





FEB 1/21

ᠴᡆ᠑ᢆᠮ ᠙ᡥᠬᡄᠬᠣᡲ᠘ᡩ ᡰᡣ᠘ᡷᠬ᠕ᠬᠬᠳ᠘ᠮIMPACT REVIEW BOARD/NUNAVUTMI KANOGILIVALIANIKOT ELITTOHAIYEOPLOTIK KATIMAYIIT

February 8, 2002

To: Rita Becker

Licensing Administrator Nunavut Water Board Gjoa Haven, NU

Re: Mineral Exploration on the Brodeur Peninsula NIRB: 02EA002 NWB: NWB2BRO010

Enclosed is the completed NIRB Screening Decision Report on a water use and waste disposal associated with mineral exploration on the Brodeur Peninsula.

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

NIRB's indication to the Minister 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;

Please contact me at (867) 983-2593 if you have any questions about the Screening Decision Report.

Yours truly,

Gladys Joudrey

Environmental Assessment Officer Nunavut Impact Review Board ユロウド マクロース ロップ・ トロニン・/ NUNAYUT IMPACT REVIEW BOARD/NUNAYUTMI KANOGILIVALIANIKOT ELITTOHAIYEOPLOTIK KATIMAYIIT
SCREENING DECISION

Date: February 8, 2002

Mr. Thomas Kudloo Chairperson, Nunavut Water Board Gjoa Haven, NT

Dear Mr. Kudloo:

RE: Screening Decision of the Nunavut Impact Review Board (NIRB) on Application:
NIRB 02EA002 NWB NWB2BRO0101 DIAND N2001C0026
Mineral Exploration on the Brodeur Peninsula

Authority:

Section 12.4.4 of the Nunavut Land Claim Agreement states:

Upon receipt of a project proposal, NIRB shall screen the proposal and indicate to the Minister in writing that:

- 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.

Primary Objectives:

The primary objectives of the Nunavut Land Claims Agreement are set out in section 12.2.5 of the Land Claims Agreement. This section reads:

In carrying out its functions, the primary objectives of NIRB shall be at all times to protect and promote the existing and future well-being of the residents and communities of the Nunavut Settlement Area, and to protect the ecosystemic integrity of the Nunavut Settlement Area. NIRB shall take into account the well-being of the residents of Canada outside the Nunavut Settlement Area.

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:

- storage and disposal of chemicals, fuel, garbage, sewage, and gray water, and impact of these
 on the ecosystem;
- the impact of noise from helicopter and exploration 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 upon abandonment.

Terms and Conditions:

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

Drill Sites

- 1. The Licensee shall not conduct any land based drilling within thirty-one (31) metres of the normal high water mark of a water body.
- 2. The Licensee shall not use drilling muds or additives in connection with drill holes unless they are recirculated or contained such that they do not enter the water, or are certified to be non-toxic.
- The Licensee shall ensure that any drill cuttings and waste water that cannot be recirculated be disposed of in a properly constructed sump or an appropriate natural depression that does not drain into a waterbody.
- 4. The Licensee shall ensure that drilling wastes do not enter any water body. The use of biodegradable, salt free drill additives is encouraged over non-biodegradable types.
- 5. The Licensee shall ensure that the release of total suspended solids in the receiving environment shall be in compliance with Guidelines for Total Suspended Solids contained in the Canadian Council of Ministers for the Environment's (CCME) Canadian Water Quality Guidelines, Chapter 3 Freshwater Aquatic Life (i.e. 10mg/L for lakes with background level under 100mg/L, or 10% for those above 100mg/L).
- The Licensee shall ensure that the sump/depression capacity is sufficient to accommodate the volume of waste water and any fines that are produced so that there will be no additional impacts.
- 7. The Licensee shall not locate any sump within thirty-one (31) metres of the normal high water mark of any water body.
- 8. The Licensee shall ensure that disturbance of vegetation from deposit of drill fluids/cuttings is restricted to the area of the sump and the ground prepared for revegetation upon abandonment.
- 9. The Licensee shall, where flowing water from bore holes is encountered, plug, the bore hole in such a manner as to permanently prevent any further outflow of water. The

occurrence shall be reported to the Nunavut Water Board and Land Use Inspector within 48 hours.

