

Water Licence Application Questionnaire

for

Municipal Undertakings

'To provide for the conservation, development and utilization of waters in a manner that will provide the optimum benefit there from for all Canadians and for the residents of the Inuvialuit Settlement Region in particular.'

The purpose of this questionnaire is to solicit supplemental information from an applicant to support his/her application for a water license (or its renewal). It is anticipated that the completion of this questionnaire will reduce delays arising from the Inuvialuit Water Board having to solicit additional information after an application has been submitted. This information will also be useful during the review of your application, which must be undertaken prior to development and approval of a water license.

The applicant should complete the questionnaire to the best of his/her ability, recognizing that some questions may not be relevant to the project under consideration. For questions that do not relate to the operation undertaking, the applicant is requested to indicate "N/A" (Not Applicable).

NOTE: If space is insufficient for any of the responses on this questionnaire, use the back of the sheet or an attachment.

If any questions arise while completing the questionnaire, the applicant may wish to contact the Inuvialuit Water Board at (867) 678-2942.

This questionnaire can be sent with the application for a new licence or the renewal of an existing licence to the following contact information:

Executive Director
Inuvialuit Water Board
P.O. 2531
Inuvik, NT, Canada
X0E 0T0
Email: info@nwtwh.com

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SECTION 1: GENERAL

Date:

Applicant:

INC. HAMLET OF SAULTS HARBOUR

(Company, Corporation, Hamlet, Town)

STEPHEN WYLLIE, SAO

(Person to contact and its position)

93 PRINCEPALE STREET PO BOX 90 SAULTS HARBOUR, NT

(Postal address) XOE 0Z0

(867) 690-4351

(Telephone number)

(867) 690-4802

(Facsimile number)

Community Status

City _____ Village _____ Town _____ Camp _____

Other HAMLET

Population (according to most recent census results), and the Estimated Growth Rate over next five years or Camp Maximum Capacity:

100 +

Indicate the status of the municipality's license on the date of application.

New Application: Yes

No

RENEWAL

If yes, please submit your Water Licence Number and the date the licence was issued.

Renewal of Water License Number:

Date of Issuance:

Has any baseline data been collected for the main water bodies in the area?

Yes

No

Unknown

If yes, please attach:

- All data gathered on the physical, biological and chemical characteristics at each sampling location;
- A summary or program details indicating sampling locations, description of waste at each location, sampling frequency, and parameters analyzed;
- An outline of Quality Assurance/Quality Control methods being applied to sampling, preservation and analysis within the program.

Has any baseline data collection and evaluation been undertaken with respect to the various biophysical components of the environment potentially affected by the project (e.g., wildlife, soils, air quality) in addition to water related information requested in this questionnaire?

Yes

No

Unknown

If yes, please attach copies of reports or cite titles, authors and dates (prepared by, title and completion date).

If no, do you plan on doing such studies? If you do plan on doing such studies, please describe the proposals.

Attach detailed maps which show the relative locations of the:

- raw water intake;
- water treatment facilities;
- fuel & chemical storage;
- sewage treatment facilities;
- wastewater treatment area and discharge outlets;
- solid waste disposal areas and drainage patterns;
- hazardous waste disposal area;
- transportation access routes: and

- existing waterbodies/courses and any changes to these water bodies/courses which have or may occur as a result of water use of waste disposal facilities, locations of environmental monitoring sites.

Attach detailed scale plan drawing(s) of the proposed (or present) sewage treatment system. The drawing(s) must be stamped by an engineer registered in NWT and include the following:

- details of pond size and elevation;
- precise details of all retaining structures (dimensions, materials of construction, etc.);
- details of the drainage basin, and existing and proposed drainage modifications;
- details of all decant, siphon mechanisms etc, including sewage treatment facilities;
- details regarding direction and route followed by wastewater flow from the area;
- indications of the distance to nearby major watercourses, and fish bearing waters;
- location and construction of liners;
- leachate and groundwater collection systems; and
- control structures.

