



NIRB File No.: 06AN085
INAC File No.: N2006C0037
KIA File No.: KVL306C02
NWB File No.: 2BE-KIG0812

January 9, 2009

The Honourable Chuck Strahl
Minister of Indian and Northern Affairs Canada
Indian and Northern Affairs Canada
Gatineau, QC

Via email: Strahl.C@parl.gc.ca

Re: Extension Request for AREVA's Land Use Permit with Indian and Northern Affairs Canada and Land Use Licence with the Kivalliq Inuit Association for the Kiggavik-Sissons Exploration Project

Dear Honourable Minister Strahl:

On November 12, 2008, the Nunavut Impact Review Board (NIRB or Board) received an application from Indian and Northern Affairs Canada (INAC) for AREVA Resources Canada's (AREVA) "*Kiggavik-Sissons Exploration*" project. The application was for a one year extension to AREVA's Land Use Permit. Furthermore, on November 25, 2008 the NIRB received from AREVA, a two year extension request for their Land Use License with the Kivalliq Inuit Association (KIA).

The original application for the above project was received by the NIRB from the KIA on November 29, 2006. The proposal was screened in accordance with Part 4, Article 12 of the Nunavut Land Claims Agreement (NLCA) and on April 3, 2007 the NIRB issued a 12.4.4 (a) screening decision to KIA and INAC allowing the proposed uranium exploration activities including geophysics, soil sampling, mapping, diamond drilling and environmental baseline studies to proceed subject to project-specific terms and conditions (see attached April 3, 2007 Screening Decision Report).

On August 14, 2007, the NIRB received an amendment request from INAC for the AREVA project. After a thorough assessment of the amendment application information and comments received, the NIRB determined that this request would result in a change to the original scope of the project and re-issued the recommended terms and conditions (April 3, 2007 Screening Decision), along with additional terms and conditions as outlined in the August 30, 2007 letter to INAC (attached).

On March 26, 2008, the NIRB received an extension request from INAC for the AREVA project. After a thorough assessment of the extension request, the NIRB determined that the proposed extension for one year did not significantly change the general scope of the original project activities and re-issued the original terms and conditions (Screening Decision dated April 3, 2007) along with the additional terms and conditions as outlined in the August 30, 2007 letter. In addition, the NIRB recommended a one year extension to the Land Use Permit (i.e. to April 9, 2009) based on the original comments received from Parties. After the expiration of the permit, the NIRB indicated that it would review any requests related to the project proposal and that renewals thereafter would be subject to any findings, direction or advice

received by INAC and the KIA from the Government of Nunavut, Department of Environment (GN-DOE) as a result of the GN/GNWT Population Surveys conducted regarding the Beverly and Ahlak Caribou Herds.

The NIRB circulated the current extension request to the AREVA distribution list and requested that any concerns or comments related to the request be submitted to the NIRB by December 16, 2008. At the close of the NIRB's commenting period, submissions were received from the following parties:

- Government of Nunavut, Department of Culture, Language, Elders & Youth;
- Environment Canada;
- Government of Nunavut, Department of Environment (GN-DOE); and
- Beverly and Qamanirjuaq Caribou Management Board (BQCMB).

All comments provided to the NIRB regarding this project proposal can be viewed on the NIRB's ftp-site, at the following location: <http://ftp.nirb.ca/SCREENINGS/COMPLETED%20SCREENINGS/>

After a thorough assessment of the current extension request, the comments received, and the original project proposal, the NIRB has determined that the proposed extension does not *significantly* change the general scope of the original project activities. However, comments received from the GN-DOE and the BQCMB relating to the extension request included new information regarding the status of the Beverly caribou herd. Consequently, the NIRB is recommending the following additional terms and conditions be applied to any permits or licenses related to this file, which are designed to minimize the potential adverse impacts that extensions to project authorizations may pose:

1. The Proponent shall make all efforts to minimize the use of aerial surveys to obtain information about caribou. It is recommended that the Proponent employ daily stationary ground observations and satellite caribou collar data in obtaining the necessary monitoring data.
2. The Proponent shall not conduct aerial surveys with flight altitudes less than 120 m above ground level between June 1 and August 15.
3. The Proponent shall not construct camps, cache fuel, conduct blasting or drilling activities, or operate ground, air, or marine based mobile equipment within 10 km of a 'designated and/or recognized caribou crossing' during periods of caribou migration.
4. Where wildlife are present, AREVA shall maintain a minimum flight altitude of 610 m above ground level where it is safe to do so.
5. The Proponent shall maintain a daily logbook of caribou observations and submit these records to the Government of Nunavut, Department of Environment on a monthly basis.

