



Telephone: 867-767-9187 ex.24193
Fax: 867-873-6230

August 15, 2023

Tlicho Community Government of Gameti
Box 1
Gameti, NT X0E 1R0

Attention: Sherbaz Muhammad, SAO

File Number **W2018L3-0001**
Type of Operation **CLASS B - MUNICIPAL**
Location **Gamètì, NT**

Dear Mr. Sherbaz Muhammad,

An inspection of the above noted operation was conducted on June 2, 2023 by Water Resource Officer Meaghan MacIntyre-Newell and Water Resource Officer Meg McCluskie. Enclosed is a copy of the municipal water use inspection report. Danny Rabesca of the Community Government of Gamètì accompanied the Inspectors to complete the inspection.

Some concerns were noted during the inspection. Please see the attached report for additional detail. If you have any questions, please contact me at 867-767-9187 ext. 24193.

Sincerely,

Meaghan MacIntyre-Newell
Water Resource Officer
Environment and Climate Change
North Slave Region

Cc: Scott Stewart – North Slave Regional Superintendent – ECC
Wendy Bidwell – Senior Water Resource Officer – ECC
Roberta Judas – Regulatory Technician – WLWB
Rick Walbourne - Water Resources Manager - ECC

Attached: Attachment 1: Surveillance Network Program Samples – Certificate of Analysis



MUNICIPAL WATER USE INSPECTION REPORT

| | | | |
|--------------|---------------------------------------|----------------------|-------------------|
| LICENCE #: | W2018L3-0001 | EXPIRY DATE: | December 21, 2028 |
| LICENCEE: | Tłjchq Community Government of Gamètì | PREVIOUS INSPECTION: | August 23, 2022 |
| COMPANY REP: | Sherbaz Muhammad | INSPECTION DATE: | June 02, 2023 |

WATER SUPPLY

| | | | |
|-----------------|--------------------------------|----------------|------------------------|
| Source: | Rae Lakes | Quantity Used: | Unknown |
| Owner/Operator: | Community Government of Gameti | Meter Reading: | 37342.4 m ³ |

Indicate: **A - Acceptable** **U - Unacceptable** **N/A - Not Applicable** **N/I - Not Inspected**

| | | | | | | | |
|-------------------|---|--------------------|-----|-------------------|---|---------------|-----|
| Intake Facilities | A | Storage Structures | N/I | Treatment Systems | A | Recycling | N/A |
| Flow Meas. Device | A | Conveyance Lines | A | Pumping Stations | A | Chem. Storage | A |
| | | | | | | Modifications | N/A |

Water Supply Comments:

The water supply facilities were inspected and no issues were noted. Sensors were all online, log books were up-to-date, and chemicals were stored appropriately.

WASTE DISPOSAL – SEWAGE

| | | | | | | | |
|------------------------|----|------------------------|---------------------|--------------------|----|-------------------|-----|
| Disposal Method | | Lagoon | | | | | |
| Mechanical | No | Camp Sump | No | Natural Water Body | No | Wetland Treatment | Yes |
| Continuous Discharge | No | Intermittent Discharge | No | Seasonal Discharge | No | Land Spread | No |
| Accelerated Biological | No | Other | Exfiltration Lagoon | | | | |

Indicate: **A - Acceptable** **U - Unacceptable** **N/A - Not Applicable** **N/I - Not Inspected**

| | | | | | |
|--------------------------|-------------------------|-----------------------------|-----|------------------------------|-----|
| Discharge Quality | A | Decant Process & Structures | N/A | Discharge Measurement Device | A |
| Freeboard | A | Sludge Disposal Method | A | | |
| Periods Of Discharge | Continuous Exfiltration | | | SNP Samples Collected | Yes |
| Effluent Discharge Rates | Unknown | | | | |



MUNICIPAL WATER USE INSPECTION REPORT

Sewage Comments:

The existing sewage lagoon appears to be working very well. Freeboard levels in the lagoon were acceptable, truck off-loading structures appeared to be well maintained, and infiltration berms appear to be operating effectively (Figure 1).

The Inspector collected a sample at SNP 003-3 and no exceedances were noted. Results from sample are attached to the Inspection Report.

