



Municipality of Sanikiluaq  
ATTN: Moses Novalinga  
PO Box 157  
Sanikiluaq NU X0A 0W0

Date Received: 09-OCT-13  
Report Date: 10-OCT-13 14:40 (MT)  
Version: FINAL

Client Phone: 867-266-7900

## Certificate of Analysis

**Lab Work Order #:** L1375483  
**Project P.O. #:** NOT SUBMITTED  
**Job Reference:** SANIKILUAQ WTP - DRINKING WATER  
**C of C Numbers:**  
**Legal Site Desc:**

Craig Riddell  
Account Manager

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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
L1375483-1 TRUCK NOZZLE Sampled By: Moses on 08-OCT-13 @ 13:30 Matrix: HO-42  <b>Total Coliform and E.coli</b> Total Coliforms Escherichia Coli	   6 0		   0 0	   MPN/100mL MPN/100mL		   09-OCT-13 09-OCT-13	   R2713782 R2713782
L1375483-2 PAATALIK SCHOOL Sampled By: Moses on 08-OCT-13 @ 13:20 Matrix: Janitors RM  <b>Total Coliform and E.coli</b> Total Coliforms Escherichia Coli	   0 0		   0 0	   MPN/100mL MPN/100mL		   09-OCT-13 09-OCT-13	   R2713782 R2713782
L1375483-3 NULYAK SCHOOL Sampled By: Moses on 08-OCT-13 @ 13:14 Matrix: Staff Room  <b>Total Coliform and E.coli</b> Total Coliforms Escherichia Coli	   89 0		   0 0	   MPN/100mL MPN/100mL		   09-OCT-13 09-OCT-13	   R2713782 R2713782
L1375483-4 HEALTH CENTRE Sampled By: Moses on 08-OCT-13 @ 13:07 Matrix: Purple Rm  <b>Total Coliform and E.coli</b> Total Coliforms Escherichia Coli	   0 0		   0 0	   MPN/100mL MPN/100mL		   09-OCT-13 09-OCT-13	   R2713782 R2713782
L1375483-5 HAMLET OFFICE Sampled By: Moses on 08-OCT-13 @ 11:55 Matrix: Hallway  <b>Total Coliform and E.coli</b> Total Coliforms Escherichia Coli	   0 0		   0 0	   MPN/100mL MPN/100mL		   09-OCT-13 09-OCT-13	   R2713782 R2713782

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

## Reference Information

### Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
TC,EC-QT51-WP	Water	Total Coliform and E.coli	APHA 9223
The analysis of Total Coliform (TC) & Escherichia coli (EC) is processed by Quanti-tray (QT): Two substrates, ONPG for TC detection and MUG for EC detection are used. The substrates are added to the 100 ml sample dispensed into the 51 well tray. The tray is incubated at 35 Celcius for 24 hours. A colour reaction develops to indicate a positive reaction (presence of TC, EC). The number of positive wells are counted and converted to Most Probable Number Units (MPNU) per 100 ml. This test is also called 'rapid MPN method', therefore, the MPN results are derived from a statistical table with a 95% confidence and report as MPN units. The QT detection limit for a negative result is reported as zero.			
TC,EC-QT51-WP	Water	Total Coliform and E.coli	APHA 9223 QT
The analysis of Total Coliform (TC) & Escherichia coli (EC) is processed by Quanti-tray (QT): Two substrates, ONPG for TC detection and MUG for EC detection are used. The substrates are added to the 100 ml sample dispensed into the 51 well tray. The tray is incubated at 35 Celcius for 24 hours. A colour reaction develops to indicate a positive reaction (presence of TC, EC). The number of positive wells are counted and converted to Most Probable Number Units (MPNU) per 100 ml. This test is also called 'rapid MPN method', therefore, the MPN results are derived from a statistical table with a 95% confidence and report as MPN units. The QT detection limit for a negative result is reported as zero.			

\*\* 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
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

### 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 wwt - 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.*



Form

COC #

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L1375483-COFC

## Report To

Company:	Municipality of SANIKILUAQ (W10375)		
Contact:	MOSES NOVALINGA		
Address:	Box 157		
	Sanikiluaq, NU, X0A 0W0		
Phone:	867-266-7900	Fax:	867-266-7924
Invoice To	Same as Report ?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Hardcopy of Invoice with Report?		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Company:	(W10375)		
Contact:			
Address:			
Phone:		Fax:	

<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> PDF	<input type="checkbox"/> Excel
<input type="checkbox"/> Digital	<input checked="" type="checkbox"/> Fax
Email 1: <a href="mailto:sanisa@qiniq.com">sanisa@qiniq.com</a>	
Email 2: <a href="mailto:sanirec@qiniq.com">sanirec@qiniq.com</a>	
Email 3: <a href="mailto:cvanlankveld1@gov.nu.ca">cvanlankveld1@gov.nu.ca</a>	
<b>Client / Project Information</b>	
Job #: SANIKILUAQ WTP - DRINKING WATER	
PO / AFE:	
LSD:	
Quote #:	

Service Requested (Push for routine analysis subject to availability)

☒ Regular (Standard Turnaround Times - Business Days)  
☐ Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT  
☐ Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT  
☐ Same Day or Weekend Emergency - Contact ALS to Confirm TAT

## Analysis Request

Please indicate below Filtered, Preserved or both (F, P, F/P)

Lab Work Order # \_\_\_\_\_  
(lab use only)

ALS Contact:	Sampler: <i>MOSES</i>
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[illegible]

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details

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 provided on a separate Excel tab.

Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

SHIPMENT RELEASE (client use)			SHIPMENT RECEPTION (lab use only)				SHIPMENT VERIFICATION (lab use only)			
Released by:	Date (dd-mmm-yy)	Time (hh-mm)	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations: Yes / No ? If Yes add S/N
			GH	Oct 9/13	12:10	9 °C				