

- - - - - 9086 F I J... MT /EWAIIOWTTEPAW MIIMATLAMI XOE OEO * N% LPLC/MHMA/HVAYAOA:(867) 983-2593 • TOLU' P% MIPC/Fox/FAX-MOT:(867) 983-2594



SCREENING DECISION

Δ*Δ*Δ* Δ*Δ*Δ* / P.O. Box 2379 Cambridge Bay, NT / EKALUKTUTIAK, NUNATAMI XOE DCO • Δ*Δ*Δ* / Phone/HIVAYAOYA: (867) 983-2593 • Δ*Δ*Δ* Δ*Δ*Δ*Δ*Δ*Δ* / fax/FAX-KOT: (867) 983 2594

Reasons for Decision:

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

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

Terms and Conditions:

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

Drill Sites

1. The 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 conduct any the lake-based winter drilling, in accordance with the Interim Guidelines for On-ice drilling.
3. The Permittee shall ensure that all drill cuttings are removed from ice surfaces.
4. 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.
5. 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. The Permittee shall ensure that drilling wastes do not enter any water body.
6. The Permittee shall ensure that the sump/depression capacity is sufficient to accommodate the volume of waste water and any fines that are produced so that there will be no additional impacts.
7. The Permittee shall not locate any sump within thirty (30) metres of the normal high water mark of any water body.
8. 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.

**CARIBOU PROTECTION MEASURES
(QAMANDJUAQ AND BEVERLY HERDS) 1988**

1. (a) The Permittee shall not, without approval, conduct any activity between May 15 and July 15 within the Caribou Protection Areas depicted on the map certified by the Engineer as the "Caribou Protection Map" annexed to this Land Use Permit.

**CARIBOU
PROTECTION
AREAS**

- (b) A Permittee may, upon approval by the Land Use Inspector, operate within the said Caribou Protection Areas beyond the May 15 deadline set out in 1(a), provided that when monitoring information indicates that caribou cows are approaching the area of operation, the Permittee will implement 1(c).
- (c) On cessation of activities pursuant to 1(a) or 1(b), the Permittee will remove all personnel from the zone who are not required for the maintenance and protection of the camp facilities and equipment unless otherwise directed by the Land Use Inspector.
- (d) The Permittee may commence or resume activities prior to July 15 within those parts of the Caribou Protection Areas released by the Land Use Inspector for the reason that caribou cows are not expected to use those parts for calving or post-calving (note 1).

- 2 -

2. (a) In the event that caribou cows calve outside of the Caribou Protection Areas, the Permittee shall suspend operations within the area(s) occupied by cows and/or calves between May 15 and July 15. CARIBOU PROTECTION GENERAL
- (b) In the event that caribou cows and calves are present the Permittee shall suspend:
- (i) blasting,
 - (ii) overflights by aircraft at any altitude of less than 300 metres above ground level, and
 - (iii) the use of snowmobiles and ATV's (all-terrain vehicles) outside the immediate vicinity of the camp.
3. (a) During migration of Caribou, the Permittee shall not locate any operation so as to block or cause substantial diversion to migration. CARIBOU PROTECTION MIGRATION
- (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.
4. (a) The Permittee shall not, between May 15 and September 1, construct any camp, cache any fuel or conduct any blasting within 10 km or any "Designated Crossing" as outlined on the map certified by the Engineer as the "Caribou Protection Map" and annexed to this Land Use Permit. CARIBOU CROSSING

- 3 -

- (b) The Permittee shall not, between May 15 and September 1, conduct any diamond drilling operation within 5 km of any "Designated Crossing" as outlined on the map certified by the Engineer as the "Caribou Protection Map" and annexed to this Land Use Permit.

NOTE

1. The Land Use Inspector's decision will be based on the existing caribou information.
2. Concentrations of caribou should be avoided by low level aircraft at all times.

