





## SCREENING DECISION

Διεύθυνση, με 9/P.O. Box 2379 Cambridge Bay, NT / EKALUKTUTIAK, NUNATAMI KOE QCO • Διεύθυνση / Phone / HUYAYOTA: (867) 983-2593 • Διεύθυνση / Fax / FAX-KOT: (867) 983-2594

**Reasons for Decision:**

NIRB's decision is based on specific considerations that reflect the primary objectives of the Land Claims Agreement. Our considerations in making this decision included:

- the impact of drilling activities on the ecosystem;
- disposal of drill cuttings and waste water;
- impact to water quality, aquatic habitat and wildlife and fish populations from chemicals, drill waste, drill fluids and potential fuel spills;
- storage and disposal of chemicals, fuel, garbage, sewage, and gray water, and impact of these on the ecosystem;
- the impact of noise from drilling activities and their disturbance to wildlife and traditional users of area;
- the impact of campsite and equipment on terrain;
- the impact of exploration activities on archaeological sites or cultural landmarks in the area; and
- clean up/restoration of the camp site and drilling locations upon abandonment.

**Terms and Conditions:**

That the terms and conditions attached to this screening report will apply.

**Drill Sites**

1. The Licensee shall not conduct any land based drilling within thirty (30) metres of the normal high water mark of a water body.
2. The Licensee shall not use drilling muds or additives in connection with drill holes unless they are recirculated or contained such that they do not enter the water, or are certified to be non-toxic.
3. The Licensee shall ensure that any drill cuttings and waste water that cannot be re-circulated be disposed of in a properly constructed sump or an appropriate natural depression that does not drain into a waterbody. The Licensee shall ensure that drilling wastes do not enter any water body. The use of biodegradable, salt free drill additives is encouraged over non-biodegradable types.
4. The Licensee shall ensure that the release of total suspended solids in the receiving environment shall be in compliance with *Guidelines for Total Suspended Solids* contained in the *Canadian Council of Ministers for the Environment's (CCME) Canadian Water Quality Guidelines, Chapter 3 - Freshwater Aquatic Life* (i.e. 10mg/L for lakes with background level under 100mg/L, or 10% for those above 100mg/L).
5. The Licensee shall ensure that the sump/depression capacity is sufficient to accommodate the volume of waste water and any fines that are produced so that there will be no additional impacts.
6. The Licensee shall not locate any sump within thirty (30) metres of the normal high water mark of any water body.

7. The Licensee shall ensure that disturbance of vegetation from deposit of drill fluids/cuttings is restricted to the area of the sump and the ground prepared for revegetation upon abandonment.
8. The Licensee shall, where flowing water from bore holes is encountered, plug the bore hole in such a manner as to permanently prevent any further outflow of water. The occurrence shall be reported to the Nunavut Water Board and Land Use Inspector within 48 hours.

### **Water**

9. The Licensee shall ensure that all water intake hoses are equipped with a screen with an appropriate mesh size to ensure that there is no entrapment of fish. Refer to the *Freshwater Intake End-of Pipe Fish Screen Guideline* (DFO 1995).

### **Fuel and Chemical Storage**

10. The Licensee shall ensure that fuel storage containers are not located within thirty-one (31) metres of the ordinary high water mark of any body of water.
11. The Licensee shall ensure that any chemicals, fuels or wastes associated with the project do not spread to the surrounding lands or enter into any water body.
12. The Licensee shall take all reasonable precautions to prevent the possibility of migration of spilled petroleum fuel or chemicals over the ground surface.
13. The Licensee shall have one extra fuel storage container on site equal to, or greater than, the size of the largest fuel container.
14. The Licensee shall examine all fuel and chemical storage containers daily for leaks. All leaks should be prepared immediately.
15. The Licensee shall seal all container outlets except the outlet currently in use.
16. The Licensee shall mark all fuel containers with the Licensee's name.
17. The Licensee shall dispose of all combustible waste petroleum products by incineration and removal from the site.
18. The Licensee shall control all activities, including maintenance procedures and vehicular refueling, to prevent the entry of petroleum products, debris, slash, rubble or other deleterious substances into the water.
19. The Licensee shall have emergency response and spill contingency plans in place prior to the commencement of the operation.
20. The Licensee shall immediately report all spills of petroleum and hazardous chemicals to the twenty four (24) hour spill report line at (867) 920-8130.