Attach detailed scale plan drawings of the proposed (or present) solid waste disposal area. The drawings must include the following:

- precise details of all retaining structures (dimensions, materials of construction, etc.);
- details of the drainage basin, and existing and proposed drainage modifications;
- details regarding direction and route followed by wastewater flow from the area;
- indications of the distance to nearby major watercourses, and fish bearing waters;
- all sources of seepage presently encountered in the vicinity of these areas;
- the volume of each seepage flow (m³/day); and
- the direction of each flow.

Attach the present or proposed contingency plan which will be used for each portion of the waste control system in the event it fails to operate properly.

Attach the present or proposed spill contingency plan which will be employed in case a spill of hazardous materials occurs. Describe courses of action, mitigative methods and equipment available for use.

NOTE: Individual detailed large scale drawings of all facilities (dam, decant system, ditch, dike, water treatment plant, etc) constructed or proposed must be attached. Specific details with regard to the methods of construction, materials used, etc. are required.

SECTION 2: WATER SUPPLY

Volume of water use (m³/day)

Type of source

Lake: River: _____ Well: _____ Other: _____

Name of raw water source and alternative, if any

RAW WATER SUPPLY

Usual break-up & freeze-up months

Break-up: JUNE Freeze-up: SEPTEMBER

Please provide short descriptions for the following

Freshwater intake facility:

WATER TREATMENT PLANT

Operating capacity of the pumps used:

12000 LITRE'S IN WATER TRUCK

Type of water storage facility (ie: Reservoir, storage, tank, none) For other, please provide a description)

What is the capacity of the water storage facility? m³

What is the rate of withdrawal from the source? (m³/day)

Is water drawn from the source?

~~NO~~

If yes, during what month(s) is it drawn? And for what period of time is it drawn (days/weeks/months)?

What is the rate of flow of source (if river) or size (if lake)?

At the intended rate of water usage, describe the effects on the river or lake from which water will be drawn.

General condition of

Water supply facility: Satisfactory Unsatisfactory

If unsatisfactory, explain:

Storage facility: Satisfactory Unsatisfactory

If unsatisfactory, explain:

Distribution system: Satisfactory Unsatisfactory

If unsatisfactory, explain:

Are there any changes planned in the water supply system?

Yes No

If yes, please attach a copy of the plan, or describe changes.

SECTION 3: WATER TREATMENT

Indicate the quality of the raw water prior to treatment & distribution and give a description

Good Fair Poor
Description:

Indicate the capacity of the treatment facility (L/minute)

Type of water treatment facility (ie: Filtration & Chlorination, Chlorination only, UV, None. If other, please describe)

Describe in detail the method of water treatment (ie: backwash, flocculation, sedimentation, chemicals used) and provide the results of the most recent bacteriological and chemical analysis. Attach a diagram if possible.

Have there been any problems or health and environmental concerns with the water treatment facilities?

Yes No

If yes, please describe:

Are there any changes planned in the water treatment facilities?

Yes No

If yes, please attach a copy of the plan or indicate change

SECTION 4: SEWAGE DISPOSAL

Indicate the level of treatment the sewage will be receiving (primary, secondary or tertiary. If other, please describe)

Pre-treatment (if applicable)

Screening Maceration

Lagoons (if applicable)

Anaerobic aerobic facultative

Indicate the capacity of the sewage treatment facility (m³)

Indicate the retention time of the sewage while in the treatment facility (days)

Indicate the estimated rate of discharge of wastewater

Indicate the location of the discharge point

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Will the discharge be seasonal or continuous?

If seasonal, during what month(s) will it occur?

What is the duration of the discharge (days/weeks/months)

Comment on the general condition of the:

Sewage collection system

Discharge control system

Dams, diversion, dykes or berms

Have there been any problems or health and environmental concerns with the sewage disposal facilities?

Yes No

If yes, please describe:

The average depth of the wastewater lagoon is (meters)

What is the design freeboard? (meters)

Is there any harvesting of fish or shellfish in the waters where waste is discharged?

Yes

No

If yes, please indicate species harvested, and estimate amounts.

Will the municipality be using a honey bag pit?