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NUNAVUT IMPACT REVIEW BOARD
SCREENING FORM

1. General File Information on Screening

NIRB #: 99EN129 (yy-xxx) Authorizing Agency #(s): DIAND
permit or licence #

N1999C0005

Project Title: Mineral Exploration
Title of Project

Proponent: _____
Company/Applicant

Proponent's Address: Navigator Exploration Corp.
1115-355 Burrard St.
Vancouver, BC. V6C 2G8
Full Address

Contractor: _____
Company / persons doing the work if different from the proponent
address and contact numbers

Proposed Starting Date of Activity: 1999, Jan. 5
(yyyy-mm-dd)

EA Starting Date: 1999, Jan. 19
Date application accepted (yyyy-mm-dd)

Date Application Referred for Comments: 1999, Jan. 19.
(yyyy-mm-dd)

Deadline for Comments: 1999, Feb. 10.
(yyyy-mm-dd)

NIRB's EA Indication: 12.4.4 (a)

Date of Indication: Feb 15, 1999
(yyyy-mm-dd)

Project Cancelled: Yes, Give Reason _____

Comments: _____

(October 1998 version) Nunavut Impact Review Board Screening Form

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: Gjoa Haven Phillip P di Pizzo
Yellowknife, Sandra Bradbury
 (office where project file is located, contact person, number)

Land Status: Inuit Owned _____ Crown _____ Commissioner's X Marine Areas _____

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

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

Other required approvals, permits or licences: Water Licence
 (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 X Kitikmeot _____ Baffin _____

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

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

Local/Traditional Name: _____

National Topographic Sheet (NTS) Number: 65G/1b Scale: 1:50,000

Latitude/Longitude: 61°45'98"00' 62°00'98"45'
 (degrees, minutes seconds)

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

Nearest Settlement: Arviat

Adjacent Settlement/Out-post camps: _____

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

Does the project have Nunavut transboundary implications? Yes _____ No X

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

4. Project Description and Assessment

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

Multiple Activities: Yes ✓ No

Project Category Code: Point Multiple Points Linear Area

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

Project Description Summary (non-technical):

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

Attach Project Overview (English and Inuktitut)

Alternatives Considered:

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

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

Note in application they will be contacting Rankin.

Did proponent make use of traditional knowledge? Yes No ✓

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

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

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

Arviat is closest community to project. Consultation
not done prior to submission of applications (proponent should
be encouraged to do so)

January 19, 1999

To: Kivalliq Distribution List via fax.

Re: NIRB: 99EN129

Project: Mineral Exploration, Nowyak Lake

Proponent: Navigator Exploration Corp.

Region: Kivalliq (61°45'N 98°00'W, 62°00'N 98°45'W)

Project Overview:

The Navigator Exploration Corporation would like to do mineral exploration at Nowyak Lake. They propose to drill three to six holes at the depth of 300 to 500 metres at Komatic Lake. A baseline and grid will be set up at the Komatic Lake, roughly 2 kilometres northeast of the camp. A twelve-person camp will be set up at the northern tip of Nowyak Lake, which will be setup on April 1st, 1999. Summer operations consist of prospecting, mapping and sampling within a radius of 30 kilometres of base camp.

All garbage will be burned in a barrel and buried in pit. Sewage and gray water will be buried in pit. Drums will be stored 50 to 100 metres from shoreline. Any spillage, which will occur, will be confined to this area and will be dealt with by removal of the contaminated material and burning and burial within the garbage pit. A hand pump will be used to transfer fuel to skidoos etc. Fuel barrels will be transported by skid for use with drilling.

1999 Activity Schedule:

January to December 31, 1999

Equipment to be used:

Prospector Diamond Drill 6' by 12' by 6'
Drill includer water pump 250 lbs drill
3 sleeping tents 14' X 16'
1 kitchen tent 14' X 16'
1 dry tent '14 X 16'
2 snowmobiles

Fuel on site:

Diesel - 15 containers/ 45 gallons each
Gasoline - 5 drums/ 45 gallons each
Propane - 4 large propane cylinders/ 100 lbs. Each

6. Description of the Environment

Description of Biophysical Environment

The caribou of have migrated through this area in spring and fall, as they move between the calving areas near Kaministiquia Lake and the wintering ranges in northern Saskatchewan and Manitoba. Parts of the herd occasionally have used the area east of Henik Lake as a tundra wintering range. The area around South Henik Lake is an important resting area.

