

Municipal Water Licence Annual Report

Community Government of Wekweeti

Licence #: W2007L3-0001

Reporting year: 2019

Expires: September 27, 2027

The Licensee shall file an Annual Report with the Board not later than March 31st of the year following the calendar year reported which shall contain the following information:

1. Water Usage (Licensed Water Volume Withdrawal: 10,000 m³)

Total volume withdrawn for reporting year: 4,268 m³

Table 1: Monthly & Annual withdrawal volumes pumped (SNP 001-1)

Month	Volume from main source (m ³)	Volume from any other source (m ³)	TOTAL Volume (m ³)
January	311,126.20		311.1262
February	351,037.10		351.0371
March	339,361.00		339.3610
April	351,775.50		351.7755
May	423,956.70		423.9567
June	352,700.20		352.7002
July	398,500.90		398.5009
August	445,598.40		445.5984
September	293,663.00		293.6630
October	326,227.00		326.2270
November	347,379.50		347.3795
December	327,181.10		327.1811
TOTALS	4,268,506.60		4268.5066
% Increase/decrease from previous year	10%		10%

Reasons for increase/decrease: Not much happened in 2019 summer.

Projects that normally start in July

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Reasons for exceeding licenced withdrawal volumes (if applicable): N/A

General information (e.g. information regarding any modifications to the water withdrawal procedure or facilities should be included here. If necessary please attach any relevant reports to the end of this document): N/A

2. Solid Waste Disposal

Approximate total yearly volume of solid waste deposited: **4,269 m³**

Table 2: Monthly solid waste disposal volumes

Month	Volume of solid waste deposited (m ³)
January	67.50
February	67.50
March	67.50
April	67.50
May	67.50
June	67.50
July	67.50
August	67.50
September	67.50
October	67.50
November	67.50
December	67.50
TOTALS	810
% Increase/decrease from previous year	10%

GNWT – MACA has provided a standard formula for estimating the amount of solid waste deposited into a Solid Waste Facility in the absence of a metered Garbage Truck. The following can be used: Volume per person per day X number of days X population

e.g. 0.015 m³ X 30 days X 860 people = 387 m³ of domestic trash deposited into the Solid Waste Facility in a 30 day month

Reasons for increase/decrease (e.g. an industrial project close to Wekweeti or a large influx of people into town): **Same as**

General information (e.g. information regarding any agreements with outside organizations to be a waste receiving facility should be outlined here along with an estimate of the amount and type of waste to be received): **N/A**

3. Sewage Deposited to Primary Sewage Cells

Table 3: Monthly sewage waste volumes deposited

Month	Volume of sewage waste deposited (m ³)		
	Pumper Truck		TOTAL
January	311,126.20		311.1262
February	351,037.10		351.0371
March	339,361.00		339.3610
April	351,775.50		351.7755
May	423,956.70		423.9567
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December	327,181.10		327.1811
TOTALS	4,268,506.60		4268.5066
Is this an estimated volume?			
Is this an estimated volume?			
% Increase/decrease from previous year	10%		10%

To calculate monthly sewage waste deposited to the Primary Lagoon, please provide the above information if metered information is available. If metered information is not available, please fill in the table using the corresponding TOTAL water volumes from Table 1. This provides estimation only and equals water in/sewage out.

Reasons for increase/decrease (e.g. an industrial project close to Wekweeti or a large influx of people into town): **This is a normal decrease, goes with the water consumption volume changes**

Has any sludge been removed from the primary sewage cells or from Snare Lake during this reporting year? If so, what volume of sludge was removed? What testing was completed on the sludge and where it was disposed of? Please provide documentation for testing and GNWT Water Licence Inspector approval of placement. **No sludge was removed, and no testing has been completed**

Was there any decanting at Snare Lake this reporting year? Please provide dates. What was the decant duration and the approximate volume decanted? As this is a Surveillance Network Program (SNP) site, the resulting testing is to be presented as part of the tabular SNP data to be provided as per the Water Licence [Part B(1)(d)]. **No decanting of Snare Lake occurred during the reporting year of 2019**

4. Problems, modifications or repairs completed during the year on water supply and waste disposal facilities

Include any work done to infrastructure for all facilities completed during the year in this section. This includes any changes, repairs and modifications. If any problems occurred during the year, please note them here. If there are no changes, make note of that. If required please attach any as-built drawings or reports as an appendices to this report. **There were changes in 2019. Wekweeti water plant is expecting to upgrade is set to begin in July 2020 to be completed by August 2020.**

5. Surveillance Network Program Data

Surveillance Network Program (SNP) information is to be submitted in a tabular format and shall indicate date of testing, parameters tested for and any other information requested by the GNWT Water Licence Inspector or the WLWB. [Laboratory results should be summarized. A results table has been provided below for your convenience. Note: it is possible to copy/paste from Excel into Word provided the same number of cells are selected in each table].

