



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

Date Received: 24-JUL-14
Report Date: 11-AUG-14 14:41 (MT)
Version: FINAL

Client Phone: 867-266-7900

Certificate of Analysis

Lab Work Order #: L1492043
Project P.O. #: NOT SUBMITTED
Job Reference: SANIKILUAQ WWTP
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
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ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|-----------|------------|----------|-----------|-----------|-----------|----------|
| L1492043-1 SANI 2 (WASTE DISPOSAL GROUND - STREAM) | | | | | | | |
| Sampled By: CLIENT on 23-JUL-14 @ 11:30 | | | | | | | |
| Matrix: DUMP STREAM | | | | | | | |
| Miscellaneous Parameters | | | | | | | |
| Ammonia, Total (as N) | <0.010 | | 0.010 | mg/L | | 25-JUL-14 | R2899368 |
| Conductivity | 504 | | 20 | umhos/cm | | 26-JUL-14 | R2898912 |
| Fecal Coliforms | 9300 | | 3 | MPN/100mL | | 28-JUL-14 | R2900631 |
| Mercury (Hg)-Total | <0.000020 | | 0.000020 | mg/L | 28-JUL-14 | 28-JUL-14 | R2901935 |
| Oil and Grease, Total | <2.0 | | 2.0 | mg/L | 31-JUL-14 | 31-JUL-14 | R2907090 |
| Phenols (4AAP) | <0.0010 | | 0.0010 | mg/L | 29-JUL-14 | 29-JUL-14 | R2901191 |
| Phosphorus (P)-Total | <0.010 | | 0.010 | mg/L | | 30-JUL-14 | R2902453 |
| Sulfate | 37.6 | | 0.50 | mg/L | | 25-JUL-14 | R2899779 |
| Total Suspended Solids | <5.0 | | 5.0 | mg/L | | 28-JUL-14 | R2901609 |
| pH | 7.93 | | 0.10 | pH units | | 26-JUL-14 | R2898912 |
| Total Metals by ICP-MS | | | | | | | |
| Aluminum (Al)-Total | <0.0050 | | 0.0050 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Antimony (Sb)-Total | 0.00045 | | 0.00020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Arsenic (As)-Total | 0.00023 | | 0.00020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Barium (Ba)-Total | 0.0133 | | 0.00020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Beryllium (Be)-Total | <0.00020 | | 0.00020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Bismuth (Bi)-Total | <0.00020 | | 0.00020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Boron (B)-Total | 0.113 | | 0.010 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Cadmium (Cd)-Total | <0.000010 | | 0.000010 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Calcium (Ca)-Total | 46.4 | | 0.10 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Cesium (Cs)-Total | <0.00010 | | 0.00010 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Chromium (Cr)-Total | <0.0010 | | 0.0010 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Cobalt (Co)-Total | <0.00020 | | 0.00020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Copper (Cu)-Total | 0.00469 | | 0.00020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Iron (Fe)-Total | <0.10 | | 0.10 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Lead (Pb)-Total | <0.000090 | | 0.000090 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Lithium (Li)-Total | 0.0056 | | 0.0020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Magnesium (Mg)-Total | 17.1 | | 0.010 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Manganese (Mn)-Total | 0.00039 | | 0.00030 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Molybdenum (Mo)-Total | 0.00049 | | 0.00020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Nickel (Ni)-Total | <0.0020 | | 0.0020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Phosphorus (P)-Total | <0.10 | | 0.10 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Potassium (K)-Total | 2.70 | | 0.020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Rubidium (Rb)-Total | 0.00133 | | 0.00020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Selenium (Se)-Total | <0.0010 | | 0.0010 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Silicon (Si)-Total | 1.61 | | 0.10 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Silver (Ag)-Total | <0.00010 | | 0.00010 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Sodium (Na)-Total | 40.1 | | 0.030 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Strontium (Sr)-Total | 0.132 | | 0.00010 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Tellurium (Te)-Total | <0.00020 | | 0.00020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Thallium (Tl)-Total | <0.00010 | | 0.00010 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Thorium (Th)-Total | <0.00010 | | 0.00010 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Tin (Sn)-Total | <0.00020 | | 0.00020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Titanium (Ti)-Total | <0.00050 | | 0.00050 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Tungsten (W)-Total | <0.00010 | | 0.00010 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Uranium (U)-Total | 0.00225 | | 0.00010 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Vanadium (V)-Total | <0.00020 | | 0.00020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Zinc (Zn)-Total | 0.0036 | | 0.0020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Zirconium (Zr)-Total | <0.00040 | | 0.00040 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Biochemical Oxygen Demand (BOD) | | | | | | | |
| Biochemical Oxygen Demand | <6.0 | | 6.0 | mg/L | | 25-JUL-14 | R2903636 |

