





## SCREENING DECISION

**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 exploration 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;
- the movement of vehicles and equipment and the impact on wildlife;
- the movement of vehicles 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;
- cumulative effects from activities within the area.

**Terms and Conditions:**

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

**Drilling & Trenching Sites**

1. The Permittee shall not establish any trenches or stockpiles within thirty (30) metres of the normal high water mark of a water body.
2. The Permittee shall ensure that any and waste water be disposed of in a properly constructed sump or an appropriate natural depression that does not drain into a waterbody.
3. The Permittee shall use berms (with burlap screens placed around them) to prevent run off water accumulated from the trenching program from entering any water bodies.
4. The Permittee shall test the water to be discharged from the trenches (including for suspended solids, ammonia and metals), to ensure freshwater aquatic life is protected.
5. The Permittee shall not locate any sump within thirty (30) metres of the normal high water mark of any water body.
6. The Permittee shall not use mechanized clearing within 30 meters of the normal high water mark of a watercourse in order to maintain a vegetative mat for bank stabilization.
7. The Permittee shall not conduct any land based drilling within thirty (30) metres of the normal high water mark of a water body.
8. The Permittee shall conduct any the lake-based winter drilling, in accordance with *the Interim Guidelines for On-Ice drilling*.
9. The Permittee shall ensure that all drill cuttings are removed from ice surfaces.



10. The Permittee 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.
11. The Permittee 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).
12. The Permittee 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.
13. The Permittee shall ensure that the sump/depression capacity be sufficient to accommodate the volume of waste water and any fines that are produced so that there will be no additional impacts.
14. The Permittee 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.
15. The Permittee 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. If an artesian occurrence shall be reported to the Nunavut Water Board and Land Use Inspector within 48 hours.

#### **Water**

16. The Permittee 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.

#### **Fuel and Chemical Storage**

17. The Permittee 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.
18. The Permittee 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.
19. The Permittee shall construct an impermeable dyke around each stationary fuel container or group of stationary fuel containers where one container has the capacity exceeding 4,000 litres.
20. The Permittee shall take all reasonable precautions to prevent the possibility of migration of spilled petroleum fuel or chemicals over the ground surface.
21. The Permittee shall have one extra fuel storage container on site equal to, or greater than, the size of the largest fuel container.
22. The Permittee shall examine all fuel and chemical storage containers daily for leaks. All leaks should be prepared immediately.
23. The Permittee shall seal all container outlets except the outlet currently in use.
24. The Permittee shall mark all fuel containers with the Permittee's name.

25. The Permittee shall dispose of all combustible waste petroleum products by incineration and removal from the site.
26. The Permittee shall have emergency response and spill contingency plans in place prior to the commencement of the operation.
27. The Permittee 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**

28. The Permittee 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.
29. The Permittee 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, and be sufficiently bermed or otherwise contained to ensure that these substances do not enter a waterway unless otherwise authorized.
30. The Permittee, prior to the discharge of fluids from any sump, shall carry out an analysis of the fluid in a manner prescribed by the NWB.
31. The Permittee shall construct a sump to contain all greywater discharged and shall ensure drainage is away from any waterbody.
32. The Permittee shall backfill and recontour all sumps to match the natural environment prior to the expiry date of the permit.
33. The Permittee shall incinerate all combustible and food wastes daily. The Permittee shall use as a minimum incineration method a 45 gallon drum modified to form a more efficient incinerator.
34. The Permittee shall keep all garbage and debris in a covered metal container until disposed of.
35. The Permittee shall ensure that all wastes generated through the course of the operation are backhauled and disposed of in an approved dumpsite.
36. The Permittee shall not bury any wastes.
37. The Permittee shall deposit all scrap metal, discarded machinery and parts, barrels and kegs, at an approved disposal site.
38. The Permittee shall dispose of slash or debris above the high water mark so that it does not enter any waterbody.

### **Wildlife**

39. The Permittee shall ensure that there is no damage to wildlife habitat in conducting this operation.
40. The Permittee shall not feed wildlife.
41. The Permittee use the latest bear detection and deterrent techniques to minimize man-bear interactions and shall report any Man-Bear Interactions to the nearest Renewable Resource Officer.
42. In the event that caribou or muskox cows calve within site of the exploration activities, the Permittee shall suspend operations within the area(s) occupied by cows and/or calves

- between May 15 and July 15. All personnel are to be removed from the zone who are not required for the maintenance and protection of the camp facilities and equipment.
43. The Permittee shall not locate any operation so as to block or cause substantial diversion to migration of caribou.
  44. The Permittee shall cease activities that may interfere with migration or calving, such as airborne geophysics surveys or movement of equipment, sampling activities until the migrating caribou and their calves have vacated the area.
  45. The Permittee shall not detonate explosives within fifteen (15) metres of any body of water which is not completely frozen to the bottom.
  46. The Permittee shall not conduct any activity associated with the land use operation during critical periods of wildlife cycles (eg. caribou migration, calving, fish spawning or raptor nesting).
  47. That the Permittee shall ensure that there is no hunting by employees of the company or any contractors hired.
  48. The Permittee shall ensure that aircraft pilots adhere to recommended flight altitudes of greater than 300 m above ground level as to not disturb wildlife. Raptor nesting sites and concentrations of nesting or molting waterfowl should be avoided by aircraft at all times.
  49. The Permittee 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.
  50. 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.
  51. The Permittee shall ensure that trenching/drilling sites avoid known environmentally sensitive areas (denning, nesting etc.) by a minimum of 250 metres.
  52. The Permittee shall barricade trenches to prevent wildlife from falling into them.

### **Environmental**

53. The Permittee shall ensure that the land use area is kept clean and tidy at all times.
54. The Permittee shall prepare the site in such a manner as to prevent rutting of the ground surface.
55. The Permittee shall not do anything that will cause erosion of the banks of any body of water on or adjacent to the land and shall provide necessary controls to prevent such erosion.
56. The Permittee shall be required to undertake any corrective measures in the event of any damage to the land or water as a result of the Permittee's operation.
57. The Permittee shall not remove any material from below the ordinary high water mark of any waterbody.
58. The Permittee may only excavate and stockpiles in areas designated
59. The Permittee shall not use any equipment except of the type, size and number that is listed in the accepted application.
60. The Permittee shall not move any equipment or vehicles unless the ground surface is in a state capable of fully supporting the equipment or vehicles without rutting or gouging.