## **Waste Disposal**

21. The Licensee shall not discharge or deposit any refuse substances or other waste materials in any body of water, or on the banks thereof, which will impair the quality of the waters of the natural environment.
22. The Licensee shall not locate any sumps or areas designated for waste disposal within thirty (30) metres of the ordinary high water mark of any body of water, unless otherwise authorized.
23. The Licensee shall construct a sump to contain all greywater discharged and shall ensure drainage is away from any waterbody.
24. The Licensee shall backfill and recontour all sumps to match the natural environment prior to the expiry date of the permit.
25. The Licensee shall incinerate all combustible and food wastes daily. It is recommended that the Licensee obtain plans for the 45 gal drum conversion kit for proper incineration.
26. The Licensee shall keep all garbage and debris in a covered metal container until disposed of.
27. The Licensee shall ensure that all wastes generated through the course of the operation are backhauled and disposed of in an approved dumpsite.
28. The Licensee shall not bury any wastes.
29. The Licensee shall deposit all scrap metal, discarded machinery and parts, barrels and kegs, at an approved disposal site. Approval will be required from the Municipalities.

## **Wildlife**

30. The Licensee shall ensure that there is no damage to wildlife habitat in conducting this operation.
31. The Licensee shall not feed wildlife.
32. The Licensee shall make every effort to prevent the unintentional harassment of caribou, muskox and nesting or molting waterfowl at all times. It is an offense under the Wildlife Act to harass wildlife.
33. The Licensee shall not conduct any activity associated with the land use operation during critical periods of wildlife cycles (e.g. caribou migration, calving or raptor nesting).
34. The Licensee shall abide by the Caribou Protection Measures for the Kaminuriak and Beverly Herds.
35. The Licensee shall immediately report problem wildlife to the Department of Sustainable Development (DSD) wildlife officers.
36. The Licensee shall ensure compliance with Section 36 of the Fisheries Act which requires that no person shall deposit or permit the deposit of a deleterious substance on any type in water frequented by fish or in any place under any conditions where the deleterious substance may enter such a water body.
37. The harmful alteration, disruption or destruction of fish habitat is prohibited under Section 35 of the Fisheries Act. No construction or disturbance of any stream/lake bed or banks of any definable watercourse is permitted unless authorized by DFO.
38. The Licensee shall not obstruct the movement of fish while conducting the land use operation.



**2. Authorizing Agencies**

Authorizing Agency(ies): Kivalliq I.A., Kitikmeot I.A., QIA, NWB, NWMB, DIAND, DFO, DOE, NRI, RWED, Other: \_\_\_\_\_

Authorizing Agency Contact Person: Rita Becker - NWB Gjoa Haven  
(office where project file is located, contact person, number)

Land Status: Inuit Owned \_\_\_\_\_ Crown ☒ Commissioner's \_\_\_\_\_ Marine Areas \_\_\_\_\_

Type of Application: water licence  
(e.g. water licence, land use permit, quarry permit, research permit, lease, reserve)

Type of Approval being sought: new  
(e.g. new, renewal, amendment, cancellation)

Other required approvals, permits or licences: \_\_\_\_\_  
(e.g. water licence, land use permit, quarry permit, lease, reserve)

Present Authorizations (active): LEASE FOR CAMP 76M/7-1-3  
(file number)

Previous Authorizations (inactive/expired): \_\_\_\_\_  
(file number)

**3. Project Location**

Kivalliq \_\_\_\_\_ Kitikmeot ☒ Baffin \_\_\_\_\_

Land Use Planning Region: West Kitikmeot  
(e.g. West Kitikmeot, North Baffin, South Baffin, Kivalliq)

Geographic Place Name: High Lake  
(nearest place name or geographic feature)

Local/Traditional Name: \_\_\_\_\_

National Topographic Sheet (NTS) Number: 76M/6 Scale: 1:

Latitude/Longitude: 67°20'N, 110°50'W  
(degrees, minutes seconds)

Drainage Region and Watershed: High Lake  
(nearest creek, river or lake system)

Nearest Settlement: Bathurst Inlet

Adjacent Settlement/Out-post camps: \_\_\_\_\_

Special Designation: \_\_\_\_\_  
(Yes/No - e.g. Heritage River, Wildlife Reserve, Park)

Does the project have Nunavut transboundary implications? Yes \_\_\_\_\_ No ☒

If yes, what additional procedures/contacts are needed? \_\_\_\_\_



**4. Project Description and Assessment**

Physical Work, Activity(ies): drilling, waste disposal  
(drilling, construction, camp, research, water works, installation, modification, maintenance)

Multiple Activities: Yes ☒ No ☐

Project Category Code: Point ☐ Multiple Points ☐ Linear ☐ Area ☐

Phase of Project: exploration  
(exploration, bulk sampling, development, operations, decommissioning, abandonment, restoration)

**Project Description Summary (non-technical):**

(duration of project, size of project, number of personnel on site, related physical activities, machinery used, fuels and chemical use and storage, associated infrastructure, methods of transportation, amount and source of resources needed eg. Gravel)

Attach Project Overview (English and Inuktitut)

**Alternatives Considered:**

(list all alternatives to the project and/or components of the project to avoid unnecessary amendments, (e.g. alternatives to location of ice road or camp logistics)

**5. The Proponent's Public Consultation Process**

Description of Proponent's Public Consultation Process

Has not yet consulted in area, but intends to use a consulting company to help in this regard. Intend to employ locally

Did proponent make use of traditional knowledge? Yes ☐ No ☒

Was information available in the community's preferred language? Yes ☐ No ☐

In NIRB's opinion, was the proponent's public consultation adequate? Yes ☐ No ☐

If no, explain why the proponent's consultation program was found deficient.