WASTE DISPOSAL – SOLID WASTE

| | | | | | | | |
|------------------|--------------------------------|----------|----|-----------------|-----|-------------|----|
| Disposal Method | | Landfill | | | | | |
| Open Dump | No | Landfill | No | Burn & Landfill | Yes | Underground | No |
| Offsite Removal | No | Other | | | | | |
| Owner / Operator | Community Government of Gamètì | | | | | | |

Indicate: **A - Acceptable** **U - Unacceptable** **N/A - Not Applicable** **N/I - Not Inspected**

| | | | |
|------------------|-----|-----------------------|----|
| Runoff Diversion | N/A | SNP Samples Collected | No |
|------------------|-----|-----------------------|----|

Solid Waste Comments:

The landfill was inspected and found to be in acceptable condition. It appears that waste is being segregated appropriately prior to entering the landfill. The Inspector noted there was a significant amount of windblown waste and several sections of fence were either broken or missing (Figure 2 and Figure 3). The Inspector recommends repairing the broken fence and conducting a cleanup of the windblown waste. Historically, a clean-up of windblown waste was conducted annually, however, the representative that accompanied the Inspector was unaware of a clean-up in 2023.

SURVEILLANCE NETWORK PROGRAM

| | |
|----------------------------|-------------|
| Samples Collected Licencee | No |
| Samples Collected ENR | Yes (003-3) |

| | | | |
|-------------------|----------------------|---------|-----|
| Signs Posted: SNP | Improvement Required | Warning | Yes |
|-------------------|----------------------|---------|-----|



MUNICIPAL WATER USE INSPECTION REPORT

Surveillance Network Program Comments:

Signage was acceptable for SNP Station SNP 003-2 and SNP 003-3; however, other SNP Stations were unable to be located. As per Part B, Condition 9, the Licensee must maintain signs that identify the SNP Stations. This also aids in the location of SNP Stations when there is a change in the individual who conducts the SNP sampling on behalf of the community.

It is also noted that SNP sampling had not been conducted by the community during the 2023 open water season. This is a Licence requirement that must be completed to ensure water quality from the sewage lagoon is acceptable prior to entering Rae Lake.

GENERAL CONDITIONS/REPORTS/PLANS

Indicate: **A - Acceptable** **U - Unacceptable** **N/A - Not Applicable** **N/I - Not Inspected**

| | | | | | |
|-------------------------|-----|---------------------|-----|------------------|-----|
| C & R Plan | A | Records & Reporting | U | Final Report | N/A |
| Geotechnical Inspection | N/I | Posting, Signage | U | Contingency Plan | A |
| Restorations Activities | A | Spills | A | O&M Plan | A |
| Maintenance | U | Modifications | N/A | Annual Report | U |

General Condition Comments:

There are several outstanding reports, including the 2022 Annual Report and 2023 SNP Reports. Please contact Roberta Judas with any questions you have regarding the Annual Report.

NON-COMPLIANCE/VIOLATIONS OF ACT OR LICENCE

- Part B, Condition 2:** Prior to March 31 of the year following the calendar year reported, the Licensee shall file an Annual Report with the Board. The Annual Report shall contain the information set out in Schedule 1.

Explanatory Remarks: The 2022 Annual Report has not been submitted to the WLWB at the time of inspection.

- Part B, Condition 5:** The Licensee shall comply with the Surveillance Network Program, which is annexed to and forms part of this Licence, and any amendment to the Surveillance Network Program as may be made by the Board.

Explanatory Remarks: The Community Government of Gamètì has not submitted any SNP Sample results to the Inspector for the 2023 open-water season. SNP Sampling must be conducted in accordance with Annex 1 of the Licence.

- Part B, Condition 8:** Within sixty (60) days of the issuance of the Licence, the Licensee shall post the necessary signs, where possible, to identify the stations of the Surveillance Network Program. All signs shall be located and maintained to the satisfaction of an Inspector.

Explanatory Remarks: Although the Inspector was able to locate SNP 003-2 and SNP 003-3, they were unable to locate SNP 003-4. Signage must be installed and maintained to ensure the sampling locations can be identified.



MUNICIPAL WATER USE INSPECTION REPORT

- 4. Part D, Condition 11:** The Licensee shall maintain, to the satisfaction of an Inspector, fencing at the Solid Waste Disposal Facility that is capable of capturing windswept Waste, deterring wildlife, and preventing unauthorized persons from entering the site.