61. The Permittee shall suspend overland travel of equipment or vehicles if rutting occurs.

### **Camp**

62. The Permittee shall not erect camps or store material on the surface ice of lakes or streams.
63. The Permittee shall locate all camps and storage facilities on gravel, sand or other durable land.

### **Archaeological Sites**

64. The Permittee shall follow all terms and conditions for the protection and restoration of archaeological resources as outlined by the Prince of Wales Northern Heritage Centre (PWNHC) in attached letter.
65. The Permittee shall contact the Arctic Archaeologist at the Prince of Wales Northern Heritage Centre (867-873-7551) should an archaeological or historical site be disturbed by any land use activity or support activity. The Permittee shall proceed on the stipulation/advice of the Archaeology Programme.

### **Reclamation**

66. The Permittee shall remove all scrap metal, discarded machinery and parts, barrels and kegs, buildings and building material upon abandonment.
67. The Permittee shall complete all clean-up and restoration of the lands used prior to the expiry date of the permit.
68. The Permittee shall undertake ongoing restoration for any land or improvements which are no longer required for the Permittee's operation on the land.

### **Other Recommendations**

1. NIRB would like to encourage the proponent to hire local people and services, to the extent possible.
2. NIRB advises proponents to consult with local residents regarding their activities in the region.
3. An executive summary of the results be provided to the relevant HTO's and Hamlets.
4. Any amendment requests deemed by NIRB to be outside the original scope of the project will be considered a new project.
5. The Environmental Protection Branch (DOE), Department of Fisheries and Oceans (DFO), Department of Sustainable Development (DSD), Nunavut Impact Review Board (NIRB), and the Nunavut Water Board (NWB) should be advised of any material changes to plans or operating conditions associated with the project.

Apr-19-00 11:30A Larry .knavigak  
2000-Apr-19 12:38pm From-NUNAVUTIMPACT REVIEW BOARD

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**Validity of Land Claims Agreement**

**Section 2.12.2**

Where there is any inconsistency or conflict between any federal, territorial and local government laws, and the Agreement, the Agreement shall prevail to the extent of the inconsistency or conflict.

Dated April 19/00 at Cambridge Bay, NT

  
Larry Pokok Aknavigak, Chairperson



**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  
(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: Renewal  
(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): \_\_\_\_\_  
(file number)

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

**3. Project Location**

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

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

Geographic Place Name: Meadowbank River Area  
(nearest place name or geographic feature)

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

National Topographic Sheet (NTS) Number: 60H Scale: 1:250,000

Latitude/Longitude: 65° 00' 75" N, 91° 04' 39" W  
(degrees, minutes seconds)

Drainage Region and Watershed: \_\_\_\_\_  
(nearest creek, river or lake system)

Nearest Settlement: Baker Lake

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

Special Designation: No  
(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): Exploration  
(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, 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**

Have consulted over the last several years  
with Kivalliq Inuit Association, NUB, NIT,  
HTO and Hamlet of Baker Lake

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

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

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

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

### Executive Summary (NWB)

The Meadowbank Gold project is located 70km north of the Hamlet of Baker Lake, Nunavut. The project includes four closely spaced, well defined gold deposits hosted in magnetite rich iron formations of the Archean aged Woodburn Lake Group. Resource calculations completed in early 1999 by independent mining engineers, MRDI Canada, outlined 1.73 Million ounces gold (cut) of which 70% falls within the measured and indicated classifications. Resource classification is supported by 364 diamond drill holes.

Cumberland Resources Ltd. has been operating exploration activities at the Meadowbank Gold Project since 1995. Exploration since 1995 has included over 50,000 meters of definition and exploratory drilling. Project expenditures have exceeded \$13 million during this time and include \$3.2 million expended in 1999 making the project one of the largest exploration initiatives in Canada.

Pre-feasibility studies continued across 1999 to identify mining, metallurgical, and infrastructure parameters necessary to support economic production at Meadowbank. Currently, the Company is studying the economics of combined open pit and underground production at the site with winter road access and staff rotated on a bi-weekly basis. These studies are expected to be completed early in 2000.

The company acquired an additional three mineral exploration agreements on approximately 30,000 hectares within IOL parcel BL-14 in 1999. These land parcels are contiguous with the grand-fathered mineral claims hosting the Meadowbank deposits. In 2000, the company will expand exploration on this new land to potentially add to the current 1.73 million ounce gold resource.

The proposed exploration activities in the areas covered by Land Use License KVL299B169 and by Land Use Permit KE97P092 will be supported from the current Meadowbank camp, therefore additional construction would not be necessary. The water use license will need to be amended so as to include both areas of activity.

Proposed work in the area covered by Land Use License KVL299B169 (new lands) includes airborne and ground geophysics, gridding, and diamond drilling expected to be completed before June. Continued work includes prospecting and geological mapping to be completed before September.

Proposed work in the area covered by Land Use Permit KE97P092 (grandfathered claims) includes a diamond drill program to be completed before June, finishing the trenching started in 1999, and hydrology studies.

Proposed hydrology studies will require the temporary installation of weirs (aquadams) or monitoring stations. These will be constructed to modify the channel flow conditions for measuring lake discharge. The objective is to gather information on existing environmental conditions in support of future

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environmental assessment and long term monitoring for the mine. Monitoring will begin in early spring to capture melt conditions, and will continue to late summer. Monitoring stations will be located in the lakes surrounding the mine site. The work was approved in 1999 permit amendment number 1, but was not carried out. The proposed work would be carried out this year instead.

Activities at the Meadowbank project have been previously approved and regulated under a KLA land use permit and a Nunavut Water Board Permit. Cumberland has been fully compliant with all permits and inspections since 1995.

