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April 24, 2001

Rita Becker To:

> Licensing Administrator Nunavut Water Board Gioa Haven, NU

Re: Campsite and Diamond Drilling at Kikerk Lake

NIRB: #01EN031

NWB: #NWB2KLA

DIAND: #N2001C008

Enclosed is the completed NIRB Screening Decision Report for a water use permit to conduct mineral exploration at Kikerk Lake - Tree River Area in the Kitikmeot.

NIRB has screened this application for ecosystemic 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 the office at (867) 983-2593 if you have any questions about the Screening Report.

Yours truly,

Gladys Joudrey

Nunavut Impact Review Board

Nunavut Water Board

APR 2 1 2001

Public Registry

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#### SCREENING DECISION

Date: April 24, 2001

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 01EN031 NWB NWB2KLA DIAND N2001C008

Campsite and Mineral Exploration Tree River Area – Caledonia Mining Corp.

# 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;
- 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;

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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;
- clean up/restoration of the camp site and drilling locations upon abandonment; and
- community concerns

## Terms and Conditions:

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

#### **Drill Sites**

- The Licensee shall not conduct any land based drilling within thirty (30) metres of the normal high water mark of a water body.
- The Licensee shall conduct any the lake-based winter drilling, in accordance with the Interim Guidelines for On-Ice drilling.
- 3. The Licensee shall ensure that all drill cuttings are removed from ice surfaces.
- 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.
- 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.
- 7. 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.
- The Licensee shall not locate any sump within thirty (30) metres of the normal high water mark of any water body.

- 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.
- 11. 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.
- The Licensee when using explosives, shall follow the Guidelines for the Use of Explosives
   In or Near Water (DFO, 1998). If for any reason these guidelines cannot be followed,
   please contact DFO, as and authorization may be required.

#### Water

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

# Fuel and Chemical Storage

- 14. 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.
- 15. 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.
- 16. The Licensee shall store all fuel in a natural depression and take all reasonable precautions to prevent the possibility of migration of spilled petroleum fuel or chemicals over the ground surface.
- 17. The Licensee shall have one extra fuel storage container on site equal to, or greater than, the size of the largest fuel container.
- The Licensee shall examine all fuel and chemical storage containers daily for leaks. All leaks should be prepared immediately.
- 19. The Licensee shall seal all container outlets except the outlet currently in use.
- 20. The Licensee shall mark all fuel containers with the Licensee's name.
- The Licensee shall dispose of all combustible waste petroleum products by incineration and removal from the site.
- 22. The Licensee shall control all activities, including maintenance procedures and vehicular refueling, to prevent the entry of petroleum products, debris, slash, rubble or other deleterious substances into the water.
- 23. The Licensee shall have emergency response and spill contingency plans in place prior to the commencement of the operation.
- 24. The Licensee shall immediately report all spills of petroleum and hazardous chemicals to the twenty four (24) hour spill report line at (867) 920-8130.

# Waste Disposal

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- 25. 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.
- 26. The Licensee shall not locate any sumps or areas designated for waste disposal within thirty (30) metres of the ordinary high water mark of any body of water, unless otherwise authorized
- The Licensee shall backfill and recontour all sumps to match the natural environment prior to the expiry date of the permit.
- 28. The Licensee shall incinerate all combustible and food wastes daily.
- The Licensee shall keep all garbage and debris in a covered metal container until disposed of.
- 30. The Licensee shall ensure that all wastes generated through the course of the operation are backhauled and disposed of in an approved dumpsite.
- 31. The Licensee shall not bury any wastes.
- 32. The Licensee shall deposit all scrap metal, discarded machinery and parts, barrels and kegs, at an approved disposal site. Approval will be required from the Municipalities.

# Wildlife

- The Licensee shall ensure that there is no damage to wildlife habitat in conducting this
  operation.
- 34. The Licensee shall not feed wildlife.
- 35. The Licensee shall make every effort to prevent the unintentional harassment of polar bears, Peary caribou, muskox and nesting or molting waterfowl at all times. It is an offense under the Wildlife Act to harass wildlife.
- 36. The Licensee shall use the latest bear detection and deterrent techniques to minimize manbear interactions. The Licensee is strongly urged to contact the Department of Sustainable Development (DSD) wildlife officers regarding safety in polar bear country literature and training (Contact Brent Patterson, Regional Wildlife Biologist for details (867) 982-7244).
- The Licensee shall immediately report problem wildlife to Department of Sustainable Development wildlife officers.
- 38. 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.
- 39. 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.
- 40. The Licensee shall not obstruct the movement of fish while conducting the land use operation.
- 41. The Licensee shall ensure that the drill sites avoid known environmentally sensitive areas (denning, nesting etc.) by a minimum of 250 metres.

