



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

Date Received: 09-APR-13  
Report Date: 10-APR-13 15:40 (MT)  
Version: FINAL

Client Phone: 867-266-7900

## Certificate of Analysis

**Lab Work Order #:** L1287666  
**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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ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters                                                                                                                                                                    | Result             | Qualifier* | D.L.               | Units                              | Extracted | Analyzed                           | Batch                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------|--------------------|------------------------------------|-----------|------------------------------------|----------------------------------|
| L1287666-1 WEEKLY TRUCK NOZZLE - HO-42<br>Sampled By: Kenny on 08-APR-13 @ 16:46<br>Matrix: Water<br><br><b>Total Coliform and E.coli</b><br>Total Coliforms<br>Escherichia Coli             | <br><br><br>0<br>0 |            | <br><br><br>0<br>0 | <br><br><br>MPN/100mL<br>MPN/100mL |           | <br><br><br>09-APR-13<br>09-APR-13 | <br><br><br>R2574616<br>R2574616 |
| L1287666-2 WEEKLY PAATSAALIK SCHOOL - JANITOR ROOM<br>Sampled By: Kenny on 08-APR-13 @ 16:20<br>Matrix: Water<br><br><b>Total Coliform and E.coli</b><br>Total Coliforms<br>Escherichia Coli | <br><br><br>0<br>0 |            | <br><br><br>0<br>0 | <br><br><br>MPN/100mL<br>MPN/100mL |           | <br><br><br>09-APR-13<br>09-APR-13 | <br><br><br>R2574616<br>R2574616 |
| L1287666-3 WEEKLY NUIYAK SCHOOL - STAFF ROOM<br>Sampled By: Kenny on 08-APR-13 @ 16:28<br>Matrix: Water<br><br><b>Total Coliform and E.coli</b><br>Total Coliforms<br>Escherichia Coli       | <br><br><br>0<br>0 |            | <br><br><br>0<br>0 | <br><br><br>MPN/100mL<br>MPN/100mL |           | <br><br><br>09-APR-13<br>09-APR-13 | <br><br><br>R2574616<br>R2574616 |
| L1287666-4 WEEKLY HEALTH CENTRE - LUNCH ROOM<br>Sampled By: Kenny on 08-APR-13 @ 16:34<br>Matrix: Water<br><br><b>Total Coliform and E.coli</b><br>Total Coliforms<br>Escherichia Coli       | <br><br><br>0<br>0 |            | <br><br><br>0<br>0 | <br><br><br>MPN/100mL<br>MPN/100mL |           | <br><br><br>09-APR-13<br>09-APR-13 | <br><br><br>R2574616<br>R2574616 |
| L1287666-5 WEEKLY HAMLET OFFICE - MENS ROOM<br>Sampled By: Kenny on 08-APR-13 @ 16:40<br>Matrix: Water<br><br><b>Total Coliform and E.coli</b><br>Total Coliforms<br>Escherichia Coli        | <br><br><br>0<br>0 |            | <br><br><br>0<br>0 | <br><br><br>MPN/100mL<br>MPN/100mL |           | <br><br><br>09-APR-13<br>09-APR-13 | <br><br><br>R2574616<br>R2574616 |
|                                                                                                                                                                                              |                    |            |                    |                                    |           |                                    |                                  |

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

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.

Chair \_\_\_\_\_ Analytical Request Form