Description of Socio-Economic and Cultural Environment

The Carnecks Lake and Noyak Lakes are well-known fish lakes and are sometimes visited.

7. NIRB's Consultation Process

Date application referred for comments:

January 19, 1999

(yyyy-mm-dd)

Deadline for comments:

February 10, 1999

(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 Arviat
☒ HTO Arviat
☐ Other?

Rebecca Mike

Feb 09/99

Verbal Approval
Verbal approval

Feb 10/99
February 10/99

FEDERAL:

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

Paul Smith
Margaret Keast
Wade Romanko

January 28/99
January 25/99
Feb 09, 1999

R.A. McLean

Feb 10, 1999

GNWT:

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

Mary Brown
Charles Arnold

January 22, 1999
Feb 10/99

TRANSBOUNDARY
PARTIES

BQCMB

S. Osanburg

Feb 15/99

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
- ☐ 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 slopes
- ☐ soil testing
- ☐ topsoil, overburden or soil
 - ☐ fill
 - ☐ disposal
 - ☐ removal
 - ☐ storage
- ☐ tunnelling/underground
- ☒ other, explain camp

☒ possibility for accidents or malfunctions. Describe.

potential fuel spills

☒ effects of environment on project (e.g., flooding).

Describe. ice conditions

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 _____

Describe biophysical and socio-economic and cultural effects identified from check-list.

Environmental Effect	Describe
#12.	Potential to impact archaeological resources. See DUNHE Comments for #12's
#15 / #25	Grey water and sewage are proposed to be deposited into a sump. potential to drain/leach into potable water supply. Latrines should be used and located away from drinking water supply drill waste should be contained in a sump
#25	Wastes (non combustible) are proposed to be landfilled. All wastes should be hauled to an approved dumpsite or disposal facility
#30	possibility of soil compaction from movement of equipment and at camp
#32 / #24	Caribou migrating through area in spring and fall may avoid area due to noise from exploration activities. Exploration activity schedule should avoid key migration times.

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
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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 _____

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? 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*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? Will the project have an effect on the water quality of the watershed? *possibly*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

	<i>See Screening Decision Report</i>
	<i>Terms and 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 (NPC)
- ☒ previous similar projects
- ☐ service organizations
- ☐ media monitoring
- ☐ experts
- ☐ other _____

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

15. Staff Recommendations

Staff Recommendations: (include rationale)

The Project Proposal should have little or no significant impacts if the terms and conditions in the screening decision report are adhered to.

Prepared By: JALDA EDWARDS Date: February 10, 1999
Screening (yyyy-mm-dd)

16. NIRB'S Principles

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

17. Indication to the Minister (12.4.4)

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

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

18. Terms and Conditions

If the determination is 12.4.4 (a), NIRB's terms and conditions include those listed in the Screening Decision Report.

Specific Terms and Conditions to note include:

19. Authorization

Approved By: _____

(NIRB Decision Maker)

Date: _____

99-02-17

(mm-dd-yy)

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?

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: Mineral Exploration - Nowyok Lake

Proponent: Navigator Exploration Corporation

Location: Arviat, Kivalliq

NIRB#: 99EN129

Comments Due By: Wednesday, February 10, 1999

Indicate your concerns about the project proposal below:

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

Please describe the concerns indicated above:

Camp & drilling activity may affect caribou migration toward calving grounds in mid-April.

Do you have any suggestions or recommendations for this application?

Do you support the project proposal? YES ☒ NO ☐

Any additional comments?

Assume this is all ground-based activity.

