

YUKON WATER BOARD

Pursuant to the *Waters Act* and *Waters Regulation*, the Yukon Water Board hereby grants a Type A water licence for a municipal undertaking to:

Town of Faro
Box 580
Faro, YT Y0B 1K0

LICENCE NUMBER: MN08-078

UNDERTAKING: MUNICIPAL

LICENCE TYPE: A

WATER MANAGEMENT AREA: 02 Yukon **LOCATION:** Faro, YT

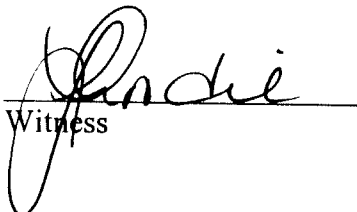
PURPOSE: To obtain, store, and return a flow of water for municipal supply, and to operate a wastewater treatment and disposal system that discharges to the Pelly River.


EFFECTIVE DATE: The effective date of this licence shall be the date on which the signature of the Chairperson of the Yukon Water Board is affixed.

EXPIRY DATE: September 30, 2034

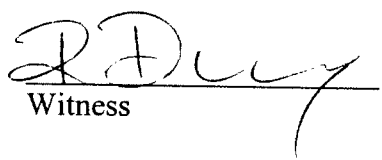
This licence shall be subject to the restrictions and conditions contained herein and to the restrictions and conditions contained in the *Waters Act* and the *Waters Regulation* made thereunder.


Approved this 15th day of
October, 2009.


Witness


Minister, Executive Council Office
GOVERNMENT OF YUKON

Issued this 20 day of
October, 2009.


Witness


Chairperson
YUKON WATER BOARD

PART A - DEFINITIONS

“Act” means *Waters Act* and any amendments thereto.

“Application” means Water Use Application MN08-078, including any additional submissions and/or revisions submitted to the Yukon Water Board by the Licensee, up to the date of the Board’s decision.

“Bi-weekly” means every second week.

“Board” means the Yukon Water Board.

“Inspector” means any person designated as an Inspector under the Act.

“Natural Boundary” means the visible high water mark of any lake, river, stream or other body of water where the presence and action of water is so common and usual and so long continued as to mark upon the soil of the bed of the lake, river, stream or other body of water a character distinct from that of the banks thereof, both in respect to vegetation and in respect to the nature of the soil itself. In addition, the best estimates of the edge of dormant or old side channels and marsh areas are considered to be Natural Boundaries.

“Regulation” means the *Waters Regulation* made under the Act.

“Waste” means any substance as defined in the Act.

“Watercourse” means any stream, lake, pond, river, creek, spring, ravine or swamp whether ordinarily containing water or not.

PART B - GENERAL CONDITIONSOther Laws

1. No condition of this licence limits the application of any other federal, territorial, first nation or municipal legislation.
2. All construction or installation of works authorized by this licence shall occur on property that the Licensee has the right to enter upon and use for that purpose.

Correspondence

3. Where any direction, notice, order or report under this licence is required to be in writing, it shall be given:
 - a) To the Licensee, if delivered, faxed or mailed by registered mail to the following address:

Town of Faro
Box 580
Faro, YT Y0B 1K0
Fax: (867) 994-3154

and shall be deemed to have been given to the Licensee on the day it was delivered or faxed, or 7 days after the day it was mailed, as the case may be.

- b) To the Board, if delivered, faxed or mailed by registered mail to the following address:

Yukon Water Board
Suite 106, 419 Range Road
Whitehorse, YT Y1A 3V1
Fax: (867) 456-3890

and shall be deemed to have been given to the Board on the day it was delivered or faxed, or 7 days after the day it was mailed, as the case may be.

- c) The Board or the Licensee may, by notice in writing, change its address for delivery.

Non-Compliance

4. In the event that the Licensee fails to comply with any provision or condition of this licence, the Board may, subject to the Act, cancel the licence.

