

Jul-10-98 09:58A Larry Aknavigak

ᓄᓇᑭᑦ ᐃᑕᑎᑕᑎᓂᓪᑯᑦ ᑲᑎᒫᑦ/NUNAVUT IMPACT REVIEW BOARD/NUNAVUTMI KANGILNIALIANKOT ELITONHAIVEORLOTIK KATIMAYITT

July 9, 1998

To: Philippe di Pizzo
Nunavut Water Board
Gjoa Haven, NT

Re: NLRB #: 98W05N091

Mineral Exploration on Cornwallis and Devon Islands

Enclosed is the completed NIRB Screening Report regarding the water use application for Noranda Mining and Exploration for the purposes of conducting mineral exploration on Cornwallis and Devon Islands.

NIRB has screened this application for ecosystemic and socio-economic impacts of the proposal.

NDRB's indication to the Minister is:

- 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.

Please contact Joe Ahmad, Executive Director at (405) 983-2593 if you have any questions about the Screening Report.

Yours truly,

SLK

Larry Alnavigak, Chairperson
Nunavut Impact Review Board
P.O.Box 2379
Cambridge Bay, NT
XOE OCO
Tel: (403) 983-2593 Fax: (403) 983-2574



SCREENING DECISION

The decision of the Board in this case is 12.4.4 (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;

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;
- 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;

Terms and Conditions:

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

Drill Sites

1. The Permittee shall not conduct any land based drilling within thirty (30) metres of the normal high water mark of a water body.
2. 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.
3. 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).
4. 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.
5. 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.
6. The Permittee shall not locate any sump within thirty (30) metres of the normal high water mark of any water body.

7. 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.
8. 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

11. The Permittee shall ensure that the volume of fresh water for domestic purposes does not exceed 100 cubic metres per day.
12. 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

13. The Permittee shall ensure that fuel storage containers are not located within thirty (30) metres of the ordinary high water mark of any body of water.
14. 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.
15. The Permittee shall take all reasonable precautions to prevent the possibility of migration of spilled petroleum fuel or chemicals over the ground surface.
16. The Permittee shall have one extra fuel storage container on site equal to, or greater than, the size of the largest fuel container.
17. The Permittee shall examine all fuel and chemical storage containers for leaks. All leaks should be prepared immediately.
18. The Permittee shall have an emergency response and spill contingency plans in place prior to the commencement of the operation. In developing these plans the Permittee should follow the *NWT Spill Contingency Planning and Reporting Regulations* and the *Guidelines for the Management of Hazardous Wastes*. These documents are available from the Department of Resources Wildlife and Economic Development, GNWT at (867) 920-8069.
19. The Permittee shall immediately report all spills of petroleum and hazardous chemicals in accordance the Government of the NWT Spill Report to the twenty four (24) hour spill report line at (867) 920-8130 to NWB.

Waste Disposal

20. 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.
21. Any areas designated for waste disposal shall not be located within thirty (30) metres of the ordinary high water mark of any body of water, unless otherwise authorized.
22. The Permittee shall construct a sump to contain all greywater discharged and shall ensure drainage is away from any waterbody.
23. The Permittee shall incinerate all combustible and food wastes to eliminate potential for wildlife problems created by the attraction of wildlife to garbage.

24. The Permittee shall ensure that all non-combustible wastes generated through the course of the operation are backhauled and disposed of in an approved dumpsite.
25. The Permittee shall deposit all scrap metal, discarded machinery and parts, barrels and kegs, at an approved disposal site.
26. The Permittee shall not bury any metal wastes.
27. The Permittee shall dispose of all toxic or persistent substance in a manner approved by the NWB and the land use inspector.

Wildlife

28. The Permittee shall ensure that there is no damage to wildlife habitat in conducting this operation.
29. The Permittee shall not locate any operation so as to block or cause substantial diversion to migration of wildlife.
30. The Permittee shall cease activities that may interfere with migration or calving, such as airborne geophysics surveys, movement of equipment or drilling activities until the caribou and their calves have vacated the area..
31. The Permittee shall ensure that pilots adhere to recommended flight altitudes of greater than 300 m above ground level as to not disturb wildlife. In the event that caribou or muskox cows and calves are present all overflights by aircraft should be suspended. Raptor nesting sites and concentrations of nesting or molting waterfowl should be avoided by aircraft at all times.
32. 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.
33. 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.
34. The Permittee shall not obstruct the movement of fish while conducting the land use operation.
35. The Permittee shall ensure that the drill sites avoid known environmentally sensitive areas (denning, nesting etc.) by a minimum of 250 metres.

