

Municipality of Sanikiluaq ATTN: KENNY PEARCE

PO Box 157

Sanikiluag NU X0A 0W0

Date Received: 05-NOV-13

Report Date: 06-NOV-13 15:39 (MT)

Version: FINAL

Client Phone: 867-266-7900

# **Certificate of Analysis**

Lab Work Order #: L1387688

Project P.O. #: NOT SUBMITTED

Job Reference: SANIKILUAQ WTP - DRINKING WATER

C of C Numbers: Legal Site Desc:

<u>Paul Necolas</u> Paul Nicolas

Account Manager

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

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Environmental 🦣

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# ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier* D.L.		Units	Extracted	Analyzed	Batch
L1387688-1 HEALTH CENTRE - DENTAL RM							
Sampled By: CLIENT on 04-NOV-13 @ 11:25							
Matrix: Water							
Total Coliform and E.coli							
Total Coliforms	1		0	MPN/100mL		05-NOV-13	R2735231
Escherichia Coli	0		0	MPN/100mL		05-NOV-13	R2735231
L1387688-2 NUIYAK SCHOOL - STAFF RM							
Sampled By: CLIENT on 04-NOV-13 @ 11:25							
Matrix: Water							
Total Coliform and E.coli							
Total Coliforms	0		0	MPN/100mL		05-NOV-13	R2735231
Escherichia Coli	0		0	MPN/100mL		05-NOV-13	R2735231
L1387688-3 PATTSALIK - JANITORS RM							
Sampled By: CLIENT on 04-NOV-13 @ 11:25							
Matrix: Water							
Total Coliform and E.coli							
Total Coliforms	0		0	MPN/100mL		05-NOV-13	R2735231
Escherichia Coli	0		0	MPN/100mL		05-NOV-13	R2735231
L1387688-4 HAMLET OFFICE - MENS RM							
Sampled By: CLIENT on 04-NOV-13 @ 11:25							
Matrix: Water							
Total Coliform and E.coli							
Total Coliforms	0		0	MPN/100mL		05-NOV-13	R2735231
Escherichia Coli	0		0	MPN/100mL		05-NOV-13	R2735231
L1387688-5 HO - WATER TRUCK - HO-46							
Sampled By: CLIENT on 04-NOV-13 @ 11:25							
Matrix: Water							
Total Coliform and E.coli							
Total Coliforms	0		0	MPN/100mL		05-NOV-13	R2735231
Escherichia Coli	0		0	MPN/100mL		05-NOV-13	R2735231

<sup>\*</sup> Refer to Referenced Information for Qualifiers (if any) and Methodology.

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## **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:

<b>Laboratory Definition Code</b>	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.





L1387688 coc#.

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Report To	Report To			Re	1 =				Service Requested (Rush for routine analysis subject to avanuomity)													
Company:	Municipality of SANIKILUAQ (W10375)				<u></u>					Regular (Standard Turnaround Times - Business Days)												
Contact:	MOSES NOVALIN	OA Kenny	Peacce	✓ PDF	☑ PDF Excel Digital ☑ Fax						O Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT											
Address:	Box 157	7		Email 1:	Email 1: sanisao@ginig.com					Emergency (1-2 Bus. Days) - 100% Surcharge - Contact At.S to Confirm TAT												
	Sanikiluaq, NU, X0A 0W0				Email 2: sanirec@qiniq.com					Same Day or Weekend Emergency - Contact ALS to Confirm TAT												
Phone:	867-266-7900	Fax:	867-266-7924	Email 3:	Email 3: cvanlankveld1@gov.nu.ca					Analysis Request Please indicate below Filtered, Preserved or both (F, P, F/P)												
Invoice To	e To Same as Report? Yes No				Client / Project Information					icate	belo	w Filte	ered,	Prese	rved o	both	(F, P,	F/P)	-			
Hardcopy of Invoice with Report? ☐ Yes ☐ №			Job#:	Job #: SANIKILUAQ WTP - DRINKING WATER								$\neg$		$\top$								
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