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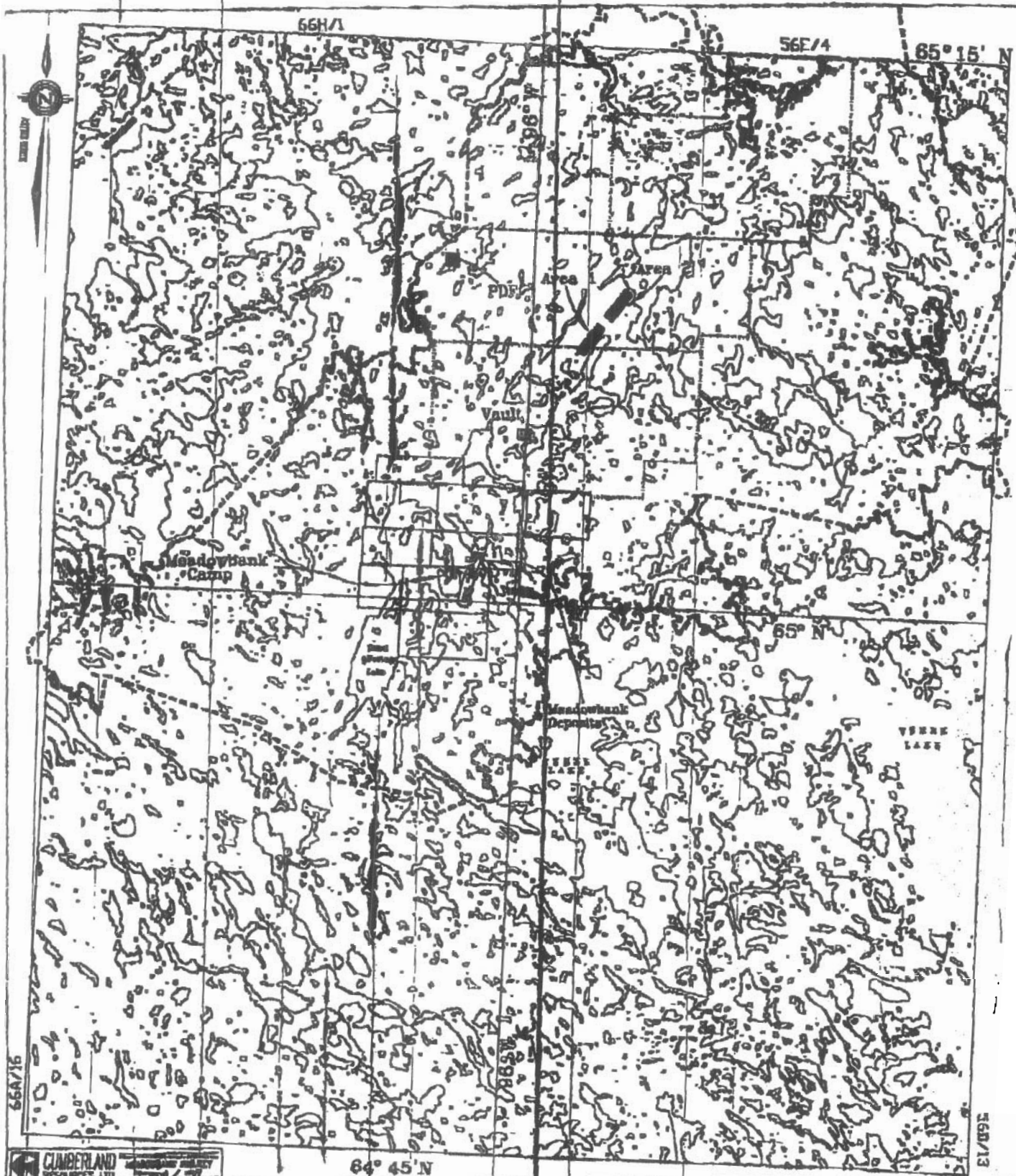
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10:46 / 304 304