#### Environmental

42. The Licensee shall ensure that the land use area is kept clean and tidy at all times.

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- 43. The Licensee shall prepare the site in such a manner as to prevent rutting of the ground surface.
- 44. 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.
- 45. The Licensee shall not use any equipment except of the type, size and number that is listed in the accepted application.
- 46. The Licensee 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.
- 47. The Licensee shall suspend overland travel of equipment or vehicles if rutting occurs.

# Camp

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

# Archaeological

 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).

#### Reclamation

- The Licensee shall remove all scrap metal, discarded machinery and parts, barrels and kegs, buildings and building material upon abandonment.
- The Licensee shall complete all clean-up and restoration of the lands used prior to the expiry date of the permit.
- 53. The Licensee shall plug or cap all bore holes and cut off any drill casings that remain above ground to ground level upon abandonment of the operation.

#### Other Recommendations

- NIRB would like to encourage the proponent to hire local people and services, to the extent possible.
- NIRB strongly advises proponents to consult with local residents regarding their activities in the region.
- 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

2001-Apr-24 10:20am From-NUNAVUTIMPACT REVIEW BOARD

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2001-Apr-19 05:94pm From-Numavutimpact REVIEW BOARD

Patterson 86/0982-7244. All information regarding archaeological sites should be sent to Brian Aglukark, Nunavut Flaming Commission (867-979-1444) and Doug Stenion, Culture Language Elects 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 autoide the original scope of the project will be considered a new project.

# Validity of Land Claims Agreement

Section 2.12.2

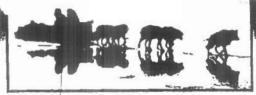
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Where there is any inconsistency or conflict between any federal, territorial and local government laws, and the Agreement, the Agreement shall prevail to the extent of the inconsistency or conflict.

Dated

at Whale Cove, NU

Elizabeth Copland, A/Chairperson



# NUNAVUT IMPACT REVIEW BOARD SCREENING FORM

1. General File Information on Screening				
NIRB #: OIENO31 Authorizing Agency #(s): DAND#N2001 COOR				
NWB # NWB OKLA				
Project Title: KIKERK LAKE - TREE RIVER AREA				
Proponent: CALEDONIA HINING CORP.				
Company/Applicant				
Proponent's Address: Unit #5 -2155 Dunwin DINE				
Missisauga Ontario LSL 441				
Full Address				
Contractor: Ashfon Hinny (NWT) Ltd. Discovery Hinny Services  Company / persons doing the work if different from the proponent				
Company / persons doing the work if different from the proponent				
Great Slave Heltopters Ltd. Av Tindi Ltd., FYSTAN-				
Proposed Dates of Activity: Start Date June 2001 End Date Demiterp.				
(yyyy-mm-dd) (yyyy-mm-dd)				
EA Starting Date: March 16,3001  Date application accepted (yyyy-mm-dd)				
Date Application Referred for Comments: March 16, 2-001				
Deadline for Comments: April 12, 2001				
NIRB's EA Indication: 12.4.4 ( )				
Date of Indication: (yyvy-mm-dd)				
Project Cancelled: Yes, Give Reason				
Comments:				

2

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: RHa Becker (Girn Haven); Carl McLean (qual
Land Status: Inuit Owned Crown Commissioner's Marine Areas
Type of Application: Water Trence, 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: (c.g. water licence, land use permit, quarry permit, lease, reserve)
Present Authorizations (active):
Previous Authorizations (inactive/expired):
3. Project Location
Kivalliq Kitikmeot Baffin
Land Use Planning Region: West Citikment
(e.g. West Kitikmeot, North Baffin, South Baffin, Kivalliq)
Geographic Place Name: Kikerk Lave Tee River (nearest place name or geographic feature)
Local/Traditional Name:
National Topographic Sheet (NTS) Number: 869/62 Scale:
Latitude/Longitude: UTH 10-Endivotes aven m applitation (degrees a inutes seconds)
Drainage Region and Watershed: Wee Ever  (nearest creek, over or lake system)
(nearest creek, river or lake system)
(nearest creek, river or lake system)  Nearest Settlement: Kuglukluk

If yes, what additional procedures/contacts are needed?