## **HIGH LAKE PROJECT**

### **Introduction**

The High Lake Property is located in the Nunavut Territory, Canada. More specifically, it is located approximately 45km south of Grays Bay of the Coronation Gulf, and approximately 120km north-west of the community of Bathurst Inlet.

Wolfden is in the process of completing water licence and land permit applications for an exploration diamond drill program intended to be carried out in April, 2001.

### **Summary**

The High Lake property is host to the High Lake base metal deposit which is located on the west shore of High Lake. The program to be carried out this winter is a program of approximately 20 drill holes into the A/B and D Zones, both located on land, to bring up the classification of the resource on the property for an intended feasibility study (see attached maps). The program is expected to start in mid April and to last for approximately two months.

Most of the work will be carried out by contractors, and Wolfden will hire where possible from nearby communities to work on the project. The program is not expected to have any adverse affects on water quality in the area, nor on local wildlife. Wolfden and contractors will make every effort possible to cause as little disturbance as possible on the area. All waste, garbage and empty fuel drums will be flown out of the site.

A copy of an environmental inventory completed by Dr. D. Rees in June, 1994 is included to demonstrate that the water quality at High Lake is naturally such, from run-off from the deposits, that any impact from our drill program will not have any affect on it.

### **Drill Program**

Approximately 12 holes totaling 2400 meters are to be drilled on the A/B Zone located between 180N and 620N (property grid) approximately 800 meters west of the shore of High Lake. Another 8 holes totaling 1600 meters are to be drilled on the D Zone located southwest of High Lake, and approximately 250 meters west of Contact Lake.

**6. Description of the Environment**

## Description of Biophysical Environment

In early spring, barren-ground caribou of the Bathurst herd migrate eastward along the James, Hood and Burnside river valleys and cross Bathurst Inlet on the ice to calve in the region east of the Inlet. In late summer, caribou move eastward along the same route.

## Description of Socio-Economic and Cultural Environment

Very little hunting or trapping activity has been reported in this inland area in recent years.

**7. NIRB's Consultation Process**

Date application referred for comments:

March 06, 2001

(yyyy-mm-dd)

Deadline for comments:

March 30, 2001

(yyyy-mm-dd)

Distribution List

Contact Person:

Date comments received:

**NUNAVUT:**

NTI



QIA



Kivalliq I.A.



Kitikmeot I.A.



NPC



NWB



NWMB



RWO



Inuit Heritage Trust



Community(s)

Hamlet Cam. Bay / KugluktukVHTO Bathurst / Inuvik

Other?

Sam KapookMarch 14 / 01**FEDERAL:**

DIAND



DFO



DOE



Heritage Can.



Natural Resources



Other? (eg. Health

DOT, DND) CCGGreg CookMarch 30 / 01Lawrence IgnaceMarch 29 / 01**GOVERNMENT OF NUNAVUT:**

Sustainable Dev.



CGHT



HSS



CLEY



Other?

Doug StantonMarch 22 / 01**TRANSBOUNDARY  
PARTIES****OTHER PARTIES**EBC

## Identification of Project Activities and Environmental Effects

Identify all activities of the project under screening and their potential adverse environmental effects.

### Project Activities

(✓ check all the items appropriate to this project)

- ☐ access road
  - ☐ winter
  - ☐ construction
  - ☐ abandonment/removal
  - ☐ modification e.g., widening
- ☒ automobile, aircraft or vessel movement
- ☐ blasting
- ☐ burning
- ☐ burning
- ☐ channelling
- ☐ construction
  - ☐ building
  - ☐ shed, warehouse
  - ☐ landing strip
- ☐ cut and fill
- ☐ removal of vegetation
- ☐ dams and impoundments
  - ☐ construction
  - ☐ abandonment/removal
  - ☐ modification
- ☐ ditch construction
- ☐ drainage alteration
- ☐ drilling other than geoscientific
- ☐ ecological surveys
- ☐ excavation
- ☐ explosive storage
- ☒ fuel storage
- ☒ garbage
  - ☐ disposal of hazardous waste
  - ☒ disposal of sewage or grey water
  - ☒ disposal of solid waste
- ☒ geoscientific sampling
  - ☐ trenching
  - ☒ diamond drill
  - ☒ borehole core sampling
  - ☐ bulk soil sampling
- ☐ quarry
- ☐ hydrological testing
- ☐ river/stream/lake crossing/bridging
- ☐ site restoration
  - ☐ fertilization
  - ☐ grubbing
  - ☐ planting/seeding
  - ☐ scarification
  - ☐ spraying
  - ☐ recontouring
- ☐ soil testing
- ☐ topsoil, overburden or soil
  - ☐ fill
  - ☐ disposal
  - ☐ removal
  - ☐ storage
- ☐ tunnelling/underground
- ☒ other, explain geological mapping
- ☒ possibility for accidents or malfunctions. Describe. Fuel spillage
- ☐ effects of environment on project (e.g., flooding). Describe \_\_\_\_\_

