

Municipality of Sanikiluaq ATTN: MOSES NOVALINGA

PO Box 157

Sanikiluag NU X0A 0W0

Date Received: 12-FEB-13

Report Date: 13-FEB-13 15:18 (MT)

Version: FINAL

Client Phone: 867-266-7900

Certificate of Analysis

Lab Work Order #: L1267735

Project P.O. #: NOT SUBMITTED

Job Reference: SANKIKLUAQ WTP - DRINKING WATER

C of C Numbers: Legal Site Desc:

CRAIC 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



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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1267735-1	TRUCK NOZZLE HO-46							
Sampled By:	Moses on 11-FEB-13 @ 11:25							
Matrix:	water							
Total Coliform and E.coli								
Total Coliforms		0		0	MPN/100mL		13-FEB-13	R2529648
Escherichia Coli		0		0	MPN/100mL		13-FEB-13	R2529648
L1267735-2	PAATSAALIK SCHOOL JANITORS ROO	М						
Sampled By:	Moses on 11-FEB-13 @ 11:15							
Matrix:	water							
Total Coliform and E.coli								
Total Colifor		0		0	MPN/100mL		13-FEB-13	R2529648
Escherichia		0		0	MPN/100mL		13-FEB-13	R2529648
L1267735-3	NUIYAK SCHOOL STAFF ROOM							
Sampled By:	Moses on 11-FEB-13 @ 11:02							
Matrix:	water							
	rm and E.coli				MENUAGO		40 550 40	
Total Colifor Escherichia		0		0 0	MPN/100mL MPN/100mL		13-FEB-13 13-FEB-13	R2529648 R2529648
L1267735-4	HEWALTH CENTRE EMERG ROOM	0			IVIF IN/ TOOTILE		13-1 LD-13	K2029040
Sampled By:	Moses on 11-FEB-13 @ 10:50							
Matrix:	water							
-								
Total Colifor	orm and E.coli	0		0	MPN/100mL		13-FEB-13	R2529648
Escherichia		0		0	MPN/100mL		13-FEB-13	R2529648
L1267735-5	HAMLET OFFICE HALLWAY							
Sampled By:	Moses on 11-FEB-13 @ 11:40							
Matrix:	water							
Total Colifo	orm and E.coli							
Total Coliforms		0		0	MPN/100mL		13-FEB-13	R2529648
Escherichia	Coli	0		0	MPN/100mL		13-FEB-13	R2529648
		<u> </u>						

^{*} Refer to Referenced Information for Qualifiers (if any) and Methodology.

L1267735 CONTD....

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Reference Information

Test Method References:

ALS Test Code Matrix Method Reference** **Test Description APHA 9223** TC.EC-QT51-WP Water Total Coliform and E.coli

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.





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Report To		L1267735-COFC			ervice Requested (Rush for routine analysis subject to availability)										
Company: Municipality of SANIKILUAQ (W10375)						Regular (Standard Turnaround Times - Business Days)									
Contact: MOSES NOVALINGA	✓ PDF	☐ Excel ☐ Digital ☑ Fax			O Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT										
Address: Box 157	Email 1:	sanisao@giniq.com				O Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT									
Sanikiluaq, NU, X0A 0W0	Email 2:	il 2: sanirec@giniq.com				O Same Day or Weekend Emergency - Contact ALS to Confirm TAT									
Phone: 867-266-7900 Fax: 867-266-7924	Email 3:	3: cvanlankveld1@gov.nu.ca				Analysis Request									
Invoice To Same as Report ? .  Yes No	Client / Pr	t / Project Information				Please indicate below Filtered, Preserved or both (F, P, F/P)									
Hardcopy of Invoice with Report? Yes No	Job#:	#: SANIKILUAQ WTP - DRINKING WATER													
Company: (W10375)	PO / AFE:	PO / AFE:				(chem)							•		
Contact:	LSD:	D:				CH(C		ļ							
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Phone: Fax:	Quote #:				₽.		<u></u>						ntaii		
Lab Work Order #  (lab use only)	ALS Contact:	t: Sampler: Moses			EC-QT51-WF	ROU4W+MET-T-WP	COLOUR-TRUE-WP						Number of Containers		
Sample Sample Identification  * # (This description will appear on the report)	•	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	TC,EC	ROU4	COLOI						Numbe		
1) TRUCK NOZZLE		11-02-13	11:25 AM	HO-46											
2) PARTSA ALIK SCHOOL		11-02-13		JANIBRS RM											
VV			11-02-AM			_	-								
NOTSTIK SOTTOE			l .			$\Box$									
TIETH DENTIL				EMERL. RM	<del>   -</del>	-	<del></del>	-	+		+	<del>  </del>			
5) HAMLET OFFICE		11-02-13	11:40 AM	HALLWAY	$\vdash$			_				-			
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Special Instructions / Regulations with water or land	l use (CCM	E-Freshwater A	quatic Life/BC	CSR - Commerc	ial/AB T	ier 1 - N	atural,	etc)/ł	lazard	ous De	tails		<del></del>		
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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: _		d_by:		ate:_		Time:		Obsel Yes /	rvations		
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			<del></del>												