Only the information presented in the SNP report below was received for 2019

Surveillance Network Program Lab Results Summary

	Sewage Effluent					Snare Lake					Runoff from Waste Disposal Facility								
	SNP 001-2					SNP 001-3					SNP 001-4								
	June	July	Aug	Sept	Oct	June	July	Aug	Sept	Oct	June	July	Aug	Sept	Oct				
pH		7.23	6.99	7.40			7.51	7.54	7.09			7.84	7.43	7.51					
Suspended Solids		10	< 3	97			219	< 3	< 3			< 3	347	< 3					
Ammonia-Nitrogen		<0.0050	<0.005	18.8			24.20	0	<0.005		Not required for SNP 001-4								
BOD		2	< 2	53			230	0	< 2										
Total Phosphate																			
Faecal Coliforms		< 1	22	11300			160000	0	< 1										
Oil and Grease																			
Mercury		< 0.01	< 0.01	< 0.01			< 0.01	< 0.01	< 0.01		< 0.01	< 0.01	< 0.01						
Arsenic	Not required for SNP 001-2 and 001-3											0.5		0.3					
Aluminum																12.2		4.8	
Barium																14.4		15.8	
Boron																0		0	
Cadmium																< 0.1		< 0.04	
Chromium																0.1		0.1	
Copper																0.9		0.7	
Iron																63		174	
Lead																< 0.1		< 0.1	
Manganese																9.0		24.6	
Molybdenum																0.2		0.2	
Nickel																0.5		0.6	
Selenium																< 0.5		0.4	
Strontium																55.5		69.4	
Uranium																0.3		0.3	
Zinc											<5.0		< 0.4						

6. SNP Sample Locations

Please attach a map showing SNP locations.

7. Unauthorized discharges

List any unauthorized discharges here including any spills, how and when they were reported, and how they were cleaned up. Please attach copies of spill reports, correspondence with the GNWT Water Licence Inspector or any other pertinent documentation as an appendices to this report.

8. Spill Training and Communications Exercises

List any spill training and communications exercises that have been carried out including courses on spills prevention, waste management, SNP sampling, etc. **community government employees were trained on sampling procedures and practical illustrations on how to collect samples at the SNP sample location**

9. Closure and Reclamation

Include any closure and reclamation details here including any work anticipated to be completed during the next year. If required please attach any as-built drawings or reports as an appendices to this report. **N/A**

10. Studies requested by the Board

If the Board has requested that specific studies be completed, include details of the plan in this section with a summary of the outcome. Include any attachments with the submission of the Annual Report. **The community government close an old dumpsite and opened a new dumpsite within the same fenced location for solid waste dumpsite. See the attach map**

11. Updates or revisions to approved plans

Details on any changes to approved plans such as the O&M Plan, the Closure and Reclamation Plan, the Spill Contingency Plan, or any other that is specific to this Municipal Water Licence. Please attach documents as appendices to this report. **None Identified**

12. Other Information

- Include any other information here that may be valuable to the WLWB or to GNWT. **N/A**
- Include details on upcoming studies that will be completed. **None at the moment**
- Please include any non-compliance items identified in the GNWT Water Licence Inspection report and detail how the Community Government of Wekweeti is addressing them. **None Identified**
- If there is any contaminated soil piles currently in use (land farming), please list the details of containment, remediation and progress in this section. **Non for 2019**
- Please identify any on-going compliance issues for the Community Government of Wekweeti. This can facilitate discussions to resolve the issues. **Thank you Roberta Judas for the assistance you provided in figuring out the sources of information required to complete this report. Later submissions will not be completing this one for 2019 as indicated previous, report, I have submitted this report after the last report for the final SNP samples we submitted for 2019 and after water reading**