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Date: March 28<sup>th</sup> 2013

RE: Water License 3BM-BAK 1015 Hamlet of Baker Lake Annual Report 2013

Good afternoon Phyllis,

Please find attached the annual report for the above mentioned license, you will also find attachments with respect to the sample results as well as any other related information pertaining to the license requirements.

Please contact me should you have any questions, comments, or concerns.

Thanks

Jason Tologanak  
Regional Director, Kivalliq Region  
Community & Government Services  
Rankin Inlet, Nunavut  
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**ANNUAL REPORT  
FOR THE HAMLET OF BAKER LAKE, 2012**

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**YEAR BEING REPORTED: 2012**

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water License # 3BM-BAK 1015 issued to the Hamlet of Baker Lake.

- i) - iii) tabular summaries of all data generated under the "Monitoring Program"; monthly and annual quantities in cubic metres of freshwater obtained from all sources; monthly and annual quantities in cubic metres of each and all wastes discharged;

Attached are quantities of water used as reported in our On Tap Water Delivery System and the estimated discharge of sewage waste based on quantities used.

<b>Month Reported</b>	<b>Quantity of Water Obtained from all sources (litres)</b>	<b>Quantity of Sewage Waste Discharged (Estimated, Litres )</b>
<b>January 2012</b>	5,443,684.60	Same
<b>February 2012</b>	5,200,349.48	Same
<b>March 2012</b>	5,666,273.40	Same
<b>April 2012</b>	5,295,170.70	Same
<b>May 2012</b>	5,788,210.50	Same
<b>June 2012</b>	5,838,511.60	Same
<b>July 2012</b>	5,616,699.00	Same
<b>August 2012</b>	5,842,420.00	Same
<b>September 2012</b>	5,314,520.60	Same
<b>October 2012</b>	5,917,818.65	Same
<b>November 2012</b>	5,490,185.00	Same
<b>December 2012</b>	5,346,629.80	Same
<b>ANNUAL TOTAL</b>	66,760,473.33	66,760,473.33

Note: There is no meter existing at the end of the Truck discharge pipe. Therefore the monthly discharge is considered as equal to the monthly water consumption.

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- iv. a summary of modifications and/or major maintenance work carried out on the Water Supply and Waste Disposal Facilities, including all associated structures and facilities;

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Water Pump House is being optimized. Building, intake lines, piping work, utilidors, and backwash tank has been installed. Intake lines have been commissioned with one truck fill arm. Fresh water tank with a capacity of 360,000 litres has been built and will be installed in the spring of 2013.

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- v. a list of unauthorized discharges and summary of follow-up action taken;

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Not recorded for unauthorized sewage discharge.

Spills:

Tank Farm, dated 4/26/2012 and # 2012147, 60L

House 1046, P-50, dated 6/14/2012 and # 2012248, 900L

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- vi. a summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year;

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No abandonment and restoration work was done in 2012 and on outline is established for 2013.

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- vii. a summary of any studies requested by the Board that relate to waste disposal, water use or reclamation, and a brief description of any future studies planned;

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An engineering consulting firm ARTIS Solutions Inc. conducted a feasibility study on waste management for all the Communities of Nunavut and recommended new guidelines. GN-CGS is planning to implement these new standards and criteria in all the future GN projects including Baker Lake. The new facility will satisfy the requirements of NWB.

Another Engineering firm named William Engineering Ltd is conducting Bathymetric surveys on the existing water source and the proposed secondary water source. This study will be completed in 2014.

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- viii. any other details on water use or waste disposal requested by the Board by November 1st of the year being reported; and

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Nothing specific.

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## ANNUAL REPORT FOR THE HAMLET OF BAKER LAKE , 2012

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ix. updates or revisions to the approved Operation and Maintenance Plans.

- The O&M manual for WTP will be upgraded once the facility rehabilitation is completed in 2013.
- The waste water treatment facility will be operated following the existing O&M manual.
- The O&M manual for Waste management facility will be available once the new facility is built according to the new standard and criteria.

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### ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

Hamlet is starting extended sampling and testing program following the conditions applying to the monitoring program Part H of the Water License. Hamlet is using the facility of the accredited lab, ALS, in Winnipeg.

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### FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

The Hamlet is working closely with CGS to satisfy the requirements of their Water License and the demand of AANDC inspector.

- The Lab Test Results for 2012



L1065362\_COA.PDF





Hamlet of Baker Lake  
ATTN: Mark Kingilik  
PO Box 149  
Baker Lake NU X0C 0A0

Date Received: 27-SEP-11  
Report Date: 13-MAR-13 15:01 (MT)  
Version: DRAFT

Client Phone: 867-793-2874

## Certificate of Analysis

Lab Work Order #: **L1065362**  
Project P.O. #: NOT SUBMITTED  
Job Reference: BAKER LAKE MONITORING PROGRAM  
C of C Numbers:  
Legal Site Desc:

Paul Nicolas  
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 1329 Niakwa Road East, Unit 12, Winnipeg, MB R2J 3T4 Canada | Phone: +1 204 255 9720 | Fax: +1 204 255 9721  
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

## ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
DRAFT							

\* Refer to Referenced Information for Qualifiers (if any) and Methodology.

## Reference Information

## Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
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\*\* ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
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## Chain of Custody Numbers:

## GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg ww - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.





Environmental Division

[illegible]

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

**By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.**

SHIPMENT RELEASE (client use)		SHIPMENT RECEPTION (lab use only)		SHIPMENT VERIFICATION (lab use only)	
Released by:	Date:	Time:	Received by:	Date:	Time:
Casey Tulurink	22-sept-11	11:30 AM		27-sept-11	16:50
				Temperature:	18.60C
				Verified by:	
				Date:	
				Time:	
				Observations:	
				Yes / No ?	
				If Yes add SIF	

REFER TO BACK PAGE FOR AIS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY

**YELLOW - CLIENT COPY**

GENF 18.01 Front