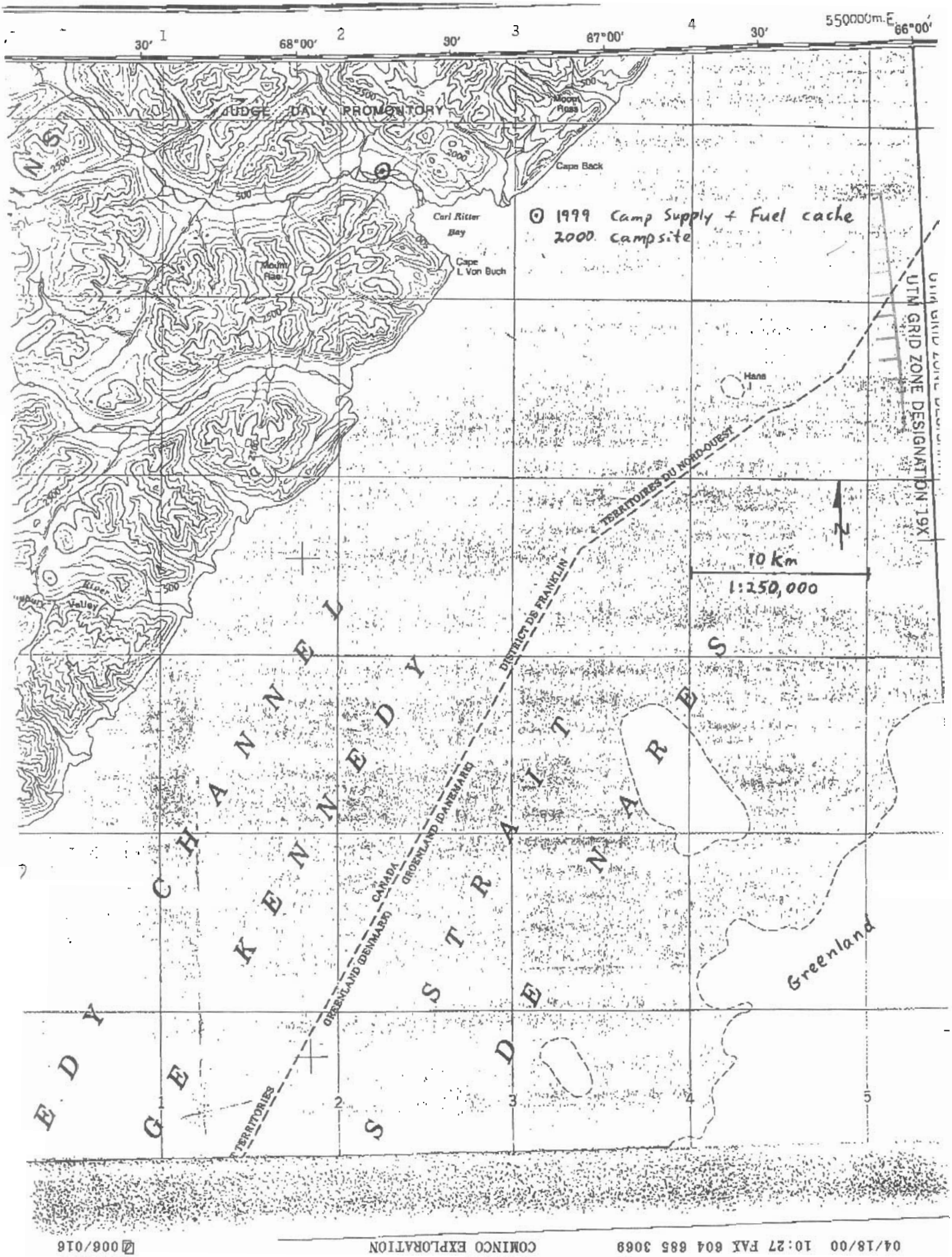
Start Date: June 15/2000 Completion Date: July 30/2000

Michael H. Gunning	Geologist		12-APR-00
Name (Print)	**Title (Print)**	**Signature**	**Date**

For Nunavut Water Board use only			
APPLICATION FEE	**Amount: $**_____	**Receipt No.:**_____	
WATER USE DEPOSIT	**Amount: $**_____	**Receipt No.:**_____	

* circulated to Grise Fiord hamlet officials, 13-APR-2000.





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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: Cominco Ltd., Exploration **Licence No:** NWB2ELL
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: _____ Tel: _____ Fax: _____

2. Project Manager: Michael Gunning Tel: 604-844-2565 Fax: 604-685-3069

3. Does the applicant hold the necessary property rights? YES
Twenty four contiguous DIAND Prospecting Permits (see attached)

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
   - ○ Annual 4-6 weeks: June 15 - July 30, 2000
   - ○ Multi Year:
     If Multi-Year indicate proposed schedule of on site activities
     Start: _____ Completion: _____

CAMP CLASSIFICATION

6. Type of Camp
   - ○ Mobile (self-propelled)
   - ☒ Temporary
   - ○ Seasonally Occupied: _____
   - ○ Permanent
   - ○ Other: _____

7. What is the design population of the camp and the maximum population expected on site at one time? What will be the fluctuations in personnel?
Eleven man camp. No fluctuations planned for or expected.