Fuel Storage

- 10. The Licensee shall ensure that fuel storage containers are not located within thirty-one (31) metres of the ordinary high water mark of any body of water.
- 11. The Licensee shall ensure that any chemicals, fuels or wastes associated with the project do not spread to the surrounding lands or enter into any water body.
- 12. The Licensee shall 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.
- 13. The Licensee shall take all reasonable precautions to prevent the possibility of migration of spilled petroleum fuel or chemicals over the ground surface.
- 14. The Licensee shall examine all fuel and chemical storage containers daily for leaks. All leaks should be prepared immediately.
- 15. The Licensee shall seal all container outlets except the outlet currently in use. The Licensee shall mark all fuel containers with the Licensee's name.
- 16. The Licensee shall have an approved emergency response and spill contingency plans in place prior to the commencement of the operation.
- 17. The Licensee shall immediately report all spills of petroleum and hazardous chemicals to the twenty-four (24) hour spill report line at (867) 920-8130.

Water

18. The Licensee shall ensure that all water intake hoses are equipped with a screen with an appropriate mesh size to ensure that there is no entrapment of fish.

Waste Disposal

- 19. The Licensee shall not discharge or deposit any refuse substances or other waste materials in any body of water, or on the banks thereof, which will impair the quality of the waters of the natural environment.
- 20. The Licensee shall not locate any sumps or areas designated for waste disposal within thirty-one (31) metres of the ordinary high water mark of any body of water, and be sufficiently bermed or otherwise contained to ensure that these substances to do not enter a waterway unless otherwise authorized.
- 21. The Licensee shall backfill and recontour all sumps to match the natural environment prior to the expiry date of the license.
- 22. The Lessee shall not bury any metal wastes.
- 23. The Licensee shall incinerate all combustible and food wastes daily
- 24. The Licensee shall keep all garbage and debris in a covered metal container until disposed of.
- 25. The Licensee shall ensure that all wastes generated through the course of the operation are backhauled and disposed of in an approved dumpsite.

Wildlife

- 26. The Licensee shall ensure that there is no damage to wildlife habitat in conducting this operation.
- 27. The Licensee shall not hunt or fish, unless the appropriate permits and licenses are acquired from a GN Renewable Resources Officer.
- 28. The Licensee shall not locate any operation so as to block or cause substantial diversion to migration of caribou.
- 29. The Licensee shall cease activities that may interfere with migration or calving, such as airborne geophysics surveys or movement of equipment, drilling activities until the caribou and their calves have vacated the area.
- 30. The Licensee shall ensure that aircraft pilots adhere to recommended flight altitudes of greater than 300 m above ground level as to not disturb wildlife.
- 31. The Licensee shall ensure compliance with Section 36 of the Fisheries Act which requires that no person shall deposit or permit the deposit of a deleterious substance on any type in water frequented by fish or in any place under any conditions where the deleterious substance may enter such a water body.
- 32. 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.

Environmental

- 33. The Licensee shall ensure that the land use area is kept clean and tidy at all times.
- 34. The Licensee shall prepare the site in such a manner as to prevent rutting of the ground surface.
- 35. The Licensee shall be required to undertake any corrective measures in the event of any damage to the land or water as a result of the Licensee's operation.
- 36. The Licensee shall suspend overland travel of equipment or vehicles if rutting occurs.

Camp

- 37. The Licensee shall not erect structures or store material on the surface ice of lakes or streams
- 38. The Licensee shall locate all structures and storage facilities on gravel, sand or other durable land.

Archaeological Sites

39. The Licensee shall follow all terms and conditions for the protection and restoration of archaeological resources as outlined by the Department of Culture, Language, Elders and Youths (CLEY) in attached letter. 2002-Feb-14 10:32am From-NUNAVUTIMPACT REVIEW BOARD

+8679832594

T-323 P.007/024 F

ROM : I AMD AND SEA RESOURCES I TD FAX NO : 867 857 4100

12 2002 09:230M

02-Feb-11 04:18pm From-NUNAVUT IMPACT REVIEW BOARD

T-566 P 03/04 F-198

Reclamation

- 40. The Licensee shall remove all scrap metal, discarded machinery and parts, barrels and bases, building and building muterial upon abandonment
- 41. The Licensee shall complete all clean up and restoration of the lands used prior in the expiry date of the permit.