Name of person commenting: S. Oslenburg of BQ Board

Signature: S. Oslenburg Position: Vice-Chair Date: 15.02.99



Fisheries and Oceans
Canada

Pêches et Océans
Canada

Coast Guard

Garde côtière

Central & Arctic Region

Région du Centre et de l'Arctique

201 N. Front Street, Suite 703
Sarnia, Ontario
N7T 8B1

Your file Votre référence

NIRB 98YN129

Our file Notre référence

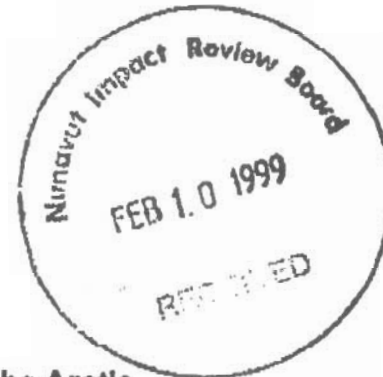
8200-16-1

January 25, 1999

Nunavut Impact Review Board
PO Box 2379
Cambridge Bay, NT X0E 0C0

Attention: Jaida Edwards

Dear Sir/Madam:



Re: Thickness and Continued Presence of Sea Ice in the Arctic

Reference is made to your letter concerning the above noted project.

We have reviewed the information supplied and can advise the Canadian Coast Guard has no interest in this project.

If you have any questions or wish further information, please contact this office at (519) 383-1863 or fax (519) 383-1989.

Yours truly,

R.A. McLean
Inspections Supervisor
Navigable Waters Protection

RAM/nav

Canada

COMMENT FORM FOR NIRB SCREENINGS

On behalf of the Environmental Protection Branch (EPB), Environment Canada, I have reviewed the information submitted with the above application. EPB's contribution for specialist advice is based primarily on the mandated responsibilities for the enforcement of Section 36 of the *Fisheries Act* and the *Canadian Environmental Protection Act (CEPA)*.

Project Title: Mineral Exploration - Nowyok Lake
Proponent: Navigator Exploration Corporation
Location: Arviat Kivalliq **NIRB#: 99EN129 / NWB**
Comments Due By: Wednesday, Feb 10/99

Indicate your concerns about the project proposal below:

- ☐ water quality
☐ fish and their habitat

Please describe the concerns indicated above:

Based on the information provided, EPB believes that the above noted project has the potential to affect fish pursuant to the *Fisheries Act*. It is a requirement of Section 36 of the *Fisheries Act* that all effluent discharge into water frequented by fish be non-deleterious.

Do you have any suggestions or recommendations for this application?

1. The proponent shall ensure that any chemicals, fuel or wastes associated with the proposed project do not enter waters frequented by fish. All sumps and fuel caches should be located a minimum of thirty (30) metres from the normal high water mark of and in such a manner that they do not enter any such waterbody. Portable secondary fuel containment structures should be used in the fuel storage for added spill protection.
2. Drilling wastes from land-based drilling shall be disposed of in a sump such that they do not enter any waterbody. Sump construction for this application is lacking sufficient detail such as sump capacity/volume, liner materials, and equipment used in the sump construction.
3. The deposition of slash, debris or sediment into any waterbody is prohibited. These materials shall be disposed of above the high water mark in such a fashion that they do not enter the water.
4. If artesian flow is encountered, drill holes shall be plugged and permanently sealed upon project termination.
5. All solid wastes and waste oils must be disposed of in an approved and environmentally safe manner, burning in an incinerator is the preferred method.

6. EPB shall be advised of any material changes to plans or operations associated with this project.

Name of person commenting: Wade Romanko of Environmental Protection
Branch

NWT Division

Position: Aquatic Environmental Officer

Organisation: Environmental Canada

Suite 301, 5204-50th Ave., Yellowknife NWT

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: Mineral Exploration - Nowyak LakeProponent: Navigator Exploration CorporationLocation: Arviat, KivalliqNIRB#: 99RN129Comments Due By: Wednesday, February 10, 1999

Indicate your concerns about the project proposal below:

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

Please describe the concerns indicated above:

Waste water can be disposed of into a sump per LUP conditions. Sewage disposal into a pit is unacceptable. At a minimum, a latrine located in an area that does not leach back into Nowyak Lake, or located in such a manner that any seepage is a sufficient distance from the intake from the camp's potable water supply. Given the information about the terrain selected for the camp site, a latrine is feasible. However, timing (spring activity) will mean that for the first stage, another solution for the disposal of sewage must be found.

