

NWB2 Tmp

July 13, 2005

Dear Kivalliq Distribution List

**Re: Your comments on this application.**

**NIRB#: 05EN109**

**Project: Mineral Exploration, Campsite**

**Proponent: Kennecott Canada Exploration Inc.**

Nunavut Impact Review Board has received an application for a Mineral Exploration, Campsite near Baker Lake at Pitz Lake Area. Please use NIRB file No. 05EN109 and the contact person listed below, in all future correspondence regarding this application.

The application documents are available through the internet on the NIRB ftp site at [www://ftp.nunavut.ca/nirb](http://www://ftp.nunavut.ca/nirb) in the folder "05EN109-Kennecott Canada Exploration Inc.-Mineral Exploration, Pitz Lake Area, Kivalliq".

Please assess the project proposal for the potential effects on the ecosystemic and socio-economic environments, from your knowledge of the area or your field of expertise.

Please forward your comments and recommendations to NIRB by August 3<sup>rd</sup>, 2005, 1:00pm local time.

A comment form has been included with the package.

If you have any questions regarding the application, please do not hesitate to contact our office. Your input is greatly appreciated.

Yours truly,

Sylvia Novoligak  
Environmental Screener Trainee  
Phone (867) 983-4613  
Fax (867) 983-2574 or (867) 983-2594

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

<b>Project Title:</b> Mineral Exploration-Campsite	
<b>Proponent:</b> Kennecott Canada Exploration Inc.	
<b>Location:</b> Pitz Lake Area, Kivalliq	
<b>Comments Due By:</b> August 3 <sup>rd</sup> , 2005	<b>NIRB #:</b> 05EN109
<b>Indicate your concerns about the project proposal below:</b>	
<input type="checkbox"/> no concerns	<input type="checkbox"/> traditional uses of land
<input type="checkbox"/> water quality	<input type="checkbox"/> Inuit harvesting activities
<input type="checkbox"/> terrain	<input type="checkbox"/> community involvement and consultation
<input type="checkbox"/> air quality	<input type="checkbox"/> local development in the area
<input type="checkbox"/> wildlife and their habitat	<input type="checkbox"/> tourism in the area
<input type="checkbox"/> marine mammals and their habitat	<input type="checkbox"/> human health issues
<input type="checkbox"/> birds and their habitat	<input type="checkbox"/> other: _____
<input type="checkbox"/> fish and their habitat	_____
<input type="checkbox"/> heritage resources in area	_____
<b>Please describe the concerns indicated above:</b>	
<b>Do you have any suggestions or recommendations for this application?</b>	
<b>Do you support the project proposal? Yes <input type="checkbox"/> No <input type="checkbox"/> Any additional comments?</b>	
<b>Name of person commenting:</b> _____ <b>of</b> _____	
<b>Position:</b> _____	<b>Organization:</b> _____
<b>Signature:</b> _____	<b>Date:</b> _____



Indian and Northern  
Affairs Canada

Affaires indiennes  
et du Nord Canada

Land Administration

P.O. Box 100

IQALUIT, NU, X0A 0H0

Phone: 867-975-4275

FAX: 867-975-4286

Your file / Votre référence

Our file / Notre référence

July 4, 2005

Albert Ehaloak

Nunavut Impact Review Board

P. O. Box 2379

Cambridge Bay, NU X0E 0C0

Dear Mr. Albert Ehaloak

**RE: Application for Land Use Permit #N2005C0025**  
**Type of Operation: Mineral Exploration - Campsite**  
**Location: Pitz Lake Area, Kivalliq, Nunavut**

Pursuant to Article 12.3.5 of the Nunavut Land Claim Agreement, I am forwarding the above Land Use Application for screening purposes.

All future correspondence produced by your office should be copied to this office and should also refer to the above application number.

Please be advised that this office has invoked Section 25(1)(b) of the Territorial Land Use Regulations on this application to allow you further time to review the application. Our office has up to 42 days from the date of receipt of the application to issue the permit. The permit must be issued on or before August 15, 2005, therefore we require your comments and recommendations by August 12, 2005, along with your screening decision. If you find that you cannot complete your assessment by the 42<sup>nd</sup> day, then you must advise us to invoke Section 25(1)(c) of the Territorial Land Use Regulations which will provide you additional time as outlined in Articles 12.4.5 (b) or (c). Please be advised that requests for 25(1)(c) must be accompanied with environmental reasons on why the extra time is required as well as approximate dates for completion of the screening.