	and Ass					
Physical Work, Activity(ies	(drilling, s	onstructio	n, camp, research, water yorks, inst	LM P	ication, mainte	mance)
Multiple Activities:	Yes	V	No			_
Project Category Code:	Point		Multiple Points	Linear	Агеа	
Phase of Project.	- 1.0		explorat			
(explor:	ation, bulk sar	npling, de	velopment, operations, decommission	outud apaudou	ment restoratio	on)
Project Description Summa	ry (non-t	echnica	ıl):			
(duration of project, size of project, numb associated infrastructure, methods of tran					nd chemical us	e and storage.
Attac	ch Project	Overv	new (English and Inukit	ut)		
5. The Proponent's P	ublic Co	nsulta	tion Process			
Description of Proponent's						
Did proponent make use of	tradition	al knov	vledge?	Y	es	No
Was information available	in the co	mmuni	ty's preferred language?	Y	es	No
	in the cor	mmunii ent's pu	ty's preferred language? blic consultation adequa	Y ate? Y	es	2019-000

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From-NWB

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# Non-Technical Summary of Land Use Activities

Caledonia Mining Corporation is a diamond exploration company operating in the Textitory of Nunavut. It has made an application to establish a base camp and conduct a drill program on 15 mineral claims 20 kilometers southeast of Kikerk Lake.

The camp is required to support drilling activities and has been located in an area that allows for the safe landing of float planes. A total of 8 people are expected to occupy the camp for one month during the winter and one month during the summer. The camp will consist of 5 canvas prospector's tents, an outhouse and a generator. The total footprint of this area will be around 1 hectare.

The drill program is required to determine if a rock known as kimberlite exists under the ground. Caledonia would like to drill a total of 10 holes this winter each measuring 2.5 inches in diameter. These holes will be drilled at four separate locations on the property.

Caledonia recognizes that it is only a tenant on land belonging to the people of Nunavut and all Canadians. As a good corporate citizen it strives to have responsible, safe and clean work practices.

6. Description of the Environment
Description of Biophysical Environment
in the area of kikerk lake.
In early spring; barren-ground carribon of the Bathust
herd migrate eastward through this area to calve in
the region to the east of Bathurst Inet. in late summer,
cambon move westward in a movement that takes them to
Wintering areas in the forest
*
Description of Socio-Economic and Cultural Environment
Fishing siles in area
Rugtuktuk residents regularly hunt bagen ground canon in this area from fall to spring. The area
is also leavily cused during the winter months when
arote for are trapped. Wolf and wolvering are sometime hunted in early spring.
hunted in early spring.
J . 0

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7. NIRB's Consultation Pro Date application referred for com		March 16,2001		
Deadline for comments:	ments.	W. (1) 13 (300)		
Detaille to comments.		(yyyy-mm-dd)		
Distribution List:  NUNAVUT:  LATI  QIA  Kivalliq I.A.  Kitikmeot I.A.  NPC  NWB  NWMB  NWMB  Lanuit Heritage Trust  Community(s)  Hamlet Kuglukfuk  Other?	Contact Person:	Date comments received:		
FEDERAL:  DIAND  DFO  DOE  Heritage Can  Natural Resources  Other? (eg. Health  DOT, DND) CCG				
GOVERNMENT OF NUNAVI  Sustainable Dev.  CGHT  HSS  CLEY  Other?	ur:	Warch 36/10/		
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.