The use of a 45 gal. drum is not sufficient for the burning of garbage. A drum modified to form a more efficient incinerator is the minimal acceptable. Furthermore, landfilling of waste (even incinerated waste) is not acceptable. All wastes must be backhauled to an acceptable waste disposal site (in this case, the closest waste disposal site is located in the Hamlet of Arviat, but the project sounds like it is being supported out of Yellowknife).

Do you support the project proposal? YES ☒ NO ☐

Any additional comments?

Abandonment and Restoration information provided in section #38 is different than proposed waste disposal methods described in section #32.

Name of person commenting: Paul Smith of DIAND
Signature: Paul Smith Position: Water Resources Officer Date: Jan. 27/99

Fisheries and Oceans
CanadaPêches et Océans
Canada

FAXED

Box 358
Iqaluit, NT.
XOA OHO
Ph: (819) 979-8274
Fax: (819) 979-4539

January 22, 1999

Jaida Edwards
Nunavut Impact Review Board
P.O. Box 2379
Cambridge Bay, NT
XOE OCO

Re: Mineral Exploration/Diamond Drilling - Nowyak Lake
NIRB: 98EN129

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 impacts on fish and fish habitat only.

On the basis of the information provided, DFO has determined that the above project has the potential to affect fish or fish habitat pursuant to the Fisheries Act. Under Section 12(3) of the Canadian Environmental Assessment Act, DFO as a federal authority is required to provide specialist information or knowledge to the responsible authority.

DFO has concluded that the potentially adverse environmental effects that may be caused by the proposal are mitigable with known technology, in which case the proposal may proceed with the following conditions:

1. The deposition of deleterious substances into water bodies frequented by fish is prohibited under Section 36 of the Fisheries Act. The proponent shall ensure that any chemicals, fuel or wastes associated with the proposed project do not enter any such waters. DFO recommends that all sumps, wastes and fuel caches be located a minimum of thirty (30) metres from the normal high water mark of any such water body.
2. The harmful alteration, disruption or destruction of fish habitat is prohibited under the Fisheries Act. No construction or disturbance of any stream/lake bed or banks of any definable watercourse is permitted unless authorized by DFO.

3. No drilling is to be done within thirty (30) metres of the high water mark of any water body or watercourse.
4. If artesian flow is encountered, drill holes shall be plugged and permanently sealed upon project termination.
5. Drilling wastes shall not be allowed to enter any water body.
6. Disposal of chemical additives or drilling muds shall be in a sump such that they do not enter any water body.
7. DFO recommends that mechanized clearing not be permitted within thirty (30) metres of the normal high water mark of any stream or lake.
8. The deposition of slash, debris or sediment into any water body is prohibited. These materials shall be disposed of above the high water mark in such a fashion that they do not enter the water.
9. Winter lake/stream crossings shall be located to minimize approach grades. Cuttings or filling of crossing approaches shall not be permitted unless approved by DFO.
10. Winter lake/stream crossings shall be constructed entirely of ice and snow materials or as authorized by DFO. All winter crossings shall be removed prior to spring breakup.
11. The permittee shall not erect camps or store material on the surface ice of streams or lakes.
12. Fuel and lubricants shall be kept in a sump located a minimum of thirty (30) metres from the normal high water mark and such that they do not enter any water body.
13. Disposal of all sewage shall be in a sump located a minimum of thirty (30) metres from the normal high water mark and such that they do not enter any water body. Please refer to recommendations for sewage and greywater sumps written in the draft Remote Site Protocols.
14. All spills of oil, fuel, or other deleterious materials shall be reported immediately to the 24 Hour Spill Line at (867) 920-8130.
15. DFO shall be notified of any changes in plans or operation conditions associated with this land use activity which may adversely affect fish or fish habitat.
16. The proponent shall follow the Interim Guidelines for On-Ice Drilling in the NWT for all On-Ice Drill Operations. They are as follows:

Interim Guidelines for On-Ice Drilling in the NWT

1. All drill cuttings shall be removed from the ice surface.
2. The release of total suspended solids to the receiving environment should be in compliance with the Guidelines for Total Suspended Solids contained in the Canadian Council of Ministers of the Environment (CCME) Canadian Water Quality Guidelines Chapter 3 - Freshwater Aquatic Life.
3. In addition, for drilling in kimberlite deposits, toxicity testing will be done on the effluent from the drilling operation.