Yours truly,

Spencer Dewar  
Land Administrator Specialist  
Land Administration

cc: NPC  
Manager, Field Operations

RMO-Kivalliq

**Canada**



# APPLICATION FOR LAND USE PERMIT

FOR OFFICE USE ONLY - RÉSERVÉ AU BUREAU					
Application fee	Land use fee	General receipt no.	Date	Class	Permit no.

To be completed by all applicants

☐ New application

☐ Amendment

1. Applicant's name and mailing address (Full name, no initials) KENNECOTT CANADA EXPLORATION INC. 354-200 GRANVILLE ST. VANCOUVER, BC V6C 1S4		Fax no. 604 696 3401
		Telephone no. 604 696 3422
2. Head office address AS ABOVE		Fax no.
		Telephone no.
Field supervisor PATRICK SMILLIE	Radio telephone	E-Mail address patrick.smillie@riofinto.com
		Telephone no.

3. Other personnel (subcontractor, contractors, company staff, etc.)

BETWEEN 2 AND 19 OTHERS, KENNECOTT STAFF, PEAK DRILLING STAFF, GREAT SLAVE  
HELICOPTERS STAFF, LOCAL HIRES

TOTAL: 20, AS MANY AS

4. Qualifications

Refer to Section 21 of the Territorial Land Use Regulations

No(s) exploration permit mineral claims (if applicable)

a(i) ☒ a(ii) ☐ a(iii) ☐ b ☐ c ☐

SEE ATTACHED

5. a) Summary of operation (describe purpose, nature and location of all activities)

Refer to Section 22(2)(b) of the Territorial Land Use Regulations (Use last page of form if necessary.)

TILL + STREAM SEDIMENT SAMPLING

DIAMOND DRILLING

GROUND GEOPHYSICS

GENERAL PROSPECTING

b) Please indicate if a camp is to be set up (Use last page to provide details)

YES, 1 CAMP ON WEST SHORE OF PITZ LAKE AT 96° 47' x 63° 54' 30"  
SEE ATTACHED

6. Summary of potential environmental and resource impacts

(Describe the effects of the proposed program on land, water, flora & fauna and related socio-economic areas)

(Use separate pages if necessary)

IMPACT SHOULD BE MINIMAL



APPLICATION FOR LAND USE PERMIT

7. Proposed restoration plans (please use last page if required)

SEE ATTACHED ABANDONMENT + RESTORATION PLAN

8. Other rights, licences or permits related to this permit application (mineral claims, Yukon timber permits, water licences, etc.)

NUNAVUT WATER BOARD LEVEL 3 LICENSE APPLICATION SUBMITTED

KIVALLIQ INUIT ASSOCIATION LAND ACCESS LICENSE KVL204C21

Roads )

☐ Is this to be a pioneered road?  
Provide details on back page

☐ Has the route been laid out or  
ground truthed?

9. Proposed disposal methods

a) Garbage: INCINERATION OF COMBUSTIBLES

REMOVAL OF NON-COMBUSTIBLES

c) Brush & trees:

N/A

b) Sewage (Sanitary & Grey Water):

SEWAGE: INCINERATED, GREY WATER: SLUMP

d) Overburden (Organic soils, waste material, etc.):

N/A

10. Equipment (Includes drills, pumps, etc.) (Please use last page if necessary)

Type & no.	Size	Proposed use
1 HELICOPTER	HOUGHES 500, A-STAR OR BELL 206	CREW/EQUIPMENT TRANSPORT
2x 27 KW GENERATORS	27 KW	POWER

11. Fuels	Number of containers	Capacity of containers
Diesel	50	45 GALLON DRUM
Gasoline	10	45 GALLON DRUM
Aviation Fuel	50	45 GALLON DRUM
Propane	25	50 LB. BOTTLE
Other		

12. Containment fuel spill contingency plans (Please attach separate contingency plan if necessary)

SEE ATTACHED

13. Methods of fuel transfer (To other tanks, vehicles, etc)

HAND AND ELECTRIC PUMPS



APPLICATION FOR LAND USE PERMIT

14. Period of operation (Includes time to cover all phases of project work applied for, including restoration) YEARLY BETWEEN APRIL 15 <sup>TO</sup> AND JUNE 15 AND JULY 15 <sup>TO</sup> SEPTEMBER 1					
15. Period of permit (Up to two years, with maximum of one year extension)		Start date YYYY/MM/DD 2005/07/15		Completion date YYYY/MM/DD 2007/07/15	
16. Location of activities by map co-ordinates (Attached maps and sketches)					
Minimum Latitude Degrees 63 Minutes 10 Seconds 00		Minimum Longitude Degrees 96 Minutes 00 Seconds 00			
Maximum Latitude Degrees 64 Minutes 15 Seconds 00		Maximum Longitude Degrees 97 Minutes 15 Seconds 00			

