

Municipal Water Licence Annual Report

Community Government of Behchokq

Licence #: W2014L3-0002

Reporting year: _____

Expires: November 25, 2029

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: 300,000 m³

Total volume withdrawn for reporting year: _____ m³

Table 1(a): Monthly & annual quantities obtained from the raw water intake at the Edzo Water Supply Facility (SNP 2014-E1)

Month	Volume from main source (m³)	Volume from any other source (m³)	TOTAL Volume (m³)
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			
TOTALS			
% Increase/decrease from previous year			

Table 1(b): Monthly & annual quantities obtained from the raw water intake at the Rae Water Supply Facility (SNP 2014-R1)

Month	Volume from main source (m³)	Volume from any other source (m³)	TOTAL Volume (m³)
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			
TOTALS			
% Increase/decrease from previous year			

Reasons for increase/decrease:

Reasons for exceeding licensed withdrawal volumes (if applicable):

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):

2. Solid Waste Disposal

Approximate total yearly volume of solid waste deposited: _____ m³

Table 2: Monthly and annual quantities of solid waste deposited

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

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 Solid Waste Facility in a 30 day month

Reasons for increase/decrease (e.g. an industrial project close to the Behchoko municipality, or a large influx of people into town):

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):

3. Sewage Deposited to Primary Sewage Cells

Table 3(a): Monthly and annual quantities deposited at Edzo Sewage Disposal Facility

Month	Volume of sewage waste deposited (m ³)		
	Pumper Truck	Utilidor	TOTAL
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			
TOTALS			
Is this an estimated volume?		YES	NO
% Increase/decrease from previous year			

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 Behchoko or a large influx of people into town):

Has any sludge been removed 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.

Was there any decanting 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 [Schedule 1d].

Table 3(b): Monthly and annual quantities deposited at Rae Sewage Disposal Facility

Month	Volume of sewage waste deposited (m ³)		
	Pumper Truck	Utilidor	TOTAL
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			
TOTALS			
Is this an estimated volume?		YES	NO
% Increase/decrease from previous year			

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 Behchoko or a large influx of people into town):

Has any sludge been removed 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.

Was there any decanting 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 [Schedule 1d].

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.

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].

Table 5(a): SNP Lab Results Summary – Edzo Sewage Disposal Facility

	Edzo Sewage Disposal Facility														
	2014-E2					2014-E3					2014-E4				
	June	July	Aug	Sept	Oct	June	July	Aug	Sept	Oct	June	July	Aug	Sept	Oct
Date Sampled															
pH															
Suspended Solids															
Ammonia-Nitrogen															
BOD															
CBOD															
Total Phosphate															
Faecal Coliforms															

Table 5(b): SNP Lab Results Summary – Edzo Sewage Disposal Facility

	2014-E2	2014-E3	2014-E4
	1x between June and Oct	1x between June and Oct	1x between June and Oct
	Date Sampled:	Date Sampled:	Date Sampled:
Conductivity			
Total Phenols			
Oil and Grease			
Cadmium			
Calcium			
Chromium			
Copper			
Iron			
Lead			
Magnesium			
Mercury			
Nickel			
Potassium			
Sodium			
Sulphate			
Zinc			

Table 5(c): SNP Lab Results Summary – Rae Sewage Disposal Facility

Date Decant starts: _____

(use one sheet for each decant that occurs during the year)

Parameters	Two weeks prior to decant			One week prior to decant		Sampling during decant	1 week following end of decant flow	
	2014-R2 ¹	2014-R3	2014-R4	2014-R3	2014-R4		2014-R3	2014-R4
pH								
Suspended Solids								
Ammonia-Nitrogen								
BOD								
CBOD								
Total Phosphate								
Faecal Coliforms								



Sampling during decant²

Parameters	1 st day of decant		4 th day of decant		7 th day of decant		Continue as long as necessary	
	2014-R3	2014-R4	2014-R3	2014-R4	2014-R3	2014-R4	2014-R3	2014-R4
pH								
Suspended Solids								
Ammonia-Nitrogen								
BOD								
CBOD								
Total Phosphate								
Faecal Coliforms								

¹ Must be at least ten days before decant

² Starting on first day of decant and continuing every three days as long as necessary (until the flow stops)

Table 5(d): SNP Lab Results Summary – Rae Sewage Disposal Facility

	2014-R3	2014-R4
	1x between June and Oct	1x between June and Oct
	Date Sampled:	Date Sampled:
Conductivity		
Total Phenols		
Oil and Grease		
Cadmium		
Calcium		
Chromium		
Copper		
Iron		
Lead		
Magnesium		
Mercury		
Nickel		
Potassium		
Sodium		
Sulphate		
Zinc		

Table 5(e): SNP Lab Results Summary – Solid Waste Disposal Facilities

	Old Waste Disposal Facility		New Solid Waste Disposal Facility			
	2014-R5		2014-R6		2014-R7	
	(2x per year between June & Sept)		(2x per year between June & Sept)		(2x per year between June & Sept)	
Date Sampled	#1:	#2:	#1:	#2:	#1:	#2:
pH						
Suspended Solids						
Conductivity						
Oil and Grease						
BTEX						
TPH						
Total Phenols						
Total Phosphate						
Faecal Coliforms						
Cadmium						
Calcium						
Chromium						
Copper						
Iron						
Lead						
Magnesium						
Mercury						
Nickel						
Potassium						
Sodium						
Sulphate						
Zinc						

Table 5(e): SNP Lab Results Summary – Solid Waste Disposal Facilities (cont'd)

	New Solid Waste Disposal Facility					
	2014-R8		2014-R9		2014-R10	
	(2x per year between June & Sept)		(2x per year between June & Sept)		(2x per year between June & Sept)	
Date Sampled	#1:	#2:	#1:	#2:	#1:	#2:
pH						
Suspended Solids						
Conductivity						
Oil and Grease						
BTEX						
TPH						
Total Phenols						
Total Phosphate						
Faecal Coliforms						
Cadmium						
Calcium						
Chromium						
Copper						
Iron						
Lead						
Magnesium						
Mercury						
Nickel						
Potassium						
Sodium						
Sulphate						
Zinc						

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.

9. Closure and Reclamation

Include any closure and restoration 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.

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.

11. Updates or revisions to approved plans

Details on any changes to approved plans such as the Operation and Maintenance Plans, the Closure and Reclamation Plan, Spill Contingency Plan, or any other that is specific to this Municipal Water Licence. Please attach documents as appendices to this report.

12. Other Information

- Include any other information here that may be valuable to the WLWB or to GNWT.
- Include details on upcoming studies that will be completed.
- Please include any non-compliance items identified in the GNWT Water Licence Inspection report and detail how the Community Government of Behchoko is addressing them.
- If there is any contaminated soil piles currently in use (land farming), please list the details of containment, remediation, and progress in this section.
- Please identify any on-going compliance issues for the Community Government of Behchoko. This can facilitate discussions to resolve the issues.
- Please include a summary of sludge management activities, if any.