

Appendix 1.

Bathurst Inlet Port and Road Joint Venture

Draft Environmental Policy

The purpose of the Bathurst Inlet Port and Road Project is to build and operate a transportation network in the West Kitikmeot Region of Nunavut to enhance the economic feasibility of resource development in the region for the benefit of the Inuit residents there. Port and road construction and operations will be conducted in a manner that protects the long term integrity of the tundra environment and the fish and wildlife populations it sustains. Every person and company that uses the Project's transportation network and facilities will be required to adhere to the Code of Good Conduct for Land Users in the region established by the Nunavut Planning Commission (1997).

Code of Good Conduct for Land Users*

1. The landscape of each camp and other land use sites will be restored to its original condition to the greatest degree possible. Water quality will be preserved and no substances that will impair water quality will be dumped in water bodies. When possible, and feasible, old sites will be restored to the natural state.
2. All land users shall assist communities and government(s) in identifying and protecting archaeological sites and carving stone sites.
3. As a general rule, low-level flights by aircraft at less than 300 meters should not occur where they will disturb wildlife or people. Where possible scheduled low-level flights will only take place after consultation with the appropriate communities. All land users are responsible for reporting to the appropriate authorities any illegal or questionable low level flight.
4. All activities on the land will be conducted in such a fashion that the renewable resources of the area in question are conserved.
5. Whenever practicable, and consistent with sound procurement management, non-resident land users will follow the practice of local purchase of supplies and services.
6. Non-resident land users will establish working relationships with local communities and respect the traditional uses of the land.
7. During the caribou calving, post-calving, and migrating season, land use activities should be restricted to avoid disturbing caribou, in general, and more specifically will be governed by caribou protection measures.
8. Artifacts must be left where they are found. All land users are responsible for reporting to the appropriate authorities the location of, or any removal or disturbance of artifacts.

* Source: Nunavut Planning Commission, 1997. West Kitikmeot Regional Land Use Plan (draft).

Appendix 2: General Requirements for a Project Description (NIRB, 1997).

APPENDIX B

**NUNAVUT IMPACT REVIEW BOARD
GENERAL REQUIREMENTS FOR A PROJECT DESCRIPTION**

Although the level of detail will vary with the scope of the project a description of the following elements should be included with a project proposal application.

In making its determination NIRB uses both traditional Inuit knowledge and recognized scientific methods. Throughout the document please cite whether information was gathered through Inuit knowledge or by recognized scientific methods.

1. BACKGROUND INFORMATION

◇ Proponent Identification Information

- ◇ company name and mailing address;
- ◇ phone and fax number;
- ◇ contact person; and
- ◇ field supervisor, phone number and/or radio phone number.

◇ The Name of the Lead Authorising Agency and List of all Approvals, Permits and Licenses Required

- ◇ list the approvals, permits and licenses required (regulatory agency, contact name, address, phone number)

◇ A List of Previous Environmental Assessments

- ◇ describe all prior relevant environmental assessments of the project (proponent name, type of operation, year operation began)

2. PROJECT DESCRIPTION

This section should describe in sufficient detail all aspects of the planning, designing, construction, operation, ongoing restoration activities, decommissioning, and post-decommissioning phases of the proposal including:

◇ Title of Project

◇ Type of Activity

◇ Summary of Operation (purpose, nature of all activities)

◇ Preferred Option(s)

- ◇ include supporting rationale; and
- ◇ evaluate any and describe any *alternatives* to the project and to the project components eg. *alternative routes, alternative technologies.*

◇ **Project Location**

- ◇ indicate the ownership of land(s) that the project would be using (whether the project requires the use of Inuit Owned Lands, Crown land, Commissioner's land, or combination thereof);
- ◇ a general location map and a map of adjacent area (1:1,000,000 or 1:4,000,000); and
- ◇ a location map of activities, facilities and camp(s), including off-site facilities such as roads, airstrips, camps and staging areas (include NTS maps at 1:250,000 and at 1:50,000 scale; provide latitude and longitude of primary activities).

◇ **Schedule**

- ◇ timetable of activities including:
 - ◇ construction, operation and decommissioning schedules; and
 - ◇ the length of time of each activity.

◇ **Operations Plan**

- ◇ site facilities and associated infrastructure (during all phases of project)
- ◇ methods and processes involved;
- ◇ technology to be used (including drills, pumps, chemicals, transportation, etc.)
- ◇ detailed description of any new technology;
- ◇ waste (describe all types, volumes, handling, disposal methods and alternatives including: garbage, sanitary and sewage wastes, brush and vegetation, overburden, waste rock, tailings);
- ◇ water (sources, amounts and composition at different stages in the process);
- ◇ energy (sources, amounts and alternatives) (e.g. types of fuels to be used and amounts; associated infrastructure (bermed tanks, etc.));
- ◇ camp facilities; and
- ◇ workforce.

◇ **Site Access and Transportation Methods**

- ◇ existing or new access (land, air or sea);
- ◇ staging areas; and
- ◇ volumes, frequency, type and weight of vehicles.

◇ **Environmental Protection and Contingency Plans**

- ◇ describe the types, volumes, handling, storage and disposal of all toxic substances;
- ◇ describe types of pollution control systems and procedures, including safety systems and procedures, and the environmental and safety standards to be met by proponent;
- ◇ describe any environmental management plans (such as acid rock drainage (ARD) control, erosion control, air and water quality control, wildlife management);
- ◇ provide a spill contingency plan that outlines the response procedures to be followed and any onsite equipment to be used for emergency situations such as spills, fire, floods or other acts of nature.

3. DESCRIPTION OF THE ENVIRONMENT

The descriptions should encompass both scientific and traditional ecological knowledge.