Additionally, the NIRB is confirming that the original terms and conditions issued in the attached April 3, 2007 Screening Decision (attached) and the additional terms and conditions issued August 30, 2007 (attached) would continue to apply to the extended Land Use Permit (INAC) and Land Use Licence (KIA).

Furthermore, the NIRB recommends that any renewal or extensions requests for the project proposal should continue to be forwarded to the NIRB for assessment.

If you have any questions or concerns, please do not hesitate to contact the NIRB's Technical Advisor, Sophia Granchinho, at sgranchinho@nirb.ca or by phone at 867-983-4607.

Sincerely,



Lucassie Arragutainaq
Acting Chairperson
Nunavut Impact Review Board

cc: Mark Warbanski, AREVA
Spencer Dewar, INAC
Luis Manzo, KIA
Phyllis Beaulieu, NWB

Attachment: NIRB Screening Decision Report, File No.: 06AN085 (April 3, 2007)
Additional Terms and Conditions for NIRB File No.: 06AN085 (August 30, 2007)

- 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.

NIRB Assessment and Decision

After a thorough assessment of all material provided to the Nunavut Impact Review Board (NIRB or Board) (see Appendix D), the decision of the Board as per section 12.4.4 of the NLCA 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.

NIRB Recommendations and Recommended Conditions

Although this project proposal is not located within known calving grounds for the Beverly caribou herds, the Board recognizes that the project area may be used for spring-migration, post-calving, and late summer activities for the Beverly caribou herd. In addition, the Board also recognizes that the Thelon Heritage River is considered to be part of Canada's Heritage River System, and understands that some of the project activities, such as geophysical survey flying, will be taking place approximately 10km from the river. Therefore, the Board is recommending broader terms and conditions because of the sensitivities of the Beverly caribou herd and the importance of the Thelon Heritage River. They are the following:

1. As an overriding consideration, Indian and Northern Affairs Canada (INAC) impose strict mitigation measures, conditions and monitoring requirements pursuant to the Federal Land Use Permit, which require AREVA (the Proponent) to respect the sensitivities and importance of the area. These mitigation measures, conditions and monitoring requirements should be in regard to:
 - a. Location and Area
 - b. Time
 - c. Equipment
 - d. Methods and Techniques
 - e. Control or Prevention of Flooding, Erosion and Subsidence of Land
 - f. Use, Storage, Handling and Disposal of Chemical or Toxic Material
 - g. Wildlife and Fisheries Habitat
 - h. Objects and Places of Recreational, Scenic and Ecological Value
 - i. Petroleum Fuel Storage
 - j. Matters Not Consistent with the Regulations
2. INAC must consider the importance of conducting regular Land Use Inspections, pursuant to the authority of the Federal Land Use Permit, while the project is in operation. The Land Use Inspections should be focused on ensuring the Proponent is in compliance with the DIAND Caribou Protection Measures.
3. INAC recognize that any activity related to this application (INAC Land Use Permit application N2006C0037) outside the original scope of the project proposal **will** be considered a new project and must be submitted to NIRB for screening. In addition, NIRB recommends that any renewal requests for the project proposal should be forwarded to NIRB for re-screening.

4. The Kivalliq Inuit Association (KIA) impose strict mitigation measures and/or Environment Terms and Conditions pursuant to the Inuit Owned Lands License (KVK306C02) in regard to:
 - a. General Standards
 - b. Fuel and Chemical Storage
 - c. Campsites
 - d. Fisheries
 - e. Ground Disturbance
 - f. Wildlife
 - g. Any other conditions recommended by the appropriate Community Lands and Resource Committee (CLARC)
5. KIA recognize that any activity related to this application (KIA Inuit Owned Lands License KVL306C02) outside the original scope of the project proposal **will** be considered a new project and must be submitted to NIRB for screening. In addition, NIRB recommends that any renewal requests for the project proposal should be forwarded to NIRB for re-screening.
6. The Government of Nunavut – Department of Environment (GN-DOE) Conservation Officers should conduct random inspections of the project location during the months of May, June, July and August to ensure the Proponent is in compliance with the DIAND Caribou Protection Measures.
7. The GN-DOE should conduct on-going review of wildlife monitoring results submitted from the Proponent as required by the Wildlife Mitigation and Monitoring Plan. Following submission of the required annual report by January 31, 2008 to NIRB, INAC, the KIA and the GN-DOE, the GN-DOE should report to NIRB and INAC its findings regarding the possible impact of the project on the Beverly and Ahiak caribou herds. As noted in correspondence provided to NIRB, the GN recommended a one-year Land Use Approval to be issued, subject to the findings of the 2007 GN/GNWT Population Surveys of the Beverly and Ahiak Caribou Herds.

