



SCREENING PART 2 FORM PROJECT SPECIFIC INFORMATION REQUIREMENTS (PSIR)

1. SUBMISSIONS

NIRB part 1 application in English and Inuktitut are downloaded along with the MAP of the Municipality of Pangnirtung which shows the exact locations of Water Treatment Plant, wastewater treatment plant and waste management site.

2. GENERAL PROJECT INFORMATION REQUIREMENTS

Project Coordinates and Maps:

The Municipality of Pangnirtung is the Project under the Type B Water Licence #3BM-PAN1417 and located at 66°09'00"N and 65°40'34" W. This licence covers water supply, wastewater treatment and Waste management facilities. The Water supply is situated at 66°08'59" N and 065°40'38.7"W, wastewater treatment plant is at 66°09'15.4" N and 065°40'40.5" W and waste management facility is at 66°09'27.7" N and 065°40'02.2" W.

Pangnirtung is one of the communities in Baffin Region and its neighbouring community is Qikiqtarjuaq located at 67°33'N and 64°02' W.

Project General Information:

All three Environmental facilities under this project are existing and satisfying the community demand for public health and Environmental safety. These facilities are regulated under the conditions of water Licence issued by Nunavut Water Board and enforced by INAC.

DFO Operational Statement (OS) Conformity:

Not applicable.

Transportation:

Materials are brought to the Community by Air Cargo and mostly by Sea lift. All the facilities are located within the municipal boundary and accessible by Municipal road. Trucking is the internal mode of transportation.

Camp Site:

Not applicable

Equipment:

Trucks are used for water distribution, hauling garbage and collection of sewage. Bull dozer is used for snow moving purposes and also for compacting domestic garbage in the landfill site.

Water:

The surface water source is the Duval River. Water from Duval River is extracted by a pump through an intake pipe which has a mesh at the end to prevent fish from entering into the pipe and stored in the Storage Reservoir for annual use. Water from storage reservoir is pump again through the second intake pipe, filtrated and chlorinated inside the water treatment plant and filled the tank of the truck for distribution.

The daily average consumption volume is 138.02 m³/day. The extraction volume is higher than this quantity .The extraction volume is expected to exceed 300m³/day and the annual storage volume will definitely exceed 60,000 cubic meters in the near future.

This is why Type B water licence is requested to renewed to Type A.

The waste water produced in the community is treated in a mechanical treatment Plant.

Waste Water (Grey water, Sewage, Other):

The waste water is trucked from the individual housing unit to the Mechanical treatment Plant for treatment.

The solid waste is managed in the land fill site. Papers etc. are burned inside the landfill. Other garbage is compacted.

The metals are managed in the metal dump site. Whereas burned oil is stored in the drum and batteries are kept in the Sea can.

Fuel:

The community has a central fuel depot where different types of petroleum products are stored for annual use.

Fuel Truck is the only method of transportation available in the community. Each facility has a fuel tank which is used for fuel storage.

The Community has a spill contingency plan to follow and this plan is attached.

Chemicals and Hazardous Materials:

Hazardous materials like batteries etc. are segregated from the dump site and stored in the sea can for future ship out to the south. Spill is reported to spill hot line and managed according to the guidelines established in the community spill management plan attached.

Workforce and Human Resources/Socio-Economic Impacts:

The local employees are trained under the training program as established by Municipal Training organization (MTO). All the operators are Inuit and local residents. They are trained as needed basis at the work place or outside in the class room.

Public Involvement/ Traditional Knowledge:

The facilities under this project are existing and functioning for long. The public consultation through the Hamlet council is done when upgrade or replacement of any of the Environmental facility takes place.

3. PROJECT SPECIFIC INFORMATION

The following table identifies the project types identified in Section 3 of the NIRB, Part 1 Form. Please complete all relevant sections.

It is the proponent's responsibility to review all sections in addition to the required sections to ensure a complete application form.