Other Recommendations

- NIRB would like to encourage the proponent to hire local people and services, to the extent possible.
- NIRB advises proponents to consult with local residents regarding their activities in the region.
- 3. The proponent should establish a log for wildlife and archaeological sightings and instruct personnel in its use. All information regarding wildlife should be reported to Brent Patterson 8670982-7244. All information regarding archaeological sites should be sent to Doug Stenton, Culture Language Elders and Youth (867-975-5500). As well as all information being passed on to the closest communities.
- Any amendment requests deemed by NIRB to be outside the original scope of the project will be considered a new 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

Elizabeth Conland Chairnerson



NUNAVUT IMPACT REVIEW BOARD SCREENING FORM

1. General File Information on Screening
NIRB#: O2FA002 Authorizing Agency #(s): NWB2BR00101 (yy-xxx) permit or licence #
Project Title: Mineral Exploration Camp on Brodner Peninsula Title of Project Proponent: Kennecott Canada Exploration Inc. Company/Applicant
Proponent's Address: 354-200 Granville Street
Vancouver British Columbia V6C 154 Full Address
Contractor: email: diane gregory @ Kennecott. com Company/persons doing the work indifferent from the proponent Phone (604) 669-1880 Fax (604) 669-5255 address and contact numbers
Proposed Dates of Activity: Start Date 02/05/01 End Date 02/12/31 (yyyy-mm-dd) End Date 02/12/31
EA Starting Date: Date application accepted (yyyy-mm-dd)
Date Application Referred for Comments: 02/01/14 (yyyy-mm-dd)
Deadline for Comments: 02/01/31 (yyyy-mrn-dd)
NIRB's EA Indication: 12.4.4 ()
Date of Indication: 02/02/05
Project Cancelled: Yes, Give Reason
Comments:

2. Authorizing Agencies
Authorizing Agency(ies): Kivalliq I.A., Kitikmeot I.A., QIA, NWB)NWMB, DIAND, DFO, DOE, NRI, RWED, Other: N \(\mu \) \(\mu \) \(\mu \)
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, land use permit, quarry permit, research permit, lease, reserve)
Type of Approval being sought:
(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)
(file number)

3. Project Location
Kivalliq Kitikmeot Baffin
Land Use Planning Region: North Baffin, South Baffin, Kivalliq)
Geographic Place Name: Brodeur Peninsula, Nunavut (nearest place name or geographic feature)
Local/Traditional Name:
National Topographic Sheet (NTS) Number: 48 c Scale: 1:50:000
Latitude/Longitude: Lat. 73°201/73°401/2019: 87°/89°00
Drainage Region and Watershed: (nearest creek, river or lake system)
Nearest Settlement: Arctic Bay, Nunavut
Adjacent Settlement/Out-post camps:
Special Designation: (Yes/No -e.g. Heritage River, Wildlife Resescree, Park)
Does the project have Nunavut transboundary implications? Yes No
If yes, what additional procedures/contacts are needed?

4. Project Description	and Asse	ssment			
Physical Work, Activity(ies)):	drilling			
	(dalling, con	Istruction, camp, rosearch, water works, in	astallation, modif	fication, maintena	nce)
Multiple Activities:	Yes	No			
Project Category Code	Point	Multiple Points		Area	:
Phase of Project (exploration		exploration			_
(explora	tion, bulk samp	ling, development, operations, decommis	sioning, abandon	ment restoration)	
Project Description Summar	ry (non-tec	hnical):			
(duration of project, size of project, number	er of personnel	on site, related physical activities, machin	ery used, fuels a	nd chemical use a	nd storage.
associated infrastructure, methods of trans					
	1. P.	\			
Attac	n Project (Overview (English and Inuk	itut)		
		• _			:
Alternatives Considered:	omnon	e project to avoid upped	nts for all	ives to loan.	ica roma
camp logistics)		- project to avoid minecessary amendme	no, (e.g. aliemaii	i res to location of	ice total of
5. The Proponent's Pr	ublic Cons	sultation Process			
Description of Proponent's					
, and a specific di	551				
Did proponent make use of	traditional	knowledge?	Y	es	No
Was information available i				es	No
In NIRB's opinion, was the				es	No
If no, explain why the propo	•	•			* SAMERITANA
, тыу тө ргөрс					

6. Description of the Environment
Description of Biophysical Environment
No hunting or trapping activity has been reported in these areas in recent years. It should be pointed out that a narrow strip of seaward margins of such areas is still used for camping and hunting.
Description of Socio-Economic and Cultural Environment
·

3

7 SIDDI-C	Dung and the second sec	Details of Marie Control of the Cont
7. NIRB's Consultation	on rrocess	, her
Date application referred for	comments: $\frac{\sigma^2/\sigma}{\sigma^2}$	1/14
Deadline for comments:	2002/01/3	mfn-dd)
Deaume for comments.	2002/01/3	Liv
	(33)3-1	um-ua)
Distribution List:	Contact Person:	Date comments received:
NUNAVUT:	Contact i ci son.	Date comments received
	•	
NTI		
QIA		
Kivalliq I.A.	-	
Kitikmeot I.A.		· ·
NPC		
NWB		
NWMB		
RWO		
Inuit Heritage Trust		
Community(s)		
Hamlet	(ecilio, Morshall	7 200 /20
	CECTIO, IIDA DACI	20 21 Ma
Other?		
FEDERAL:	(12	
DIAND	Paul Smith	500 31102
DFO		
DOE		
Heritage Can		
Natural Resources		
CC C_Other? (eg. Health	Bour Putt	501F1 NOZ
DOT, DND)	7	
201, 2112)		
GOVERNMENT OF NUN	NAVIIT.	
Sustainable Dev.	1/2 7 0 1 .	
CGHT		
HSS		
CLEY	7	
Other?	,	
TRANSBOUNDARY	•	
PARTIES		
OTHER PARTIES		