In addition, the Board is recommending the following or similar project-specific terms and conditions be imposed upon the Proponent through all relevant legislation pursuant to 12.4.4(a) of the NLCA:

1. The term of the permitted activities associated with Land Use Permit N2006C0037 and Inuit Owned Lands License KVL306C02 is subject to any findings, direction or advice received by INAC and the KIA from the GN-DOE as a result of the 2007 GN/GNWT Population Surveys of the Beverly and Ahiak Caribou Herds.
2. AREVA (the Proponent) shall maintain a copy of this Screening Decision at the site of operation at all times.
3. The Proponent shall forward copies to NIRB of all permits obtained and required for this project prior to the commencement of the project.
4. The Proponent shall operate in accordance with commitments stated in Appendix A and all Operation Plans provided to NIRB, namely:
 - a. Spill Contingency Plan
 - b. Abandonment and Restoration Plan
 - c. Noise Abatement Plan
 - d. Waste Management Plan

- e. Wildlife Mitigation and Monitoring Plan
 - f. Radiation Safety Plan
 - g. Environmental Code of Practice
5. The Proponent shall submit an annual report with copies provided to the NIRB, INAC, the KIA, and GN-DOE by January 31 each year that the project is in operation commencing January 31, 2008. The report must contain, but not be limited to, the following information:
 - a. A summary of activities undertaken for the year and a work plan for the following year;
 - b. The results of environmental studies undertaken and plans for future studies;
 - c. A discussion of the implementation of the Operational Plans, and analysis regarding the effectiveness of the Operational Plans to mitigate adverse environmental impacts;
 - d. Specific to the Wildlife Mitigation and Monitoring Plan: the results from the Caribou Monitoring Program, wildlife encounters and actions/mitigation taken, an analysis of the effectiveness of mitigation measures for wildlife and any anticipated follow-up monitoring program(s);
 - e. A discussion regarding the effects to human health from uranium exploration activities;
 - f. A summary of local hires and initiatives;
 - g. A summary of community consultations
 - h. A summary of site-visits by Land Use Inspectors with results and follow-up actions, including those approvals given by Land Use Inspectors regarding Caribou Protection Measures;
 - i. Site photos;
 - j. Progressive reclamation work undertaken;
 - k. Efforts made to achieve compliance with the *Canadian Wide Standards for Dioxins and Furans*, and the *Canadian Wide Standards for Mercury*; and
 - l. A summary of how the Proponent has complied with NIRB conditions contained within this Screening Decision, and the conditions associated with all authorizations for the project proposal.
 6. The Proponent shall abide by all DIAND Caribou Protection Measures and those mitigation measures outlined in the Wildlife Mitigation and Monitoring Plan.
 7. The Proponent shall be prohibited to allow aircraft take-offs and landings when groups of caribou are within 1km of the airstrip or helipad.
 8. The Proponent must immediately update its Wildlife Mitigation and Monitoring Plan to include the following requirement:
 - a. Section 2.1 *During June and July* – To avoid injuries to caribou and humans, if one or more caribou approach within **1km** of drilling operations, then activities will be suspended until caribou leave the area.

Any subsequent direction provided by the Government of Nunavut Department of Environment and/or the Kivalliq Inuit Association regarding the Caribou Monitoring Plan must be forwarded to NIRB.
 9. The Proponent shall ensure that there is no hunting or fishing by employees of the company or any contractors hired unless proper Nunavut authorizations have been obtained.
 10. The Proponent shall ensure that the disposal of combustible camp wastes comply with the *Canadian Wide Standards for Dioxins and Furans*, and the *Canadian Wide Standards for*

Mercury. Efforts made to achieve compliance shall be reported to the NIRB as part of the annual report.

11. The Proponent shall adhere to conditions stated in attached Appendix B *Archaeological and Palaeontological Resources – Terms and Conditions for Land Use Permit Holders*

12. The Proponent shall avoid the known archaeological and/or palaeontological sites listed in Appendix C.

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 ____April 3, 2007____ at Sanikiluaq, NU.