### Project Effects

(✓ check all the items appropriate to this project)

#### Directly-related Socio-Economic & Cultural Effects:

1. ☐ impact re hunting / trapping / fishing
2. ☐ impact on ☐ women
  - ☐ men
  - ☐ children
  - ☐ elders
3. ☐ impact to traditional use or traditional use area
4. ☐ impact to outfitters
5. ☐ impact on recreational use
6. ☐ impact on family structure
7. ☐ impact to community health
8. ☐ change in community economics
9. ☐ change in community housing or infrastructure
10. ☐ impact to industry
11. ☐ change in regional transportation
12. ☒ impact to archaeological or cultural landmarks
13. ☐ impact on beauty of the landscape
14. ☐ other, explain \_\_\_\_\_

#### Biophysical Environment Effects

15. ☐ deposit into surface or ground water
16. ☐ deposit to marine environment
17. ☐ change in surface or ground water flow
18. ☐ change in water temperature
19. ☐ change in drainage pattern
20. ☐ change in air quality
21. ☐ change in air flow
22. ☐ micro-climate change
23. ☐ ice fog
24. ☒ change in ambient noise level
25. ☒ deposit onto ground surface
26. ☐ change in slope stability
27. ☐ change in soil structure
28. ☐ alteration of permafrost regime
29. ☐ destabilization/erosion
30. ☐ soil compaction
31. ☐ change in access to renewable resources
32. ☐ depletion of non-renewable resource
33. ☐ removal of rare/endangered plant species
34. ☐ introduction of species
35. ☐ toxin, heavy metal accumulation
36. ☐ removal of rare/endangered wildlife species
37. ☐ change in wildlife health
38. ☒ impact to large mammals
39. ☐ impact to small mammals
40. ☒ impact to fish
41. ☐ impact to birds
42. ☐ impact to other wildlife
43. ☐ impact in a calving, nesting, staging or spawning area
44. ☐ removal of wildlife buffer zone
45. ☐ change in wildlife habitat/ecosystem
46. ☐ other, explain \_\_\_\_\_

[illegible]

9. **Cumulative Effects: Identification of Other Resources Used in the Area.** Identify past, current and future (pending applications) physical works and activities in the area (for the proponent, other proponents and nearby communities) and their potential adverse environmental effects.

#### Other Resource Uses

(✓ check all the items appropriate to this project)

- ☐ harvesting
  - ☐ marine mammals
  - ☐ land mammals
  - ☐ fur bearers
  - ☐ birds
  - ☐ shellfish
  - ☐ plants
  - ☐ berries
  - ☐ fish
- ✓ mining
  - ✓ exploration
  - ☐ open pits
  - ☐ underground
  - ☐ off-shore
- ☐ mineral processing
- ☐ industry \_\_\_\_\_ (type)
- ☐ quarries
  - ☐ carving stone
  - ☐ aggregate
- ☐ transportation/communications
  - ☐ airport / landing strip
  - ☐ roads/access routes
  - ☐ shipping
  - ☐ channels/canal
  - ☐ telephone lines, satellite dishes, cables
  - ☐ beacons
- ☐ waste disposal (solid, liquid or gas?)
- ☐ energy project
  - ☐ hydro
  - ☐ pipeline
  - ☐ transmission line
- ✓ other water licenses, permits, leases
- ✓ lands
  - ☐ Inuit owned
    - ☐ -surface rights
    - ☐ -sub-surface rights
  - ✓ Crown
  - ☐ Commissioner's
  - ☐ Marine Areas
- ☐ other private lands held under tenure
- ☐ heritage sites or archaeological sites
- ☐ recreation (eg. cabins, tent frames)
- ☐ tourism
- ☐ municipal (construction)
  - ☐ commercial
  - ☐ built structures
  - ☐ infrastructure
- ☐ agriculture
- ☐ forestry
- ☐ other, explain \_\_\_\_\_

#### Effects from Other Resource Uses

(✓ check all the items appropriate to the scope of this project)

#### Directly-related Socio-Economic & Cultural Effects:

1. ☐ impact to hunting / trapping / fishing
2. ☐ impact on \_\_\_\_\_ women
  - ☐ men
  - ☐ children
  - ☐ elders
3. ☐ impact to traditional use or traditional use area
4. ☐ impact to outitters
5. ☐ impact on recreational use
6. ☐ impact on family structure
7. ☐ impact to community health
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9. ☐ change in community housing or infrastructure
10. ☐ impact to industry
11. ☐ change in regional transportation
12. ☐ impact to archaeological or cultural landmarks
13. ✓ impact on beauty of the landscape
14. ☐ other, explain \_\_\_\_\_

#### Biophysical Environment Effects

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42. ☐ impact to other wildlife
43. ✓ impact in a calving, nesting, staging or spawning area
44. ☐ removal of wildlife buffer zone
45. ☐ change in wildlife habitat/ecosystem
46. ☐ other \_\_\_\_\_

**10. Cumulative Environmental Effects**

Based on a comparison of effects identified in #8 and #9.

