Chesterfield Inlet New Quarry Development

PART 1 FORM
PROJECT PROPOSAL INFORMATION REQUIREMENTS

For more information about the Nunavut Impact Review Board (NIRB) please visit our web site http://nirb.nunavut.ca/ or to access NIRB documents, project screenings, and project reviews please visit the Nunavut Impact Review Board ftp site http://ftp.nunavut.ca/nirb.

IMPORTANT

Please be advised that your application will not be processed until the following sections 1 - 6 are completed in full in English and Inuktitut (+ Inuinnaqtun, if in the Kitikmeot).

SECTION 1: APPLICANT INFORMATION

1. a) Project Number

Please indicate if applicant has submitted any previous application(s) to NIRB related to this project proposal? Yes ___ No ___

If yes, please indicate the previous NIRB project number(s): _____

1. b) Project Name Crush and screen 15,000 cubic meters of granular material, haul and stockpile – Chesterfield Inlet - Nunavut

2. Applicant's full name and mailing address:

	Fax:	*(867)645-8246*
Government of Nunavut	Phone:	(867)645-8208
Nunavut Airports, PO box 560	Email:	*fsalgado@gov.nu.ca*
Second floor, Rockland building		
Rankin Inlet		

3. Primary contact's full name and mailing address:

	Fax:	*(867)645-8246*
Mr. Felipe Salgado P.Eng	Phone:	(867)645-8208
Surface Maintenance engineer	Email:	*fsalgado@gov.nu.ca*
Same as above		

4. **Secondary contact's full name and mailing address:**

Simon Desjardins, Eng.	Fax:	867.979.8800
Nunatta Environemntal Services Inc.	Phone:	867.979.1488
PO Box 267	Email:	*Simon.desjardins@genivar.com*
Iqaluit, Nunavut		

SECTION 2: AUTHORIZATION NEEDED

1. Indicate <u>all</u> authorizations associated with the project proposal:

- [ ] Regional Inuit Association (RIA)
- [ ] Nunavut Water Board (NWB) - **YES**
- [ ] Nunavut Planning Commission (NPC)
- [ ] Department of Indian And Northern Development (DIAND) - **YES**
- [ ] Department of Fisheries and Oceans (DFO)
- [ ] Community Government & Services (CG&S) - ***YES***
- [ ] Nunavut Research Institute (NRI)
- [ ] Hamlet
- [ ] Canadian Launch Safety (CLS)
- [ ] Environment Canada (EC) - **YES**
- [ ] Government of Nunavut (GN) - **YES**
- [ ] Department of National Defense (DND)
- [ ] Department of Culture, Language, Elders, and Youths (CLEY)
- [ ] Parks Canada (PC)
- [ ] Other (please specify): **Transport Canada**

2. **List the <u>active</u> permits, licences, or other rights related to the project and their expiry date:**

No active permit for this new projet

SECTION 3: PROJECT PROPOSAL DESCRIPTION

1. Indicate the type of project proposal:

- [ ] Exploration (geophysical ground, geophysical air, drilling)
- [ ] Advanced Exploration/ Bulk Sampling
- [ ] Mine development
- [ ] Site remediation/ reclamation
- [ ] Research
- [ ] Dew Line Clean up / Site Investigation
- [ ] Port
- [ ] Other: **New Quarry – Need 15,000 m^3 of gravel to resurface Chesterfield Inlet airstrip**

