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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: STARFIELD RESOURCES INC. **Licence No:** _____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

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

2. Project Manager: Robert Krause Tel: 604-608-0400 Fax: 604-608-0344

3. Does the applicant hold the necessary property rights?

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

5. Duration of the Project
   - ○ Annual
   - ⊗ Multi Year:

   If Multi-Year indicate proposed schedule of on site activities
   Start: March 15,1999 Completion: May 15, 1999
   June, 1999 September 30, 1999

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? Camp design is for 40 persons; Use will be 11-15 personnel

8. Provide history of the site if it has been used in the past.
   Ferguson Lake Lodge (camp) is on a long term lease from KIA

CAMP LOCATION

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

Located on island - Ferguson Lake Lodge

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.

Camp was chosen due to its proximity to work areas and is permanent to lessen environmental impact by utilizing existing camp

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: _____

Long term lease with KIA

12. Closest Communities (distance in km):

Rankin Inlet - 220 km

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

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
○ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.) (Omit questions # 16 to 21)
○ Other _____ (Omit questions # 16 to 22)

16. ○ Preliminary site visit
⊗ Prospecting (Summer)

- ☒ 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: Nickel, copper, platinum, paladium, cobalt

DRILLING INFORMATION

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

19. Describe what will be done with drill cuttings?
Drill cuttings will be collected in filters wiht return water

20. Describe what will be done with drill water?
Drill water will be filtered and cleaned and then returned to the land

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.
No-shipped to analytical laboratory

SPILL CONTINGENCY PLANNING

23. Does the proponent have a spill contingency plan in place? Please include for review.
At each point of fuel storage or transfer matasorb will be utilized and located at each location.

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

matasorb will be located at the bulk storage with the diamond; gas will be transfered at bulk storage

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

45 gal drums located in bulk storage; 200 drums

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

Ferguson Lake

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

⊗	Domestic Use:	Camp	Water Source:	Ferguson Lake
⊗	Drilling Units:	36 L/minute	Water Source:	Ferguson Lake
○	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:

Yes - mesh screen to prevent entrappment of fish on a suction pump

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

NO

30. Will drinking water be treated? How?

NO

31. Will water be stored on site?

A 500 gal (2000 litre) storage indoors for cooking and showering

WASTE TREATMENT AND DISPOSAL

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

- ⊗ Camp Sewage (blackwater)
  A propane toilet will be utilized to burn to ash all blackwater
- ⊗ Camp Greywater
  As per Ferguson Lake Lodge septic systme
- ⊗ Solid Waste
  Burnable products will be burned; non burnable transported to Rankin Inlet.
- ○ Bulky Items/Scrap Metal
- ⊗ Waste Oil/Hazardous Waste
  Will be burned in incinerator or if not appropriate for burning, transported to Rankin Inlet
- ⊗ Empty Barrels/Fuel Drums
  Transported back to Rankin Inlet
- ○ Other: _____

33. Please describe incineration system if used on site. What types of wastes will be incinerated?
  1000 gal tank, chimney spark arrested, clean out door

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

35. Describe location (relative to water bodies and camp facilities) dimensions and volume, and freeboard for sumps (if applicable).
  Septic tank summer; winter pond leaching field 1000 feet from nearest water

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

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?

Yes

ABANDONMENT AND RESTORATION

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

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:

No baseline studies will be started this summer

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.

KIVALLIQ INUIT ASSOCIATION

APPLICATION FOR ACCESS TO INUIT OWNED LAND

Office use only

Category	Application No:	Accepted By:	Date Accepted:

To be completed by all applicants

1. Applicant's name and mailing address (Full name, no initials or abbreviations)

STARFIELD RESOURCES INC.
420 - 625 Howe Street
Vancouver, BC
V6C 2T6

Fax no 604-608-0344

Telephone no. 604-608-0400

2. Head Office address

Fax no.

Telephone no.

3. Field supervisor and address if different from above

Robert G. Krause (address same as above)

Telephone no. same as above

4. Other personnel list (Subcontractors or contractors to be used)

Midwest Diamond Drilling

Total no. of personnel: Min 11 Max 15 No. of person days: 7 weeks @ 15 men 735

5. Location of activities by map coordinates. Attach **ORIGINAL** maps and sketches.

MAX Lat Deg 63° 00'	MIN Lat Min 62°49.5N	MIN Lat Deg	MAX Lat Min
MAX Long Deg 97° 04'W	MIN Long Min 96°45'W	MIN Long Deg	MAX Long Min

Map Sheet No: 65I/15w; 65I/14E Inuit Land Parcel No:

Coordinate of camp (if applicable) Lat. ° ' " Long. ° ' "

FERGUSON LAKE LODGE

6. Periods of operation including periods of seasonal shut down and periods for restoration.

Mid March to May 15
June to September 30

7. Period of access required (up to one or two years for licenses, depending on license level, up to five years for residential/recreational leases and level I and II commercial leases, and up to forty years for level III commercial leases)	Start date	Completion Date
	March 15/99	Ongoing

8. Other rights, licenses, permits or leases related to this application. Provide proof of rights or indicate if in the process of applying for rights.