Matching Number(s)	Description of Cumulative Environmental Effects

**NO** Will the project make large demands on non-renewable energy sources?**Possible** Will the project encourage further developments within the current project or other developments (other similar projects, energy development, generation, petroleum development and extraction, the building of additional roads)?**NO** Will the project encourage a "boom-bust" economy over an economy of permanence?**NO** Will the project encourage more wildlife harvesting on account of better access for hunters and fishers?**NO** Will the project have an effect on the water quality of the watershed?**NO** Will the project have a significant effect on existing land uses?**11. Mitigation Measures**

For each environmental effect identified in #8, #9 and #10, describe the required mitigation measures.

Number(s) (as identified in #8, #9 & #10)	Description of Mitigation Measures
	See Screening Decision Report



**12. Significance**

After taking into account the mitigation measures identified in #11, are any of the residual, adverse environmental effects significant?

☐ Yes ☐ No

If yes, identify which one(s), and proceed to #13; if no proceed to #14.

Number(s):

**13. Likelihood of Occurrence**

Of the significant, residual, adverse environmental effects identified in #12, are any likely to occur?

☐ Yes ☐ No

Number(s)

**14. Information Sources**

What sources of information were used in the screening process?

- ☒ local knowledge
- ☐ traditional ecological knowledge
- ☒ land use plans (and draft land use plans)
- ☒ authorizing agencies' data
- ☒ departmental or agency opinions
- ☒ maps
- ☐ photos
- ☒ reports (scientific, economic, social, or anthropological, archival or historical information)
- ☐ Nunavut Environmental Database (NED)
- ☒ personal communications
- ☒ Project Registry (NPC)
- ☒ previous similar projects
- ☐ service organizations
- ☐ media monitoring
- ☐ experts
- ☐ other

For information sources identified above, provide contact person and/or information location (for future follow-up):

**15. Staff Recommendations**

Staff Recommendations: (include rationale)

The project should have little or no significant environmental effects if the Terms & Conditions are adhered to.

Prepared By: Charles Joudrey Date: April 4, 2001  
Screening (yyyy-mm-dd)**16. NIRB'S Principles**

- ☐ The project has significant adverse effects on the ecosystem, wildlife habitat or Inuit harvesting activities.
- ☐ The project may have significant adverse socio-economic effects on northerners.
- ☐ The project will cause significant public concern.
- ☐ The project involves technological innovations for which the effects are unknown.
- ☒ The project does not have significant effects or concerns.

**17. Indication to the Minister (12.4.4)**

N.B. Transfer this information to Box 1: "EA Indication" and "Date of Indication".

- ☒ a) the proposal may be processed without a review under Part 5 or 6; NIRB may recommend specific terms and conditions to be attached to any approval, reflecting the primary objectives set out in Section 12.2.5;
- ☐ b) the proposal requires review under Part 5 or 6; NIRB shall identify particular issues or concerns which should be considered in such a review;
- ☐ c) the proposal is insufficiently developed to permit proper screening, and should be returned to the proponent for clarification; or
- ☐ d) the potential adverse impacts of the proposal are so unacceptable that it should be modified or abandoned.

Apr-11-01 01:31P

2001-Apr-11 12:04pm From-NUNAVUTIMPACT REVIEW BOARD

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T-613 P.007/007 F-106

P.10

13

**18. Terms and Conditions**

If the determination is 12.1.4 (a), NIRB's terms and conditions include those listed in the Screening Decision Report.

Specific Terms and Conditions to note include:


**19. Authorization**

Approved By:

*Elizabeth Geland*  
NIRB Decision Makers

Date:

*April 11/01*  
(977-1101-111)**20. Follow-up / Monitoring**

Minister's Determination

\_\_\_\_\_ Minister agreed with NIRB's indication  
Action? \_\_\_\_\_

\_\_\_\_\_ Minister varied NIRB's indication.  
Action? \_\_\_\_\_

\_\_\_\_\_ Minister rejected NIRB's indication  
Action? \_\_\_\_\_

If applicable,

\_\_\_\_\_ Is a follow-up/monitoring program required? If yes, give details.  
\_\_\_\_\_

\_\_\_\_\_ Has screening report information been added to NIRB's CIS/Calyx system?  
\_\_\_\_\_

Water Resources Division  
Regulatory Approvals Section  
P.O. Box 1500  
Yellowknife, NT  
XIA 2R3

Telephone: (867) 669-2656  
Facsimile: (867) 669-2716

Our File: NWB-0080

March 30, 2001

Nunavut Impact Review Board  
P.O. Box 2379  
Cambridge Bay, NU X0E 1L0  
Fax: (867) 983-2594

**ATTENTION: Gladys Joudrey, Environmental Assessment Officer**

**RE: Water Permit Application: NIRB # 01WN021/NWB #NWB2HIG  
Wolfden Resources Ltd. - High Lake base metal deposit- exploratory drilling  
program**

The Water Resources Division, Yellowknife, has reviewed the above noted water permit application and supporting documentation, and has provided some additional comments on your attached screening comment form, as well as in this letter. A similar package was subsequently received from the Nunavut Water Board.