**CUMBERLAND**  
Resources Ltd.

**Meadowbank Region**  
Exploration & Development

Scale	1:250,000
Projection	UTM
Zone	18N
Datum	NAD 83

**LEGEND**

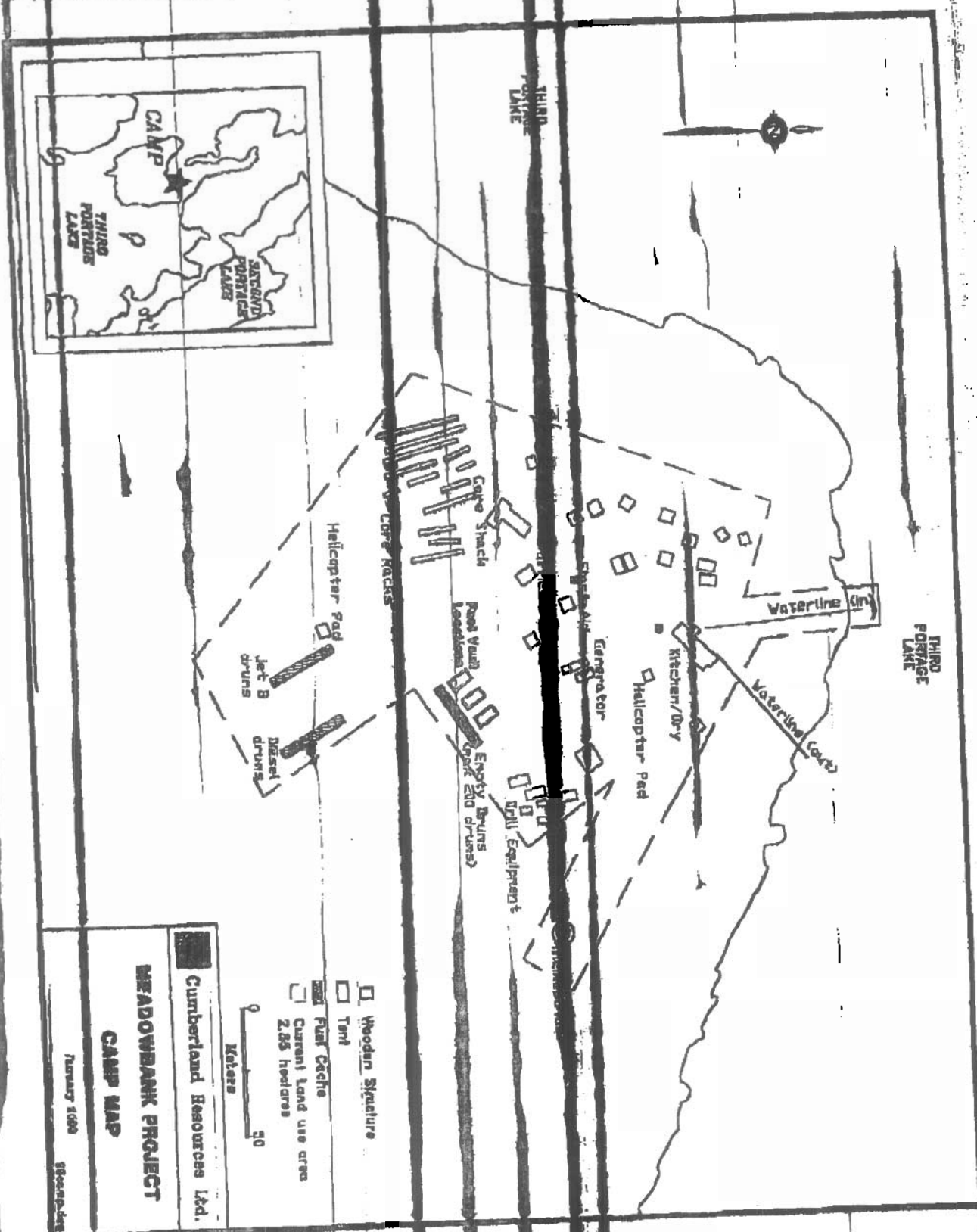
	NEW CLAIMS		NTI RL16 BOUNDARY		LAKESHORE
	EXISTING CLAIMS		PROPOSED WORK AREAS		

scale: 1:250,000

0 10 Kilometers

FEB-16-00 13:42 FROM:

C:\CBOACAD\MBDWG\99gen\99camp Fri Feb 11 09:34:41 2000

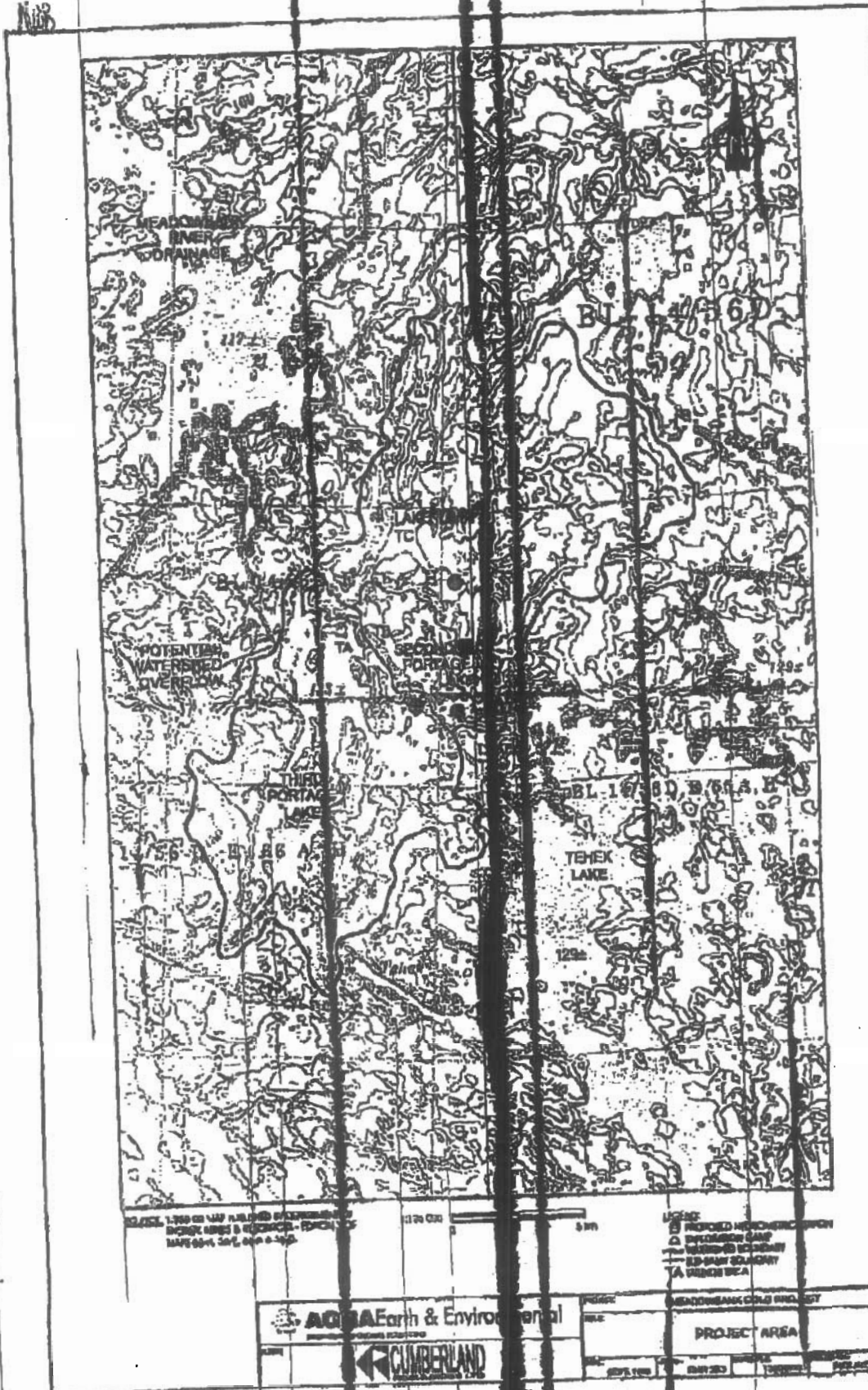


PEB-16-00 13:42 FROM:

10:00 / 301 5049 J209

P.5

Feb 01 83 09:51a Craig Goodings



## 6. Description of the Environment

### Description of Biophysical Environment

This area has been identified as a denning area for arctic fox and wolves. Small cliffs throughout the area may be used by rough-legged hawks, peregrines and gyrfalcons for nesting.