◇ Description of the Biophysical Environment

- ◇ site location, topography and geology, including: soils; geologic hazards: earthquakes, landslides, erosion, permafrost, acid rock drainage potential;
- ◇ hydrology - drainage region and watershed, name of nearest creek, river or lake system; water quality and flow characteristics;
- ◇ ecology -important flora and fauna, their habitats, distribution, migration routes and relationships to other species; rare and endangered species; ecological succession; existing environmental stresses;
- ◇ a list of the *Valued Ecosystem Components*, including a list of all globally, nationally, provincially or locally rare, sensitive or protected species found in the project environment, and their significance;
- ◇ climate -daily and monthly averages and extremes of temperature, humidity, wind speed and direction, precipitation and storms, violent weather; noise
- ◇ an overview of traditional knowledge of the environment;
- ◇ land use -traditional use areas; special land designation, commercial, industrial, residential, recreational; land capability; transportation routes and corridors (road, water, air); utilities and transmission lines; water resources; and
- ◇ other imminent plans that will affect land use.

◇ Description of the Social, Cultural and Economic Environments

- ◇ elements and features considered to be unique to the area and/or its inhabitants and their quality of life
- ◇ list the affected communities, outpost camps, traditional use areas, camps and tourist facilities;
- ◇ socio-economic conditions (including lifestyle and types of employment)
- ◇ historical, scenic, cultural and natural landmarks -registries of historical places; archaeological surveys

4. DESCRIPTION OF PUBLIC CONSULTATION PROCESS

- ◇ provide a summary of pre-submission consultation including;
 - ◇ organization(s) and person(s) consulted;
 - ◇ the response of the public to the project;
 - ◇ a description of the issues and concerns raised and the proponent's response to these concerns.
 - ◇ a list of the Valued Ecosystem and Valued Socio-Economic Components (VECs, VSCs) that were identified during consultation;
 - ◇ how the consultation has affected project design;
 - ◇ an outline of existing and planned information materials such as news releases, reports, bulletins, newsletters, brochures, audio-visual materials, other print and electronic advertisements or displays; and
 - ◇ any plans for future consultation activities and their timing.

- ◇ An "Executive Summary" document should be provided to the affected communities and to NIRB written in the each community's preferred language (Inuktitut or Innuinaqtun).

N.B. An Inuktitut / Innuinaqtun speaking community liaison person may be beneficial to the public consultation process.

5. IDENTIFICATION OF ENVIRONMENTAL EFFECTS

This is a key section in which predicted environmental, social, cultural and economic effects of the project are summarized and discussed using both traditional and scientific knowledge. The potential effects should be identified in terms of existing environmental, social, cultural and economic values.

- ◇ **Identification of Biophysical Environmental Effects**
- ◇ describe potential effects on environment and resources
 - ◇ terrain
 - ◇ water (fresh water and marine)
 - ◇ vegetation
 - ◇ fisheries
 - ◇ wildlife
 - ◇ marine mammals
 - ◇ environmental health
 - ◇ heritage resources
 - ◇ other land uses/land users
- ◇ describe the potential effects of the environment on the project (eg. floods, permafrost)
- ◇ **Identification of Social, Cultural and Economic Effects**
- ◇ describe potential effects on communities, outpost camps, tourist facilities;
- ◇ describe potential effects on the social, cultural and economic environments(eg. impacts on traditional land use and hunting, trapping or fishing);
- ◇ describe impacts on women, men, children, elders, families;
- ◇ describe impacts on aesthetics;
- ◇ estimate the amount and type of labour required, over how long, and how this is to be met for all stages of the project cycle, including construction and operation of the project;
- ◇ describe plans to hire and train northerners, and specifically the Inuit;
- ◇ describe plans to contract local or Inuit owned companies to provide services or / and products to your operation;
- ◇ if applicable, indicate whether an Inuit Impact Benefit Agreement is in process or has been completed;
- ◇ describe expected requirements for local facilities and services (electricity, water, sewage, schools, health services, housing, roads, transportation, air traffic, weather forecasting and monitoring etc.);
- ◇ describe potential effects on cultural landmarks; and
- ◇ list benefits and drawbacks associated with the project

6. IDENTIFICATION OF CUMULATIVE ENVIRONMENTAL EFFECTS

- ◊ identify past, present and imminent projects and / or activities occurring in the area; and
- ◊ describe the impacts of past and present projects / activities in combination with the potential impacts of other imminent projects,

7. IDENTIFICATION OF MITIGATION MEASURES AND RESIDUAL IMPACTS

- ◊ Describe the measures which will be used to minimize or mitigate any identified harmful environmental, social, economic, cultural and cumulative impacts and enhance any beneficial effects.

8. ABANDONMENT/DECOMMISSIONING PLANS

- ◊ Describe the options for temporary, seasonal and final closure.

N.B. NIRB will uphold a “pack-it-in” - “pack-it-out” philosophy.

9. MONITORING AND MAINTENANCE PLANS

- ◊ Describe any monitoring plans and the schedule for submitting these monitoring reports to NIRB.

10. LIST INFORMATION SOURCES

- ◊ list all information sources used in the preparation of the project description; and
- ◊ list any available documentation on any baseline data that has been collected.

Appendix 3. Detailed Project Schedule

| Activity ID | Activity Description | Orig Dur | Rem Dur | % | Early Start | Early Finish |
|-------------|----------------------|----------|---------|---|-------------|--------------|
|-------------|----------------------|----------|---------|---|-------------|--------------|

Engineering

| | | | | | | |
|------|---------------------|-----|-----|---|---------|---------|
| 1000 | Project Development | 191 | 191 | 0 | 02JAN04 | 10JUL04 |
|------|---------------------|-----|-----|---|---------|---------|