- ☐ NTI Subsurface Right
- ☐ DIAND Subsurface Right
- ☒ NWB Water License

In Process

- ☐ NRI Research License
- ☐ RWED Tourism License
- ☐ Explosives Permit

- ☐ CWS Permit
- ☒ Other – Please Specify

Land use permit
DIAND for drilling
from ICE

9. TYPE OF LAND USE ACTIVITY

Check off the appropriate land use activities.

Mining/Oil & Gas
- ☒ staking and prospecting
- ☒ exploration (geophys-grd/air)
- ☒ drilling (diamond/ice, etc.)
- ☐ bulk sampling
- ☐ mine (open pit, undergrd, etc.)
- ☒ bulk fuel storage
- ☐ other: _____

Construction:
- ☐ camp
- ☐ building
- ☐ winter road
- ☐ all-season road
- ☐ quarrying
- ☐ other: _____

Tourism:
- ☐ tourism facility
- ☐ outfitting
- ☐ other: _____

Municipality:
- ☐ bulk storage of fuel
- ☐ residential building
- ☐ commercial building
- ☐ other: _____

Research:
- ☐ wildlife/fish/birds/marine
- ☐ survey (grd/aerial/collars)
- ☐ collection of species
- ☐ research station
- ☐ other: _____

Other:
- ☐ commercial harvest
- ☐ recreational camp
- ☐ _____
- ☐ _____

10. On a separate page, provide a NON-TECHNICAL project summary. This should include a non-technical description of the project proposal, no more than 300 words, in English and Inuktituk (Inuinaktun, in the West Kitikmeot). The project description should outline the project activities and their necessity, method of transportation, any structures that will be erected, expected duration of activity and alternatives considered. If the proposed activity fits into any long-term developments, please describe the projected outcome of the development for the area and its timeline.

11. **Attach a detailed project description as outlined in APPENDIX A.**

12. Application Fees:

- ☒ Land use license I
  - Inuit - $0
  - Non-Inuit $100
- ☒ Land use license II $250
- ☒ Land use license III $500
- ☐ Residential/Recreational Lease — Inuit - $0, Non-Inuit - $250
- ☐ Exemption Certificate $0
- ☐ Commercial Lease I $1000
- ☐ Commercial Lease II $2500
- ☐ Commercial Lease III $5000

LicenceI - $0.00
Licence II $0.00
Licence III $500.00
ha's $1500.00
$2000.00
$ 140.00
$2140.00

Land use fees: # of hectares used @ $50.00/hectare = $ 30 hectares @ $50/ha 1500.00

Note: The land use fee is for the amount of land used on an annual basis.

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13. a) The Applicant requests a Certificate of Exemption ☐

OR

b) The Applicant agrees to be bound by terms and conditions to be attached to the Inuit Land Use License or Lease. ☐

Sign name in full: Robert G. Kraus

Signature

February 5 1979
Date

APPENDIX A

Discussion on the following points:

5) During the winter exploration which will include surface geophysics and diamond drilling the equipment used will be ski-doos to transport people from the camp to their work locations and back. This will include the people putting in the grid, the geophysics crew and the diamond drill crew.

The diamond drill utilized for this drill program during winter will be a Boyles 17a with a weight of 1.5 tons (3000 lb.) wand will be transported from drill site to drill site by skidding the diamond drill across the frozen lakes and tundra by Muskeg buggy that has a ground pressure of 1.75 lb/sq. inch. Water will be supplied to the diamond drill by Boyle BB25 diesel pumps.

6) Diesel fuel will be used to heat the camp (Ferguson Lake Lodge), power the diamond drill and pumps. The ski-doos will use gasoline. Heating of the water for the diamond drill will be by propane as will the food preparation. Power for the camp is provided by a diesel generator set located at Ferguson Lake Lodge.

All fuel will arrive on site by cat train which will be permitted by Keith Sharp. This fuel will consist of approximately 160 barrels of diesel fuel, 20 barrels of gasoline and up to 40 barrels of jet-B helicopter fuel to be utilized during the summer drill program.

7) All fuel transfers will be by hand pump the total area under the fuel transfer location will be underlayed by "Matasorb" an industrial matting that only absorbs hydrocarbons. In case of a spill there will be pelletized industrial absorbatives located.

8) All garbage produced during the exploration program will be burned in the incinerator located at the Ferguson Lake camp. All grey produced at the Ferguson Lake camps will operate under the existing permitted camp.

9) Transportation to and from camp to work are3s will be by ski-doo for all personnel. The diamond drill will be moved by muskeg buggy. All bulk supplies will be mobbed into Ferguson Lake by cat train which will be permitted by Keith Sharp.

10) Discussions with people operating out of Rankin area on the components of the environment within the project have reported to me two areas of concern. Located approximately 10 km to the east of Ferguson Lake is a caribou calfing area, also at the southern portion of Ferguson Lake down by Scotty Rapids is a caribou crossing.

11) During the winter operation there will be little to no environmental impact. During the summer exploration program all personnel will be transported by helicopter; during the summer a diamond drilling program will be conducted in which all drill moves will be performed by helicopter lowering the impact to the area as much as possible.

14) During the winter exploration program a minimum of two people will be hired out of Rankin Inlet to assist during our winter program.

Based on the results of the winter program a program will be designed for the summr utilizing local labour as much as possible. All supplies for support will originate out of Rankin Inlet thereby benefiting the community as a whole.