### Description of Socio-Economic and Cultural Environment

In some years, significant numbers of barren-ground caribou winter in the whitehills - Tehek lakes area. In these years, extensive caribou hunting occurs from fall through spring, especially in the vicinity of whitehills lake. Trapping Arctic fox in this area occurs in February and March. Domestic fishing provides food for hunters and trappers. Baker lake residents travel to whitehills Lake in spring and summer to occupy seasonal fishing camps.

## 7. NIRB's Consultation Process

Date application referred for comments:

February 18, 2000

(yyyy-mm-dd)

Deadline for comments:

March 13, 2000

(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  
☐ HTO  
☐ Other?

Luis Manzo

Feb 24/00

Baker Lake

## FEDERAL:

☒ DIAND  
☒ DFO  
☒ DOE  
☒ Heritage Can.  
☒ Natural Resources  
☒ Other? (eg. Health  
 DOT, DND)

Katherine Silcock

March 15/00

April 6/00

## GNWT:

☒ DRWEED  
☐ Transport  
☒ MACA CG-RT  
☒ PWNHC  
☒ Other? (eg. Health,  
 Soc. Serv., ECE)

Chris Nichols

March 16/00

Robert Chapple

Feb 25/00

Charles Arnold

March 1/00

Bruce Trotter

Feb 24/00

TRANSBOUNDARY  
PARTIES

BQMB

## OTHER PARTIES

## 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 *helicopter*
- ✓ blasting
- ✓ burning
- ✓ burying
- ☐ 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 *camp*
- ✓ possibility for accidents or malfunctions. Describe. *fuel spills*
- ☐ 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 to 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 \_\_\_\_\_



**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 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/endorsed plant species
34. — introduction of species
35. — toxin/heavy metal accumulation
36. — removal of rare/endorsed 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 \_\_\_\_\_

**10. Cumulative Environmental Effects**

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

Matching Number(s)

Description of Cumulative Environmental Effects


☒ Will the project make large demands on non-renewable energy sources?☐ 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)? *possibly*☒ Will the project encourage a "boom-bust" economy over an economy of permanence?☒ Will the project encourage more wildlife harvesting on account of better access for hunters and fishers?☐ Will the project have an effect on the water quality of the watershed? *possibly*☒ 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

	<i>See Screening Decision</i>
	<i>Report terms &amp; conditions</i>

**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 (NPE) **NARB**
- ☒ 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)

project should have little significant impact if Terms and conditions followed.

Sustainable Developments concerns have been addressed.

Prepared By:

Abdus Tadey  
Secretary

Date:

April 12, 2000  
(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.

18. Terms and Conditions

If the determination is 12.4 + (a), NIRB's terms and conditions include those listed in the Screening Decision Report.

Specific Terms and Conditions to note include:

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19. Authorization

Approved By: 

(NIRB Decision Maker)

Date: 2000/04/19

(yyyy-mm-dd)

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 GIS/Culyx system?

## 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:

<b>Project Title:</b> <u>Meadowbank Project</u>	
<b>Proponent:</b> <u>Cumberland Resources</u>	
<b>Location:</b> <u>Meadowbank Area</u> , <b>NIRB#:</b> <u>00EN080</u>	
<b>Comments Due By</b> <u>Thursday March 16, 2000</u>	
<b>Indicate your concerns about the project proposal below:</b>	
<input type="checkbox"/> no concerns	<input type="checkbox"/> traditional uses of land
<input checked="" 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 checked="" 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	
<b>Please describe the concerns indicated above:</b>	
<i>Water quality &amp; human health issues as they apply to camp personnel. Insufficient details re: sewage &amp; solid waste disposal; potable water supply and food services. The provisions of the Camp Sanitation Regs. of the Public Health Act are in force here.</i>	
<b>Do you have any suggestions or recommendations for this application?</b>	
<b>Do you support the project proposal?</b> YES <input type="checkbox"/> NO <input type="checkbox"/>	
<b>Any additional comments?</b>	
<b>Name of person commenting:</b> <u>BRUCE TROTTER</u> <b>of</b> <u>GOVT OF NUNAVUT</u>	
<b>Position:</b> <u>ENVIRONMENTAL HEALTH SPEC.</u> <b>Organisation:</b> <u>HEALTH &amp; SOCIAL SERVICES</u>	
<b>Signature:</b> <u>B. Trotter</u> <b>Date:</b> <u>24 FEB. 2000</u>	

## 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: Meadowbank Project  
 Proponent: Cumberland Resources  
 Location: Meadowbank Area, NIRB#: 00EN080  
 Comments Due By: Thursday March 16, 2000

## Indicate your concerns about the project proposal below:

- |                                                           |                                                                 |
|-----------------------------------------------------------|-----------------------------------------------------------------|
| <input type="checkbox"/> no concerns                      | <input type="checkbox"/> traditional uses of land               |
| <input checked="" 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:

WATER MONITORING OF THIS PROJECT  
 NEED TO BE CONTROL FREQUENTLY FROM  
 N.W.B.

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

REPORT water quality monthly

Do you support the project proposal? YES ☒ NO ☐

Any additional comments?

control monitoring water  
 quality in BASES

Name of person commenting: Luis MANZO of KIA

Position: Land Management Organisation: \_\_\_\_\_

Signature: [Signature] Date: February 24/00

## 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:

<b>Project Title:</b> <u>Meadowbank Project</u>	
<b>Proponent:</b> <u>Cumberland Resources</u>	
<b>Location:</b> <u>Meadowbank Area</u> , <b>NIRB#:</b> <u>00EN080</u>	
<b>Comments Due By :</b> <u>Thursday March 16, 2000</u>	
<b>Indicate your concerns about the project proposal below:</b>	
<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	_____
<b>Please describe the concerns indicated above:</b>	
<u>70km <del>is</del> north of Baker Lake is outside of</u> <u>the Municipal Boundary, and therefore is outside of</u> <u>my jurisdiction.</u>	
<b>Do you have any suggestions or recommendations for this application?</b>	
<b>Do you support the project proposal? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/></b>	
<b>Any additional comments?</b>	
<b>Name of person commenting:</b> <u>Robert Chapple of Rankin Inlet.</u>	
<b>Position:</b> <u>Community Planner</u> <b>Organisation:</b> <u>CG+1</u>	
<b>Signature:</b> <u>Robert Chapple</u> <b>Date:</b> <u>Feb 25/00</u>	