Lucassie Arragutainaq, A/Chairperson

Appendix A

Summary of Proponent Commitments

1. The disturbances to permafrost will be mitigated by insulating the floors of buildings, and keeping the sump area and incinerator area small, raising the incinerator above the ground.
2. Disturbance to soil and vegetation will be minimized by using walkways. After more than 20 years of camp operation at the site, there is very little sign of disturbance.
3. The impact of helicopter and airplane noise and presence on wildlife and people will be mitigated by avoiding wildlife during flights and avoiding low flying. This will require ongoing communication and diligence.
4. The presence of wildlife will be carefully monitored to ensure minimal disturbance. Daily wildlife sitting records will be maintained and these will be used to plan work so that wildlife disturbance will be minimized. The information will also be provided to management boards and regulatory authorities.
5. Water quality will be protected from spills and drilling by use of protective procedures and containments.
6. Greywater will be treated through sumps and carefully monitored to ensure containment. No garbage will remain onsite.
7. The camp will be decommissioned when no longer used.
8. No fuel, drill cuttings, chemicals, wastes or sediment will be deposited into any water body as per the *Fisheries Act*, Section 36(3).
9. Sumps, including those created for the disposal of drill cuttings will be located above the high water mark of any water body in such a manner as to prevent the contents from entering any water body frequented by fish.
10. Drilling additives or mud will not be used in connection with holes drilled through lake ice unless they are re-circulated or contained such that they do not enter the water or demonstrated to be non-toxic.
11. Land based drilling will not occur within 30 m of the high water mark of any water body.
12. Materials will not be stored on the surface ice of lakes or streams. Materials on the ice surface must be for immediate use.
13. If an artesian flow is encountered, the drill hole will be immediately plugged and permanently sealed.
14. In terms of the winter road:
 - a. Travel will not begin until the ground is sufficiently frozen to provide support and to avoid surface damage and rutting.
 - b. Stream crossings shall be located to minimize approach grades. Bank disturbance will be avoided and mechanized clearing will not be done immediately adjacent to any watercourse
 - c. Winter lake/stream crossings will be constructed entirely of ice and snow materials; stream crossings will be removed or notched prior to spring break-up

Appendix B



BACKGROUND

Archaeology

As stated in Article 33 of the Nunavut Land Claims Agreement:

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. [33.2.1]

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. [33.2.2]

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 Claims Agreement. [33.2.5]

Palaeontology

Under the Nunavut Act¹, the federal government can make regulations for the protection, care and preservation of palaeontological sites and specimens in Nunavut. Under the *Nunavut Archaeological and Palaeontological Sites Regulations*², it is illegal to alter or disturb any palaeontological site in Nunavut unless permission is first granted through the permitting process.

Definitions

As defined in the *Nunavut Archaeological and Palaeontological Sites Regulations*, the following definitions apply:

“archaeological site” means a place where an archaeological artifact is found.

¹ s. 51(1)

² P.C. 2001-1111 14 June, 2001

“archaeological artifact” means any tangible evidence of human activity that is more than 50 years old and in respect of which an unbroken chain of possession or regular pattern of usage cannot be demonstrated, and includes a Denesuline archaeological specimen referred to in section 40.4.9 of the Nunavut Land Claims Agreement.

“palaeontological site” means a site where a fossil is found.

“fossil” includes:

- (a) natural casts
- (b) preserved tracks, coprolites and plant remains; and
- (c) the preserved shells and exoskeletons of invertebrates and the eggs, teeth and bones of vertebrates.

Terms and Conditions

- 1) The permittee shall not operate any vehicle over a known or suspected archaeological or palaeontological site.
- 2) The permittee shall not remove, disturb, or displace any archaeological artifact or site, or any fossil or palaeontological site.
- 3) The permittee shall immediately contact the Department of Culture, Language, Elders and Youth (867) 934-2046 or (867) 975-5500 or 1 (866) 934-2035 should an archaeological site or specimen, or a palaeontological site or fossil be encountered or disturbed by any land use activity.
- 4) The permittee shall immediately cease any activity that disturbs an archaeological or palaeontological 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.
- 5) The permittee shall follow the direction of the Department of Culture, Language, Elders and Youth and DIAND in restoring disturbed archaeological or palaeontological sites to an acceptable condition.
- 6) The permittee shall provide all information requested by the Department of Culture, Language, Elders and Youth concerning all archaeological sites or artifacts and all palaeontological sites and fossils encountered in the course of any land use activity.
- 7) The permittee shall make best efforts to ensure that all persons working under authority of the permit are aware of these conditions concerning archaeological sites and artifacts, and palaeontological sites and fossils.
- 8) The permittee shall avoid the known archaeological and/or palaeontological sites listed in Attachment 1.

9) The permittee shall have an archaeologist or palaeontologist perform the following functions, as required by the Department of Culture, Language, Elders and Youth:

- a) survey
- b) inventory and documentation of the archaeological or palaeontological resources of the land use area
- c) assessment of potential for damage to archaeological or palaeontological sites
- d) mitigation
- e) marking boundaries of archaeological or palaeontological sites
- f) site restoration

The Department of Culture, Language, Elders and Youth shall authorize by way of a Nunavut Archaeologist Permit or a Nunavut Palaeontologist Permit, all procedures subsumed under the above operations.

