# SCREENING PART 1 FORM
# PROJECT PROPOSAL SUMMARY

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). Translated versions of this form in Inuktitut and Inuinnaqtun are available from NIRB's ftp site at http://ftp.nunavut.ca/nirb/

## 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 X |
| If yes, please indicate the previous NIRB project number(s): | | |

**1. b) Project Name** **Clean Up of the PIN-2, Cape Young DEW Line Site**

**2. Applicant's full name and mailing address:**

| | | |
|---|---|---|
| Douglas Craig, M.Sc. | Fax: | 613-998-0468 |
| Constitution Square, Suite 1720 | Phone: | 613-998-7288 |
| 350 Albert Street | Email: | Douglas.Craig@dcc-cdc.gc.ca |
| Ottawa, ON K1A 0K3 | | |

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

| | | |
|---|---|---|
| Eva Schulz, P.Ag. | Fax: | 403-270-0399 |
| 2540 Kensington Road NW | Phone: | 403-270-9200 |
| Calgary, AB T2N 3S3 | Email: | eva.schulz@aecom.com |

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

N/A

Fax:
Phone:
Email:

## SECTION 2: AUTHORIZATION NEEDED

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

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

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

## SECTION 3: PROJECT PROPOSAL DESCRIPTION

**1. Indicate the type of project proposal:**

| | |
|---|---|
| | Exploration (geophysical ground, geophysical air, drilling) |
| | Advanced Exploration/ Bulk Sampling |
| | Mine Development |
| | All Weather Roads and Trails |
| | Winter Roads and Trails |
| X | DEW Line Clean up |
| | Off-Shore Infrastructure |
| | Pit and/or Quarry |
| | Other: _____ |

**2. Indicate the activities related to the project proposal:**

| | | | |
|---|---|---|---|
| | Drilling other than geoscientific | X | Quarrying |
| | Offshore structure | | All season road |
| X | Airport/ landing strip | | Winter road |
| X | Camp | X | Access road |
| X | Fuel storage | | Road modification |
| X | Solid waste disposal | | Cabins |
| X | Hazardous waste storage or disposal | X | Sewage or grey water disposal |
| | Research | | Blasting |
| X | Abandonment and Restoration | | Harvesting |
| X | Burning | | Burying |
| X | Construction | | Channeling |
| X | Cut and/or Fill | | Removal of vegetation |
| | Dam/ Impoundment (construction/ abandonment/ removal/ modification) | | Ditch construction |
| X | Drainage Alteration | X | Excavation |
| X | Chemical Storage | | Ecological survey |
| | Explosives Storage | | Geoscientific sampling by trenching |
| | Geoscientific sampling by diamond drilling | | Geoscientific sampling by borehole core |
| X | Geoscientific sampling by soil sampling | | Hydrological testing |
| | River/ stream/ lake crossing or work/ bridge | X | Site restoration (fertilization/ grubbing/ scarification/ spraying/ recontouring) |
| X | Soil testing | X | Soil disposal/ Soil storage |
| | Tunneling | | Other (please specify): |

**3. Personnel**

Total No. of personnel on site = (A): 60

Total No. of person days = (A) x No. days on site: (60 X 90) per year for 3 years

**4. Timing**

*Period of operation:* **June 1, 2009** *to* **October 31, 2011**

*Proposed term of permit:* **same** *to* **same**

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

PIN-2 is scheduled for clean up beginning in 2009 as part of the DLCU project, with completion expected in 2011. The contractor will mobilize to the site in summer 2009, by barge and set up a temporary construction camp. Clean up activities are expected to continue through to 2011, depending on the contractors' approach and weather conditions.

The expected duration of annual clean up activities on site will generally be from June to October. During the winter months, work will cease and equipment and facilities on site will be winterized. It is expected that contractors' workforce and accessory personnel will mobilize to and from the site from nearby northern communities. Completion of the clean up and demobilization of the contractors' facilities and equipment is anticipated for October 2011. Long-term monitoring of the landfills will begin once clean up is completed and will continue for a 25-year period. After 25 years, the monitoring requirements will be re-evaluated.

**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

**7. Co-ordinates:**

Min Lat (degree/minute) 68°28'10" Min Long (degree/minute) 113°13'11"

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

*NTS Map Sheet No:* 87B Blue Nose Lake

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

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)

**Exact camp location is TBD.**

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.

In 1998, the Environmental Provisions of the Cooperation Agreement between DND and Nunavut Tunngavik Inc. (NTI), which included the DEW Line Clean up Protocol, were implemented to provide the approach necessary to restore the sites to an environmentally safe condition and prevent the migration of contaminants into the Arctic food chain. The purpose of the proposed project activities is to provide remedy for previous activities that occurred as a result of the operation of the former DEW Line site. Specifically, clean up activities are to prevent the release of physical debris and/or contaminants into the environment, including the adjacent marine environment. During the construction phase of the clean up, existing facilities no longer required for the operation of the NWS will be demolished. The demolition wastes will be segregated into hazardous and non-hazardous materials and disposed of appropriately. Contaminated soils identified during the previous field investigations will be excavated and properly disposed of in on-site engineered landfills or at off-site facilities. Scattered surface debris and partially buried debris on the site will also be collected and disposed of. A Non-hazardous waste landfill will be constructed to contain the non-hazardous contaminated soil and demolition waste generated during the clean up. A Tier II Soil Disposal Facility will be constructed to contain Tier II contaminated soils excavated from the site. The existing landfills within the site will be remediated, as required. Disturbed areas will be physically restored to a stable condition shaped to match the existing terrain. Lastly, a monitoring program will be carried out after the clean up has been completed.