Map sheet no. 1

17. Applicant (Print name in full) PATRICK SMILLIE	Signature <i>Patrick Smillie</i>	Date
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18. Fees	<input type="checkbox"/> Class A - \$150	<input type="checkbox"/> Class B - \$150	\$ 150.00
Land Use Fees:	Less than or equal to 2 hectares	\$50.00	\$ 50.00
	For each additional hectare over 2 hectares or portion of a hectare	x \$50.00 =	\$
	Total application and land use fees		\$ 200.00

FOR OFFICE USE ONLY

19. Calculation of area involved (Includes access, staging areas, airstrips, campsites, etc.)		
Total area (Ha) 2	Less than or equal to 2 hectares	TOTAL (For fee calculation) 50

20. Application checklist

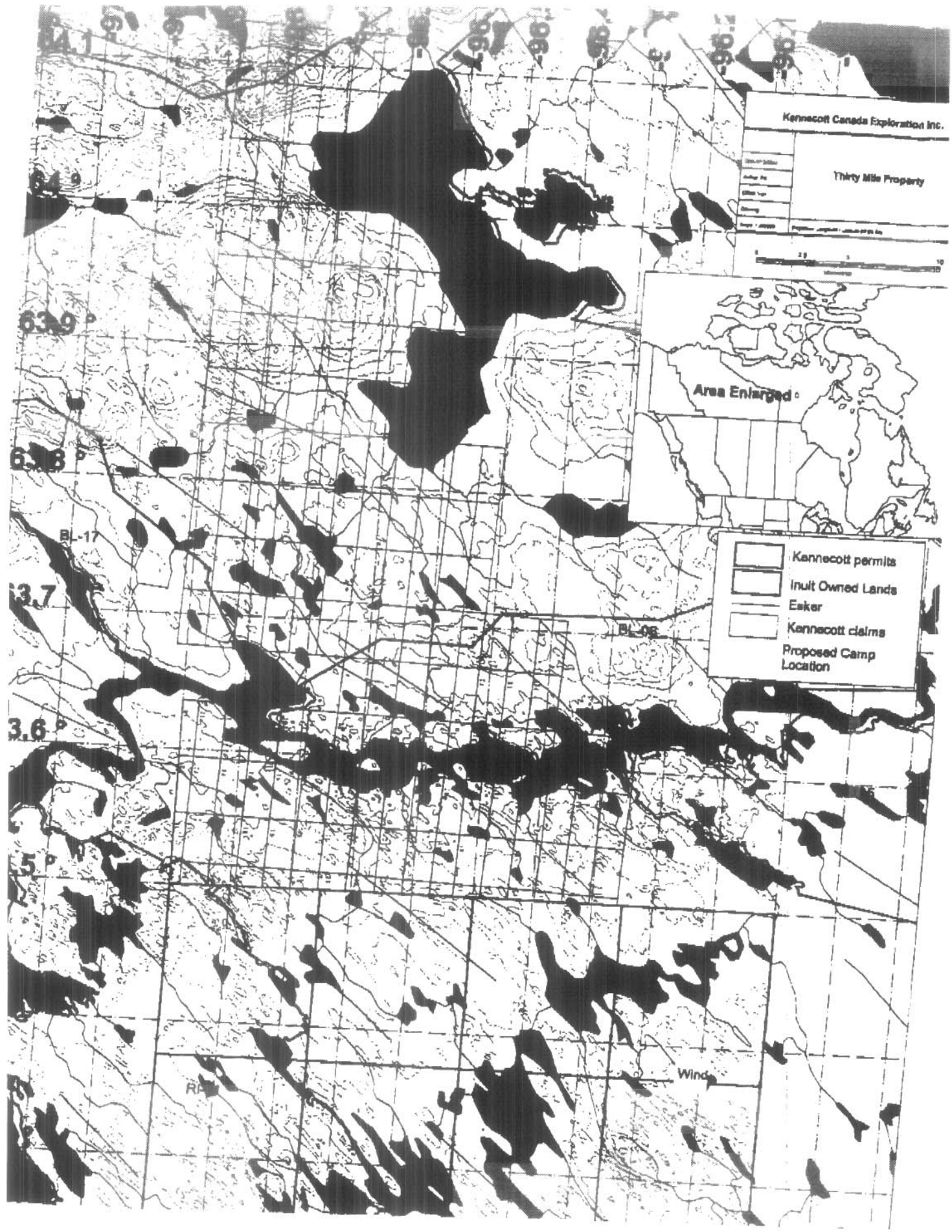
- |   |   |
|---|---|
| a) <input checked="" type="checkbox"/> Application signed and dated | e) <input type="checkbox"/> Screening report                  |
| b) <input checked="" type="checkbox"/> Fees attached                | f) <input type="checkbox"/> Timber permit applied for - Yukon |
| c) <input checked="" type="checkbox"/> Map included                 | g) <input type="checkbox"/> Fees attached                     |
| d) <input checked="" type="checkbox"/> Address and telephone number | h) <input type="checkbox"/> Lease applied for                 |