2. Indicate the activities related to the project proposal:

- [ ] Drilling other than geoscientific **No**
- [ ] Offshore structure **No**
- [ ] Airport/ landing strip **No**
- [ ] Camp **No**
- [ ] Fuel storage **No**
- [ ] Solid waste disposal **No**
- [ ] Hazardous waste storage or disposal **No**
- [ ] Research **No**
- [ ] Abandonment and Restoration **Yes**
- [ ] Burning **No**
- [ ] Construction **(excavation)**
- [ ] Cut and/or Fill **No**
- [ ] Dam/ Impoundment (construction/ abandonment/ removal/ modification) **No**
- [ ] Drainage Alteration **No**
- [ ] Chemical Storage **No**
- [ ] Explosives Storage **No**
- [ ] Geoscientific sampling by diamond drilling **No**
- [ ] Geoscientific sampling by soil sampling **No**
- [ ] River/ stream/ lake crossing or work/ bridge **No**
- [ ] Soil testing - **YES**
- [ ] Tunneling **No**
- [ ] Quarrying – **15,000 m^3 requirement**
- [ ] All season road **No**
- [ ] Winter road **No**
- [ ] Access road - **Present**
- [ ] Road modification **No**
- [ ] Cabins **No**
- [ ] Sewage or grey water disposal **No**
- [ ] Blasting **No**
- [ ] Harvesting **No**
- [ ] Burying **No**
- [ ] Channeling **No**
- [ ] Removal of vegetation: **Surface removal at new quarry/crush and screen**
- [ ] Ditch construction **No**
- [ ] Excavation **15,000 cubic meters**
- [ ] Ecological survey **No**
- [ ] Geoscientific sampling by trenching **No**
- [ ] Geoscientific sampling by borehole core **No**
- [ ] Hydrological testing **No**
- [ ] Site restoration (fertilization/ grubbing/ **No** scarification/ spraying/ recontouring) **Yes: grade to natural ground elevation**
- [ ] Soil disposal/ Soil storage **No**
- [ ] Other (please specify):

3. Personnel

Total No. of personnel on site = (A) **6**

Total No. of person days = (A) x No. days on **site 6 x 60 = 360 person days**

4. Timing

Period of operation: **July 06** *to* **August 06; possibly during summer of 2007**

Proposed term of permit: **July 06** *to* **August 2007**

Please outline the phases of the proposed project (construction/ operation/ decommissioning) including the timing
and scheduling of each phase.

Mobilization July 2006; quarry excavation, crushing and screening 15,000 m^3 of material (July and august 2006); hauling and stockpiling material near the airstrip, August 2006. Due to adverse weather conditions and technical problems, the project may extend until summer 2007; demobilization as early as September 2006 or summer 2007.

5. Region (check all that apply):

☐ Baffin ☐ Kivalliq ♦ ☐ Kitikmeot ☐ Transboundary:

6. Land Status (check all that apply):

☐ Crown ♦ ☐ Commissioners' ☐ Inuit Owned Surface lands ☐ Inuit Owned Sub-Surface Lands

New quarry located outside of municipal boundary

7. Co-ordinates:

Min Lat (degree/minute) N63°20' Min Long (degree/minute) W90°45.8'

Max Lat (degree/minute) N63°20' Max Long (degree/minute) W90°45.8'

NTS Map Sheet No: NTS 055O/7

Please ensure that maps of the project are attached (1:50,000 **if available**, 1:250, 000 **Mandatory**) available from Natural Resources Canada. Refer to attached map

If the project proposal includes a **camp**, please provide the coordinates of the camp location

Min Lat (degree/minute) __ Min Long (degree/minute) __

Max Lat (degree/minute) __ Max Long (degree/minute) __

Not applicable – no camp requirement

If different from above for the camp:

NTS Map Sheet No: __

Please ensure that maps of the camp are attached (1:50,000 **if available**, 1:250, 000 **Mandatory**) available from Natural Resources Canada

8. Non-Technical Project Proposal Summary

Please include a non-technical description of the project proposal, no more than 500 words, in English and Inuktitut (+Inuinnaqtun, if in the Kitikmeot). The project description should outline the following:

- The project activities, their necessity and duration;
- Method of transportation;
- Any structures that will be erected (permanent/ temporary);
- Alternatives considered; and
- Long-term developments, the projected outcome of the development for the area and its timeline.