Identification of Project Activities and Environmental Effects Identify all activities of the project under screening and their potential adverse environmental effects.

A check all the items appropriate to this project) - access read - winter - construction - ibandonment/removal - modification e.g., widening - burning - burning - channelling - construction - building - shed, warehouse - landing strip - cut and fill - access read Directly-related Socio-Economic & Cultural Effects: - ampact is framing / trapping / fishing - impact is framing / trapping / fishing - impact is fraditional use or traditional use area - impact to sufficien - impact to outfitters - impact on terreational use - impact on family structure - impact to community health - impact to community health - impact to community economics	Project Activities	Project Effects
### Streets of environment on project (e.g., Gooding) Streets of environment on project (e.g., Gooding)	A check all the items appropriate to this project)	
Effects: - Jost-nach ment/temoval	access mad	Directly-related Socio-Economic & Cultural
mothiciannic e.g., widening mothiciannic e.g. with the second process of execution of of execut		
Jackmobbic, gerraft or vessel movement blasting burning burning burning burning burning chalding challenge chauseling chalding chalding challenge chauseling chalding challenge chauseling challing challenge chauseling challing challenge chauseling challing challenge chauseling challing challenge chauseling challenge chauseling challenge chauseling challenge challen		
black and burning building burning building	modification e.g., widening	-
burning thursing channeling channels are impact to outdiners or traditional use area impact to outdiners contained and in the content of the		
butting channeling cha		
channeling		
Court ruction Section	ch maeiline	
building sixed, warshouse Linding smp Cut and fill removal of vegeration dams and impoundments — construction — abandonment/removal — direct construction — and trainage alreation direct construction — and trainage alreation direct construction — and trainage alreation direct construction — evologies all survers — excursion	CONSTRUCTION	
shed, warshouse tremoval and all removal of vegeration and all removal of vegeration and amount and impoundments abandonment/removal abandonment/removal abandonment/removal abandonment/removal abandonment/removal abandonment/removal abandonment/removal and interposteration abandonment/removal abandonment/		impact on recreational use
Lunding strip Cut and ail emoval of vegetation dams and impoundments — construction — abandonment/removal — direct construction — deposit on structure — describilization — possibility — deposit on structure — describilization of premaritost regime — destruction — destruction — direct construction — destruction — destruction — destruction — destruction — destruction — direct construction — destruction — destruct	shed, warehouse	oimplict on tamily structure
caur and fill	landing surp	
dams and implementation construction 10	cur and all	
Construction 10	removal of vegeration	
abandonment/removal modification in modificati	dams and impoundments	
diract on struction drainage alteration explosive storage // time	construction	10 impliet to industry
dirict construction drainage alteration ecological surveys executation explosive storage Z factor alteration explosive storage Z factor alteration explosive storage Z disposal of hazardous waste Z disposal of sewage or grey water Z disposal of sewage or grey water Z disposal of solid waste Z desposit onto ground water flow change in art quality change in art plantity change in subject storage Z desposit onto ground surface Z destablization of permatrost tegime Z destablization/ecosion Z depletion of non-tenewable resources Z depletion of non-tenewable resource Z departed to fait a material depletion of non-tenewable	abandonment/removal	11change in regional transportation
drainage alteranon drailing other than geoscientific ecological surveys excavation explosive storage / tiel storage / disposal of hazardous waste	modification	12 impact to archaeological or cultural landmarks
dullaig other than geoscientific ecological surveys excavation explosive storage / garbage / disposal of hazardous waste / disposal of sewage or grey water / disposal of solid waste geoscientific sampling — denothing — desire to geometric sampling — desire to geomet		13 impact on beauty of the landscape
ecological survers excavation explosive storage / interference survey excavation explosive storage / interference survey / interference or ground water flow / change in surfuninge pattern / change in art thow / change in art thow / change in art thow / interference survey / interference survey / interference survey / interference survey / interference or soil structure / interference survey / interferen		1+other, explain
excisions explosive storage Again and provided the provided testing of the provided testing of the position of the provided testing of the provided		W
explosive storage Z hiel storage disposal of hazardous waste disposal of sewage or grey water Z disposal of sewage or grey water Z disposal of solid waste geosciennic sampling trenching with amond drill borchole core sampling both solid sampling quarry hidrological testing nite restoration grabbing planting/seeding planting/seeding scanfaction graphing reconfouring action or solid spraying soli testing topsoil, overburden or soil disposal disposal	excavation	
✓ finel storage ✓ garbage ✓ disposal of hazardous waste ✓ disposal of sewage or grey water ✓ disposal of solid waste ✓ disposal of solid waste one of solid sol		15deposit into surface or ground water