Table 1: Project Type and Information Required

Project Type	Type of Project Proposal	Information Request
1	All-Weather Road/Access Trail X	Section A-1 and Section A-2
2	Winter Road/Winter Trail	Section A-1 and Section A-3
3	Mineral Exploration	Section B-1 through Section B-4
4	Advanced Mineral Exploration	Section B-1 through Section B-8
5	Mine Development/Bulk Sampling	Section B-1 through Section B-12
6	Pits and Quarries	Section C
7	Offshore Infrastructure(port, break water, dock)	Section D
8	Seismic Survey	Section E
9	Site Cleanup/Remediation	Section F
10	Oil and Natural Gas Exploration/Activities	Section B-3 and Section G
11	Marine Based Activities	Section H
12	Municipal and Industrial Development X	Section I

SECTION A: Roads/Trails**A-1. Project Information**

The municipal road is connected to all the three Environmental facilities under this project. Hamlet maintains this access road under the annual road maintenance program. Hamlet has a snow removal plan to keep the access open for public use as best as possible.

A-2. All-Weather Road/Access Trail

The Hamlet water sprays as the method of dust control. The traffic has to follow the speed limit and stop sign regulated under the hamlet bylaws.

A-3. Winter Road/Trail

Hamlet uses their snow moving heavy equipment to remove snow and to make the municipal road always accessible to the traffic. They clean the culverts and road side drains to reduce surface flooding. The municipal traffic bylaws control the traffic movement within the Municipality.

SECTION B: Mineral Exploration /Advanced Exploration /Development

B-1. Project Information

Not applicable

B-2. Exploration Activity

Not applicable

B-3. Geosciences

Not applicable

B-4. Drilling

Not applicable

B-5. Stripping/ Trenching/ Pit Excavation

Not applicable

B-6. Underground Activities

Not applicable

B-7. Waste Rock Storage and Tailings Disposal

Not applicable

B-8. Stockpiles

Domestic wastes initially are stocked pile in the Land fill site.

B-9. Mine Development Activities

Not applicable.

SECTION C: Offshore Infrastructure

Not applicable

SECTION D: Seismic Survey

Not applicable

SECTION E: Site Cleanup/Remediation

The operation of all these three facilities is ongoing. These sites are kept clean for better human living and safe work place. Health and Safety is considered priority of the municipal staffs.

SECTION F: Marine Based Activities

Not applicable.

SECTION G: Municipal and Industrial Development

The Local operators are managing these environmental facilities. They are trained on Confined space, WHIMS, health and safety and Lab testing.

Special training has been provided to the Water Treatment plant operator on plant operation and maintenance, water testing and record keeping.

The three operators for the wastewater treatment mechanical plant are skilled in handling different chemicals which are used in this plant operation. They are doing chemical analysis of the wastewater in the plant lab.

The operator carefully manages the domestic wastes by burning and compacting in a way to control wind blowing light garbage like paper etc. in order to protect air pollution.

The Municipal development is in perfect order once these three environmental facilities run to the satisfaction.

The fish plant of this community runs very well and acts as an example of industrial development.

4. DESCRIPTION OF THE EXISTING ENVIRONMENT

The Landfill site is the environmental concern. This facility is too close to the community and almost full. A feasibility study was conducted to relocate this site following GN's new waste management guidelines. The new facility is not expected before 2022.

5. IDENTIFICATION OF IMPACTS AND PROPOSED MITIGATION MEASURES

The Fish plant effluent is treated in the Wastewater treatment plant and solid parts are sometimes imported overseas. Alternatively manage in the landfill site.

The sludge as the by-product of the wastewater treatment plant is contained in plastic bags and placed in a designated area of the landfill site.

6. CUMULATIVE EFFECTS


These existing environmental facilities are favourably supporting to maintain the better environment in the Community.

7. SUPPORTING DOCUMENTS

The following documents are downloaded on the NIRB on line application.

- 1. NIRB part 1 and 2 application in English**
- 2. NIRB part 1 application in Inuktitut**
- 3. Project proposal in English and Inuktitut**
- 4. Hamlet Water Licence renewal application from Type B to Type A**
- 5. Hamlet Annual report 2016**
- 6. Project Map showing all the three Facilities**
- 7. O&M manual of the WWTP**
- 8. O&M manual of the WTP**
- 9. Spill Contingency Plan**
- 10. Emergency bypassing Plan of WWTP**

TABLE 1 - IDENTIFICATION OF ENVIRONMENTAL IMPACTS

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PROJECT ACTIVITIES																																				
CONSTRUCTION																																				
OPERATION																																				
DECOMMISSIONING																																				

Note: Please indicate in the matrix cell whether the interaction causes an impact and whether the impact is
P = Positive
N = Negative and non-mitigatable
M = Negative and mitigatable
U = Unknown
If no impact is expected please leave the cell blank