Appendix C
Confidential Archaeological Sites

Attachment 1

CONFIDENTIAL

Borden No. LdLh-3
 Latitude 64 37 09 N
 Longitude 098 26 12 W
 Map No. 66B/9
 Class. indigenous historic

Borden No. LbLe-1
 Latitude 64 20 00 N
 Longitude 097 28 00 W
 Map No. 66A
 Class. prehistoric

Borden No. LdLf-4
 Latitude 64 39 55 N
 Longitude 097 50 00 W
 Map No. 66A/12
 Class. prehistoric

Borden No. LdLh-2
 Latitude 64 36 42 N
 Longitude 098 28 21 W
 Map No. 66B/9
 Class. indigenous historic

Borden No. LdLh-4
 Latitude 64 37 01 N
 Longitude 098 24 53 W
 Map No. 66B/9
 Class. prehistoric;
 indigenous historic

Borden No. LdLh-5
 Latitude 64 35 38 N
 Longitude 098 22 38 W
 Map No. 66B/9
 Class. prehistoric;
 indigenous historic

Borden No. LeLf-5
 Latitude 64 44 41 N
 Longitude 097 52 32 W
 Map No. 66A/12
 Class. prehistoric

Borden No. LaLg-1
 Latitude 64 00 12 N
 Longitude 098 02 16 W
 Map No. 66B/1
 Class. undetermined

Borden No. LaLg-2
 Latitude 64 00 34 N
 Longitude 098 02 31 W
 Map No. 66B/1
 Class. indigenous historic

Borden No. LaLg-3
 Latitude 64 00 33 N
 Longitude 098 01 35 W
 Map No. 66B/1
 Class. undetermined

Borden No. LdLd-1
 Latitude 64 39 50 N
 Longitude 097 06 39 W
 Map No. 66A/11
 Class. undetermined

Borden No. LdLd-2 A
 Latitude 64 39 46 N
 Longitude 097 05 26 W
 Map No. 66A/11
 Class. prehistoric

Borden No. LdLd-2 B
 Latitude 64 39 46 N
 Longitude 097 05 26 W
 Map No. 66A/11
 Class. prehistoric

Borden No. LdLd-2 C
 Latitude 64 39 46 N
 Longitude 097 05 26 W
 Map No. 66A/11
 Class. prehistoric

Borden No. LdLd-2 D
 Latitude 64 39 46 N
 Longitude 097 05 26 W
 Map No. 66A/11
 Class. prehistoric

Borden No. LdLd-3
 Latitude 64 39 13 N
 Longitude 097 05 46 W
 Map No. 66A/11
 Class. prehistoric

Borden No. LdLd-4
 Latitude 64 39 18 N
 Longitude 097 05 55 W
 Map No. 66A/11
 Class. prehistoric

Borden No. LeLf-2
 Latitude 64 41 07 N
 Longitude 097 50 16 W
 Map No. 66A/12
 Class. prehistoric

Borden No. LeLf-3
 Latitude 64 40 35 N

Longitude	097 50 19 W	Class.	prehistoric
Map No.	66A/12		
Class.	prehistoric	Borden No.	LdLe-1
Borden No.	LeLf-4	Latitude	64 30 02 N
Latitude	64 40 32 N	Longitude	097 30 54 W
Longitude	097 51 11 W	Map No.	66A/12
Map No.	66A/12	Class.	prehistoric
Class.	prehistoric	Borden No.	LcLe-10
Borden No.	LcLe-1	Latitude	64 29 02 N
Latitude	64 29 35 N	Longitude	097 30 23 W
Longitude	097 29 44 W	Map No.	66A/5
Map No.	66A/6	Class.	prehistoric
Class.	prehistoric	Borden No.	LcLe-11
Borden No.	LcLe-2	Latitude	64 28 16 N
Latitude	64 29 24 N	Longitude	097 33 35 W
Longitude	097 29 58 W	Map No.	66A/5
Map No.	66A/6	Class.	prehistoric
Class.	prehistoric	Borden No.	LcLf-1
Borden No.	LcLe-3	Latitude	64 27 29 N
Latitude	64 29 19 N	Longitude	097 53 58 W
Longitude	097 30 03 W	Map No.	66A/5
Map No.	66A/5	Class.	prehistoric
Class.	prehistoric	Borden No.	LcLf-2
Borden No.	LcLe-4	Latitude	64 27 15 N
Latitude	64 29 24 N	Longitude	097 53 50 W
Longitude	097 30 11 W	Map No.	66A/5
Map No.	66A/5	Class.	prehistoric
Class.	prehistoric	Borden No.	LcLg-1
Borden No.	LcLe-5	Latitude	64 27 58 N
Latitude	64 29 25 N	Longitude	098 16 45 W
Longitude	097 30 19 W	Map No.	66B/8
Map No.	66A/5	Class.	prehistoric; indigenous historic
Class.	prehistoric	Borden No.	LcLg-2
Borden No.	LcLe-6	Latitude	64 27 34 N
Latitude	64 29 29 N	Longitude	098 15 47 W
Longitude	097 30 25 W	Map No.	66B/8
Map No.	66A/5	Class.	prehistoric; indigenous historic
Class.	prehistoric	Borden No.	LcLg-3
Borden No.	LcLe-7	Latitude	64 27 31 N
Latitude	64 29 32 N	Longitude	098 14 09 W
Longitude	097 30 32 W	Map No.	66B/8
Map No.	66A/5	Class.	prehistoric; indigenous historic
Class.	prehistoric	Borden No.	LcLg-4
Borden No.	LcLe-8	Latitude	64 27 24 N
Latitude	64 29 45 N	Longitude	098 12 42 W
Longitude	097 30 48 W		
Map No.	66A/5		