Environmental

36. The Permittee shall ensure that the land use area is kept clean and tidy at all times.
37. The Permittee shall prepare the site in such a manner as to prevent damage to the ground surface.
38. The Permittee shall ensure that mechanized clearing does not take place within thirty (30) metres of the normal high water mark of a watercourse in order to maintain a vegetative mat for bank stabilization.
39. 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.
40. The Permittee shall not use any equipment except of the type, size and number that is listed in the accepted application.
41. 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.
42. The Permittee shall suspend overland travel of equipment or vehicles if rutting occurs.

Camp

42. The Permittee shall not erect camps or store material on the surface ice of lakes or streams.
43. The Permittee shall locate all camps and storage facilities on gravel, sand or other durable land.
44. The Permittee shall follow the *Camp Sanitation Regulations* made under the authority of the Public Act of the Northwest Territories.

Archaeological Sites

45. 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.

Reclamation

46. The Permittee shall remove all scrap metal, discarded machinery and parts, barrels and kegs, buildings and building material upon abandonment.
47. The Permittee shall undertake ongoing restoration for any land or improvements which are no longer required for the Permittee's operation on the land.
48. The Permittee shall cap all drill holes and cut off any drill casings that remain above ground to ground level upon abandonment of the operation.

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. Any amendment requests deemed by NIRB to be outside the original scope of the project will be considered a new project.
4. The Environmental Protection Branch (DOE), Department of Fisheries and Oceans (DFO), 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.

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 July 12/98 at Cambridge Bay, NT


Larry Pokok Aknavigak, Chairperson

Attachment: NIRB Screening Form

2

2. Authorizing Agencies

Authorizing Agency(ies): NTI, Kivalliq I.A., Kitikmeot I.A., BRIA, NWB, NWMB, DIAND, DFO, DOE, DRWED, Other _____

(circle one or more)

Land: Inuit Owned ☒ Crown ☒ Commissioner's _____ Marine Areas _____

Type of Application: water license

(e.g., water licence, land use permit, quarry permit, lease, reserve)

Type of Approval being sought: new

(e.g., new, renewal, amendment, cancellation)

Other required approvals, permits or licences: land use permit

(e.g., water licence, land use permit, quarry permit, lease, reserve)

Present Authorizations (active): _____

(file number)

Previous Authorizations (inactive/expired): _____

(file number)

Project File Location: NWB - Philippe di Pizzo - Gjoa Haven

Office where project file is located, contact person and number

3. Project Location

Kivalliq _____ Kitikmeot _____ Baffin ☒

Land Use Planning Region: Baffin

Geographic Place Name: Comwallis Island / Devon Island

(e.g., West Kitikmeot, ...)

(nearest place name or geographic feature)

Local Name: _____

(traditional name for location)

National Topographic Sheet (NTS) Number: _____ Scale: _____

Latitude / Longitude: _____

(degrees, minutes, seconds)

Drainage Region and Watershed: _____

(nearest creek, river or lake system)

Nearest Settlement: Gnise Fjord / Resolute Bay

Adjacent Settlement / Out-post camps: _____

Surrounding Land Status: Crown; Inuit Owned

(e.g., Inuit Owned, Commissioner's, Crown)

Special Designation: _____

(Yes/No - e.g., heritage river, if yes, identify)

Does the project have Nunavut transboundary implications?: yes _____ no ☒

If yes, what additional procedures/contacts are needed? _____

3

4. Project Description and Assessment

Physical Work, Activity: Mineral Exploration, Camp, Fuel Cache.
(construction, camp, fuel cache, quarrying, harvesting, water works, installation, modification, operation, maintenance, scientific research.)

Multiple Activities: ☐ Yes ☒ No

Project Category Code: ☐ Point ☐ Multiple Points ☐ Linear ☒ Area
(circle those that apply)

Phase of Project: Operations / Exploration.
(exploration, bulk sampling, development, operations, decommissioning, abandonment/restoration)

Project Description Summary:

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

See attached Project Overview.

Alternatives Considered:

(list all alternatives to the project and/or components of the project to avoid unnecessary amendments, eg. give 2 alternatives to the location of an ice road and camp logistics)

5. The Proponent's Public Consultation Process

Description of Proponent's Public Consultation Process:

Public consultation has not yet taken place but
if introduction are being sent out and informal
meetings with communities will be arranged.

Did proponent make use of traditional knowledge?

☐ Yes ☒ No

(Please attach list of contact names and/or sources of TK)

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.