disposal of hazardous wasre	✓ ruel storage	
## disposal of sewage or grey water disposal of sewage or grey water disposal of solid waste 20. change in air quality		
Zdisposal of solid waste 20.		18 change in water temperature
geoscienting		19 change in drainage pattern
geoscienting		20 change in air quality
data continued data		21change in air flow
borehole core sampling bulk soil sampling quarry htdriogical testing river stream/lake crossing/bridging size restoration grubbing planting/seeding soil resting recontouring soil resting topsoil, overburden or soil disposal removal storage unnelling/underground other, explain possibility for accidents or malfunctions. Describe. peffects of environment on project (e.g., flooding). perfects of environment on project (e.g., flooding). possibility change in ambient noise level deposit onto ground surface change in soil structure alteration of permatrost regime change in soil structure change in soil structure alteration of permatrost regime change in soil structure c		22 micro-climate change
bulk soil sampling quarry htdrological testing niver stream/lake crossing/bridging size restoration grubbing planting/seeding soil testing recontouring soil testing topsoil, overburden or soil disposal removal stremoval stream storage tunnelling/underground other, explain possibility for accidents or malfunctions. Describe effects of environment on project (e.g., flooding). Describe. - thange in ambient noise level deposit onto ground surface change in slope stability change in soil structure deposit onto ground surface change in slope stability change in soil structure deposit onto ground surface change in slope stability change in soil structure deposit onto ground surface change in soil structure destabilization/erosion soil compaction 30 soil compaction 31 change in access to renewable resources depletion of non-renewable resources depletion of non-renewable resources to soil rare/endangered plant species toxin, heavy metal accumulation removal of rare/endangered wildlife species deposit onto ground of rare/endangered plant species toxin, heavy metal accumulation removal of rare/endangered wildlife species deposit onto from-renewable resource toxin, heavy metal accumulation removal of rare/endangered wildlife species toxin, heavy metal accumulation removal of rare/endangered wildlife species toxin, heavy metal accumulation removal of rare/endangered wildlife species toxin, heavy metal accumulation removal of rare/endangered wildlife species toxin, heavy metal accumulation removal of rare/endangered wildlife species toxin, heavy metal accumulation removal of rare/endangered wildlife species toxin, heavy metal accumulation removal of rare/endangered wildlife species toxin, heavy metal accumulation removal of rare/endangered wildlife species toxin, heavy metal accumulation removal of rare/endangered wildlife species removal of rare/endangered wil		23 ice tog
durry 20	bulk soil sampling	24. Lange in ambient noise level
hydrological testing river stream/lake crossing/bridging site restoration	drite.	25 deposit onto ground surface
river stream/lake crossing/bridging site restoration fertilization grubbing planting/seeding scanfication straying soil resting topsoil, overburden or soil		26 change in slope stability
site restoration		27 change in soil structure
grubbing planting/seeding planting/seeding scanification spraying recontouring soil resung recontouring soil resung ropsoil, overburden or soil fill disposal removal storage runnelling/underground other, explain possibility for accidents or malfunctions. Describe. effects of environment on project (e.g., flooding). 30	_ site restoration	28 alteration of permatrost regime
	ferulization	29destabilization/erosion
	grubbing	30 soil compaction
sprayingrecontouring	— blaufug/seeding	charge in access to renewable resources
		32 depletion of non-renewable resource
soil testing topsoil, overburden or soil fill disposal removal storage tunnelling/underground other, explain possibility for accidents or malfunctions. Describe. effects of environment on project (e.g., flooding). soil testing toxin, 'heavy metal accumulation toxin toxin, 'heavy metal accumulation toxin toxin toxin toxing in wildlife health in pact to large mammals toxing in pact to small mammals toxing in pact toxi	- shraktid	, 33 removal of rare/endangered plant species
topsoil, overburden or soil Sill 36.		34 introduction of species
disposal	topsoil, overburden or soil	
	gii	
	disposal	37change in wildlife health
	removal	38. Limpact to large mammals
other, explain		
possibility for accidents or malfunctions. Describe. effects of environment on project (e.g., flooding). Describe. effects of environment on project (e.g., flooding). effects of environment on project (e.g., flooding).		40impact to fish
	other, explain	41 impact to birds
spawning area 44removal of wildlife buffer zone 45change in wildlife habitat/ecosystem 46other, explain	namination for accidence or malfangrious. Decombs	42impact to other wildlife
effects of environment on project (e.g., flooding). Describeeffects of environment on project (e.g., flooding). 44removal of wildlife buffer zone 45change in wildlife habitate/ecosystem 46other, explain	— Possionity for accidents of manufactions. Describe.	
effects of environment on project (e.g., flooding). Describe		
Describe		44 removal of wildlife buffer zone
Describe. 40. Other, explain	effects of environment on project (e.g., flooding).	45change in wildlife habitut/ecosystem
		46other, explain
(October 1998 version) Nunavat Impact Review Board Screening Form		
	(October 1998 version) Nunavut Impact Review Board Screening For	TID.