Yes

No

If yes, describe its location, drainage and operation & maintenance

Are there any sources of commercial or industrial liquid waste being discharged or deposited to the municipal system which may affect the quality of the effluent or leachate produced?

Yes

No

If yes, please describe:

Have any spills occurred in the past five years?

Yes

No

If yes, please submit a list of all spills with the date of the spill, the type of spill, the quantity spilled, the location of the spill, the method used to clean the spill and the results of the clean-up.

Have there been any operating problems with the lagoon?

Yes

No

If yes, please describe:

Are there any changes planned in the sewage disposal facilities?

Yes

No

If yes, please describe and if possible, attach a copy of the plan:

SECTION 5: SOLID WASTE DISPOSAL

Indicate the capacity of the disposal area (m³)

The average depth of the solid waste disposal site is (meters)

Are there any sources of commercial or industrial solid waste being deposited in the municipal system which may affect the quality of the effluent or leachate produced?

Yes

No

If yes, please describe:

Briefly describe how the solid waste will be picked up & delivered to the disposal area

Is the solid waste site fenced?

Yes

No

Will the municipality be using a dead animal pit?

Yes

No

If yes, please describe its location, drainage and operation & maintenance:

Will the municipality be using a bulky metal waste disposal area?

Yes

No

If yes, please describe its location and operation & maintenance:

Will the municipality be using a hazardous waste disposal area?

Yes

No

If yes, please describe its location, structure and operation & maintenance:

The Dump is Segregated.

Are there any hazardous commercial wastes entering the solid waste disposal system?

Yes

No

If yes, please describe (source, volume, special handling and disposal methods for these wastes):

If any natural watercourse may gain access to the proposed solid waste disposal area, what methods will be used to decrease the amount of runoff water entering these areas? Indicate the volume of water which may enter these areas from the source(s) in question and attach all pertinent details of proposed diversions

Please describe the nature of any diversions of watercourses

Have there been any problems or health and environmental concerns with the solid waste disposal facilities?

Yes No

If yes, please describe:

Are any changes planned in the solid waste disposal system?

Yes No

If yes, please describe and, if possible, attach a copy of the plan:

SECTION 6: ABANDONMENT AND RESTORATION PROGRAM

List and describe the locations of abandoned or restored water treatment facilities.

List and describe the locations of abandoned or restored sewage treatment facilities.

List and describe the locations of abandoned or restored solid waste disposal facilities.

Do you have an abandonment and restoration plan?

Yes No

If yes, please attach a copy of the plan.

SECTION 7: WATER QUALITY MONITORING PROGRAM

Briefly describe the methodology that is presently used to sample the raw water supply

Briefly describe any monitoring that is done on wastewater effluent and leachate

Recognized laboratory performing analysis of samples

Name of the laboratory:

Contact name:

Postal address:

Telephone number:

Facsimile number:

Are any changes planned in the water quality monitoring program?

Yes

No

If yes, please describe

SECTION 8: ENVIRONMENTAL ASSESSMENT AND SCREENING

Has this project ever undergone an initial environmental review, including previous owners?

Yes No Unknown

If yes, by whom and when?

Has approval been obtained or sought from the Department of Fisheries and Oceans for using any fish bearing water bodies for containment or disposal of waste?

Yes No

Are there any environmental studies ongoing or planned?