NIRB advises proponents to contact communities
prior to activities.

6. Description of the Environment

Description of Biophysical Environment:

Devon - Area of activity has minimal known wild life and
minimal Inuit use.

Conwallis - Nearby coastal cliffs used by breeding
pairs of glaucous gulls and black-legged kittiwakes May - Sept.
Small numbers of caribou and muskox found on island but
not usually in activity area.

Description of Socio-Economic and Cultural Environment:

Devon - Area has minimal Inuit use.

Conwallis - Area used by residents of Resolute
Bay for travel year-round.

7. NIRB's Consultation Process

Date application referred for comments:

15 June 1998

Deadline for comments:

6 July 1998
(yyyy-mm-dd)

Distribution List:

Referral sent to:

Date comments received:

Contact Person

(yyyy-mm-dd)

NUNAVUT

☒ NTI☒ QIA☐ Kivalliq IA☐ Kitikmeot IA☒ NPC☒ NWB☒ NWMB☒ RWO/HTO☒ Inuit Heritage Trust☒ RLO☒ Community(s)Hamlet Grise Fiord, Resolute Bay☐ HTO☐ CLARC☐ Other?

FEDERAL:

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

GNWT

☒ DRWED☒ Transport☒ MACA☒ PWNHC☐ Other? (Health,
Soc.Serv., ECE.)TRANSBOUNDARY
PARTIES

OTHER PARTIES

8. 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
 - ☐ construction
 - ☐ abandonment/removal
 - ☐ modification e.g., widening
 - ✓ ☒ automobile, aircraft or vessel movement
 - ☐ 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 _____
 - ✓ ☒ possibility for accidents or malfunctions.
- Describe. fuel spill
-
- ☐ 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/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 _____

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?

NO 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
_____	<u>All screening report terms</u>
_____	<u>and conditions</u>
_____	_____
_____	_____
_____	_____
_____	_____

10

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)

Prepared By: _____ Date: _____
Screener (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.

12

18. Terms and Conditions

If the determination is 12.4.4 a), NIRB's terms and conditions include:

All screening decision report

19. Authorization

Approved By:

[Signature]
(NIRB Decision Maker)

Date:

98-07-10

(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/Calyx system?

Has screening report information been forwarded to NPC and NWB, for addition to their Project Registry?

SCREENING COMMENTS

Projectile Title: Mineral Exploration - Cornwallis & Devon Is.

Proponent: Noranda - Mining and Exploration Inc.

Location: Cornwallis & Devon Is.

NIRB #: 98W05N091

Due Date: July 6, 1998

Comments:

Project is too small to be captured by *NWT Waters Act* and its Regulations. All water related concerns are adequately addressed under associated LUP issued.

~~It seems the applicant may find it rather difficult to hand dig a suitable latrine.~~

In addition, it is inappropriate for the applicant to use 'similar to Polaris Mine' in answering question 22 + 24 as this does not directly answer the question and provides no information unless the reviewer knows anything about the Polaris site.

Also, in reply to question 20, the applicant states, although it is not the appropriate section, that salt will be filtered from the drill water. I don't think that this is correct. The only technology that I know of to remove salt from a solution is distillation or reverse osmosis over a semi-permeable membrane.

Note: I believe that the applicant is already conducting exploration work at this site.

By: Paul Smith
Water Resources Officer
DIAND Nunavut District
(867)-979-4405 voice
(867)-979-6445 fax
smithp@inac.gc.ca

Date: July 6/98



Education, Culture and Employment

201 23

June 18, 1998

Jaida Edwards
Environmental Assessment Screener
Nunavut Impact Review Board
Box 2379
Cambridge Bay NT X0E 0C0

Fax: 867-983-2594
Due date: July 16, 1998



Re: NIRB 98W05N091; Water License application for mineral exploration on Cornwallis and Devon islands (Noranda Mining and Exploration)

Dear Ms. Edwards:

Pursuant to A.s. 33.5.12 of the Nunavut Land Claim Agreement, the Prince of Wales Northern Heritage Centre gives consent for approval of the above-cited land use application.

There are several archaeological and historical sites in the general area of the proposed activity but none in the specific locations of the drill holes. The proponent's proposed activities should not constitute a threat to known archaeological resources as long as the attached conditions are followed with due diligence.

