Municipality of Sanikiluaq
ATTN: MOSES NOVALINGA
PO Box 157
Sanikiluaq NU X0A 0W0

Date Received: 11-JAN-13
Report Date: 14-JAN-13 08:03 (MT)
Version: FINAL

Client Phone: 867-266-7900

Certificate of Analysis

Lab Work Order #: L1257223

Project P.O. #: NOT SUBMITTED
Job Reference: SANIKILUAQ WTP
C of C Numbers:
Legal Site Desc:

Paul Nicolas
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1257223-1 1 - TRUCK NOZZLE							
Sampled By: MOSES on 11-JAN-13 @ 09:30							
Matrix: WATER							
Total Coliform and E.coli							
Total Coliforms	0		0	MPN/100mL		12-JAN-13	R2508487
Escherichia Coli	0		0	MPN/100mL		12-JAN-13	R2508487
L1257223-2 2 - PAATSALIK SCHOOL							
Sampled By: MOSES on 11-JAN-13 @ 09:20							
Matrix: WATER							
Total Coliform and E.coli							
Total Coliforms	0		0	MPN/100mL		12-JAN-13	R2508487
Escherichia Coli	0		0	MPN/100mL		12-JAN-13	R2508487
L1257223-3 3 - NUIJAK SCHOOL							
Sampled By: MOSES on 11-JAN-13 @ 09:10							
Matrix: WATER							
Total Coliform and E.coli							
Total Coliforms	0		0	MPN/100mL		12-JAN-13	R2508487
Escherichia Coli	0		0	MPN/100mL		12-JAN-13	R2508487
L1257223-4 4 - HEALTH CENTER							
Sampled By: MOSES on 11-JAN-13 @ 08:45							
Matrix: WATER							
Total Coliform and E.coli							
Total Coliforms	0		0	MPN/100mL		12-JAN-13	R2508487
Escherichia Coli	0		0	MPN/100mL		12-JAN-13	R2508487
L1257223-5 5 - HAMLET OFFICE							
Sampled By: MOSES on 11-JAN-13 @ 09:40							
Matrix: WATER							
Total Coliform and E.coli							
Total Coliforms	0		0	MPN/100mL		12-JAN-13	R2508487
Escherichia Coli	0		0	MPN/100mL		12-JAN-13	R2508487

* 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 positve 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 positve 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.

ALS Environmental

L1257223-COFC

COC # _____

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Report To		Report Format / Distribution				Service Requested (Rush for routine analysis subject to availability)
Company:	Municipality of SANIKILUAQ (W10375)	☑ Standard	☐ Other			◉ Regular (Standard Turnaround Times - Business Days)
Contact:	MOSES NOVALINGA	☑ PDF	☐ Excel	☐ Digital	☑ Fax	○ Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT
Address:	Box 157	Email 1:	sanisao@qiniq.com			○ Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS 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:	cvanlankveld1@gov.nu.ca			
Invoice To	Same as Report ? ☐ Yes ☐ No	Client / Project Information				Analysis Request
Hardcopy of Invoice with Report?	☐ Yes ☐ No	Job #:	SANIKILUAQ WTP - DRINKING WATER			Please indicate below Filtered, Preserved or both (F, P, F/P)
Company:	(W10375)	PO / AFE:				
Contact:		LSD:				
Address:						
Phone:	Fax:	Quote #:				
Lab Work Order # (lab use only)		ALS Contact:		Sampler:	MOSES	

Sample #	Sample Identification (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	TC,EC-QT51-WP	ROU4W+MET-T-WP (chem)	COLOUR-TRUE-WP	Number of Containers
	1) TRUCK NOZZLE	11-01-13	9:30 AM	HO-42				
	2) PAATSALIK SCHOOL	11-01-13	9:20 AM	LAUNDRY RM				
	3) NUIJAK SCHOOL	11-01-13	9:10 AM	STAFF RM				
	4) HEALTH CENTRE	11-01-13	8:45 AM	HOLDING ROOM				
	5) HAMLET OFFICE	11-01-13	9:40 AM	HALLWAY				

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 SIF
				11JAN13	16:45	°C				

GENF 18.01 Front