Port Site Development

| | | | | | | |
|------|---|-----|-----|---|----------|----------|
| 2001 | Mobilization to Bathurst Inlet | 68 | 68 | 0 | 11JUL04 | 16SEP04 |
| 2002 | Drill and Blast - Port Site | 124 | 124 | 0 | 25JUL04* | 25NOV04 |
| 2003 | Construct Barge Landing and Sediment Pond | 10 | 10 | 0 | 08AUG04 | 17AUG04 |
| 2019 | Set Up Crusher and Process Material | 132 | 132 | 0 | 08AUG04 | 17DEC04 |
| 2005 | Construct Port Site Roads and Fuel Depot | 21 | 21 | 0 | 18AUG04 | 07SEP04 |
| 2011 | Construct Sediment Pond -South | 10 | 10 | 0 | 18AUG04* | 27AUG04 |
| 2007 | Construct Tank Farm (berm & Liner) | 48 | 48 | 0 | 01SEP04 | 18OCT04 |
| 2013 | Erect Raw Water Pumphouse Module | 21 | 21 | 0 | 01SEP04 | 21SEP04 |
| 2006 | Grade Camp Site and Set up Camp | 35 | 35 | 0 | 08SEP04 | 12OCT04 |
| 2008 | Erect Tanks (first 4) | 75 | 75 | 0 | 15SEP04 | 28NOV04 |
| 2014 | Erect Potable Water Pumphouse Module | 35 | 35 | 0 | 22SEP04 | 26OCT04 |
| 2017 | Install Raw Water & Fire Water Phase 1 -Camp | 40 | 40 | 0 | 22SEP04 | 31OCT04* |
| 2021 | Erect Maintenance Building | 120 | 120 | 0 | 22SEP04 | 22JAN05 |
| 2018 | Install Potable Water Lines | 63 | 63 | 0 | 25SEP04 | 26NOV04 |
| 2009 | Instal Power Generation | 40 | 40 | 0 | 29SEP04 | 07NOV04 |
| 2010 | Install Sewage Treatment Plant inc. Bldg. | 33 | 33 | 0 | 29SEP04* | 31OCT04 |
| 2012 | Erect Fuel Unloading Module inc. Bldg. | 27 | 27 | 0 | 13OCT04 | 08NOV04 |
| 2016 | Instal Fuel Piping Phase I Port & 4 Tanks | 33 | 33 | 0 | 09NOV04 | 11DEC04 |
| 2020 | Install Fuel Dispensing System | 14 | 14 | 0 | 12DEC04 | 27DEC04 |
| 2004 | Construct Jetty | 160 | 160 | 0 | 08JAN05 | 16JUN05 |
| 2025 | Install Fire Water Lines - Phase II - Tank Farm | 70 | 70 | 0 | 26JAN05* | 05APR05 |
| 2015 | Erect Remaining Tanks (8) | 180 | 180 | 0 | 11MAY05 | 06NOV05 |
| 2022 | Concentrate Storage - Structural | 301 | 301 | 0 | 27JUL05 | 23MAY06 |
| 2024 | Install Fuel Piping Phase II Remaining Piping | 91 | 91 | 0 | 27JUL05 | 25OCT05 |
| 2023 | Concentrate Storage - Mechanical | 180 | 180 | 0 | 24MAY06 | 19NOV06 |
| 2026 | Commussion and Clean up | 21 | 21 | 0 | 20NOV06 | 10DEC06 |
| 2027 | Demobilization | 45 | 45 | 0 | 11DEC06 | 24JAN07 |

Access Road Port to Km 126

| | | | | | | |
|------|---|-----|-----|---|----------|---------|
| 3001 | Construct Access Km 0 to 2.5 Complete | 28 | 28 | 0 | 13OCT04* | 09NOV04 |
| 3002 | Install Bridge at Km 2.5 | 14 | 14 | 0 | 10NOV04 | 23NOV04 |
| 3003 | Rough Grade Km 2.5 to Km 42 | 65 | 65 | 0 | 24NOV04 | 30JAN05 |
| 3005 | Rough Grade Km 42 to Km 58 | 57 | 57 | 0 | 31JAN05 | 28MAR05 |
| 3004 | Process Granular Material for Km 8 to Km 60 | 88 | 88 | 0 | 15MAR05 | 10JUN05 |
| 3006 | Rough Grade Km 68 to Km 103 | 75 | 75 | 0 | 29MAR05 | 11JUN05 |
| 3014 | Place 150 mm Minus Km 2.5 to Km 35 | 20 | 20 | 0 | 04JUN05 | 23JUN05 |
| 3007 | Process Granular Material Km 60 to Km 126 | 107 | 107 | 0 | 11JUN05 | 25SEP05 |
| 3008 | Place 50 mm Minus Km 2.5 to Km 35 | 10 | 10 | 0 | 24JUN05 | 03JUL05 |
| 3009 | Place 150 mm minus Km 35 to Km 65 | 14 | 14 | 0 | 04JUL05 | 17JUL05 |
| 3010 | Place 50 mm minus Km 35 to Km 65 | 7 | 7 | 0 | 18JUL05 | 24JUL05 |
| 3011 | Place 150 mm minus Km 65 to Km 126 | 48 | 48 | 0 | 25JUL05 | 10SEP05 |
| 3012 | Place 50 mm minus Km 65 to Km 126 | 18 | 18 | 0 | 11SEP05 | 28SEP05 |
| 3015 | Clean up and Demob to Contwoyo Lake | 21 | 21 | 0 | 29SEP05 | 19OCT05 |

Access Road Contwoyo Lake to Km 80

| | | | | | | |
|------|--|-----|-----|---|----------|---------|
| 3100 | Mobilize to Contwoyo Lake via Ice Road | 50* | 50* | 0 | 15DEC04* | 05FEB05 |
| 3102 | Rough Grade Km 211 to Km 180 | 35 | 35 | 0 | 08JAN05 | 11FEB05 |
| 3104 | Rough Grade Km 180 to Km 149 | 55 | 55 | 0 | 12FEB05 | 07APR05 |
| 3103 | Process Granular Material for Km 211 to Km 180 | 74 | 74 | 0 | 08APR05 | 20JUN05 |