The following activities will occur on-site to support the clean up work:

- Use of existing airstrip and roads at site for equipment transport, movement and access to work areas.
- Set-up of cleanup camp and equipment storage.
- Sewage from the camp will be handled with, at minimum, primary treatment (lagoon) and discharged to ground surface. Sewage treatment and disposal will be in accordance with the Land Use Permit and Water Use License.
- Domestic wastes to be incinerated and disposed of in the new Non-hazardous Waste Landfill.
- Demobilization of cleanup camp following end of project.
- Labour and equipment requirements are anticipated to include approximately 40-60 personnel, 20 pieces of heavy construction equipment and 5 support vehicles.
- Duration of work is anticipated to be approximately 4 months, not including winter shutdown period, over a period of three years.

There are no future development plans for the PIN-2 site.

## SECTION 4: MATERIAL USE

1. **List equipment (including drills, pumps, aircrafts, etc.): This is a typical equipment list and the type and quantity may vary slightly.**

| Type | Proposed use |
|---|---|
| Crew Cabs, Passenger Bus, ATVs and trailers, Fuel Truck | Light Trucks and Misc. Transport |
| Excavator w/ shear, chuck blade, wrist& twist digging and clean-up bucket, Wheeled Backhoe w/sorting rake, Excavator w/ digging & clean-up bucket | Excavators |
| Cat – c/w ripper and tilling shanks, Cat – c/w winch, D6M – c/w 6 way, manual steer-winch, Cat – c/w back-hoe attachment | Crawler Tractors and Dozers |
| IT38G w/ material handling arms, q.c. bucket, forks, Cat Loader w/ q.c. bucket, forks, ISO forks | Loaders |
| D25E – Articulated rock truck, bed truck, vacuum truck – wet, scissor neck trailer w/ pin on flip up roll, 40' oilfield float trailer | Rock Trucks and Haul Units |
| Vibratory drum packer, 815 wheeled packer with blade | Compaction Equipment |
| Enviro-tank, Day fuel tank, Non-potable water tank, Utility pump | Fuel Tanks and Pumps |
| Camp accommodations, mechanics shop & parts storage (45' van), Potable water hauling truck, Potable water pump, camp power generators | Camp Facilities |
| Air Hammer drill | Drills |
| Oxy-acetyline torch set, survey equipment, hydraulic shears (jaws of life), hot water steam washer – gas powered, 9 kg A-B-C Dry Chem Fire extinguishers, 110 kg wheeled Dry Chem A-B-C Fire Extinguisher, Fertilizer Spreader, HEPA vacuum cleaner w/ filters, Haz-mat Filter pump, portable diesel generator, dumpster bin, stacking garbage bin, Haz-mat sorting | Miscellaneous Equipment |

| | |
|---|---|
| bins, large spill kits (overpack barrels), small spill kits (quick response man-pack), floating berm, assorted PPE & CPC, assorted sorbent pads, socks, and absorbent materials (floor-dry), | |

**2. Detail fuel and hazardous material use:**

| Fuels | Number of Containers | Capacity of containers (gal & litre) |
|---|---|---|
| • Diesel | 4 | 330,000 L |
| • Gasoline | 1 | 18,000 L |
| • Aviation fuel | | n/a |
| • Propane | | n/a |
| • Other | | n/a |
| Hazardous material (please specify) | | n/a |
| • | | |
| • | | |
| • | | |

Please note that the exact number of container is not yet known and that fuel may be brought in over two years, rather than all at once.

## 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 | 180 $m^3$ | Lagoon | |
| Greywater | 2200 $m^3$ | Lagoon | |
| Garbage | 45 $m^3$ | F/A incinerator and disposal in on-site landfill | |
| Overburden (organic soil, waste material, tailings) | n/a | | |
| Hazardous waste | 180 $m^3$ | Off-site | |
| Other: | Contaminated soils – approx. 3,270 $m^3$ | On site landfills | |

## SECTION 6: COMMUNITY INVOLVEMENT & REGIONAL BENEFITS

**1. List the community representatives that have been contacted and provide the minutes of the meetings if available:**
Please note, invitations to the community meetings are typically extended to the Mayor, the HTA and the Elders groups in each community. The community meeting minutes are included in Appendix C of the Project Description.

**Applicant: Eva Schulz for Douglas Craig**

| Signature | Title | Date |
|---|---|---|
| | Environmental Scientist | October 14, 2008 |