Project Activities  'V check all the items appropriate to this project)	Project Effects
veneer in the nems appropriate to this project)	(V check all the trems appropriate to this project)
access road	Directly-related Socio-Economic & Cultural
wuiter	Effects:
construction	1. Limpact to hunting / trapping / fishing
_ ibindonment/removal	2impact on:women
modification e.g., widening	men
blueng	children
blassing burning	elders
burning	
_ channelling	impact to trudiuonal use or tradiuonal use are:
_ construction	4impact to outfitters
building	5impact on recreational use
shed/warehouse	6 impact on ramily structure
landing strip	7impact to community health
cut and fill	8change in community economics
removal of vegetation	<ol><li>change in community housing or</li></ol>
dams and impoundments	infrastructure
construction	10 impact to industry
abandonment/removal	11change in regional transportation 12impact to archaeological or cultural landmarks
modification	<ol> <li>impact to archaeological or cultural landmarks</li> </ol>
dich construction	<ol> <li>_ impact on beauty of the landscape</li> </ol>
dramage alteration	14other, explain
dulling other than geoscientific	1
ecological surveys	Biophysical Environment Effects
exclusive storage	15 deposit into surface or ground water
Thei storage	16 deposit to marine environment
√g:ubige	17 change in surface or ground water flow
duposal of hazardous waste	18 change in water temperature
disposal of sewage or grey water	19change in drainage pattern
Misposal of solid waste	20 change in air quality
geoscientific sampling	21 change in air flow
trenching	22micro-climate change
diamond drill	23ice fog
borehole core sampling	21 . Change in ambigur noise level
bulk soil sampling	25 Adeposit onto ground surface (Surf)
— quarry	26 change in slope crability
hydrological testing	26change in slope stability
nver/stream/lake crossing/bndging	27 change in soil structure
site restoration	28alteration of permafrost regime
fernizanon	29destabilization/erosion
grubbing planng/seeding	30soil compaction
scanicanon	31 change in access to renewable resources
spraying	32depletion of non-renewable resource
recontouring	33 removal of rare/endangered plant species
soil resning	34 introduction of species
tupsoil, overburden or soil	35 toxin, heavy metal accumulation
611	36removal of rare/endangered wildlife species
disposal	37change in wildlife health
removal	38. Limpact to large marnmals
storage	39impact to small mammals
runnelling/underground	40. Limpact to fish
_ other, explain	41. Limpact to birds
10 C - 1	12impact to other wildlife
possibility for accidents or malfunctions. Describe.	43. Limpact in a calving, nesting, staging or
	spawning area
	11removal of wildlife buffer zone
affects of anniego-	45change in wildlife habitat/ecosystem
effects of environment on project (e.g., flooding).  Describe	46 other, explain
Desertoe.	

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

Environmental Effect	Describe	
#35	moderno spression on stand	
#24,36,41,	Eight when explored provide -	
	the Euro	
#13	Exition for expression to	
	OKEO.	
#13	deposo policy system in the	
	ord tou of live octivities,	
#40	Accidental soils drilling must	
	Lupitet ?	

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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)	( \sqrt check all the items appropriate to the scope of this
	brolect.
harvesting	Control of Control
marine mammals	Directly-related Socio-Economic & Cultural
✓ land mammals	Effects:
rur bearers	<ol> <li>impact to hunting / trapping / fishing</li> </ol>
Surds	2impact on:women
shelltish	men
plants	children
berries	elders
tish	3. Vimpact to traditional use or traditional use area
mining	4impact to outritters
exploration	5impact on recreational use
	6impact on family structure
open pits	7impact to community health
underground	
off-shore	8 change in community economics
mineral processing	9 change in community housing or infrastructure
industry (type)	10impact to industry
quarnes	11change in regional transportation
carving stone	12impact to archaeological or cultural landmarks
aggregate	13. Limpact on beauty of the landscape
transportation/communications	14other, explain
airport / landing strip	D: 1 : 1 E : F100
roads/access routes	Biophysical Environment Effects
shipping	15deposit into surface or ground water
channels/canal *	16 deposit to marine environment
telephone lines, satellite dishes, cables	17 change in surface or ground water flow
beacons	18 change in water temperature
waste disposal (solid, liquid or gas?)	<ol> <li>change in drainage partern</li> </ol>
energy project	20 change in air quality
hvdro	21change in air flow
pipeline	22micro-climate change
transmission line	23ice tog
grher water licenses, permits, leases	24 change in ambient noise level
_lands	25deposit onto ground surface
Inuit owned	26change in slope stability
-surface rights	27change in soil structure
-sub-surface rights	28alteration of permafrost regime
Crown	29destabilization/erosion
Commissioner's	30 soil compaction
Marine Areus	31 change in access to renewable resources
other private lands held under tenure	32depletion of non-renewable resource
Meritage sites or archaeological sites	33 removal of rare/endangered plant species
recreation (eg. cabins, tent frames)	34introduction of species
toutism	35 toxin/heavy metal accumulation
municipal (construction)	36removal or rare/endangered wildlife species
commercial	37change in wildlife health
built structures	38. Limpact to large mammals
infrastructure	39. Limpact to small mammals
agriculture	40. Lipapact to fish
forestr:	41. Limpact to birds
other, explain	42ipapacr to other wildlife
	43. Limpact in a calving, nesting, staging or spawning
	area
	44 removal of wildlife buffer zone
	45change in wildlife habitat/ecosystem
· ·	46 other
	IV. Valet

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CONTRACTOR OF THE PARTY.