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

Environmental Effect	Describe
434	charge in rose from Exploration
	activities could temporarily
435	geter f expe externs sinking
	From delling of they fire
	,
	·
<u> </u>	
	No.

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	Effects from Other Resource Uses
(v check all the items appropriate to this project)	the check all the trems appropriate to the scope of this
	project
— practicating	7
maine mammals	Directly-related Socio-Economic & Cultural
l.ind marnmals	Effects:
fur beurers birds	1 impact to hunting / trapping / fishing 2 impact on women
shellrish	men
plants	children
betries	elders
rish	3. Lampact to traditional use or traditional use area
Lumming	4 impact to outritters
exploration	5 impact on recreational use
open pits	6impact on ramily structure
underground	7 impact to community health
off-shore mineral processing	 8 change in community economics 9 change in community housing or infrastructure
industry (type)	10impact to industry
quarries	11change in regional transportation
curving stone	12impact to archaeological or cultural landmarks
र्ग्यस्थात	I3 impact on beauty of the landscape
transportation/communications	14other, expl.un
airport / landing strip	
roads/access routes	Biophysical Environment Effects
shipping	15deposit utto surface or ground water
channels/canal * telephone lines, satellite dishes, cables	16 deposit to marine environment 17 change in surface or ground water flow
beacons	13change in water temperature
waste disposal (solid, liquid or gas?)	19change in dramage pattern
energy project	20 change in air quality
hydro	21 change in air flow
— bibejine	22micro-climate change
transmission line	23ice fog
Other water licenses, permits, leases	24. Lethange in ambient noise level
Inuit owned	25. 1 deposit onto ground surface
-surface rights	26change in slope smollity 27change in soil structure
-sub-surface rights	28alteration of permafrost regime
Crown	29. destabilization/erosion
Commissioner's	30soil compaction
Marine Areas	31change in access to renewable resources
other private lands held under tenure	32depletion of non-tenewable resource
Theratage sites or archaeological sites	33 removal of rare/endangered plant species
recreation (eg. cabins, tent frames) tourism	34 microduction of species 35 toxin/heavy metal accumulation
municipal (construction)	36removal of rare/endangered wildlife species
commercial	37change or wildlife health
built structures	38. Limpacerto lurge marnmals
infrastructure	39. Limpact to small mammals
agriculture	+0impact to fish
forestry	+1impact to birds
other, explain	42impact to other wildlife
	+3impact in a calving, nesting, staging or spawning area
	++removal of wildlife buffer zone
	45change in wildlife habitat/ecosystem
	46other
(Cletcher 1998 version) Nunavut Impact Review Board Screening Fu	

10.

Cumulative Environmental Effects

Based on a comparison of eff	ects identified in #8 and #9.
Matching Number's	Description of Cumulative Environmental Effects
DOWill the project make la	rge demands on non-renewable energy sources?
developments (other similar	nge further developments within the current project or other projects, energy development, generation, petroleum development and ditional roads)?
II	ige 1 "boom-bust" economy over an economy of permanence?
l -~	age more wildlife harvesting on account of better access for hunters and
Will the project have an	effect on the water quality of the watershed?
l ~	significant effect on existing land uses?
11. Mitigation Measure For each environmental effec- measures.	es et identified in #8, #9 and #10, describe the required mitigation
Number(s) (as identified in #8, #9 & #10)	Description of Mitigation Measures
	See Screening Decision Regart Terms & Conditions
	rebut prive a conditions