Spills and Unauthorized Discharges

5. The Licensee will submit to the Board a spill contingency plan within 90 days after the effective date of this licence. The spill contingency plan shall include plans for petroleum products and/or hydrocarbons, as well as, municipal wastewater.
6. The Licensee shall immediately contact the 24-hour Yukon Spill Report number, (867) 667-7244, and implement the spill contingency plan should a spill or an unauthorized discharge occur. A detailed written report on any such event including, but not limited to, dates, quantities, parameters, causes and other relevant details and explanations, shall be submitted to the Board not later than 10 days after the occurrence.
7. All personnel shall be trained in procedures to be followed and the equipment to be used in the containment of a spill.
8. The Licensee shall submit material safety data sheets to the Board for all petroleum products and/or hazardous materials that are to be present during this undertaking.
9. The spill contingency plan shall be posted on site for the duration of the works.

Fuel Storage and Transfer

10. Fuel, lubricants, hydraulic fluids, coolants and similar substances shall be stored and/or transferred a minimum of 30 metres from the Natural Boundary of any Watercourse, in such a way that said substances are not deposited in or allowed to be deposited in waters.

Annual Reports

11. The Licensee shall submit annual reports to the Board. The initial report shall be from the effective date of this amendment of the licence to December 31, 2009 and shall be submitted to the Board on or before March 31, 2010. Subsequent reports shall cover the period from January 1 to December 31, and shall be submitted to the Board on or before March 31 of the following year.
12. Annual reports shall include the information required by this licence and by the Regulation, including, but not necessarily limited to:
 - a) data collected according to the monitoring and surveillance requirements of this licence; and
 - b) details of the methods, procedures and standards used in the data collection and sample testing; and
 - c) an analysis and interpretation of the collected data by an individual qualified to do so; and
 - d) a detailed record of the operation of the water supply, sewage collection and sewage treatment works, including operational difficulties, non-routine maintenance work and modifications; and
 - e) inspection reports, including recommendations for maintenance, repairs and improvements to the physical works associated with the water supply, sewage collection and sewage treatment facilities; and
 - f) a description of repairs completed to the sewage collection system during the previous year, an explanation of any repairs identified as required but not completed, and an identification of additional work to be undertaken in the next year; and
 - g) any other information or reports required by this licence or the Regulation.

Reports

13. All reports required to be submitted to the Board will be unbound and reproducible by standard photocopier, accompanied by one electronic copy on a CD/DVD.
14. The Licensee shall provide to the Board 5 additional copies of all reports. The additional copies may be either 5 bound paper copies or 5 electronic copies on individual CDs/DVDs.
15. Electronic copies shall be IBM compatible in one of the following formats: Word 97 - 2003, Excel 97 - 2003 workbooks, or Adobe pdf format. Water quality results must be presented in Excel 97-2003 .xls format.

Term of Licence

16. The term of this licence is for the period from the effective date to September 30, 2034.

PART C - OPERATING CONDITIONSDescription of Water Use and Waste Deposit

17. The Licensee is hereby authorized to:

- a) obtain water for municipal purposes at a total maximum rate of 4,545 cubic metres per day from wells 1, 2 and 3 located near the Pelly River; and
- b) collect, store and treat sewage at an existing wastewater treatment facility; and
- c) discharge treated effluent from the wastewater treatment facility to the Pelly River;
- d) maintain all associated water use and wastewater collection, storage and treatment systems,

as described in the Application, and subject to the conditions of this licence. Where there is a discrepancy between the Application and this licence, the conditions of this licence shall prevail.

18. The Licensee shall utilize the Water and Sewer Maintenance Upgrading Plan and the Maintenance and Tracking Plan, as submitted in the Application as exhibit 1.2. The Licensee shall submit an updated plan to the Board every fifth year, prior to or on the anniversary of the effective date of this licence.
19. During maintenance of the siphon, the Licensee shall utilize an eductor truck to transfer effluent to the sewage lagoons unless there are unforeseen events preventing the use of the eductor truck. Under these unforeseen circumstances, the Licensee may store sewage in a temporary containment pond, as described in Exhibit 1.2, section 9.3 of the Application and subject to the conditions of this licence.
20. All water supply, water distribution, sewage collection, sewage treatment and solid Waste disposal systems shall be maintained in good repair and in a manner which is consistent with generally accepted municipal practices for the types of systems being used.
21. No solid Waste disposal site shall be operated within 100 horizontal metres of the Natural Boundary of any Watercourse or within 1.5 vertical metres of the groundwater table and ensure that no Waste material enters any Watercourse as a result of any solid Waste management operation carried out by the Licensee.
22. The Licensee shall maintain fencing, at a minimum height of 1.8 metres, to surround all cells of the sewage lagoon.