Our opinion remains that this type and scale of project activity would not normally meet the threshold for licensing under the NWT Waters Act and Regulations, and conditions may not be enforceable. If a "water permit" is to be issued under the authority of the Nunavut land claim legislation, the following comments pertain to the licence if one is required. Otherwise, water-related concerns could probably be addressed through the relevant land use permit. Overall, we have no specific water related concerns, given that the volume of water needed is low, drill water will be recycled, and most wastes generated will be flown out. Given that this is/was an existing camp, having valid lease(s), was a screening conducted on the original land use permits issued in the mid 1990's? If so, there may be some additional information relative to screening of the camp and activities at the time, which might be useful. Otherwise, standard terms and conditions to address other environmental and water related requirements are recommended for this project.

The spill plan appears to be quite adequate for this scale of activity, however, under step 12.5 : reporting, while the 24 hour number is correct, it is not Environment Canada (DOE) that has primary responsibility for spills here, but rather this department (DIAND). DOE also receives the report, and may have an additional interest re protection of fish bearing waters etc. Similarly, all spills must be reported to the 24 hour spill report line, not just "major" ones, for any activity regulated here in the NWT or Nunavut.

If there are any questions or comments regarding the above, please contact me at (867) 669-2656.

2001-Apr-12 10:13am From:NUNAVUTIMPACT REVIEW BOARD  
MAR-30-01 11:04 From:DIAND WATE SOURCES

+8679832594

T-624 P.021/028 F-131

1-867-869-271

1-907 P.03/03 J08-425

Sincerely,



Greg Cook  
Environmental Assessment Coordinator  
Water Resources Division

cc. Nunavut District  
Brian Collins

## COMMENT FORM FOR NIRB SCREENINGS

The Nunavut Impact Review Board has a mandate to protect the integrity of the ecosystem for the existing and future residents of Nunavut. In order to assess the environmental and socio-economic impacts of project proposals, NIRB would like to hear your concerns, comments and suggestions about the following project application:

Project Title: High Lake Project  
Proponent: Wolfden Resources Inc.  
Location: 45km south of Grays Bay (Coronation Gulf), NIRB#: 01WN021  
Comments Due By: Friday, March 30, 2001

**Indicate your concerns about the project proposal below:**

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> no concerns           | <input type="checkbox"/> traditional uses of land               |
| <input type="checkbox"/> water quality                    | <input type="checkbox"/> Inuit harvesting activities            |
| <input type="checkbox"/> terrain                          | <input type="checkbox"/> community involvement and consultation |
| <input type="checkbox"/> air quality                      | <input type="checkbox"/> local development in the area          |
| <input type="checkbox"/> wildlife and their habitat       | <input type="checkbox"/> tourism in the area                    |
| <input type="checkbox"/> marine mammals and their habitat | <input type="checkbox"/> human health issues                    |
| <input type="checkbox"/> birds and their habitat          | <input type="checkbox"/> Other: _____                           |
| <input type="checkbox"/> fish and their habitat           | _____   |
| <input type="checkbox"/> heritage resources in area       | _____   |

**Please describe the concerns indicated above:**

4

**Do you have any suggestions or recommendations for this application?**

**Do you support the project proposal?** YES ☒ NO ☐  
**Any additional comments?**

Name of person commenting: Sam Kapoluk of Bathurst  
Position: Vice-chair person Organisation: Burnside H.T.O.  
Signature: Sam Kapoluk Date: March 14, 2001



Environment Canada  
Environnement Canada

Environmental Protection Branch  
Qimugjuk Building, P.O. Box 1870  
Iqaluit, NU X0A 0H0  
Tel: (867) 975-4639  
Fax: (867) 975-4645

March 26, 2001

Our file: 4703-000

Gladys Joudrey  
Environmental Assessment Officer  
Nunavut Impact Review Board  
P.O. Box 2379  
Cambridge Bay, NT X0E 0C0

Fax: (867) 983-2594

Rita Becker  
Licensing Administrator  
Nunavut Water Board  
P.O. Box 119  
Gjoa Haven, NU X0B 1J0

Fax: (867) 360-6339

**Re: Application for Water License NIRB# 01WN021; NWB# NWB2H1G - Wolfden Resources Inc. - High Lake Property, Grays Bay, Kitikmeot, NU.**

On behalf of Environment Canada (EC), I have reviewed the above noted application land (lease) A121-1-01. The comments provided for the above land application have been made under Section 36 of the *Fisheries Act*, the *Canadian Environmental Protection Act* (CEPA) and the *Migratory Birds Convention Act* (MBCA).