I would like to comment on other concerns within the application:


1. The garbage disposal method indicated is burning in a barrel then burial. It is recommended that the minimum incineration method used be a modified 45-gallon drum (refer to draft Remote Site Protocols). Burial of burnt garbage is discouraged, it is recommended this be stored in empty fuel containers and back-hauled to the land fill site in Yellowknife.
2. The fuel contingency plan indicates the method to be used is removal of contaminated material from the spill area, burning it then burial. It is recommended that contaminated material be stored in empty fuel drums and back-hauled to Yellowknife, where it can be disposed of accordingly.
3. Reference is made to removal of all empty fuel drums. Please have the proponent indicate what is to be done with full or partially full fuel drums upon completion of the project.

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.

Failure to comply with any of the above conditions may result in the harmful alteration, disruption, or destruction of fish habitat, and/or the deposit of deleterious substances into fish bearing waters in contravention of the Fisheries Act.

If you have any questions, concerns or comments with respect to the above, please contact me at (867) 978-8007.

Regards,



Margaret Keast
Area Habitat Management Biologist
Nunavut Area

cc. Area Manager, G. Weber
cc. Chief Conservation & Protection Officer, W. Filatre



Northwest
Territories Municipal and Community Affairs
Keewatin Region

File No.: 24 315 100

January 22, 1999

Nunavut Impact Review Board
PO Box 2379
Cambridge Bay, NT

Dear Sir:

Re: Mineral Exploration -- Nowyak Lake
NIRB: #98 EN 130

In response to your referral on the above-noted project, please be advised that the projects has been reviewed from a Community Planning perspective and I am prepared to offer the following comment:

1. Our interests are unaffected.

Should you have and further questions or concerns, please feel free to contact the undersigned.

Yours truly,

Robert Chapple
A/Community Planner
MACA, Kivalliq Region



Northwest
Territories Education, Culture and Employment

201 23

February 5, 1999

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



Fax: 867-983-2594
Due date: No date specified

Re: NIRB 98EN130; Land use application for mineral exploration at Nowyak Lake (Navigator Exploration Corporation)

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.

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:

- ☐ Prehistoric
- ☐ Indigenous historic
- ☐ Historic
- ☐ Natural
- ☐ 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: Prince of Wales Northern Heritage Centre, Yellowknife, Northwest Territories X1A 2L9
Telephone: 867-873-7551; Fax: 867-873-0205

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: Mineral Exploration - Nowyak Lake

Proponent: Navigator Exploration Corporation

Location: Arviat, Kivalliq

NIRB#: 99EN129

Comments Due By: Wednesday, February 10, 1999

Indicate your concerns about the project proposal below:

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

Please describe the concerns indicated above:

Do you have any suggestions or recommendations for this application?

Renewable Resources can provide 45 gal. drums filter drainage for gray water. This can prevent attracting grizzly bears in coming into to the camp.

Do you support the project proposal? YES ☒ NO ☐

Any additional comments?

Name of person commenting: Rebecca Mike

of Arviat

Signature: [Signature]

Position: Asst. Director

Date: 9-02-99

Nunavut

ᐱᕐᓴᕐᑎᑏᕐ, ᓄᓇᑖᑦ/P.O. Box 2379 Cambridge Bay, NT/EKALUKTUTIAK, NUNATAMI XOFC OCO = ᐅᕐᓴᕐᑎᕐ/Phone/HIVAYAOTA: (867) 983-2593 • ᑎᑎᕐᓴᕐ ᐅᕐᓴᕐᑎᑏᕐ/Fax/FAX-KOT: (867) 983-2594