| 2004 | | | | | | | | | | | | 2005 | |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
| JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB |
| 4 | 11 | 18 | 25 | 1 | 8 | 15 | 22 | 29 | 5 | 12 | 19 | 26 | 3 |
| 12 | 19 | 26 | 3 | 10 | 17 | 24 | 31 | 7 | 14 | 21 | 28 | 5 | 12 |
| 19 | 26 | 3 | 10 | 17 | 24 | 31 | 7 | 14 | 21 | 28 | 5 | 12 | 19 |
| 26 | 3 | 10 | 17 | 24 | 31 | 7 | 14 | 21 | 28 | 5 | 12 | 19 | 26 |
| 3 | 10 | 17 | 24 | 31 | 7 | 14 | 21 | 28 | 5 | 12 | 19 | 26 | 3 |
| 10 | 17 | 24 | 31 | 7 | 14 | 21 | 28 | 5 | 12 | 19 | 26 | 3 | 10 |
| 17 | 24 | 31 | 7 | 14 | 21 | 28 | 5 | 12 | 19 | 26 | 3 | 10 | 17 |
| 24 | 31 | 7 | 14 | 21 | 28 | 5 | 12 | 19 | 26 | 3 | 10 | 17 | 24 |
| 31 | 7 | 14 | 21 | 28 | 5 | 12 | 19 | 26 | 3 | 10 | 17 | 24 | 31 |
| 7 | 14 | 21 | 28 | 5 | 12 | 19 | 26 | 3 | 10 | 17 | 24 | 31 | 7 |
| 14 | 21 | 28 | 5 | 12 | 19 | 26 | 3 | 10 | 17 | 24 | 31 | 7 | 14 |
| 21 | 28 | 5 | 12 | 19 | 26 | 3 | 10 | 17 | 24 | 31 | 7 | 14 | 21 |
| 28 | 5 | 12 | 19 | 26 | 3 | 10 | 17 | 24 | 31 | 7 | 14 | 21 | 28 |
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| 26 | 3 | 10 | 17 | 24 | 31 | 7 | 14 | 21 | 28 | 5 | 12 | 19 | 26 |
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| 10 | 17 | 24 | 31 | 7 | 14 | 21 | 28 | 5 | 12 | 19 | 26 | 3 | 10 |
| 17 | 24 | 31 | 7 | 14 | 21 | 28 | 5 | 12 | 19 | 26 | 3 | 10 | 17 |
| 24 | 31 | 7 | 14 | 21 | 28 | 5 | 12 | 19 | 26 | 3 | 10 | 17 | 24 |
| 31 | 7 | 14 | 21 | 28 | 5 | 12 | 19 | 26 | 3 | 10 | 17 | 24 | 31 |
| 7 | 14 | 21 | 28 | 5 | 12 | 19 | 26 | 3 | 10 | 17 | 24 | 31 | 7 |
| 14 | 21 | 28 | 5 | 12 | 19 | 26 | 3 | 10 | 17 | 24 | 31 | 7 | 14 |
| 21 | 28 | 5 | 12 | 19 | 26 | 3 | 10 | 17 | 24 | 31 | 7 | 14 | 21 |
| 28 | 5 | 12 | 19 | 26 | 3 | 10 | 17 | 24 | 31 | 7 | 14 | 21 | 28 |
| 5 | 12 | 19 | 26 | 3 | 10 | 17 | 24 | 31 | 7 | 14 | 21 | 28 | 5 |
| 12 | 19 | 26 | 3 | 10 | 17 | 24 | 31 | 7 | 14 | 21 | 28 | 5 | 12 |
| 19 | 26 | 3 | 10 | 17 | 24 | 31 | 7 | 14 | 21 | 28 | 5 | 12 | 19 |
| 26 | 3 | 10 | 17 | 24 | 31 | 7 | 14 | 21 | 28 | 5 | 12 | 19 | 26 |
| 3 | 10 | 17 | 24 | 31 | 7 | 14 | 21 | 28 | 5 | 12 | 19 | 26 | 3 |
| 10 | 17 | 24 | 31 | 7 | 14 | 21 | 28 | 5 | 12 | 19 | 26 | 3 | 10 |
| 17 | 24 | 31 | 7 | 14 | 21 | 28 | 5 | 12 | 19 | 26 | 3 | 10 | 17 |
| 24 | 31 | | | | | | | | | | | | |

| 2006 | | | | | | | | | | | | 2007 | | | | | | | | | | | | 2008 | | | | | | | | | | | |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| O | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | | |
| 29 | 5 | 12 | 19 | 26 | 3 | 10 | 17 | 24 | 31 | 7 | 14 | 21 | 28 | 4 | 11 | 18 | 25 | 1 | 8 | 15 | 22 | 29 | 6 | 13 | 20 | 27 | 3 | 10 | 17 | 24 | 1 | 8 | 15 | 22 | 29 |

Concentrate Storage - Mechanical
Commission and Clean up
Demobilization

Start Date
Finish Date
Data Date
Run Date

02 JAN 04
24 JAN 07
02 JAN 04
21 JAN 02 16:07

Early Bar

Early Bar

Progress Bar

Critical Activity

BAT1

Nuna Logistics

Bathurst Inlet Port and Road

Classic Schedule Layout

| Sheet 10 of 20 | | | | |
|----------------|----------|---------|----------|--|
| Date | Revision | Checked | Approved | |
| | | | | |
| | | | | |
| | | | | |
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| | | | | |
| | | | | |
| | | | | |

| Activity ID | Activity Description | Orig Dur | Rem Dur | % | Early Start | Early Finish | 2004 | | | | | | | | | | | | 2005 | |
|-------------|--|----------|---------|---|-------------|--------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
| | | | | | | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB |
| 3108 | Rough Grade Km 149 to Km 103 | 76 | 76 | 0 | 08APR05 | 22JUN05 | 4 | 11 | 18 | 25 | 1 | 8 | 15 | 22 | 29 | 7 | 14 | 21 | 28 | 4 |
| 3106 | Process Granular Material for Km 180 to Km 149 | 57 | 57 | 0 | 21JUN05 | 16AUG05 | | | | | | | | | | | | | | |
| 3105 | Place 150 mm minus Km 211 to Km 180 | 26 | 26 | 0 | 05JUL05 | 30JUL05 | | | | | | | | | | | | | | |
| 3107 | Place 50 mm minus Km 211 to Km 180 | 12 | 12 | 0 | 31JUL05 | 11AUG05 | | | | | | | | | | | | | | |
| 3109 | Place 150 mm minus Km 180 to Km 149 | 20 | 20 | 0 | 12AUG05 | 31AUG05 | | | | | | | | | | | | | | |
| 3110 | Process Granular Material for Km 149 to Km 80 | 45 | 45 | 0 | 17AUG05 | 30SEP05 | | | | | | | | | | | | | | |
| 3111 | Place 50 mm minus Km 180 to Km 149 | 12 | 12 | 0 | 01SEP05 | 12SEP05 | | | | | | | | | | | | | | |
| 3112 | Place 150 mm minus Km 149 to Km 80 | 14 | 14 | 0 | 13SEP05 | 26SEP05 | | | | | | | | | | | | | | |
| 3113 | Place 50 mm minus Km 149 to Km 80 | 7 | 7 | 0 | 27SEP05 | 03OCT05 | | | | | | | | | | | | | | |
| 3114 | Clean up and Demob to Contwoyo Lake | 21 | 21 | 0 | 04OCT05 | 24OCT05 | | | | | | | | | | | | | | |