10. Cumulative Environmental Effects Based on a comparison of effects identified in #8 and #9.				
Matching Number(s)	Description of Cumulative Environmental Effects			
	other mineral exploration			
	in the area and pict			
	exploration activities in the			
	area may house effect on			
	wildlife and boundy of the			
	properate.			
Will the project ma	ake 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)?				
Will the project en	courage a "boom-bust" economy over an economy of permanence?			
Will the project encourage more wildlife harvesting on account of better access for hunters and rishers?				
Will the project have an effect on the water quality of the watershed?				
Will the project ha	we a significant effect on existing land uses?			
I				
11. Mitigation Measures  For each environmental effect identified in #8, #9 and #10, describe the required mitigation measures.				
Number(s) (as identified in #8, #9 & #10)	Description of Mitigation Measures			
	See Steening Decision			
	Report.			

12,	Significance
12.	Significance
	raking into account the mitigation measures identified in #11, are any of the residual, adverse onmental effects significant?
	Yes VNo
	If yes, identify which one(s) and proceed to #13; if no proceed to #14.
	Number(s)
8	
13.	Likelihood of Occurrence
OF th	ne significant, residual, adverse environmental effects identified in #12, are any likely to occur?
01 11	Yes No
ı	
l	Number(s)
	*
14.	Information Sources
	What sources of information were used in the screening process?
1	local knowledge
ll.	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
H	service organizations
	media monitoring
	experts
	other
	For information sources identified above, provide contact person and/or information
1003	tion (for future follow-up):

From-NUNAVUTIMPACT REVIEW BOARD

11

15. Staff Recommendations					
Staff Recommendations: (include rationale)					
_	202 (2.25)				
	the project should have little or no				
	SIGNATIONAL GUNTONITOR HOW EAGER.				
-					
Prep.	ared By: Glody Journey Date: Acil 10,2001				
<b>Australian America</b>					
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.				
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.				

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.

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

b) the proposal requires review under Part 5 or 6; NIRB shall identify particular issues or

primary objectives set out in Section 12.2.5:

concerns which should be considered in such a review;

2001-Apr-18 65:04pm From-NUNAVUTIMPACT REVIEW BOARD

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Terms and Conditions 18. is the determination is 12-4.4 at NIRD's terms and conductors include those listed in the Screening Decision Report. specific Terms and Conditions in note include: Authorization Approved Br. Meddleth Galand Due April 20/01 Follow-up / Monitoring Minuter's Determination Minister agreed with NIRB's indication. 4 -mnn-Minister varied NIRB's indication. ליחטח:

Action:

li applicable,

Minister rejected NIRB's indication

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

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

APR-17-01 07:42 From:DIAND WATER )

+8679832594 1-867-669-2716

T-668 P.022/026 F-227 1-8/2 P.UZ/UI JUU-JOU



Indian and Northern Affaires indiennes Affairs Canada www.inac.gc.ca

et du Nord Canada www.ainc.gc.ca

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

April 12, 2001

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

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

Your file · Voiro référence

Our File: NWB-0082

ATTENTION: Gladys Joudrey, Environmental Assessment Officer

Water Permit Application: NIRB # 01EN031/NWB #NWB2KLA RE: Caledonia Mining Corp. - Kikerk Lake -Tree River area -Mineral Exploration

The Water Resources Division, Yellowknife, has reviewed the above noted water permit/licence application and supporting documentation, and has provided some additional comments on your attached screening comment form, as well as in this letter. A similar package was subsequently received from the Nunavut Water Board. No comments were requested specifically on the land use permit per se. I trust this is the right combination of files!

Our opinion remains that this type and scale of project activity would not normally meet the threshold for licensing under the NWT Waters Act and Regulations, and conditions may not be enforceable. If a "water permit" is to be issued under the authority of the Nunavut land claim legislation, the following comments pertain to the permit if one is required. Otherwise, waterrelated concerns could probably be addressed through the relevant land use permit.

Overall, we have no specific water related concerns, however our Nunavut regional office may provide additional comments. Otherwise, standard terms and conditions to address other environmental and water related requirements are recommended for this project, in particular refuel storage and waste disposal (including drill cuttings).

