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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applicant: ___Twin Mining Corp._____Licence No: NWB2JAC_____
(For NWB Use Only)

ADMINISTRATIVE INFORMATION

1. Environment Manager: ____-_____Tel: ____-_____ Fax: _____-_____E-mail:___-_____

2. Project Manager: _**Richard Roy** Tel: _**819 874-4446**____Fax: _**819 874-4446**
   Email:_**nordquest@cablevision.qc.ca**_____

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)? NO
   If so, please provide letter of authorization.

5. Duration of the Project
   [**x**] Annual
   [ ] Multi Year:
   If Multi-Year indicate proposed schedule of on site activities
   Start: _____ Completion:_____

CAMP CLASSIFICATION

6. Type of Camp
   [ ] Mobile (self-propelled)
   [**x**] Temporary
   [ ] Seasonally Occupied: _____
   [ ] Permanent
   [ ] Other:_____

7. 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? **From 4 to 16, average of 12**

8. Provide history of the site if it has been used in the past. **The site has been worked in Summer 2000 and in spring 2001. A one-tent camp was erected for emergency purposes principally. All equipment was removed afterwards.**

CAMP LOCATION

9. Please describe proposed camp location in relation to biogeographical and geomorphological features, and water bodies. **The camp is to be located about 5 kilometers north of the old emergency camp site. It is 400 meters south of the Jackson River and 5 kilometers west of the east coast of Brodeur Peninsula. The site is approximately 100 meters above sea level on a barren plateau above the river. No wildlife was observed in the area during the past programs. The land is barren of vegetation apart from minor lichen.**

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 site was selected as it provides access to fresh water and also provides ground access (ATV) to the work site in order to reduce helicopter use (see map).**

11. Is the camp or any aspect of the project located on:
    [**X**] Crown Lands Permit Number (s)/Expiry Date: **N2000C0048**_____
    [ ] Commissioners Lands Permit Number (s)/Expiry Date: _____
    [ ] Inuit Owned Lands Permit Number (s)/Expiry Date: _____

12. Closest Communities (distance in km): **Arctic Bay (100 kilometers to the east)**

13. Has the proponent notified and consulted the nearby communities and potentially interested parties about the proposed work? **YES via a town meeting and discussions with the Wildlife Officer and the Hunters and Trappers Association.**

14. Will the project have impacts on traditional water use areas used by the nearby communities? **NO**. 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
    X Prospecting
    X Geological mapping
    ○ Geophysical survey
    X Diamond drilling
    ○ Reverse circulation drilling

- ○ Evaluation Drilling/Bulk Sampling (also complete separate questionnaire)
- ○ Other: _____

17. Type of deposit:

- ○ Lead Zinc
- **x** Diamond
- ○ Gold
- ○ Uranium
- ○ Other: _____

DRILLING INFORMATION

18. Drilling Activities

- **x** Land Based drilling
- ○ Drilling on ice

19. Describe what will be done with drill cuttings? **Sedimentation in a basin prior to percolation**

20. Describe what will be done with drill water? **Same as above**

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. **No additives apart from drill salts. These are used to keep the hole from freezing.**

22. Will any core testing be done on site? Describe. **NO**

SPILL CONTINGENCY PLANNING

23. Does the proponent have a spill contingency plan in place? Please include for review. **No potential spills can affect any significant area**

24. How many spill kits will be on site and where will they be located? **Any possible oil spills (less than a few litres) will be removed with oil "diapers" which absorbs the oil from the surface.**

25. Please describe the types, quantities, and method of storage of fuel and chemicals on site, and provide MSDS sheets. **No chemicals on site apart from drill salts as described above. Fuel is stored in sealed 45 gallon barrels. Barrels are removed after use.**

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources. **See plan. Source is 400 meters north of the camp. It is taken from the Jackson River which is on the east coast of Brodeur Peninsula.**

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

- ○ Domestic Use: **20** Water Source: **River**
- ○ Drilling Units: **10,000 l/day** Water Source: **River to basin – re-use of water**

The drill water will be recycled and re-used to reduce consumption and reduce input of salts.

- ○ 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: **Pumped in a reservoir, pump intake surrounded by a screen**

29. Will drinking water quality be monitored? What parameters will be analyzed and at what frequency? **NO, it will be boiled for consumption**

30. Will drinking water be treated? How? **BOILED**

31. Will water be stored on site? **Yes, plastic reservoir (approx 200 gallons)**

WASTE TREATMENT AND DISPOSAL

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

- ○ Camp Sewage (blackwater)

_____**In a surface hole, filled with dirt after completed**_____

- ○ Camp Greywater

_____**In a sedimetation basin then through percolation**_____

- ○ Solid Waste

_____**Transported to Nanisivik Dump**_____

- ○ Bulky Items/Scrap Metal

_____**None Expected**_____

- ○ Waste Oil/Hazardous Waste

_____**Recovered and brought back** _____

- ○ Empty Barrels/Fuel Drums

_____**Recovered and brought back** _____

- ○ Other:

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

NONE apart from occasional wood and paper material

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

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

36. Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency? **NO**

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. Being temporary, no maintenance is necessary as all material is removed from site after completion of program**

ABANDONMENT AND RESTORATION

38. Provide a detailed description of progressive and final abandonment and restoration activities at the site. **No material will remain on site. The site will return to its original state.**

BASELINE DATA

39. Has or will any baseline information be collected as part of this project? Provide bibliography. **NO**
    - ○ 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. Do you have a copy of
    - ○ Article 13 - Nunavut Land Claims Agreement
    - **X** 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
- **X** Territorial Land Use Act and Regulations

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

Please send a copy of all above documents in order to ensure that we comply to all specific regulations

Thanks

Richard Roy for Twin Mining Corp.