Post-it Fax Note 7671E		Date	# of pages
To	Gladys Joudrey	From	Katherine Silcock
Co./Dept	NIRB	Co.	WED-DIAND
Phone #	983-2593	Phone #	669-2649
Fax #	983-2574	Fax #	669-2716

## 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: Meadowbank Project  
 Proponent: Cumberland Resources  
 Location: Meadowbank Area NIRB#: 00EN080  
 Comments Due By: Thursday March 16, 2000

### 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:

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

Section 8 of the application stated that drill water will be returned to the lake.  
 As per Section 2-4 of the water permit, care should be taken that any drilling wastes from land based drilling should be disposed of in a sump such that they do not enter a water body

Do you support the project proposal? YES ☒ NO ☐

Any additional comments?

Name of person commenting: KATHERINE SILCOCK of DIAND  
 Position: Project Specialist Organisation: Water Resources  
 Signature: Katherine Silcock Date: March 15/2000

COMMENT FORM FOR NIRB SCREENINGS

FEB 28 2000

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: Meadowbank Project  
Proponent: Cumberland Resources  
Location: Meadowbank Area, NIRB#: 00EN080  
Comments Due By : Thursday March 16, 2000

Indicate your concerns about the project proposal below:

- |                                                           |                                                                 |
|-----------------------------------------------------------|-----------------------------------------------------------------|
| <input 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:

Navigable Waters Proponent  
SIGNED  
NO INTEREST  
Date: April 6/00 PM

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: \_\_\_\_\_ of \_\_\_\_\_  
Position: \_\_\_\_\_ Organisation: \_\_\_\_\_  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_

## 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:** Meadowbank Gold Project \_\_\_\_\_  
**Proponent:** Cumberland Resources Ltd. \_\_\_\_\_  
**Location:** 70 km North of Baker Lake \_\_\_\_\_, NIRB#: 00EN080 \_\_\_\_\_  
**Comments Due By:** March 16, 2000 \_\_\_\_\_

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

- |                                                           |                                                      |
|-----------------------------------------------------------|------------------------------------------------------|
| <input 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:**

DSD has reviewed the permit application from Cumberland Resources and has identified several sections of the application which requires further information:

- ✓ • Section 6 - The proponent has indicated the intention to modify the bed or bank of a watercourse; and alter flow of, or store water. It should be clarified as the scope of work intended and a full description of anticipated environmental effects and suggested mitigation measures be provided.
- ✓ • Section 8 - The proponent has indicated that drill water will be returned to the lake, provided free of cuttings. This appears inconsistent with the terms and conditions of the current water license where this type of activity is prohibited. The intentions of the proponent with regard to the release of drill water should be clarified.
- ✓ • Question 15 and 16 of the questionnaire is inadequate.
- Question 33 - The proponent has indicated that minor amounts of drill salt as a potential additive. The type of and amount of drill salt in the rejected water should be provided.
- Question 62 - The proponent has indicated that a baseline data report will be soon available. Copies of all environmental reports should be sent to the Regional Wildlife Biologist in Arviat and DSD headquarters in Iqaluit.

DSD offers no opinion on the project until all necessary information is provided that adequately addresses DSD's concerns.

**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:** \_\_\_\_\_ **of**  
\_\_\_\_\_ **Sustainable Development** \_\_\_\_\_

**Position:** \_\_\_\_\_ **Organisation:** \_\_\_\_\_

**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**DEPARTMENT OF SUSTAINABLE DEVELOPMENT**



## **ENVIRONMENTAL PROTECTION SERVICE**

### **STANDARD RECOMMENDATIONS FOR LAND USE APPLICATIONS (AS APPLICABLE)**

#### **Spill Contingency Plan**

The applicant should have a contingency plan for responding to chemical and petroleum spills which might occur during the proposed activity. The plan should include a list of available spill response equipment and the names of trained personnel who will be on-site and available in the case of a spill.

The proponent is referred to DSD's *Spill Contingency Planning and Reporting Regulations* and *A Guide to the Spill Contingency Planning and Reporting Regulations*.

#### **Fuel Storage**

To prevent spreading in the event of a spill, fuel stored in drums should be located, whenever practical, in a natural depression a minimum distance of 90 feet from all streams, preferably in an area of low permeability. All fuel storage containers should be situated in a manner that allows easy access and removal of containers in the event of leaks or spills. Large fuel caches in excess of 20 drums, should be inspected daily.

#### **Chemical Storage**

All chemicals should be stored in a safe and chemically-compatible manner a minimum of 90 feet from all bodies of water. The applicant should be required to remove unused chemicals for reuse or disposal to an approved site using methods approved by the Land Use Inspector. Material safety data sheets (MSDS) should be provided for each chemical and be posted in a central location; accessible by all camp personnel. Camp personnel should be conversant in the handling of these chemicals as well as able to deal with any accidents or spills.

#### **Location of Hazardous Materials**

Hazardous materials stored on-site should be marked so they will be visible under all conditions, in all seasons. This recommendation is intended to help prevent possible injuries to camp personnel and/or damage to the containers. Unless otherwise specified by the land use inspector or licence-issuing agency, all hazardous materials should be removed from the site upon completion of the activity. The proponent is referred to DSD's *Environmental Guideline for the General Management of Hazardous Waste*.

## **Waste Oil/Waste Fuel Disposal**

Waste oil and waste fuel should be removed and returned for recycling when the land use activity is completed. Alternative methods of disposal that provide and equivalent level of environmental protection will be considered on a case by case basis.

## **Used Drums**

Used fuel and oil drums should be removed from the site, returned for deposit, or reused.