Map No. 66B/8
Class. prehistoric;
indigenous historic

Borden No. LcLg-5
Latitude 64 27 18 N
Longitude 098 11 22 W
Map No. 66B/8
Class. prehistoric;
indigenous historic

Borden No. LcLg-6
Latitude 64 27 09 N
Longitude 098 10 45 W
Map No. 66B/8
Class. prehistoric;
indigenous historic

Borden No. LcLg-7
Latitude 64 27 04 N
Longitude 098 10 17 W
Map No. 66B/8
Class. prehistoric;
indigenous historic

Borden No. LcLg-8
Latitude 64 27 14 N
Longitude 098 10 07 W
Map No. 66B/8
Class. prehistoric;
indigenous historic

Borden No. LcLg-9
Latitude 64 27 02 N
Longitude 098 09 19 W
Map No. 66B/8
Class. prehistoric;
indigenous historic

Borden No. LcLg-10
Latitude 64 27 13 N
Longitude 098 08 54 W
Map No. 66B/8
Class. prehistoric;
indigenous historic

Borden No. LcLg-11
Latitude 64 27 14 N
Longitude 098 07 17 W
Map No. 66B/8
Class. prehistoric;
indigenous historic

Borden No. LcLg-12
Latitude 64 27 11 N
Longitude 098 05 26 W

Map No. 66B/8
Class. prehistoric;
indigenous historic

Borden No. LcLe-12
Latitude 64 29 42 N
Longitude 097 29 41 W
Map No. 66A/6
Class. prehistoric

Borden No. LcLe-13
Latitude 64 29 15 N
Longitude 097 28 59 W
Map No. 66A/6
Class. prehistoric

Borden No. LcLe-14
Latitude 64 29 03 N
Longitude 097 28 51 W
Map No. 66A/6
Class. prehistoric

Borden No. LcLe-15
Latitude 64 29 11 N
Longitude 097 29 21 W
Map No. 66A/6
Class. prehistoric

Borden No. LdLe-2
Latitude 64 30 19 N
Longitude 097 30 20 W
Map No. 66A/12
Class. prehistoric

Borden No. LdLe-3
Latitude 64 30 32 N
Longitude 097 30 29 W
Map No. 66A/12
Class. prehistoric

Borden No. LdLe-4
Latitude 64 30 56 N
Longitude 097 32 08 W
Map No. 66A/12
Class. prehistoric

Borden No. LdLe-5
Latitude 64 31 31 N
Longitude 097 32 53 W
Map No. 66A/12
Class. prehistoric

Borden No. LdLe-6
Latitude 64 31 42 N
Longitude 097 31 29 W
Map No. 66A/12

Class.	prehistoric	Latitude	64 27 54 N
Borden No.	LdLe-7	Longitude	098 07 12 W
Latitude	64 31 12 N	Map No.	66B/8
Longitude	097 31 06 W	Class.	prehistoric;
Map No.	66A/12		indigenous historic
Class.	prehistoric	Borden No.	LcLg-19
Borden No.	LcLe-16	Latitude	64 27 42 N
Latitude	64 28 54 N	Longitude	098 06 43 W
Longitude	097 30 12 W	Map No.	66B/8
Map No.	66A/5	Class.	prehistoric;
Class.	prehistoric		indigenous historic
Borden No.	LcLe-17	Borden No.	LcLg-20
Latitude	64 28 58 N	Latitude	64 27 34 N
Longitude	097 31 01 W	Longitude	098 06 48 W
Map No.	66A/5	Map No.	66B/8
Class.	prehistoric	Class.	undetermined
Borden No.	LcLg-13	Borden No.	LcLf-3
Latitude	64 27 06 N	Latitude	64 20 50 N
Longitude	098 09 09 W	Longitude	097 50 33 W
Map No.	66B/8	Map No.	66A/5
Class.	prehistoric;	Class.	prehistoric
	indigenous historic	Borden No.	LcLf-4
Borden No.	LcLg-14	Latitude	64 20 51 N
Latitude	64 27 18 N	Longitude	097 50 55 W
Longitude	098 09 01 W	Map No.	66A/5
Map No.	66B/8	Class.	prehistoric
Class.	prehistoric;	Borden No.	LcLf-5
	historic	Latitude	64 21 00 N
Borden No.	LcLg-15	Longitude	097 50 58 W
Latitude	64 27 27 N	Map No.	66A/5
Longitude	098 09 06 W	Class.	indigenous historic
Map No.	66B/8	Borden No.	LcLf-6
Class.	prehistoric;	Latitude	64 21 39 N
	indigenous historic	Longitude	097 50 31 W
Borden No.	LcLg-16	Map No.	66A/5
Latitude	64 27 28 N	Class.	undetermined
Longitude	098 08 35 W	Borden No.	LcLf-7
Map No.	66B/8	Latitude	64 21 23 N
Class.	prehistoric;	Longitude	097 51 31 W
	indigenous historic	Map No.	66A/5
Borden No.	LcLg-17	Class.	prehistoric
Latitude	64 27 52 N	Borden No.	LbLf-1
Longitude	098 08 11 W	Latitude	64 17 47 N
Map No.	66B/8	Longitude	097 51 37 W
Class.	prehistoric;	Map No.	66A/5
	historic	Class.	indigenous historic
Borden No.	LcLg-18	Borden No.	LcLf-8