Wolfden Resources Inc. has proposed to conduct exploratory drilling in the High Lake area. The drill site is located on the west shore of High Lake and Wolfden proposes to drill approximately 20 holes. The drilling activities will begin in mid April and conclude approximately two months later. The crew will be accommodated at a permanent camp that has been used during previous drilling activities in the area. The camp will house a maximum of eight people.

Comments primarily focus on the associated drilling activities, fuel storage and waste management. Initial remedial steps recommended:

- removal of all drilling wastes and cuttings to the sump whether on ice or land;
- avoid disturbing any shoreline, specifically the bed and bank areas during the Spring;
- use of spill kits at the camp and fuel storage areas;
- ensure secondary containment for fuel storage to reduce the risks spills;
- ensure the treatment of hazardous wastes at an appropriate disposal facility i.e. Yellowknife;
- use of an approved incinerator for the burning solid wastes.

#### Comments and Recommendations

The second map on page 14 of the application package provided demonstrates a dashed line drawn from Gray's Bay south toward High Lake. However, I am uncertain as to what the dashed line represents. Please identify the purpose of this dashed line so that the potential impacts of the proposed project may be addressed.

Environment Canada would like to encourage the treatment of sumps with lime when associated with drilling activities that may cause higher than normal pH levels.





Further inadequate information was provided for the following:

- details of all equipment to be used in association with drilling activities specifically, how the drills are going to be move to and from work sites;
- detailed locations of the drill sites in relation to water;
- location of fuel storage in relation to water for aircraft/drilling/camp uses;
- volumes of fuel to be stored for aircraft/drilling/camp activities;
- volumes and locations of sumps for drilling/camp activities;
- types of hazardous materials considered to be in minor amounts.

The following conditions should be applied to the proposed land permit throughout all phases of the project.

- The proponent shall ensure that any drill cuttings, chemicals, fuel or wastes associated with the proposed project do not enter waters frequented by fish. All sumps, spill basins and fuel caches should be located in such a manner that the contents do not enter a waterbody.
- EC encourages proponents, to use a secondary containment, when storing barreled fuel at a location, rather than relying on "natural depressions". Self supporting insta-berms are available from various suppliers within Canada
- No disturbance of the bed or banks of any definable watercourse is permitted.
- Drilling wastes and cuttings from land-based drilling shall be disposed of in a sump such that they do not enter any waterbody.
- The permittee shall not erect camps or store material on the surface ice of streams or lakes.
- Environment Canada should be notified of changes in the proposed or permitted activities associated with this water use application.

Environment Canada is interested in attaining a copy of the Environmental Inventory completed by Dr. D. Rees in June 1994. Please forward a copy of this report to Lawrence Ignace, Environmental Assessment Specialist, Environment Canada, P.O. Box 1870., Iqaluit, NU X0A 0H0.

Please do not hesitate to contact me with any questions or comments with regards to the foregoing at (867) 975-4639 or [lawrence.ignace@ec.gc.ca](mailto:lawrence.ignace@ec.gc.ca).

Yours truly,



Lawrence Ignace  
Environmental Assessment Specialist

cc: (Paula Pacholek, Northern Environmental Assessment Coordinator, Yellowknife)

**Gladys Joudrey**

**From:** Nichols, Chris <CNichols@GOV.NU.CA>  
**To:** Gladys Jodrey (E-mail) <gladys@polarnet.ca>  
**Sent:** April 4, 2001 2:54 AM  
**Subject:** NIRB screenings

Hi Gladys:

As I am behind on the screenings I am going to forgo the usual submission of the NIRB screening comment form in effort to save some time. I hope that this is acceptable? Please note that the comments that I am submitting now should be viewed with the standard comments the we usually submit (see the attachment to the previous screening submissions:

- \* 01YN017 - No comments to make at this time;
- \* 01EN019- We are concerned that when the proponent indicates they are incinerating garbage they are actually not doing so. They are using 45 gal drums to burn garbage. These are not incinerators. Incineration and burning are two different processes and the advantages and disadvantages to both must be understood.
- \* 01EN024-No comments to make at this time.
- \* 01WN021- Again they are calling a 45 gal drum an incinerator. For the size of the operation they could get by with a 45 gal drum but it is recommended that they obtain plans for the 45 gal drum conversion kit so that they will be able to incinerate their garbage. The spill contingency plan appears to be a generic plan. It would be far more prudent for the proponent to formulate a plan that is specific to the project. It is recommended that the proponent re-submit a spill contingency plan that conforms to the territorial Spill Contingency Planning and Reporting Regulations.