12.	Significance
Atter	raking into account the mitigation measures identified in #11, are any of the residual, adverse onmental effects significant?
	Yes 16 yes, identify which one s, and proceed to ≠13; if no proceed to ∓14.
	Number's
	
13.	Likelihood of Occurrence
	• ,
Ot th	e 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 knowledgetraditional ecological knowledge
	authorizing agencies' data
	departmental or agency opinions
	maps
	photos reports (scientific, economic, social, or anthropological, archival or historical
	Information'

For information sources identified above, provide contact person and/or information

Project Registry (NPC) NRB

previous similar projects
service organizations
media monitoring

____ experts ____ other __

location (for future follow-up):

Nunavut Environmental Database (NED)

15.	Staff Recommendations
Starf	Recommendations: "include rationale)
	Ent to tought sHill such lower
	Stone of the project
-	
-	·
Prepa	red By: South Stouthey Date: February 11173
	2ctestie (MAAA-utur-ord)
	Screens (Alabarana)
16.	NIRB'S Principles
16.	NIRB'S Principles The project has significant adverse effects on the ecosystem, wildlife habitat or Inuit harvesting activities.
16.	The project has significant adverse effects on the ecosystem, wildlife habitat or Inuit
16. —	The project has significant adverse effects on the ecosystem, wildlife habitat or Inuit harvesting activities.
16.	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.
16.	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.
16.	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.
16.	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.

17. Indication to the Minister (12.4.4) N.B. Transfer this information to Box 1: "E.A 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.

ROM : LAMD AND SEA RESDURCES LTL

FAX NO. :867 857 4100

.b. 12 2002 09:24AM P2

ULTTERTIL ALLES TILENTHURANUT INFACT REVIEW DOARD

T 656 P 04/NA F-148

19. Terms and Conditions			
If the devening many is 17.4.4.4. NIRB's terms and conditions include those listed in the Sureening Decision Report.			
Specific Terms, the Canditions in note include.			
Approved Bo: flyabilt faland Dare: fel 12/02			
20. Follow-up / Monitoring			
Minister's Determination			
Minister agreed with NIRB's indication.			
Action: Minister vacied NIRB's indication			
Action?			
Tri malitable			

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

Has acreening report information been added to NIRB's GIS/Calyx system?



HAMLET OF ARCTIC BAY

January 28, 2002

Nunavut Impact Review Board P.O. Box 2379 Cambridge Bay, NU XOE OCO FEB 0 6 2002 12

P.O. Box 150 Arctic Bay, NU XOA 0A0

Phone: (867) 439-9917 Fax: (867) 439-8767 e-mail: hamletab@nunanet.com

For 28-02

Attention:

David Sateana

Environmental Assessment Officer 2 Trainee

Dear David:

I presented the information you sent us in respect to application NIRB#02EA002 to Council at their Regular Meeting on January 24, 2002.

Council are in support of the application and they have no environmental concerns at this time; however, they do have some other concerns that they would like Kennecott Canada Exploration Inc. to address. A copy of your comment form is attached and Councils approved resolution was as follows:

Motion #13-2002

Moved by: Andrew Taqtu Seconded by: Frank May

That the Council of Arctic Bay supports the research application and Water License amendment that Kennecott Canada Exploration Inc. is looking for in respect to their mineral explorations on Brodeur Peninsula providing Kennecott hold a public meeting in Arctic Bay prior to commencement of their exploration work in 2002 and that they consider hiring some of their staff from Arctic Bay and that they keep Council and Ikajutit Hunters and Trappers Association informed of their activities pertaining in particular to any type of aircraft movement.

Carried Unanimously

Council wish Kennecott Canada Exploration Inc. well with their exploration efforts on Broduer Peninsula this year.

Sincerely, Puil 1. Marshalf

Cecil O. Marshall

Senior Administrative Officer

Diane J. Gregory cc:

Kennecott Canada Exploration Inc.

Fax: (604)-669-5255

02-Jan-17 05:16pm From-NUNAVUT IMPACT REVIEW BOARD

T-067 P.02/02 F-975

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 scioeconomic impacts of the project proposals, NIRB would like to hear your concerns, comments and suggestions about the following project application:

Project Title: Mineral Exploration Camp on Brodeur Peninsula				
Proponent: KENNECOTT CANADA EXPLORATION INC				
Location: Brodeur Peninsula				
Comments Due By: 2002/01/31	NIRB#: 02EA002			
white the same of	Total and the state of the stat			
Indicate your concerns about the proje	ect proposal below:			
One concerns	Eltraditional uses of land			
□water quality	[Injuit harvesting activities			
□rerrain □	Me ommunity involvement and consultation			
☐air quality	Cocal development in the area			
□wildlife and their habitat	It ourism in the area			
Dinarine maminals and their habitat	Chuman health issues			
□birds and their habitat	Cother:			
□fish and their habitat				
□heritage resources in area				
Please describe the concerns indicated	above:			
Promise would like Kinneett Conada				
Exploration Inc. to hold a public meeting in a netic Bay prior to communication				
in antie Bay finor to romminument				
of min aprovarions in sich.				
of this uplocations in 2002. Do you have any suggestions or recommendations for this application?				
pouniel would who Kinniet to				
consider hung some staff from				
anti Bay.				
Do you support the project proposal? Yes No Any additional comments?				
Counied supports the proposal but would like I kajutit Huntus and Suppus plus Counied Sight informed in respect to all movement of any type of sireseft				
would like shagetet Hunners and saypens				
plus Connul de	ight myrimed in my			
to all movement	of any type of muraft			
Name of nerson commenting:	JO Marshallos antis Bay			
Name of person commenting: Cifo. Marshalf of anti-Bay Position: S.A.O. Organization: Hamlet of anti-Pay				
Signature: Civil O. Marshalf Date: January 27, 2002				

JAN 17 '02 16:20 FR MA.

Pêches et Océans

Canada

Æ PROGRAMS

Coast Guard

Garde côtière

Central & Arctic Region

Région du Centre et de l'Arctique

201 N. Front Street, Suite 703 Sarnia, Ontario

Your file Votre référence

Our file Notre référence

N7T 8B1

1675-9-9

January 16, 2002

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

Dear Madam:

Thank you for your submission with regard to NIRB # 02EA002, Mineral Exploration Camp on Broduer Peninsula, Nunavut.

The information will be reviewed by this office and our response will be forwarded to DFO Fish Habitat in Iqaluit. They in turn will prepare a Departmental response encompassing both the Navigable Waters Protection Act and the Fisheries Act.

Yours trul

Barry Putt

Alinspections Supervisor Navigable Waters Protection

BP/kab

cc: FHM

Canada

594 T-323 P.024/024 F-988 T-617 P.002/UUZ H-UWW

31-Jan-2002 04:48pm From-INDIAN AND .THERN AFFAIRS

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 scineconomic impacts of the project proposals, NIRB would like to hear your concerns, comments and suggestions about the following project application:

Project Title: Mineral Exploration C			
Proponent: KENNECOTT CANAD	A EXPLORATION INC		
Location: Brodeur Peninsula			
Comments Due By: 2002/01/31	NIRB #: 02EA002		
Indicate your concerns about the project proposal below:			
Pha canceras	Otraditional uses of land		
Dwater quality	Clauit harvesting activities		
Orerrain	Decompanity involvement and consultations		
Dair quality	Clack development in the area		
Dwildlife and their habitat	Exourism in the area		
Omarine mammals and their habitat	Thuman health issues		
Abirds and their habitat	On ther:		
Ofish and their habitat			
Cheritage resources in area			
Please describe the concerns indicate	a apove:		
Based on Size of proposed activities, no water livence			
Would be represed per MultidA or regulations. Any use of			
Water or disposal of water will be addressed within the			
associated land use permits.			
Do you support the project proposal? Yes No Any additional comments?			
Name of person commenting:			
Name of person commenting:	AUL JMITH OF		
Position: Mgr. Water Resources Organization: DIAND			
Signature: Date: Jan 31/02			
mount			



عمر عثار مراحم الم المارية ال

	Fax: (867) 983-2594	Phone: (867) 983-2593
Date: To:	February 14, 200°	- Z
Fax #:		
From:	Stephanie Briscoe Executive Director e-mail: sbriscoe@polarnet.ca Gladys Joudrey Environmental Assess. Screen e-mail: gladys@polarnet.ca Millie Evalik Dir. of Finance & Administrat e-mail: evikhoak@polarnet.ca David Sateana Environ. Assess. Officer II Tra e-mail: dsateana@polarnet.ca	e-mail: jorgenk@polarnet.ca Josie Tucktoo-Lacasse ion Interpreter/Translator e-mail: josiet@polarnet.ca
Total #	of Pages including this page:	<u>.</u>
() Urg	ent () Reply ASAP () Please Comm	ent () Please Review () For Your Info
Comm	ents:	
Na approximately and the same of the same		

The document(s) accompanying this transmission contain(s) information intended for a specific individual and purpose. The information is private and legally protected by law. If you are the intended recipient, you are hereby notified that any disclosure, copying, distribution or the taking of any action in reference to the contents of this telecopied information is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return the original to us by regular mail.