Under A.s. 33.5.13, 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,

Charles D. Arnold, Director
Culture and Heritage Division

Prince of Wales Northern Heritage Centre



ARCHAEOLOGICAL RESOURCES: TERMS AND CONDITIONS BACKGROUND

- I. The archaeological record of the Inuit of the Nunavut Settlement Area 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 the Nunavut Settlement Area 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 the Nunavut Settlement Area 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 the Nunavut Settlement Area 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 Arctic Archaeologist at the Prince of Wales Northern Heritage Centre (867-873-7551) 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 Prince of Wales Northern Heritage Centre (PWNHC).
 5. The permittee shall follow the direction of the Prince of Wales Northern Heritage Centre and DIAND in restoring disturbed archaeological sites to an acceptable condition, and according to the respective jurisdictions and authorities of the PWNHC (Article 33, Nunavut Land Claim Agreement) and DIAND Land Administration Division (Territorial Land Use Regulations).
 6. The permittee shall provide information to the Prince of Wales Northern Heritage Centre 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: Northwest Territories

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:

Return to: Prince of Wales Northern Heritage Centre, Yellowknife, Northwest Territories X1A 2L9
Telephone: 867-873-7551; Fax: 867-873-0205

Fisheries and Oceans
CanadaPêches et Océans
Canada

Box 358
Iqaluit, NT.
X0A 0H0

Ph: (403) 920-8841
Fc: (403) 873-8871

June 28, 1998

Jalda Edwards
Environmental Assessment Screener
Nunavut Impact Review Board
P.O. Box 2379
Cambridge Bay, NT
X0E 0C0

Re: **Mineral Exploration: Cornwallis and Devon Islands**
NIRB: 98W05N091
Letter of Advice

The Department of Fisheries and Oceans, Habitat Management, (DFO-HM) has reviewed the information submitted with the above application. DFO's assessment takes into consideration fish and fish habitat related concerns only.

On the basis of the information provided, it has been determined that the above project has the potential to affect fish or fish habitat pursuant to the Fisheries Act. It has also been concluded that the potentially adverse environmental effects that may be caused by the proposal are mitigable with known technology. Factors to consider when developing measures to mitigate any potentially adverse effects on fish and fish habitat may include, but are not limited to, the following:

1. The harmful alteration, disruption or destruction of fish habitat is prohibited under Section 35 of the Fisheries Act unless authorized by regulation. No disturbance of the bottom or banks of any definable watercourse is permitted unless authorized by DFO.
- DFO recommends that mechanized clearing not be permitted within 30 metres of the normal high water mark of a watercourse in order to maintain a vegetative mat for bank stabilization.
2. The deposition of deleterious substances into water bodies frequented by fish is prohibited under Section 36 of the Fisheries Act unless authorized by regulation. The proponent shall, therefore, ensure that any chemicals, fuel or wastes associated with the proposed project do not enter any such waters.
- DFO recommends that all sumps, wastes, sewage containment's and fuel caches be located a minimum of 30 metres from the normal high water mark of any water body, and be sufficiently bermed or otherwise contained to ensure that these substances do not enter a waterway.
- The permittee shall have one extra fuel storage container on site equal to, or greater than, the size of the largest fuel container

- Slash or debris should be disposed of above the high water mark so that it does not enter any waterway.
- The permittee shall not deposit or permit the deposit of sediment into any water body.
- 3. If artesian flow is encountered during drilling, drill holes should be plugged and permanently sealed upon project termination.

DFO should be notified of any changes in plans or operating conditions associated with this land use activity which may adversely affect fish or fish habitat.

If the proposed work is carried out as described in the information provided to the Department of Fisheries and Oceans and appropriate mitigation measures are implemented, the proposed work will not be considered as contravening Section 35(1) of the Fisheries Act which reads:

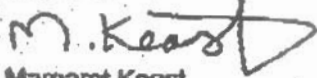
"No person shall carry on any work or undertaking that results in the harmful alteration, disruption or destruction of fish habitat."

Failure to comply with any of the above conditions and failure to implement measures to mitigate adverse impacts may result in the harmful alteration, disruption, or destruction of fish habitat in contravention of the Fisheries Act subject to prosecution under Section 35(1) of the Fisheries Act.

Please note that none of the foregoing should be taken as authorization of the undertaking in accordance with the Fisheries Act or any other applicable legislation.

If you have any questions, concerns or comments with respect to the above, please contact me at the number above.

Regards,



Margaret Keast
Habitat Management Biologist, Nunavut Area

cc: Gary Weber (Area Manager, DFO - Nunavut Area)

-2-

concentration of different species of wildlife. Some contaminants that are contained in their original containers maybe decaying and further seepage may occur, therefore may further affect wildlife in the surrounding area.

Sincerely



Rebecca Mike
Assistant Director of
Wildlife Management