Latitude	64 20 53 N	Longitude	098 03 06 W
Longitude	097 50 45 W	Map No.	66B/8
Map No.	66A/5	Class.	indigenous historic
Class.	prehistoric		
Borden No.	LcLf-9	Borden No.	LcLf-11
Latitude	64 21 05 N	Latitude	64 21 09 N
Longitude	097 50 30 W	Longitude	097 50 25 W
Map No.	66A/5	Map No.	66A/5
Class.	indigenous historic	Class.	prehistoric
Borden No.	LcLf-10		
Latitude	64 23 28 N		
Longitude	097 50 19 W		
Map No.	66A/5		
Class.	prehistoric		
Borden No.	LbLd-1		
Latitude	64 19 56 N		
Longitude	097 19 26 W		
Map No.	66A/6		
Class.	indigenous historic		
Borden No.	LcLe-18		
Latitude	64 21 30 N		
Longitude	097 28 40 W		
Map No.	66A/6		
Class.	indigenous historic		
Borden No.	LcLg-21		
Latitude	64 22 08 N		
Longitude	098 04 03 W		
Map No.	66B/8		
Class.	prehistoric; indigenous historic		
Borden No.	LcLg-23		
Latitude	64 23 59 N		
Longitude	098 01 54 W		
Map No.	66B/8		
Class.	undetermined		
Borden No.	LcLg-24		
Latitude	64 25 18 N		
Longitude	098 03 27 W		
Map No.	66B/8		
Class.	prehistoric		
Borden No.	LcLg-25		
Latitude	64 27 25 N		
Longitude	098 06 31 W		
Map No.	66B/8		
Class.	undetermined		
Borden No.	LcLg-22		
Latitude	64 24 16 N		

Appendix D

File History

On November 29, 2006, the Nunavut Impact Review Board (NIRB) received a project proposal from AREVA for the Kiggavik-Sissons project proposal from the Kivalliq Inuit Association. On November 30, 2006 NIRB notified AREVA that an NPC conformity determination would be required for the project proposal, and also requested additional information from the Proponent. A positive conformity determination was received on December 15, 2006.

On February 1, 2007 NIRB received the requested information from the Proponent, and on February 5, 2007 commenced the Part 4 Screening. NIRB requested interested Parties provide comments to NIRB by February 26, 2007.

The project is located approximately 80km west of Baker Lake.

The project activities include:

- Satellite remote sensing
- Aircraft remote sensing to collect airborne geophysics data
- Soil sampling supported by helicopter
- Sediment sampling
- On-land drilling supported by helicopter
- Winter overland transportation of goods
- Construction of temporary wooden camp, and expansion of existing structures
- Fuel transportation and storage
- Chemical transportation and storage
- Core storage
- Environmental baseline work consisting of field surveys conducted on foot and supported by helicopter
- Ground geophysical surveys conducted on foot and supported by helicopter
- Geological mapping and prospecting conducted on foot and supported by helicopter
- Possible landing of aircraft with tundra tires on eskers
- Consumption of water and generation of waste

This application was distributed to Baker Lake and to interested Federal and Territorial Agencies.

On February 19, 2007 the Government of Nunavut – Department of Environment requested additional time to review the project information. Subsequently, NIRB granted all Parties until March 12, 2007 to provide comments to NIRB.