Accepted by	Date
Remarks (Please use last page if additional space is required)	



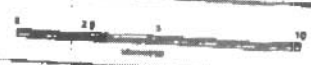
APPLICATION FOR LAND USE PERMIT

21. Additional information (Attach additional pages if necessary)



Kennecott Canada Exploration Inc.

Thirty Mile Property

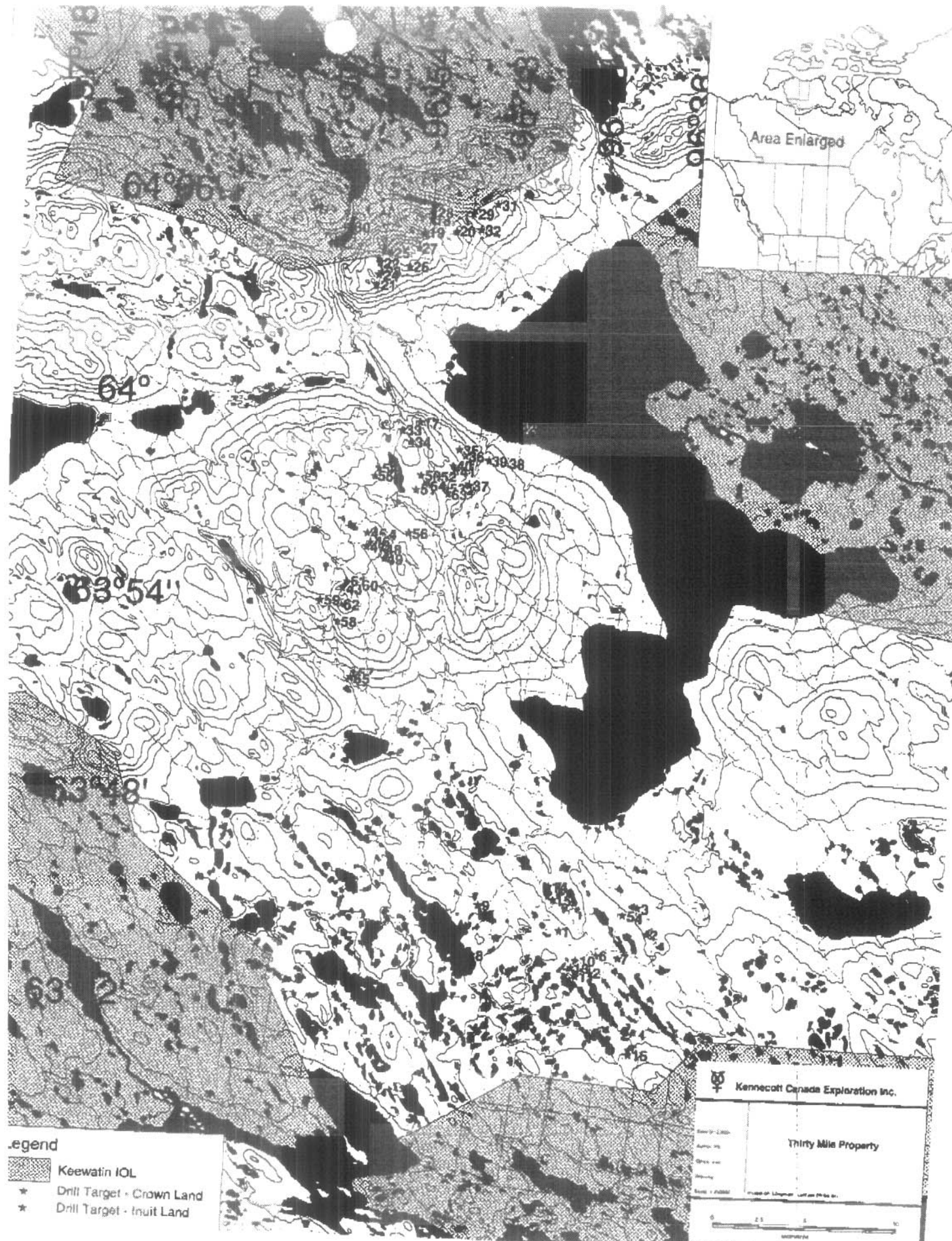


Area Enlarged

- Kennecott permits
- Inuit Owned Lands
- Esker
- Kennecott claims
- Proposed Camp Location

Wind





**KENNECOTT CANADA EXPLORATION INC.**  
**LICENSE KVL204C21**  
**2005 WORK AND ENVIRONMENTAL ACTION PLAN**

**KIVALLIQ INUIT ASSOCIATION ADMINISTRATIVE DISTRICT**

Kennecott Canada Exploration Inc. (KCEI) plans to conduct diamond exploration on our Thirty Mile Property in the Kivalliq District of Nunavut in 2005. The program will include exploration work on mineral claims southwest of Baker Lake and will cover an area contained by latitude 63°10'00" and 64°15'00" and longitude 96°00'00" and 97°15'00". Staking, sampling, ground geophysical surveys are planned for 2005.

KCEI plans to conduct exploration consisting of sampling of tills, eskers and order to locate any potential diamond-associated anomalies. Results of this and past exploration may lead to ground geophysical surveys and possibly drilling of some targets. Kennecott plans to apply for a Level 3 permit to accommodate the possibility of drilling. Staking may occur as early as March 2005, sampling and geophysics will likely not begin until mid-July and could continue as late as the end of October. Any drilling would not begin until August.

Planned surface exploration may take place on the following concession areas:

BL-05, BL-06, BL-17, BL-20, RI-31

Field survey crews will consist of a Kennecott Canada Exploration project geologist and seasonal field assistants. It is our hope to employ residents of Nunavut on these crews, and work with Nunavut-owned businesses as we have on other exploration projects in the territory. At this time, Kennecott has no construction of buildings or facilities planned on Inuit-owned lands. Currently, the Company plans to base the program from the hamlet of Baker Lake, should exploration progress further, a camp may be built on Crown land on the western shore of Pitz Lake at approximately 96°47'W by 63°59'30"N.

Samples will be collected manually from pits approximately 50 cm deep, and will be backfilled. Time at each sample site will be between 15 and 30 minutes, with minimal disruption of vegetation and wildlife. Kennecott is aware of the Caribou protection area and designated Caribou crossing to the west-southwest of the claim block, and will not cause any disruption thereof.

All aircraft will fly at an altitude that will not disrupt wildlife. Jet-B or Jet-A fuel will be used for aircraft operations, either from Baker Lake or a proposed fuel cache on crown lands in the claim block.

Kennecott is working with Peter's Expediting of Baker Lake to remove all waste to applicable disposal facilities.

The Company is not aware of the location of any sites of archaeological interest, but will plan our programs accordingly when advised of such sites. All suspected archaeological sites would be reported to the appropriate government department.