← High take

If you have any questions with regard to these comments please let me know.

Thanks:  
Chris Nichols  
Manager, for Co-ord. Environ. Assessment & Claims Imp.  
Environmental Protection Services  
Department of Sustainable Development  
Government of Nunavut  
P.O. Box 1000 Stn 1195  
Phone: 867-975-5911  
Fax: 867-975-5980

This e-mail message is privileged, and confidential.  
Any unauthorized use or disclosure is prohibited

03/04/2001



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Department of  
Culture, Language, Elders & Youth

Pithohilikioni

Ministère du gouvernement  
Culture Langues, Aînés et Jeunesse

Culture and Heritage Division

Culture, Language, Elders & Youth  
Government of Nunavut  
P.O. Box 800  
Iqaluit, NT X0A 0H0

March 22, 2001

Gladys Joudrey  
Environmental Assessment Screener  
Nunavut Impact Review Board  
Box 2379  
Cambridge Bay, NU X0E 0C0**Re: Land Use Application NIRB 01WN021; High Lake Project – Wolfden Resources Inc.  
(Wolfden Resources Inc.)**

Due Date: March 30, 2001

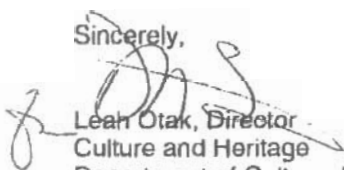
Dear Ms. Joudrey:

At your request, the Department of Culture and Heritage, Government of Nunavut, has reviewed the above-noted application. Our recommendations follow.

We recommend approval of the above-cited application, as the proponent's proposed activities do not constitute a threat to known archaeological resources.

The attached conditions specify plans and methods of site protection and restoration to be followed by the permittee if an archaeological site is encountered or disturbed in the course of the land use activity.

Sincerely,

  
 Leah Otak, Director  
 Culture and Heritage  
 Department of Culture, Language, Elders and Youth

Encl.



**ARCHAEOLOGICAL RESOURCES: TERMS AND CONDITIONS****BACKGROUND**

- I. The archaeological record of the Inuit of Nunavut is a record of Inuit use and occupancy of lands and resources through time. The evidence associated with their use and occupancy represents a cultural, historical, and ethnographic heritage of Inuit society and, as such, Government recognizes that Inuit have a special relationship with such evidence, which shall be expressed in terms of special rights and responsibilities.

The archaeological record of Nunavut is of spiritual, cultural, religious and educational importance to Inuit. Accordingly, the identification, protection, and conservation of archaeological sites and specimens and the interpretation of the archaeological record is of primary importance to Inuit and their involvement is both desirable and necessary.

In recognition of the cultural, spiritual and religious importance of certain areas in Nunavut to Inuit, Inuit have special rights and interests in these areas as defined by Article 33 of the Nunavut Land Claim Agreement.

- II. "Archaeological site" means a site or work within Nunavut of archaeological ethnographical or historical importance, interest or significance, or a place where an archaeological specimen is found, and includes explorer's cairns.

"Archaeological specimen" means an object or specimen found in an archaeological site of archaeological ethnographical or historical importance, interest or significance, or a place where an archaeological specimen is found, and includes explorer's documents.

- III. Any new Terms and Conditions raising issues found in ss. 10 and 16 of the Territorial Land Use Regulations should duplicate statutory sections, or be stricter, but not more lenient in terms of protection of archaeological resources.

- IV.
1. The permittee shall not operate any vehicle over a known or suspected archaeological site.
  2. The permittee shall not remove, disturb or displace any archaeological specimen or site.
  3. The permittee shall contact the Department of Culture, Language, Elders and Youth (867-975-5500) and DIAND officials should an archaeological site or specimen be encountered or disturbed by any land use activity.
  4. The permittee shall immediately cease any activity which disturbs an archaeological or historical site, encountered during the course of a land use operation, until permitted to proceed with the authorization of the Department of Culture, Language, Elders and Youth, Government of Nunavut, Iqaluit.
  5. The permittee shall follow the direction of the Department of Culture, Language, Elders and Youth and DIAND in restoring disturbed archaeological sites to an acceptable condition.
  6. The permittee shall provide information to the Department of Culture, Language, Elders and Youth about each archaeological site or specimen encountered by any land use activity, by completing the attached form.
  7. The permittee shall make best efforts to ensure that all persons working under authority of the permit are aware of these conditions concerning archaeological sites and specimens.
  8. The permittee shall avoid the known archaeological sites as listed in Attachment #1

9. The permittee shall have an archaeologist perform the following functions, as required by the Department of Culture, Language, Elders and Youth: survey, inventory and documentation of the archaeological and historical resources of the land use area; assessment of potential for damage to archaeological sites; mitigation; marking boundaries of archaeological sites for avoidance; restoration. The Department of Culture, Language, Elders and Youth shall authorize by way of a Nunavut Archaeologist Permit all procedures subsumed under the above operations.