Contwoyo Lake Ferry Landing

| | | | | | | | | | | | | | | | | | | | | |
|------|--|----|----|---|----------|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 4000 | Construct Laydown Area and Camp Site | 35 | 35 | 0 | 03JAN05* | 06FEB05 | | | | | | | | | | | | | | |
| 4001 | Construct and Commission Utilities | 14 | 14 | 0 | 10JAN05* | 23JAN05 | | | | | | | | | | | | | | |
| 4002 | Setup Camp | 14 | 14 | 0 | 10JAN05 | 23JAN05 | | | | | | | | | | | | | | |
| 4003 | Construct Ferry Landing | 7 | 7 | 0 | 30JUN05 | 06JUL05 | | | | | | | | | | | | | | |
| 4004 | Mobilize Ferry from Port to Contwoyo Lake | 7 | 7 | 0 | 27SEP05 | 03OCT05 | | | | | | | | | | | | | | |
| 4005 | Assemble Ferry and prep for 2006 Launching | 40 | 40 | 0 | 04OCT05 | 12NOV05 | | | | | | | | | | | | | | |
| 4016 | Launch Ferry | 8* | 8* | 0 | 15JUL06* | 22JUL06 | | | | | | | | | | | | | | |

Lupin Ferry Landing

| | | | | | | | | | | | | | | | | | | | | |
|------|--|-----|-----|---|----------|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 5000 | Construct Laydown Area and Ferry Landing | 12* | 12* | 0 | 02JUL06* | 13JUL06 | | | | | | | | | | | | | | |
|------|--|-----|-----|---|----------|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

Access Road Lupin to Izok

| | | | | | | | | | | | | | | | | | | | | |
|------|--|-----|-----|---|----------|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 6000 | Mobilization | 68* | 68* | 0 | 01NOV05* | 07JAN05 | | | | | | | | | | | | | | |
| 6001 | Regrade Km 0 to Km8 | 4 | 4 | 0 | 08JAN06* | 11JAN06 | | | | | | | | | | | | | | |
| 6002 | Rough Grade Km 08 to Km 24 | 17 | 17 | 0 | 12JAN06 | 28JAN06 | | | | | | | | | | | | | | |
| 6003 | Rough Grade Km 24 to Km 47 | 40 | 40 | 0 | 29JAN06 | 09MAR06 | | | | | | | | | | | | | | |
| 6004 | Process Granular Material for Km 8 to Km 25 | 31 | 31 | 0 | 10MAR06 | 09APR06 | | | | | | | | | | | | | | |
| 6010 | Rough Grade Km 47 to Km 79 | 52 | 52 | 0 | 10MAR06 | 30APR06 | | | | | | | | | | | | | | |
| 6007 | Process Granular Material for Km 25 to Km 47 | 42 | 42 | 0 | 10APR06 | 21MAY06 | | | | | | | | | | | | | | |
| 6005 | Place 150 mm minus Km 8 to Km 25 | 9 | 9 | 0 | 22MAY06 | 30MAY06 | | | | | | | | | | | | | | |
| 6011 | Process Granular Material for km 47 to Km 79 | 56 | 56 | 0 | 22MAY06 | 16JUL06 | | | | | | | | | | | | | | |
| 6006 | Place 50 mm minus Km 8 to Km 25 | 5 | 5 | 0 | 31MAY06 | 04JUN06 | | | | | | | | | | | | | | |
| 6008 | Place 150 mm minus Km 25 to Km 47 | 14 | 14 | 0 | 05JUN06 | 18JUN06 | | | | | | | | | | | | | | |
| 6009 | Place 50 mm minus Km 25 to Km 47 | 8 | 8 | 0 | 19JUN06 | 26JUN06 | | | | | | | | | | | | | | |
| 6012 | Place 150 mm minus Km 47 to Km 79 | 20 | 20 | 0 | 27JUN06 | 16JUL06 | | | | | | | | | | | | | | |
| 6013 | Place 50 mm minus Km 47 to Km 79 | 10 | 10 | 0 | 17JUL06 | 26JUL06 | | | | | | | | | | | | | | |
| 6014 | Clean up and Demobilization to Lupin | 60 | 60 | 0 | 07AUG06 | 05OCT06 | | | | | | | | | | | | | | |

Start Date
24JAN04

Finish Date
02JAN07

Data Date
02JAN04

Run Date
21JAN02 16 07

02JAN04

24JAN07

02JAN04

21JAN02 16 07

Early Bar

Early Bar

Progress Bar

Critical Activity

BA11

Nuna Logistics

Bathurst Inlet Port and Road

Classic Schedule Layout

Sheet 2A of 2C

Date

Revision

Checked

Approved

| | |
|-------------|--------------------------------------|
| Appendix 4: | Land Use and Water Use Applications |
| | • Nunavut Water Board |
| | • Kitikmeot Inuit Association |
| | • Indian and Northern Affairs Canada |
| | - Crown Land 5 pages |
| | - Land Use 4 pages |
| | - Quarry 2 pages |
| | - Tank Farm 2 pages |