The Government of Nunavut needs to overlay Chesterfield Inlet's airstrip, apron and taxiway with granular material that possesses specific geotechnical properties. 15,000 cubic meters of gravel is required. A field investigation, done in July 2005 by Nunatta environmental Services Inc., revealed that the most economical way to produce this amount of gravel is to open a temporary quarry (located 15 km South-West of Chesterfield Inlet), crush and screen rock and gravel. The existing quarries in Chesterfield Inlet do not meet the specifications needed to overlay the airstrip. There is no other viable alternative then starting a new quarry.

The quarry/crushing/hauling and stockpiling work will start in July 2006 and will most likely end in August 2006. Due to adverse weather conditions, the work may terminate during the summer of 2007. The project may be as short as one summer (2006) and as long a 2 field season (until summer 2007).

Most of the heavy equipment required to undertake the work is available in Chesterfield Inlet. The crusher will most likely have to be shipped to Chesterfield Inlet. Once crushed and screened, the gravel will be stockpiled near the airstrip. It will be placed on the airstrip in 2007/2008 but will be done under a different contract.

There is an access road leading to the new quarry. New infrastructures will therefore not be required. Once the material is crushed and screened, it will be

hauled and temporarily stockpiled near the airstrip until the following summer (overlaying project starts then).

Upon completion of the project, the airstrip, taxiway and apron will have been resurfaced with new gravel. This will allow safe aircraft operations in Chesterfield Inlet for decades to come. This will be a positive help toward long term development in Chesterfield Inlet and the surrounding area.

The location of the new quarry is shown on the attachment and is located at Test Pits 2 and 3.

SECTION 4: MATERIAL USE

1. List equipment (including drills, pumps, aircrafts, etc.):

Equipment type and number	Size – dimensions	Proposed use
Excavator -1	17-20 tons	Excavate in new quarry
Loader –1	2.5yd bucket	Feed crusher
Crusher –1	400 tons per day	Crush rock and gravel to specs
Screener - 1	400 tons per day	Screen crushed rock to specs
12 wheeler -3	15-20 ton capacity	Haul gravel to airstrip stockpile
Service vehicle - 1	4x4F250	Fuel heavy equipment, etc

2. Detail fuel and hazardous material use:

Fuels	Number of Containers	Capacity of containers (gal & litre)
• Diesel	NA	12,000 liters
• Gasoline	NA	1,000 liters
• Aviation fuel	NA	NA
• Propane	NA	NA
• Other	1 drum	Hydraulic oil
Hazardous material (please specify)	NA	NA
•		
•		
•		

NA: Not Applicable

SECTION 5: WASTE DISPOSAL AND TREATMENT FACILITIES

1. List the types of waste:

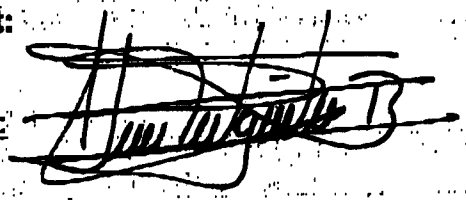
Type of waste	Projected amount generated	Method of Disposal	Additional treatment procedures
Sewage	6 workers, day camp	Portable toilet	Disposed off in sewage treatment facility
Greywater	NA	NA	NA
Garbage	Low amount	Hauled back to community every evening	
Overburden (organic soil, waste material, tailings)	Used in crusher	Rejects graded at the end of the project	NA
Hazardous waste	NA	NA	NA
Other:			

SECTION 6: COMMUNITY INVOLVEMENT & REGIONAL BENEFITS

1. List the community representatives that have been contacted and provide the minutes of the meetings if available:

Community	Name	Organization	Date Contacted	Telephone No.	Fax No.
Chesterfield Inlet	Roy Mullins	Hamlet	June 05	(867) 898-9926	(867) 898-9108

Applicant:

Signature: 

Title: Felipe Salgado, P.Eng., Surface Maintenance Engineer, Government of Nunanut, Nunavut airports

Date: 2006/02/06