8. Provide history of the site if it has been used in the past.
Geological research party tent camp site established in 1988 by Geological Survey of Canada, including temporary air strip suitable for twin otter.

CAMP LOCATION

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

Camp on large delta of unnamed river which drains into Carl Ritter Bay on a northeast coast of Ellesmere Island. Camp + airstrip approx. 5 km inland from coast, on raised floodplain terrace.

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.

Established camp site of Geological Survey; flat, open, inland, good air access, available fresh water.

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

- ☒ Crown Lands — Permit Number (s)/Expiry Date: [illegible]; Feb. 01/2001
- ○ Commissioners Lands — Permit Number (s)/Expiry Date: _____
- ○ Inuit Owned Lands — Permit Number (s)/Expiry Date: _____

12. Closest Communities (distance in km):

Grise Fiord; approx. 600 km to southwest

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

YES, see attached project summary circulated to Grise Fiord Hamlet officials; Mayor, SAO, CLARC & HTA chairs

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

PURPOSE OF THE CAMP

15. ☒ Mining → Exploration
    ○ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.) (Omit questions # 16 to 22)
    ○ Other _____ (Omit questions # 16 to 22)

16. ○ 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:
    - ☒ Lead Zinc
    - ○ Diamond
    - ○ Gold
    - ○ Uranium
    - ○ Other: _____

DRILLING INFORMATION — N/A

18. Drilling Activities
    - ○ Land Based drilling
    - ○ Drilling on ice

19. Describe what will be done with drill cuttings?

20. Describe what will be done with drill water?

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.

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

SPILL CONTINGENCY PLANNING

23. Does the proponent have a spill contingency plan in place? Please include for review.
    Yes. See attached.

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

One . Camp.

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

Diesel : 10 45 gallon drums
Jet B : 80 45 gallon drums } isolated cache beside airstrip
Propane: 10 100 lb tanks

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

Camp on raised delta terrace. Water for general camp use from nearby side-channel of river

27. Estimated demand (in L/day . person):

- ☒ Domestic Use: ≈200 gal/day (100 L/day • person) Water Source: local side channel
- ○ Drilling Units: _____ Water Source: _____
- ○ Other: _____ Water Source: _____

28. Describe water intake for camp operations? Is the water intake equipped with a mesh screen to prevent entrapment of fish? Describe:

Water hauling by hand.

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

Visual - active stream source, with clean pebble/silt bed, no animal effluence

30. Will drinking water be treated? How?

No

31. Will water be stored on site?

No

WASTE TREATMENT AND DISPOSAL

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

- ○ Camp Sewage (blackwater)

N/A

- ○ Camp Greywater

sump

- ○ Solid Waste

burn in 45 gallon drum; return ash to Resolute Bay for disposal

- ○ Bulky Items/Scrap Metal

complete camp demobilization to Resolute Bay at termination of program

- ○ Waste Oil/Hazardous Waste

N/A

- ○ Empty Barrels/Fuel Drums

return to Eureka for flattening

- ○ Other: _____

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

ventilated 45 gallon drum w propane torch: camp garbage, human waste

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

complete camp demobilization to Resolute Bay at termination of program

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

small, 3m x 3m x ½ m deep sump for very low volume kitchen grey water; gravel terrace ground within 25m of kitchen tent

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

N/A

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?

N/A

ABANDONMENT AND RESTORATION

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

Complete camp demobilization to Resolute Bay at termination of 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:

N/A

REGULATORY INFORMATION

40. Do you have a copy of

- ☑ Article 13 - Nunavut Land Claims Agreement
- ☑ NWB - Water Licensing in Nunavut - Interim Procedures and Information Guide for Applicants
- ☑ NWB - Interim Rules of Practice and Procedure for Public Hearings
- ☑ NWTWB - Guidelines for the Discharge of Treated Municipal Wastewater in the NWT
- ☑ NWTWB - Guidelines for Contingency Planning
- ☑ DFO - Freshwater Intake End of Pipe Fish Screen Guideline
- ☑ Fisheries Act - s.35
- ☑ RWED - Environment Protection- Spill Contingency Regulations
- ☑ Canadian Drinking Water Quality Guidelines
- ☑ Public Health Act Camp Sanitation Regulations
- ☑ Public Health Act Water Supply Regulations
- ☑ Territorial Land Use Act and Regulations

You should consult the above document, guidelines, and legislation for compliance with existing regulatory requirements.

EMERGENCY SPILL RESPONSE PLAN

1. Identify nature and source of spill - fuel drums, hydraulic hose etc.

2. Take immediate action to control the spill at source - shut off engine, seal leaking drum with Plug 'n Dyke etc.

3. Notify on-site supervising geologist.

4. Open up spill response kit and use appropriate method to clean up spilled material.

5. On-site Supervising Geologist will go to the spill site and ensure appropriate and complete clean-up of spilled material.

6. Dispose of waste material.

7. Each spill to be documented by on-site Supervising Geologist.

Mike Gunning
Geologist
Canadian Exploration