NUNAVUT WATER BOARD LICENCE APPLICATION FORM

Application for licence, amendment to licence, or renewal of licence

| | |
|---|--|
| APPLICATION/LICENCE NO: (Amendment or renewal only) | |
| 1. NAME AND MAILING ADDRESS OF APPLICANT Bathurst Inlet Port and Road Joint Venture C/O Nuna Logistics 666 Burrard St, Suite 340 Vancouver, BC V6C 2X8 Attn: A.J.Keen, Project Manager Phone: 604-682-4667 Fax: 604-682-4473 | 2. ADDRESS OF HEAD OFFICE IN CANADA IF INCORPORATED Note; Will be a 50/50 Joint Venture between Kitikmeot Corporation and Nuna Logistics Limited. Phone: _____ Fax: _____ |
| 3. LOCATION OF UNDERTAKING (describe and attach a map, indicating watercourse and location of any proposed waste deposits) Bathurst Inlet to Contwoyto Lake and Contwoyto Lake to Itchen Narrows in Kitikmeot Region of Nunavut. Please see Project Description attached. Latitude: _____ Longitude: _____ | |
| 4. DESCRIPTION OF UNDERTAKING (describe and attach plans) Build and operate a commercial port and toll road; please see Project Description provided. | |
| 5. TYPE OF UNDERTAKING <div style="display: flex; justify-content: space-between;"> <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Power <input type="checkbox"/> Agricultural </div> <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Mining and Milling <input type="checkbox"/> Conservation <input type="checkbox"/> Recreation </div> <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Municipal <input type="checkbox"/> Other (describe): _____ </div> | |
| 6. WATER USE <div style="display: flex; justify-content: space-between;"> <input checked="" type="checkbox"/> To obtain water <input type="checkbox"/> Flood control </div> <div style="display: flex; justify-content: space-between;"> <input checked="" type="checkbox"/> To cross a watercourse <input type="checkbox"/> To divert water </div> <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> To modify the bed or bank of a water <input type="checkbox"/> To alter the flow of , or store, water </div> <div style="display: flex; justify-content: space-between;"> <input type="checkbox"/> Other (describe): _____ </div> | |

| |
|--|
| <p>7. WASTE DEPOSIT (quantity, quality, treatment and disposal)</p> <p>Port (construction and operations)</p> <p>At port potable water will be by desalination; sewage will be treated prior to discharge to land field above Bathurst Inlet; all other water uses will take marine water from Bathurst Inlet.</p> <p>Road Construction</p> <p>Road construction will be from 60 person mobile camps with a 7500 litre p day water demand with sewage treated prior to discharge onto tundra field.</p> <p>Contwoyto Lake Operations</p> <p>At Contwoyto Lake, 20 person camp requirements will be an estimated 3,000 litres per day with sewage treated prior to discharge onto tundra field.</p> |
| <p>8. OTHER PERSONS OR PROPERTIES AFFECTED BY THIS UNDERTAKING (give name, mailing address and location; attach if necessary)</p> <p>The Project will require the use of Inuit Owned Land and Federal Crown Land. No current and ongoing local or subsistence land uses have been noted in the course of field investigations to date. The Project Description provides locations of known heritage sites along the proposed road alignment.</p> |
| <p>9. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION</p> <p>Please see Project Description provided.</p> |
| <p>10. CONTRACTORS AND SUB-CONTRACTORS (name, address and functions)</p> |
| <p>11. STUDIES UNDERTAKEN TO DATE (attach list if necessary)</p> <p>Please see Project Description provided; Project EIS to be submitted that meets requirements of EIS. Guidelines requested.</p> |
| <p>12. PROPOSED TIME SCHEDULE</p> <p>Start Date: <u>Septemeber 2004</u> Completion Date: <u>September 2006</u></p> |

A. T. KEEN P. ENG.

PROJECT MANAGER

A. T. Keen

April 2/02.

Name (Print)

Title

(Print)

Signature

re

(dd/mm/yy)

| | | |
|--------------------------|-------------------------|--------------|
| APPLICATION FEE | Amount: \$ <u>30.00</u> | Receipt No.: |
| WATER USE DEPOSIT | Amount: \$ _____ | Receipt No.: |

KITIKMEOT INUIT ASSOCIATION LANDS DIVISION APPLICATION FOR ACCESS TO INUIT OWNED LAND

| | | | |
|------------------------|-----------------|--------------|----------------|
| Office use only | | | |
| Category | Application No: | Accepted By: | Date Accepted: |

To be completed by all applicants

| | |
|--|---|
| 1. Applicant's name and mailing address (Full name, no initials or abbreviations) Bathurst Port and Road Joint Venture (will be a 50/50 JV between Kitikmeot Corporation and Nuna Logistics Limited) K.C address; Box 18, Cambridge Bay, NU X0B 0C0 Nuna address; 9839-31 Ave, Edmonton, AB, T6N 1C5 | Fax no Telephone no. 867-983-2200 1-800-434-9434 |
| 2. Head Office address See above. | Fax no. See above Telephone no. |
| 3. Field supervisor and address if different from above A.J.Keen, Suite 340, 666 Burrard St, Vancouver, BC V6C 2X8 | Telephone no. 604-682-4667 888-734-5773 |
| 4. Other personnel list (Subcontractors or contractors to be used) Total no. of personnel: _____ No. of person days: _____ | |
| 5. Location of activities by map coordinates. Attach ORIGINAL maps and sketches. | |

Please see Project maps and drawings attached.

| | | | |
|--------------|--------------|--------------|--------------|
| MAX Lat Min | MIN Lat Deg | MIN Lat Min | MAX Lat Deg |
| MAX Long Min | MIN Long Deg | MIN Long Min | MAX Long Deg |

Coordinate of camp (if applicable) Lat. ° ' " Long. ° ' "

6. Periods of operation including periods of seasonal shut down and periods of restoration.

Please see the Project Description attached including Appendix Three, the detailed Project construction schedule.

| | | |
|---|------------------------------|-----------------------------------|
| 1. 7. Period of access required (up to one or two years for licenses, depending on license level, up to five years for residential/recreational leases and level I and II commercial leases, and up to forty years for level III commercial leases) | Start date September 2004 | Completion Date September 2006 |
| 2. | | |

8. Other rights, licenses, permits or leases related to this application. Provide proof of rights or indicate if in the process of applying for rights.

| | | |
|------------------------|--|--|
| NTI Subsurface Right | <input checked="" type="checkbox"/> NRI Research License | <input checked="" type="checkbox"/> CWS Permit |
| DIAND Subsurface Right | <input checked="" type="checkbox"/> RWED Tourism License | <input checked="" type="checkbox"/> Other – Please Specify |
| X NWB Water License | <input checked="" type="checkbox"/> Explosives Permit | |