Explanatory Remarks: As noted in the above report, fencing around the Solid Waste Facility had sections that were damaged and/or missing. These must be repaired or replaced to capture windswept Waste, deter wildlife, and prevent unauthorized persons from entering the site.

| | | | | | |
|-------|---------------|------------|--------------|----------|---|
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MUNICIPAL WATER USE INSPECTION REPORT

INSPECTION IMAGES

Figure 1 – Discharge location and infiltration berm





MUNICIPAL WATER USE INSPECTION REPORT

Figure 2 - Fencing the requires repair





MUNICIPAL WATER USE INSPECTION REPORT

Figure 3 - Windblown waste and missing fencing





ATTACHMENT 1
SURVEILLANCE NETWORK PROGRAM SAMPLES – CERTIFICATE OF ANALYSIS

| | | | | | |
|-------|---------------|------------|--------------|----------|---|
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Taiga Environmental Laboratory
4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9
Tel: (867)-767-9235 Fax: (867)-920-8740

Taiga Batch No.:
230747

- FINAL REPORT -

Prepared For: ECC - North Slave Region (Operations)

Address: Box 2668
Yellowknife, NT
X1A 1Y4

Attn: Meaghan MacIntyre-Newell

Facsimile:

Final report has been reviewed and approved by:

A handwritten signature in black ink, appearing to read 'Glen Hudy', is written over a horizontal line.

Glen Hudy
Quality Assurance Officer

NOTES:

- Test methods and data are validated by the laboratory's Quality Assurance Program. Taiga Environmental Laboratory is accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) to ISO/IEC 17025 as a testing laboratory for specific tests registered with CALA.
- Routine methods are based on recognized procedures from sources such as
 - Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF;
 - Environment Canada
 - USEPA
- Samples shall be kept for thirty (30) days after the final report is issued. All microbiological samples shall be disposed of immediately upon completion of analysis to minimize biohazardous risks to laboratory personnel. Please contact the laboratory if you have any special requirements.
- Results are based on the specific tests at the time of analysis, does not represent the conditions during sampling and relates only to the items tested.

ReportDate: June 16, 2023

Print Date: *June 16, 2023*

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Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

Tel: (867)-767-9235 Fax: (867)-920-8740

Taiga Batch No.:
230747

- CERTIFICATE OF ANALYSIS -

Client Sample ID: **003-3**

Taiga Sample ID: **001**

Client Project: Gameti Inspection

Sample Type: Sewage Runoff

Received Date: 02-Jun-23

Sampling Date: 02-Jun-23

Sampling Time: 11:20

Location: Gameti - NT 003-3

Report Status: **Final**

| Test Parameter | Result | Detection Limit | Units | Analysis Date | Analytical Method * | Qualifer |
|--------------------------------------|---------|-----------------|-----------|---------------|---------------------|----------|
| <u>Inorganics - Nutrients</u> | | | | | | |
| Ammonia as Nitrogen | < 0.005 | 0.005 | mg/L | 08-Jun-23 | TEL068 | |
| Biochemical Oxygen Demand | < 2 | 2 | mg/L | 02-Jun-23 | TEL019 | |
| CBOD | < 2 | 2 | mg/L | 02-Jun-23 | TEL019 | |
| <u>Inorganics - Physicals</u> | | | | | | |
| pH | 8.14 | | pH units | 02-Jun-23 | TEL058 | |
| Solids, Total Suspended | < 3 | 3 | mg/L | 07-Jun-23 | TEL008 | |
| <u>Microbiology</u> | | | | | | |
| Coliforms, Fecal | < 1 | 1 | CFU/100mL | 02-Jun-23 | TEL017 | |
| <u>Organics</u> | | | | | | |
| Hexane Extractable Material | < 2.0 | 2 | mg/L | 06-Jun-23 | TEL072 | |
| <u>Trace Metals, Total</u> | | | | | | |
| Mercury | < 0.01 | 0.01 | µg/L | 16-Jun-23 | TEL035 | |

ReportDate: June 16, 2023

Print Date: **June 16, 2023**

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Tel: (867)-767-9235 Fax: (867)-920-8740

Taiga Batch No.:

230747

- CERTIFICATE OF ANALYSIS -

Client Sample ID: 003-3

Taiga Sample ID: 001

*** Taiga analytical methods are based on the following standard analytical methods**

SM - Standard Methods for the Examination of Water and Wastewater

EPA - United States Environmental Protection Agency

ReportDate: June 16, 2023

Print Date: *June 16, 2023*

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