By March 12, 2007 NIRB received comments from the following interested Parties:

- Mr. Orin Durey of Baker Lake
- The Government of Nunavut Department of Environment
- The Government of Nunavut Department of Culture, Language, Elders and Youth
- The Beverly and Qamanirjuaq Caribou Management Board
- Environment Canada

Concerns regarding the project proposal were expressed by all interested Parties except for the Department of Culture, Language, Elders and Youth.

The main concerns related to:

- Project activities occurring in lands used by Beverly and Ahiak caribou herds for calving and post-calving
- Potential impacts to caribou from drilling, geophysical surveys, unavoidable low-level flights, and aircraft activity in general
- The necessity of a rigorous wildlife monitoring with particular emphasis on caribou
- Potential impacts to humans and wildlife, including grizzly bears, wolverines, wolves foxes, and raptor nesting areas from noise, human-carnivore interactions and general disruption
- Omissions regarding details about the winter road, including concerns related to use of winter trail prior to completion of the NIRB Part 4 Screening process
- Omissions in the Spill Contingency Plan
- Insufficient information contained within the Abandonment and Restoration Plan, such as details pertaining to the disposal of radioactive sediment, reclamation of the helicopter landing pad, testing for contaminated soils
- Potential for cumulative effects with other projects in the area
- Potential for impacts to air quality related to incineration of wastes
- Proximity of the project proposal to the Thelon Canadian Heritage River, and recognition of the Thelon Game Sanctuary Management Plan, the Thelon Wildlife Sanctuary, and the associated Special Management Areas
- Clarification regarding use of eskers to access project locations

One of the specific comments provided by GN-DOE was to limit the time period of the permit to one-year only (2007). This is to allow for additional review in the following year (2008) after completion of the 2007 GN/GNWT Population Surveys of the Beverly and Ahiak Caribou Herds related to herd population trends and the potential impact of exploration activities.

NIRB provided AREVA with the opportunity to respond to all the comments and concerns by March 20, 2007.

On March 20, 2007 NIRB received AREVA's response to Parties' comments, which included the following:

1. Revised NIRB Part 1 Screening Form in English and Inuktitut
2. Revised NIRB Part 2 Screening Form
3. Revised Spill Contingency Plan
4. Revised Abandonment and Restoration Plan
5. Noise Abatement Plan (new)
6. Waste Management Plan (new)
7. Wildlife Mitigation and Monitoring Plan (new)
8. Radiation Protection Plan (new)
9. Revised Figure 2: Project Location
10. Figure 11: Proposed Aerial Survey Blocks for Caribou Monitoring (new)
11. Figure 12: Winter Road Options for 2007 Exploration Program (new)

Additional Terms and Conditions for NIRB File No: 06AN085 (August 30, 2007)

Spill Contingency Plan

1. The Proponent (AREVA) is required to consult and implement the recommendations found in the 2003 CCME Guidance Document PN 1326 entitled "Environmental Code of Practice for Above Ground and Underground Storage Tank Systems containing Petroleum Product and Allied Petroleum Products".
2. The Proponent is required to revise its Spill Contingency Plan regarding this amendment and conduct proper personnel re-training as per the revised Spill Contingency Plan. The Proponent is required to submit the revised Spill Contingency Plan to NIRB and other regulators within 30 days of issuance of this decision. The revised Spill Contingency Plan should include, but not be limited to, the following items:
 - The quantity of the proposed double-walled tanks and the site layout plan.
 - Design considerations for safe operation and maintenance.
 - Operation, maintenance and inspection procedures.
 - Emergency response plan (worst-case scenarios, i.e. fire, collision by vehicles etc.).
3. The Proponent is required to ensure a secondary containment or a surface liner (drip pans, fold-a-tanks, etc) with adequate size and volume, be utilized during all fuel or hazardous substance transfers.
4. The Proponent shall provide sufficient absorbent materials and spill kits during fuel transportation, storage, and transfers.

Drilling and disposal of radioactive substances

5. The Proponent is required to use biodegradable and non-toxic additives. The Canadian Environmental Protection Act lists CaCl as a toxic substance.
6. Drill holes that encounter uranium mineralization with a content greater than 1.0% over a length of more than 1 meter with a metre-percent concentration greater than 5% should be sealed by cementing over the entire mineralization zone; this should be at least 10 meters above and below each mineralization zone.
7. All land-based artesian holes shall be documented, plugged and sealed with grout.
8. Core storage areas should be located at least 100 meters from the high waterline of all water bodies.

Physical Environment

9. The Proponent 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. The Proponent shall suspend overland travel of equipment or vehicles if rutting occurs.
10. The Proponent shall ensure that the additional camp facilities are located on gravel, sand or other durable land.
11. The Proponent shall ensure the new sleeping units are properly designed such that no degradation occurs to permafrost.
12. Final inspections of the entire site should be conducted by the Proponent and the lead agency to ensure that all areas of the site have been reclaimed in accordance with all authorizations.