Please see copies of applications to NWB and DIAND in Appendix Four of the Project Description

9. TYPE OF LAND USE ACTIVITY

Check off the appropriate land use activities.

| | | |
|---|---|--|
| <p>Mining/Oil & Gas</p> <p><input checked="" type="checkbox"/> staking and prospecting</p> <p><input checked="" type="checkbox"/> exploration (geophys-grd/air)</p> <p><input checked="" type="checkbox"/> drilling (diamond/ice, etc.)</p> <p><input checked="" type="checkbox"/> bulk sampling</p> <p><input checked="" type="checkbox"/> mine (open pit, undergrd, etc.)</p> <p><input checked="" type="checkbox"/> bulk fuel storage</p> <p><input checked="" type="checkbox"/> other: _____</p> <p><input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/> municipality:</p> <p><input checked="" type="checkbox"/> bulk storage of fuel</p> <p><input checked="" type="checkbox"/> residential building</p> <p><input checked="" type="checkbox"/> commercial building</p> <p><input checked="" type="checkbox"/> other: _____</p> | <p>Construction:</p> <p>X camp</p> <p>X building</p> <p>X winter road</p> <p>X all-season road</p> <p>X quarrying</p> <p>X bulk fuel storage</p> <p><input checked="" type="checkbox"/> research:</p> <p><input checked="" type="checkbox"/> wildlife/fish/birds/marine</p> <p><input checked="" type="checkbox"/> survey (grd/aerial/collars)</p> <p><input checked="" type="checkbox"/> collection of species</p> <p><input checked="" type="checkbox"/> research station</p> <p><input checked="" type="checkbox"/> other: _____</p> | <p>Tourism:</p> <p><input checked="" type="checkbox"/> tourism facility</p> <p><input checked="" type="checkbox"/> outfitting</p> <p><input checked="" type="checkbox"/> other: _____</p> <p><input checked="" type="checkbox"/> ther:</p> <p><input checked="" type="checkbox"/> commercial harvest</p> <p><input checked="" type="checkbox"/> recreational camp</p> <p><input checked="" type="checkbox"/> _____</p> <p><input checked="" type="checkbox"/> _____</p> <p><input checked="" type="checkbox"/></p> |
|---|---|--|

10. On a separate page, provide a NON-TECHNICAL project summary. This should include a non-technical description of GIS c:\forms\IOL application

Revised November 1998

the project proposal, no more than 300 words, in English and Inuktituk (Inuinaktun, in the West Kitikmeot). The project description should outline the project activities and their necessity, method of transportation, any structures that will be erected, expected duration of activity and alternatives considered. If the proposed activity fits into any long-term developments, please describe the projected outcome of the development for the area and its timeline.

Attached please find the Executive Summary to the Project Description in English, Inuinaktun, and Inuktitut.

11. Attach a detailed project description as outlined in APPENDIX A. Please see Project Description attached. This document follows the guidelines prepared by NIRB for Project Descriptions in Nunavut.

12. The total area of Inuit Owned Land that is expected to be used or occupied in the construction and operation of the Project is estimated to be 274.4 ha. The proposed uses for these Inuit Owned lands are:

- ☐ camp and barge landing at Contwoyto Lake with an estimated area of 14 ha is proposed to be covered by a commercial lease;
- ☐ 5 borrow pits and 25 quarries on Inuit Owned Lands are proposed and applied for.

The volume of materials proposed for extractions from pits and quarries on Inuit Owned Lands is shown in Table 1.

Table 1. Volumes of rock and granular materials proposed for extraction from Inuit Owned Land.

| Location | IOL Block | Material | Proposed Quantity |
|------------------------|-----------|----------|-------------------|
| Port to Contwoyto Lake | | | |
| km 6 | BB-27 | rock | 70,000 cm |
| 7.5 | BB-27 | rock | 15,000 cm |
| 12 | BB-27 | rock | 105,000 cm |
| 17.5 | BB-27 | granular | 45,000 cm |
| 19.5 | BB-27 | granular | 55,000 cm |
| 28.8 | BB-16 | rock | 46,000 cm |
| 32 | BB-16 | rock | 34,000 cm |
| 34 | BB-16 | rock | 32,000 cm |
| 59.5 | BB-16 | rock | 75,000 cm |
| 68.5 | BB-16 | rock | 60,000 cm |
| 106 | BB-04 | granular | 135,000 cm |
| 127 | BB-05 | granular | 105,000 cm |
| 135 | BB-05 | granular | 135,000 cm |
| 149 | BB-05 | rock | 105,000 cm |
| 158 | C0-17 | rock | 60,000 cm |
| 165 | C0-17 | rock | 120,000 cm |
| 208 | C0-12 | rock | 80,000 cm |

Lupin to Itchen Narrows

| | | | |
|----|-------|------|------------|
| 17 | CO-05 | rock | 75,000 cm |
| 20 | CO-05 | rock | 95,000 cm |
| 25 | CO-05 | rock | 40,000 cm |
| 29 | CO-05 | rock | 80,000 cm |
| 36 | CO-05 | rock | 105,000 cm |
| 41 | CO-05 | rock | 45,000 cm |
| 45 | CO-05 | rock | 60,000 cm |
| 54 | CO-05 | rock | 60,000 cm |
| 56 | CO-05 | rock | 105,000 cm |
| 58 | CO-05 | rock | 30,000 cm |
| 61 | CO-05 | rock | 62,000 cm |
| 71 | CO-05 | rock | 225,000 cm |

Total volume to be extracted from Inuit Owned Lands 2,259,000 cm

Each quarry site is estimated to be 2 ha in area for a potential 58 ha for the 29 quarries on IOL.

Land use fees: # of hectares used @ \$50.00/hectare = **\$2,900.00** for quarries

Note: The land use fee is for the amount of land used on an annual basis.

13. a) The Applicant requests a Certificate of Exemption



OR

b) The Applicant agrees to be bound by terms and conditions to be attached to the Inuit Land Use License or Lease.