# PROPOSED DRILL TARGETS

Target	Longitude	Latitude	Easting UTM Zone 14N	Northing UTM Zone 14N
1	-96.65510	63.76048	615855	7072448
2	-96.55763	63.76292	620451	7072900
3	-96.57084	63.77530	619747	7074253
4	-96.57681	63.76981	619476	7073631
5	-96.58612	63.77105	619012	7073752
6	-96.61088	63.74982	617880	7071341
7	-96.58630	63.74951	619094	7071352
8	-96.74910	63.76949	610985	7073284
9	-96.74954	63.74462	611061	7070513
10	-96.63289	63.74632	616809	7070910
11	-96.63146	63.73844	616912	7070035
12	-96.62394	63.74139	617271	7070378
13	-96.63783	63.74269	616580	7070498
14	-96.67165	63.78216	614751	7074832
15	-96.66538	63.77551	615087	7074102
16	-96.56365	63.70183	620413	7066085
17	-96.87225	64.00544	604038	7098357
20	-96.85641	64.10051	604456	7109972
21	-96.83942	64.07084	600519	7106534
22	-96.93804	64.08193	600546	7107772
23	-96.93529	64.07740	600696	7107271
24	-96.93802	64.07585	600569	7107095
26	-96.90425	64.08119	602196	7107742
27	-96.89639	64.09116	602543	7108868
29	-96.83919	64.10999	605259	7111056
31	-96.81344	64.11582	606490	7111749
32	-96.82852	64.10290	605805	7110285
33	-96.89084	64.00064	603147	7098792
34	-96.88021	63.99536	603686	7098221
35	-96.82499	63.99411	606391	7098173
36	-96.81719	63.99133	606783	7097877
37	-96.80934	63.97688	607222	7096280
38	-96.77063	63.98997	609066	7097804
39	-96.79045	63.99027	608095	7097803
40	-96.83003	63.98576	606176	7097234
41	-96.82617	63.98333	606374	7096970
42	-96.76280	64.00807	609378	7099834
43	-96.93755	63.92006	601153	7089742
44	-96.90578	63.94800	602609	7092905
45	-96.91674	63.94844	602071	7092937
46	-96.91237	63.94414	602301	7092464
47	-96.91621	63.94164	602121	7092180
48	-96.89897	63.94119	602968	7092157
49	-96.89497	63.93651	603181	7091642
50	-96.86488	63.97949	604495	7096478
51	-96.86849	63.97221	604346	7095661
52	-96.84642	63.97942	605399	7096502
53	-96.83561	63.97400	605948	7095916
54	-96.91207	63.98098	602181	7096568
55	-96.91571	63.97702	602017	7096121

56	-96.87137	63.95059	604285	7093248
57	-96.91412	63.87872	602453	7085175
58	-96.93877	63.90322	601154	7087864
59	-96.96105	63.91312	600026	7088931
60	-96.91993	63.92212	602010	7089999
61	-96.93324	63.92333	601353	7090113
62	-96.93764	63.91218	601178	7088864
63	-96.83212	63.97167	606128	7095662
64	-96.85643	63.97478	604926	7095968
65	-96.91798	63.87626	602272	7084894



## **Preamble**

This abandonment and restoration plan applies to the Thirty Mile project operated by Kennecott Canada Exploration Inc.

## **Introduction**

This abandonment and restoration plan has been prepared to include the Pitz Lake camp, and for diamond drilling within the project area.

The project is at an early exploration stage with only wide-spaced till sampling and airborne geophysics completed to date.

Kennecott Canada exploration currently holds prospecting permits in the area and intends to continue with exploration for the 2005 field season. Planned activities include the establishment of a camp, additional geophysics, sampling and drilling.

## **Final Abandonment and Restoration**

It is Kennecott's intent to proceed with progressive reclamation, as the project proceeds. Non-combustible waste will be removed from camp on an ongoing basis using aircraft support. Most likely waste will be backhauled to Baker Lake, where we will coordinate with local businesses and authorities for its disposal. Drill sumps will be backfilled as part of each drill-site cleanup, and all waste material will be backhauled. Any hazardous waste will be handled in accordance with the transportation of dangerous goods guidelines and requirements.

At the project termination, any remaining equipment (including tents and empty 200-litre drums) will be removed from the site. At that time all remaining sumps will be filled in to ensure the area is reclaimed.



## **Schedule**

The abandonment and restoration of the campsite should take approximately 10 days to complete and will take place after all exploration activities have ceased. The plan will be applied with the help of the project personnel or sub-contractors under the guidance of the field supervisor.

## **Buildings and Content**

All the reusable equipment like tents, tent metal frames, stoves, mattresses, kitchen stove, refrigerator, other kitchen appliances and equipment, showers, hot water tank, etc...will be packaged and flown out to one of Baker Lake, Yellowknife or an alternative campsite. Some equipment may be donated or sold to nearby communities if wanted.

Any wooden structures like outhouses, tent wood floors, bunk beds and tables will be dismantled and incinerated on site. Nails, screws, anchors and other non-combustible parts will be recovered, packaged and flow out to an approved municipal discharge.