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

Sincerely

Greg Cook

Environmental Assessment Coordinator

Water Resources Division

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APR-17-81 D7:43 From:DIAND WATER ! JRCES

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+8679832594 1-867-669-2718 T-668 P.023/026 F-227 T-972 P.U4/U/ JOD-500

# 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:_Campsite and Diamond Drill Proponent: Caledonia Mining Corpor	
Location: Kikerk Lake/Tree River Area_	NIRB# 01FN031
Comments Due By: Thursday, Apr	1 12 2001
Indicate your concerns about the project	nennasal halow
	□ traditional uses of land
	□ Inuit harvesting activities
	Community involvement and consultation
The state of the s	C local development in the area
	1 tourism in the area
	A human health issues
	Other:
🗆 fish and their habitat	- ONIOI
☐ haritage resources in area	
Please describe the concerns indicated a	hove:
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were related issues,	guren small sign.
	0
Do you have any suggestions or recomm	
- usual sathack 19	po 4 often waste disposel
10-00	a a select in to de page
	to a plant marche moland
facilities	
Do you support the project proposal? Y	ES TO NO T
Any additional comments?	
scale of operation	
19 x Yengeres slag	scene adequate the
J. C. C.	
scale of Exercision	
N	0.0016
Name of person commenting: 6266	COOK OF WATER RESOURCES
Position: Envit Assess Condic O	ganisation: DIAND YK
Bignature: Coak	Date: April (1, 2001

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DC YCERE

Culture and Heritage Division

Department of Culture, Language, Elders & Youth

Pithohilikioni

Ministèr du governement Culture Langues, Afnès et Jeunesse

March 22, 2001

Gladys Joudrey Environmental Assessment Screener Nunavut Impact Review Board Box 2379 Cambridge Bay, NU X0E 0C0

Re: Land Use Application NIRB 00EN031; Klkerk Lake - Tree River (Caledonia Mining Corp.)

Due Date:

April 12, 2001

Dear Ms. Joudrey:

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

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

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

Sincerely,

Leah Otak, Director Culture and Heritage

Department of Culture, Language, Elders and Youth

Encl.



### ARCHAEOLOGICAL RESOURCES: TERMS AND CONDITIONS

#### BACKGROUND

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

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

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

- II. "Archaeological site" means a site or work within Nunavut of archaeological ethnographical or historical importance, interest or significance, or a place where an archaeological specimen is found, and includes explorer's cairns.
  - "Archaeological specimen" means an object or specimen found in an archeological site of archaeological ethnographical or historical importance, interest or significance, or a place where an archaeological specimen is found, and includes explorer's documents.
- III. Any new Terms and Conditions raising issues found in ss. 10 and 16 of the Territorial Land Use Regulations should duplicate statutory sections, or be stricter, but not more lenient in terms of protection of archaeological resources.
- IV. 1. The permittee shall not operate any vehicle over a known or suspected archaeological site.
  - 2. The permittee shall not remove, disturb or displace any archaeological specimen or site.
  - The permittee shall contact the Department of Culture, Language, Elders and Youth (867-975-5500) and DIAND officials should an archaeological site or specimen be encountered or disturbed by any land use activity.
  - 4. The permittee shall immediately cease any activity which disturbs an archaeological or historical site, encountered during the course of a land use operation, until permitted to proceed with the authorization of the Department of Culture, Language, Elders and Youth, Government of Nunavut, Igaluit.
  - The permittee shall follow the direction of the Department of Culture, Language, Elders and Youth and DIAND in restoring disturbed archaeological sites to an acceptable condition.
  - The permittee shall provide information to the Department of Culture, Language, Elders and Youth
    about each archaeological site or specimen encountered by any land use activity, by completing the
    attached form.
  - 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.
  - The permittee shall avoid the known archaeological sites as listed in Attachment #1

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



POST AGUETA 12 PULSE/NUNAVUT IMPACT REVIEW BOARD/NUNAVUTMI KANOGILIVALIANIKOT ELITTOHAIYEOPLOTIK KATIMAYIIT

	Fax: (867) 983-2594	Phone: (867) 983-2593
Date:	1006, 46 List	
To:	Kita Becker	
Fax #:		
From:		Linda Burles
	Executive Director e-mail: sbriscoe@polarnet.ca	Executive Secretary e-mail: lburles@polarnet.ca
	Gladys Joudrey Environmental Assess. Officer e-mail: gladys@polarnet.ca	Jorgen Komak Environmental Technologist jorgenk@polarnet.ca
	Vacant Senior Researcher/Trainer	Vacant Environmental Assess. Officer
	Millie Evalik Finance/Administrative Officer e-mail: evihoak@polarnet.ca	Josie Tucktoo-Lacasse Interpreter/Translator e-mail: josietl@polarnet.ca
	Vacant Public Relations Officer	
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notify us immediately by telephone and return the original to us by regular mail.		