Sign name in full:

ANTHONY J. KEEN Atkeer (signature) April 2/02 (date)

APPENDIX A

All applicants must provide a detailed project description that includes ALL of the following:

1. Outline project activities, their necessity, their expected duration and alternatives considered. If the proposed activity fits into any long-term developments, describe the projected outcome of the development for the area and its timeline.
1. Schedule of activities including both operations and shutdowns
1. Provide a preliminary plan showing the location of the lands proposed to be used and an estimate of their area in hectares. The preliminary plan should show the approximate location of all:

- i) existing or new lines, trails, rights-of-way and cleared areas proposed to be used in the exercise of the Right;

Please see Bathurst Inlet Port and Road Project Description

- i) buildings, campsites, air landing strips, air navigation aids, fuel and supply storage sites, waste disposal sites, excavations, ponds, reservoirs and other works and places proposed to be constructed or used during the exercise of the Right;

Please see Bathurst Inlet Port and Road Project Description

- i) manmade structures and works, including bridges, dams, ditches, highways, roads, transmission lines, pipelines, survey lines and monuments, air landing strips; all topographical and natural features, including eskers, rivers, streams, lakes, inland seas and ponds; and all areas of biological interest, including wildlife and fish habitat, specifically, calving, denning, spawning or nesting areas, identified in consultation with the NWMB, RWO, or HTO, as appropriate, that may be affected by the exercise of the Right; and

Please see Bathurst Inlet Port and Road Project Description

- i) the accurate location of all carving stone, archaeological sites, and archaeological specimens.

Please see Project Description for locations of known heritage sites along the proposed road alignment; locations of carving stone deposits will be reported as and when these are found.

1. Provide a list of structures that will be erected.

Please see Bathurst Inlet Port and Road Project Description

1. Equipment to be used, indicating type and number, size and ground pressure and proposed use. Include all drills, pumps, vehicles etc.

Please see Bathurst Inlet Port and Road Project Description

1. Fuels to be used, capacity of containers and number of litres. Include diesel, gasoline, aviation fuel, propane and other fuel types. Describe method of fuel transfer.

Please see Bathurst Inlet Port and Road Project Description

1. Provide a copy of fuel spill contingency plan

Project contingency plans are in preparation and will be submitted with Project EIS.

1. Proposed disposal methods for garbage, sewage, grey water, overburden (organic soil, waste material, tailings etc.), hazardous waste and other waste products. Describe the acid rock drainage potential of waste rock material and testing methods, if applicable. List the type, estimated quantities and storage methods of any hazardous materials that are going to be stored on the property.

Please see Bathurst Inlet Port and Road Project Description

1. Describe the methods of transportation.

Please see Bathurst Inlet Port and Road Project Description

1. Indicate the components of the environment that are near the project area, as applicable. Include

the type of species, the important habitat area (calving, staging, denning, migratory pathways, spawning, nesting etc.) and the critical time periods (calving, post-calving, spawning, nesting, breeding etc.). Also include information on eskers, communities and historical/archaeological sites.

Please see Bathurst Inlet Port and Road Project Description

1. Summary of potential environmental, wildlife and resource impacts and mitigation measures to be used. Describe the effects of the proposed program on lands, water, flora and fauna.

Please see Bathurst Inlet Port and Road Project Description

1. Reclamation cost analysis for advanced exploration activities.

To be developed in consultation with Kitikeot Inuit Association.

1. Proposed reclamation plan, that includes, but is not limited to the proposed methods and procedures for the progressive:

- i) removal of all structures, equipment, and other manmade debris;
- ii) rehabilitation of the area to its previous standard of human utilization and natural productivity;
- iii) replacement of overburden and soil;
- iv) grading of the area back to its natural contours; and
- v) re-establishment, to the extent possible, of flora.

Include information about on going site remediation throughout the duration of the project.

Please see Bathurst Inlet Port and Road Project Description

1. Provide information on the socio-economic aspects of these activities. In particular, please provide details on:

- i) How much money will be spent on this work?
Please see Bathurst Inlet Port and Road Project Description
- i) What percentage will go to Inuit firms or employees?
Please see Bathurst Inlet Port and Road Project Description

- i) How many jobs are available through this activity?
Please see Bathurst Inlet Port and Road Project Description
- i) How many Inuit employees will be hired?
Please see Bathurst Inlet Port and Road Project Description
- i) What type of training opportunities for Inuit will be offered?
Please see Bathurst Inlet Port and Road Project Description

In addition to the above requirements, COMMERCIAL LEASE APPLICANTS must provide the following information:

- ☛ If the land is surveyed, state the lot and block number. If unsurveyed, state the size of the parcel and general area. Provide a detailed description and detailed sketch of the area applied for.
- ☛ Describe the type of commercial use.

In addition to the above requirements, RESIDENTIAL/RECREATIONAL LEASE APPLICANTS must provide the following information:

- ✦ If the land is surveyed, state the lot and block number. If unsurveyed, state the size of the parcel and general area. Provide a detailed description and detailed sketch of the area applied for.
- ✦ For what purposes will the land be used? Describe any buildings or improvements on this land. What is the value of the improvements on the land and who is the owner of the improvements.
- ✦ Provide a list of improvements planned for construction, the value of these improvements and within how many months of the effective date of the lease these improvements be finished.

In addition to the above requirements, QUARRY LICENSE or QUARRY CONCESSION AGREEMENT applicants must provide the following information:

- ✦ A description by meters and bounds of the land applied for;
- ✦ The name of the specified substances that the applicant desires to remove from the area; and
- ✦ A sketch showing clearly the position of the parcel in relation to a survey monument, prominent topographical feature or other known point and shown in its margin, copies of the markings on the posts or cairns.
- ✦ If for commercial use, the description shall contain an affidavit sworn by the applicant setting forth:
 - i) that the land contains material of the kind applied for in merchantable quantities;
 - ii) that the volume of specified substances are required for a project that has been approved by the appropriate level of government; and
 - iii) that the applicant has obtained a contract for the delivery of those Specified Substances.

Please prepare this project description on a separate sheet of paper and attach it to your application form marked as APPENDIX A. Return the original, signed and dated application form, with attached APPENDICES A and B and all ORIGINAL maps of the area to the KIA Lands Office at Box 315, Kugluktuk, NT, X0E 0E0.