## **Water System**

Pump, tanks and hoses will be drained, dismantled, packaged and flown out to Yellowknife, Baker Lake or an alternative campsite. Any wooden shed built to protect the pump will be incinerated as for the other wood structures.

## **Electrical System**

The generator shed will be inspected for remaining hazardous waste (oil, grease). The generator will be drained of its fuel. Remaining waste fuel and oil will be collected in the appropriately labeled containers, and removed offsite. The shed will be dismantled and flown out to Yellowknife or an alternative campsite. The soil will be inspected for contamination.

Electrical wires, sockets, etc...will be taken down and flown out to Yellowknife, Baker Lake or an alternative campsite.

## **Fuel and Chemical Storage Facilities**

The fuel storage area will consist of segregated groups of drums with empties apart from full drums. At the end of the field season, an inventory of remaining fuel will be made and full drums will be inspected. Full and empty drums will be flow out to Yellowknife or an alternative campsite. Some fuel may be donated or sold to Nunavut communities. Propane cylinders will be flown out to Baker Lake.

Remaining waste fuel, stored in properly labeled drums will be flown out to a fuel outlet or discharge that accepts this type of fuel. Chemicals stored on site will consist of drill additives, oil, grease and household cleaners, which will also be backhauled.

## **Blackwater Sump**

At the end of the season the remaining pit will be filled back and leveled.

## **Campsite**

The campsite will have a final inspection. Areas showing too much wearing evidences will be leveled. Drill core to be left on site will be properly stored and secured.

## **Drilling areas restoration**

The drill will be dismantled into its main components as per the drilling contractor procedure, packaged and secured along with its ancillary equipment and rods. The drill will be flown out to another project, Yellowknife or to a storage site designated by the drilling contractor. All drill sites will be inspected for contamination. Any remaining waste will be taken to camp to be burned if possible or to be flown out to an approved municipal discharge. Greywater and sludge sumps will be filled and leveled.

As much as possible, drill sites will be restored immediately after the drill has been moved to the next site and sumps have drained enough to be leveled.

## **Documentation and Inspection**

Photos of camp and drill sites prior to building of drilling will be taken. Monitoring will be done during occupancy and photos taken. Once the site restored, it will again be documented with photos.

Any soil contaminated by hydrocarbons and unnoticed before abandonment will be treated as per the spill contingency plan.

The permit holder will organize a final site inspection visit with community representatives, Land Use Inspectors and in collaboration with Nunavut Water Board staff, if requested.

## **Seasonal Shutdown and Restoration Plan**

### **Buildings and Content**

All tent structures will be secured for the winter. All the equipment like stoves, mattresses, kitchen stove, refrigerator, other kitchen appliances and equipment, showers, hot water tank, etc...will be left on site. The camp will be secured. No food (including tinned food) will be left onsite. **Water System**

Pump, tanks and hoses will be drained and dismantled. Hoses will be rolled and stored in the work shed.

### **Electrical System**

The generator shed will be inspected for remaining hazardous waste (oil, grease) and will be drained of its fuel. The generator shed will be secured for winter. The soil will be inspected for contamination. Electrical wires, plugs and sockets will remain in their installed locations.

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

Inventory of remaining fuel will be made and full drums will be inspected and secured for the winter. Empty drums will be flown out to source. Empty propane cylinders will be flown out. Chemicals stored on site will consist of drill additives, oil, grease and household cleaners. All drill additives will be stored in the drill shed and secured for the winter. The soil of the areas will be inspected for contamination.

#### **Greywater Sump**

The greywater sump will be covered and secured for the winter.

#### **Blackwater Sump**

The outhouse tent will be secured for the winter.

#### **Helicopter pad**

The helicopter pad will be inspected for contamination.

#### **Drilling areas restoration**

The drill will be dismantled into its main components as per the drilling contractor procedure, packaged and secured along with its ancillary equipment and rods. The drill will be left on solid ground until next season. All drill sites will be inspected. Any remaining waste will be taken to camp to be burned if possible or be flown out to an approved municipal discharge. Greywater and sludge sumps will be filled and leveled. As much as possible, drill sites will be restored immediately after the drill has been moved to the next site and sumps have drained enough to be leveled.

#### **Documentation**

Equipment and buildings left on site will be inventoried. Photos of camp and drill sites prior to building of drilling will be taken. Monitoring will be done during occupancy and photos taken. Once the site secured for the winter, it will again be documented with photos.