## **Contaminated Soils**

Soil contaminated by fuel (e.g., soils under an old storage tank) should be treated on site or removed to an approved disposal site and replaced with new soil. The proponent is referred to DSD's *Environmental Guideline for Site Remediation*.

## **Winter Roads**

Existing winter road routes and trails should be used whenever possible, to avoid unnecessary land clearing.

## **Drill Sumps**

The sumps should only be used for inert drilling fluids, not any other materials or substances. All effluent from sample washing site including trenches must not be allowed to flow directly into the lake/river. It should be allowed to go to a depression (sump) that does not drain in any active aquatic system. The sumps should be properly closed out.

## **Garbage Disposal**

Garbage should be removed from the camp periodically; alternatively, all combustible wastes can be incinerated on site and non-combustibles collected and removed upon termination of the activity or periodically.

### Incineration

For camps of less than 10 people, it is recommended that a draught barrel be employed to burn wastes. A draught barrel is essentially a 45 gallon drum or equivalent, with a hole in the bottom to facilitate air intake, and is closed at the top with a lid and a chimney for the exhaust. EPS does not consider burning wastes in a draught barrel to be true incineration, however, for small camps, this is an acceptable means to deal with camp wastes. The draught

barrel should be operated so that a high temperature burn is maintained at all times. This will promote complete combustion and eliminate pollutant and odor concerns.

For camps of more than 10 people, it is recommended that a forced air incinerator be used to manage wastes. Once again maintaining a high temperature burn to reduce wastes is imperative.

Kitchen wastes, cardboard, paper products, packaging and untreated wood wastes are suitable for burning in a draught barrel and a forced air incinerator. Industrial wastes and non combustible wastes should be removed from the camp and disposed of at a designated landfill or other approved facility. Under no circumstance should hazardous wastes be managed through burning or incineration.

For camps of greater than 50 people, it is recommended that a municipal waste incinerator, which produces emissions that meet CCME air quality guidelines, be used to dispose of camp wastes. The manufacturer will specify operating conditions and types of wastes that can be disposed of in the incinerator in order to meet the specified CCME standards. It is recommended that municipal waste incinerators be operated to meet manufacturer specifications.

The aforementioned comments are a brief thumbnail sketch of what DSD suggests that a proponent should be implementing to mitigate any damage or alterations to the environment during the course of their proposed activities. The proponent is referred to the Government of Nunavut's acts, regulations and environmental guidelines for a details.

### **Acts, Regulations and Environmental Guidelines**

The Environmental Protection Service, Department of Sustainable Development derives its regulatory authority and operational mandate from the Government of Nunavut's *Environmental Protection Act* (EPA). A number of regulations and guidelines have been developed and adopted under the EPA; some, or all of which might prove to be of assistance to a proponent in planning their activities. The guidelines are listed here for the information of the proponent and are available to the public at any DSD office in Nunavut or from DSD's Headquarters office located at:

Department of Sustainable Development  
Environmental Protection Service  
Government of Nunavut  
Box 1340  
Iqaluit, NU  
X0A 0H0

(867) 979-5119

e-mail: [reno@gov.nu.ca](mailto:reno@gov.nu.ca) or [ebaddaloo@gov.nu.ca](mailto:ebaddaloo@gov.nu.ca)

Acts and Regulations

*Environmental Protection Act*

*Environmental Protection Act: Simplified Summary*

*Environmental Rights Act*

*Spill Planning and Reporting Regulations*

*A Guide to Spill Contingency Planning & Reporting*

*Asphalt Paving Industry Emission Regulations*

*Pesticide Act*

*Pesticide Regulations*

*Used Oil and Waste Fuel Management Regulations* (undergoing completion;  
proposed for June 2000)

Environmental Guidelines

*Dust Suppression*

*General Management of Hazardous Waste*

*Industrial Projects on Commissioner's Lands*

*Industrial Waste Discharges*

*Ozone Depleting Substances*

*Site Remediation*

*Sulphur Dioxide & Suspended Particulates*

*Waste Antifreeze*

*Waste Asbestos*

*Waste Batteries*

*Waste Paint*

*Waste Solvents*

## **Wildlife**

### **1. Bear-People Conflicts**

The operation is in an area where bears may be encountered. Proper food handling and garbage disposal procedures should be followed to reduce the likelihood that bears will be attracted to the operation. Careful planning and attention to details of camp design and maintenance will decrease the attraction of bears to camp.

The applicant should follow procedures outlined in the "Safety in Bear Country Manual", and should contact the Regional/Area Biologist or the Renewable Resource Officer indicated below for information and advice on measures which should be taken to minimize the possibility of bear-people conflicts.

#### **DSD Contacts**

Manager, Wildlife, Fisheries

- Ian Ellsworth, (867) 857-2828

Renewable Resource Officer,

- nearest community to the land use activity

Biologist, Kivalliq Region, Arviat

- Mitch Campbell, (867) 857-2828

### **2. Caribou Protection Measures**

See attached. [Recommendation of these conditions is not restricted to the Kaminuriak and Beverly herds (i.e., they may be applied to other herds as well).]

### **3. Peary Caribou (for Banks Island and High Arctic islands; not for Victoria Island)**

Peary Caribou are a critically endangered subspecies which must not be harassed in any way. The applicant should be instructed not to harass these caribou, and to contact the Regional Biologist or Caribou Biologist in Pond Inlet (819) 979-8819 to obtain information on procedures required to prevent unintentional harassment.

### **4. Raptor Nesting Areas**



The project area includes known raptor nesting sites and other areas where it is likely that raptors nest. To minimize negative impacts of this operation on raptors, the applicant should be advised to:

- (a) take care not to disturb nesting raptors from 15 April to 1 September by staying at least 1.5 km away from them when in transit by aircraft, and to avoid approaching them closely while on foot, and
- (b) contact the Regional Biologist in Arviat (857-2828) to identify areas which should be avoided.

The following clause could be included in the covering letter: "If raptors are disturbed during the nesting period, they often abandon the eggs or young. Loud, repeated noises and close approach by humans on foot are particularly harmful."

5. Low Level Flights

Aircraft activity with no specific requirements for low level flying should be restricted to a minimum altitude of 300m above ground level.