Yes No

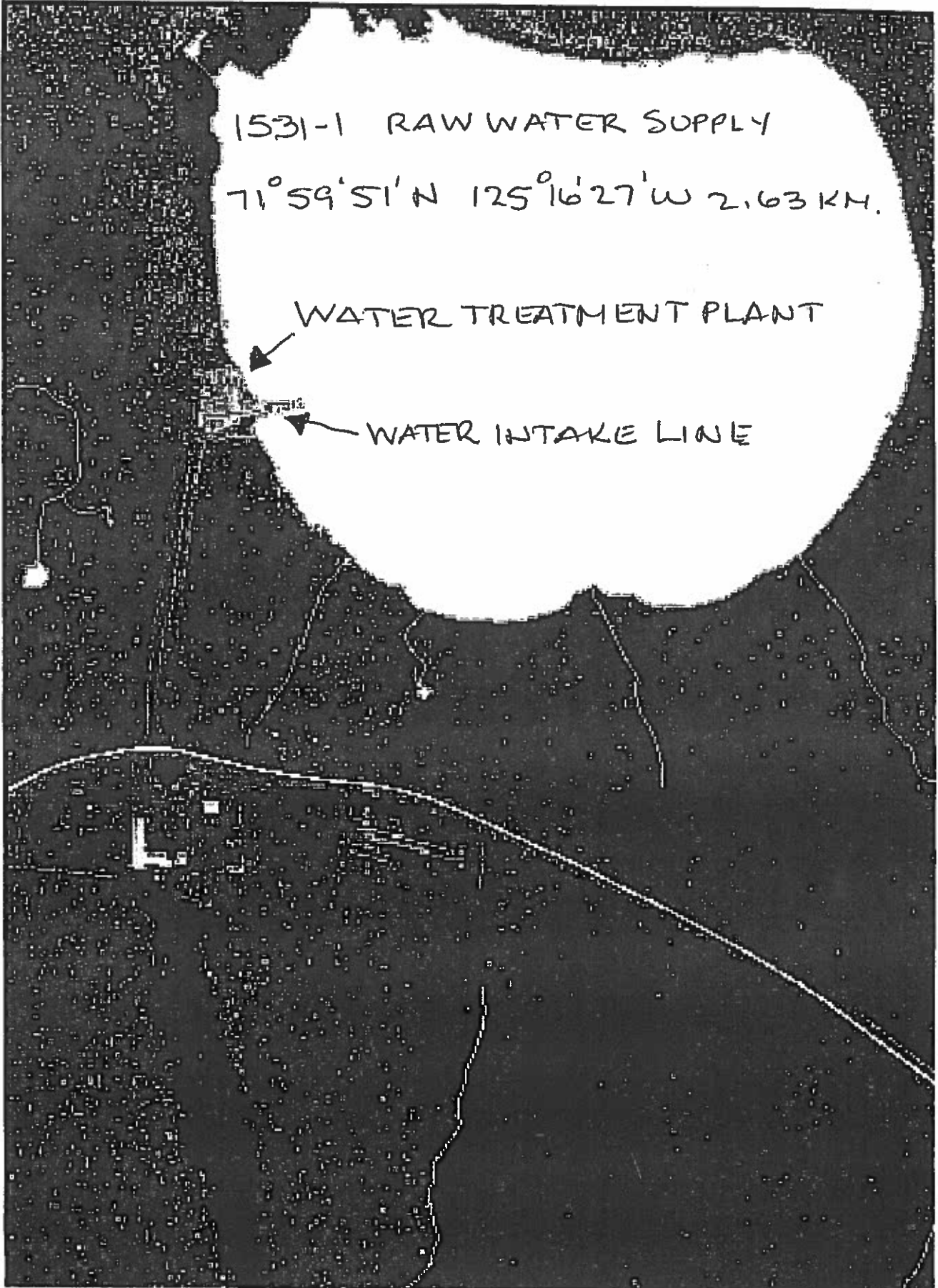
If yes, please provide a list of these studies.

Prepared by: ADELLA R. CARPENTER ACTING SAO
Printed Name Title

 AUGUST 25, 2017
Signature Completion Date

SECTION 9: LIST OF ATTACHMENTS

Reference to the question in the questionnaire	Title of the documents	Date of the documents	Author(s) of the documents	Number of pages of the documents
Question N°:				
Question N°:				
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1531-1 RAW WATER SUPPLY
71°59'51'N 125°16'27'W 2.63 KM.

WATER TREATMENT PLANT

WATER INTAKE LINE

GOOGLE COORDINATES

WATER LAKE

71°59'51" N 125°16'27" W 2.63 KM

1S31-1 RAW WATER SUPPLY

SOLID WASTE DISPOSAL

71°59'10" N 125°27'03" W 1.33 KM

1S31.3 - GARBAGE DUMP

SEWAGE LAGOON

71°59'41" N 125°19'23" W 2.09 KM.

1S31-2 SEWAGE LAGOON