PART D - EFFLUENT QUALITY DISCHARGE AND STANDARDS

- 23. a) Effluent shall only be discharged from the wastewater treatment facility and only through the existing outfall ditch from the facility to the Pelly River.
 - b) Notification shall be given to the Board by the Licensee not less than 10 days prior to the commencement of any discharge. The notice will include a confirmation that notice has also been provided to Ross River Dena Council.
 - c) Discharge from the wastewater treatment facility shall only occur during the months of September and October.
24. Any discharge from the wastewater treatment facility shall meet the following effluent quality standards at monitoring station FA-4, as described in this licence:

PARAMETER	MAXIMUM CONCENTRATION IN A GRAB SAMPLE
CBOD ₅	25 mg/L
Total Suspended Solids	25 mg/L
pH	6-9
Oil and Grease	5 mg/L
Fecal Coliforms	20,000
Total Phosphorus	5 mg/L
Acute Toxicity (LC ₅₀ static 96-hr, 100% concentration)	non-toxic

- 25. Any discharge to a Watercourse must meet a bioassay standard of a 96-hour at 100% LC₅₀ bioassay using rainbow trout, pH non-adjusted.

PART E – MONITORING AND SURVEILLANCE

- 26. The Licensee will establish a monitoring station, identified as FA-6, to be located 100 m downstream of the discharge channel. Monitoring station FA-6 shall only be monitored during a discharge event to the Pelly River.
- 27. The Licensee shall comply with the following monitoring and surveillance requirements, with all samples collected as grab samples:

a) Locations of Sampling Locations

Sampling Station	Description
FA-1	Raw water supply entering intake works
FA-3	Influent to sewage lagoon
FA-4	Effluent discharge from sewage lagoon
FA-5	Effluent transfer from cell #3 to cell #4
FA-6	Pelly River 100 m downstream of discharge channel

b) Monitoring Schedule

STATION ANALYSIS	FA-1	FA-3	FA-4	FA-5	FA-6
Fecal Coliforms	-	-	M, BW	A	M, BW
Dissolved Oxygen	-	-	M, BW	A	M, BW
Specific Conductance	-	-	M, BW	A	M, BW
Temperature	-	-	M, BW	A	M, BW
CBOD ₅	-	-	M, BW	A	M, BW
Suspended Solids	-	-	M, BW	A	M, BW
pH	-	-	M, BW	A	M, BW
Oil and Grease	-	-	M, BW	A	M, BW
Ammonia	-	-	M, BW	A	M, BW
Total Phosphorus	-	-	M, BW	A	M, BW
Acute Toxicity - (LC ₅₀ 96-hr bioassay-100%)	-	-	M, BW	-	-
Flow Rate	D	D	D ₁	-	-

Legend: D = Daily

D₁ = Daily when discharging

A = Once per year when flowing

M = If discharge occurs over the period of a month or less, one sample shall be taken during the last half of the discharge

BW = If discharge occurs over a period of more than one month, one sample shall be taken Bi-weekly (sampling events shall be at least 5 days apart)

PART F – DECOMMISSIONING

28. The Licensee shall submit a final decommissioning plan for any water and sewer related structures authorized by this licence to the Board in the form of an application to amend licence MN08-078. This application shall be submitted, a minimum of 6 months prior to the decommissioning of any water and sewer related structures.
- a) details of any residual activities required to be carried out prior to final decommissioning and removal of any structures on this site, associated timelines and supporting rationale; and
 - b) details pertaining to the final remediation of the site.

Details pertaining to the development of the plan shall be provided to the Board as part of the annual report.

29. Subject to any required assessments, authorizations or approvals, the Licensee shall implement the plan required by this licence.