6. Storage of Chemicals Containing Salts

Chemicals containing salts, which may attract wildlife to the site, should be stored so that they are inaccessible to wildlife.

## CARIBOU PROTECTION MEASURES<sup>1</sup>

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<sup>1</sup> Based on the Caribou Protection Measures (Qamanirjuaq and Beverly Herds) 1988, DIAND

1. (a) The Permittee shall not, without approval, conduct any activity between May 15 and July 15 within the Kitikmeot region.

(b) A Permittee may, upon approval by the Land Use Inspector (DIAND) or Land Manager (KIA), operate within the Kivalliq region beyond the May 15 deadline set out in 1(a), provided that when caribou cows are approaching the area of operation, the Permittee will implement 1 (c).

(c) During the period of May 15 to July 15, the Permittee will suspend all operations, particularly blasting, overflights by aircraft at any altitude of less than 300 metres above ground level, and the use of snowmobiles and ATV's (all-terrain vehicles) outside the immediate vicinity of the camp, and all personnel will remain quietly in camp or, upon advice from the Land Use Inspector (DIAND) or Land Manager (KIA), the Permittee will remove all personnel from the site who are not required for the maintenance and protection of the camp facilities and equipment.

(d) The Permittee may resume activities prior to July 15 if the caribou cows have ceased to use the area for calving or post-calving.

2. (a) During migration of caribou, the Permittee shall not locate an operation so as to block or cause substantial diversion to migrating caribou.

(b) The Permittee shall cease activities that may interfere with migration, such as airborne geophysics surveys or movement of equipment, until the migrating caribou have passed.

3. The Permittee shall not construct any camp, cache any fuel or conduct blasting within 10 km, or conduct any diamond drilling operation within 5 km, of any "Designated Crossing" as outlined on the map annexed to a Land Use Permit.

4. Concentrations of caribou should be avoided by low-level aircraft at all times.

***Note: These caribou protection measures are provided as guidance for land users. There are a number of ways that these measures might be used. The following is from a Kitikmeot Inuit Association land use permit and is provided for illustration:***

Protection measures would apply to industrial activity, though not necessarily tourism, outfitting or other activities. They could be implemented at least three different ways: as part of a regional land use plan (zoning); through the Nunavut Wildlife Management Board (wildlife regulations); and through terms and conditions attached to land use authorizations (land use regulations). For example, the

**Kitikmeot Inuit Association attaches caribou protection measures to permits it grants to companies seeking to work on its lands.<sup>2</sup>**

35. The Permittee is given permission to conduct the approved land use operations between May 15 and July 15, provided that when caribou and muskox cows are approaching the area of operation, the Permittee shall cease blasting, over-flights by aircraft at any altitude less than 300 meters above ground level, and the use of snowmobiles and ATV's (all terrain vehicles) outside the immediate vicinity of the camp. Other activities shall also be suspended if caribou approach the immediate vicinity of the specific operation and the monitoring work described in clause indicates that there is stress on the animals.
36. During the presence of caribou and muskox within sight and sound of a camp, all personnel will remain quietly in camp.
37. The Permittee may resume activities prior to July 15 if the caribou and muskox cows have ceased to use the area for calving and post-calving.
38. Raptor nesting sites and concentrations of nesting or moulting waterfowl should be avoided by aircraft at all times.
39. The Permittee shall not locate any operation so as to block or cause substantial diversion to migration of caribou.
40. The Permittee shall cease activities that may interfere with migration or calving, such as airborne geophysics surveys or movement of equipment, until the migrating caribou have passed.
41. The Permittee shall not conduct any operation within 5 km of any "Designated Crossing" as outlined on the map annexed to this Land Use Permit.

***From KIA Land Use Permit BHP 197C141***

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<sup>2</sup> **West Kitikmeot Regional Land Use Plan**, Draft produced for Informal Public Hearing, Ikaluktutiak (Cambridge Bay) NT, 10-11 June 1998, pg. 84.

201 23

February 22, 2000

Carmen Levi, A/Deputy Minister  
Department of Culture, Language, Elders and Youth  
Government of Nunavut  
Bag 800  
Iqaluit NT X0A 0H0

**Re: Water license application NIRB 00EN080; Meadowbank Gold Project, north of Baker Lake  
(Cumberland Resources Ltd.)**  
Due Date: March 16, 2000

Dear Ms. Levi:

At your request, the Prince of Wales Northern Heritage Centre 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.

Regards,

Original Signed By  
Charles D. Arnold

Charles D. Arnold, Director  
Culture and Heritage Division

Prince of Wales Northern Heritage Centre



c. Nunavut Impact Review Board  
Douglas Stenton, Chief Archaeologist, CLEY, Government of Nunavut

## 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 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 explorers' cairns. "Archaeological specimen" means an object or specimen found in an archaeological site of archaeological, ethnological or historical importance, interest or significance and includes explorers' 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, Iqaluit (867-979-4720) and DIAND official 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.
  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, and according to the respective jurisdictions and authorities.
  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.

**ARCHAEOLOGICAL SITE RECORD**

FIELD NUMBER:

SITE NAME:

PROJECT:

DESCRIBE LOCATION OF SITE:

TERRITORY: Nunavut

DISTRICT:

MAP REFERENCE:

JURISDICTION:

UTM:

LATITUDE:

LONGITUDE

ELEVATION:

SIZE:

CONDITION:

SITE TYPE CLASS:

- |                          |                     |
|--------------------------|---------------------|
| <input type="checkbox"/> | Prehistoric         |
| <input type="checkbox"/> | Indigenous historic |
| <input type="checkbox"/> | Historic            |
| <input type="checkbox"/> | Natural             |
| <input type="checkbox"/> | Undetermined        |

SITE FEATURES:

CULTURE:

REPORTER'S NAME AND ADDRESS:

YEAR OBSERVED:

REMARKS/SKETCH/PHOTOGRAPHS:

[Please attach a copy of the NTS map (1:250,000) with the site location clearly marked.]

Return to: Department of Culture, Language, Elders and Youth, Government of Nunavut, Bag 800, Iqaluit  
NT X0A 0H0 (867-979-4720)