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Tel: (867) 360-6338 NUNAVUT WATER BOARD
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KATIMAYINGI

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: *Matrix Aviation Solutions Inc.* **Licence No:** _____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: _____ Tel: _____ Fax: _____ E-mail: _____

2. Project Manager: *Martin Knutson* Tel: *(867) 766-4952* Fax: *(867) 766-3374*
E-mail: *mknutson@matrixhelicopters.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.

Matrix Aviation Solutions Inc. will be constructing and operating the proposed exploration camp for use as a base for mineral exploration activities performed by Coronation Minerals who hold a drilling permit for the property. It is possible the camp may be used to support other exploration operations in the future.

5. Duration of the Project

[ ] Annual
[X] Multi Year:
If Multi-Year indicate proposed schedule of on site activities
Start: *June 2005* Completion: *July 2007*

CAMP CLASSIFICATION

6. Type of Camp

[ ] Mobile (self-propelled)
[ ] Temporary
[X] Seasonally Occupied: *March 15 to October 15 of each year*
[ ] Permanent
[ ] Other: _____

What are the design population of the camp and the maximum population expected on site at one time? What will be the fluctuations in personnel?

The exploration camp will be designed for 24 people with a maximum of 24 people expected on site at one time. The average population at the camp at one time is expected to be 10 people.

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

The site was previously occupied by an exploration camp that was built in the 1960's. The camp was a base for copper exploration and has since been abandoned. The state of the site is unknown although it is expected that considerable clean-up of infrastructure and debris from past operations will need to be completed before the proposed camp can be constructed. It is anticipated that local people from the region will be hired to collect the debris and help construct the camp. The existing airstrip allows access to the site via aircraft.

There is an extensive existing trail system. All Terrain Vehicle (ATV) use will only be permitted on existing, pre-approved trails. Approved trails will be marked.

When the camp was to be installed this year it was discovered that Hope Lake, the proposed water Supply was contaminated with fiberglass insulation. This application is to amend the existing license NWB6HLC0406 – Type –B. The amendment will be to move the camp to a location next to the air strip (approximately 1.8 km to the south east and to have a new water intake on the Un-named Creek that runs near the camp (Figure 3).

CAMP LOCATION

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

The amended camp site is shown in Figures 1 to 3. The proposed camp location is approximately 60 km southwest of Kugluktuk, Nunavut and approximately 2 km northwest of the Hope Lake Airstrip. The camp will be located on a flat area at coordinates 67°26.088 N, 116°24.85 W, *along side the airstrip.*

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 new camp location was selected during a site visit in the fall of 2004. Mr. Jack Kaniak, Lands Manager of the Kitikmeot Inuit Association (KIA) has been contacted regarding the new camp location and construction.

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

[√] Crown Lands Permit Number (s)/Expiry Date: NTS 86N

[ ] Commissioners Lands Permit Number (s)/Expiry Date: _____

[√] Inuit Owned Lands Permit Number (s)/Expiry Date: CO-54/86N

12. Closest Communities (distance in km):

Kugluktuk is the closest community at approximately 60 km northeast of the proposed camp location. Refer to Figure 1.

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

Jack Kaniak of the KIA, has been notified and consulted regarding the new camp location.

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?

The proposed camp will likely have no impact on water use areas used by the nearby communities as the nearest community is located approximately 60 km away. Potential impacts to local fish and wildlife are expected to be minimal as there are no planned activities on site likely to result in disturbance to the land or discharge of deleterious materials to any water body. The camp will be constructed in an area that was previously occupied by an exploration camp and latrine pits and grey water discharge will be located at least 30 meters away from all water bodies. A spill contingency plan will also be in place at the camp.

PURPOSE OF THE CAMP

15.
- ○ Mining
- ○ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.) (Omit questions # 16 to 21)
- ○Other *Base for Mineral Exploration* (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

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. The Spill Contingency Plan is attached.

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

Two spill kits will be located at the camp and two spill kits will be located at the fuel cache located at the airstrip.

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

A maximum of 50, 205-litre barrels each of Jet B fuel and diesel fuel (P50) and 10, 205-litre barrels of gasoline will be stored at the fuel cache located at the airport (Figure 4). Other chemicals anticipated to be stored at the site will include oils for the operation of ATVs and small quantities of cleaning solvents.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

The water source is an unnamed lake located approximately 50 meters north of the proposed camp location. Refer to Figures 2 and 3.

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

- Domestic Use: *50 L/day/person* Water Source: *Unnamed Lake*
- Drilling Units: *Not applicable* 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 will be pumped from the Un-named Creek to the camp using a gasoline water pump and associated hose. The intake will be equipped with a mesh screen to prevent entrapment of fish.

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

Drinking water will be tested for parameters outlined in the Canadian Drinking Water Criteria. Water quality will be sampled on a monthly basis while the camp is in operation.

30. Will drinking water be treated? How?

Drinking water will be treated with charcoal filters and chlorination.

31. Will water be stored on site?

Water will be stored in an aboveground water storage tank located at the camp.

WASTE TREATMENT AND DISPOSAL

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

- ○ Camp Sewage (blackwater)

Latrine Pits located approximately 50 m outside of camp and approximately 50 m from any waterbody.

- ○ Camp Greywater

Discharge to ground at least 30 meters from any waterbody.

- ○ Solid Waste

Burnable solid waste will be incinerated in an oil-fired incinerator.

- ○ Bulky Items/Scrap Metal

Scrap metal will be transported to Yellowknife.

- ○ Waste Oil/Hazardous Waste

Waste oil and hazardous waste will be transported to Yellowknife and disposed at an approved facility.

- ○ Empty Barrels/Fuel Drums

Empty barrels and fuel drums will be transported to Yellowknife and disposed at an approved facility.

- ○ Other:

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

Oil-fired incinerator. Food waste and untreated burnable waste will be incinerated on site.

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

All non-combustible waste will be transported to Yellowknife to be disposed of at an approved facility. Waste will be transported by aircraft back-hauls.

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

Not applicable

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

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?

Yes. The proposed water supply and waste treatment/disposal methods are typical of small exploration camps in the north.

ABANDONMENT AND RESTORATION

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

Restoration plans include the removal of all tents, equipment, fuel drums and other infrastructure associated with the exploration camp. The permit area will be restored as nearly as possible to the condition it was prior to the installation of the exploration camp.

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 known baseline information has been collected at this site.

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.