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|---|---------------|------------|----------|-----------|-----------|-----------|----------|
| L1492043-1 | SANI 2 (WASTE DISPOSAL GROUND - STREAM) | | | | | | | |
| Sampled By: CLIENT on 23-JUL-14 @ 11:30 | | | | | | | | |
| Matrix: DUMP STREAM | | | | | | | | |
| Biochemical Oxygen Demand (BOD) | | | | | | | | |
| Biochemical Oxygen Demand | | <6.0 | | 6.0 | mg/L | | 30-JUL-14 | R2903636 |
| L1492043-2 | SANI 2 (WASTE DISPOSAL GROUND - STREAM) - TROUT | | | | | | | |
| Sampled By: CLIENT on 23-JUL-14 @ 11:30 | | | | | | | | |
| Matrix: DUMP STREAM | | | | | | | | |
| Miscellaneous Parameters | | | | | | | | |
| Trout Bioassay - Pass/Fail | | See attached. | | | | | 25-JUL-14 | R2909951 |
| L1492043-3 | SANI 2 (WASTE DISPOSAL GROUND - STREAM) - DAPHNIA | | | | | | | |
| Sampled By: CLIENT on 23-JUL-14 @ 11:30 | | | | | | | | |
| Matrix: DUMP STREAM | | | | | | | | |
| Miscellaneous Parameters | | | | | | | | |
| Daphnia Magna - Pass/Fail | | See attached. | | | | | 25-JUL-14 | R2902258 |
| L1492043-4 | SANI 4 (LAGOON - STREAM) | | | | | | | |
| Sampled By: CLIENT on 23-JUL-14 @ 11:00 | | | | | | | | |
| Matrix: LAGOON STREAM | | | | | | | | |
| Miscellaneous Parameters | | | | | | | | |
| Ammonia, Total (as N) | | 0.017 | | 0.010 | mg/L | | 25-JUL-14 | R2899368 |
| Conductivity | | 1810 | | 20 | umhos/cm | | 26-JUL-14 | R2898912 |
| Fecal Coliforms | | 9 | | 3 | MPN/100mL | | 28-JUL-14 | R2900631 |
| Mercury (Hg)-Total | | 0.000026 | | 0.000020 | mg/L | 28-JUL-14 | 28-JUL-14 | R2901935 |
| Oil and Grease, Total | | <2.0 | | 2.0 | mg/L | 31-JUL-14 | 31-JUL-14 | R2907090 |
| Phenols (4AAP) | | <0.0010 | | 0.0010 | mg/L | 29-JUL-14 | 29-JUL-14 | R2901191 |
| Phosphorus (P)-Total | | 0.162 | | 0.010 | mg/L | | 30-JUL-14 | R2902453 |
| Sulfate | | 117 | | 2.5 | mg/L | | 25-JUL-14 | R2899779 |
| Total Suspended Solids | | 6.0 | | 5.0 | mg/L | | 28-JUL-14 | R2901609 |
| pH | | 7.94 | | 0.10 | pH units | | 26-JUL-14 | R2898912 |
| Total Metals by ICP-MS | | | | | | | | |
| Aluminum (Al)-Total | | <0.0050 | | 0.0050 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Antimony (Sb)-Total | | <0.00020 | | 0.00020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Arsenic (As)-Total | | 0.00070 | | 0.00020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Barium (Ba)-Total | | 0.0109 | | 0.00020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Beryllium (Be)-Total | | <0.00020 | | 0.00020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Bismuth (Bi)-Total | | <0.00020 | | 0.00020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Boron (B)-Total | | 0.128 | | 0.010 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Cadmium (Cd)-Total | | 0.000013 | | 0.000010 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Calcium (Ca)-Total | | 97.4 | | 0.10 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Cesium (Cs)-Total | | <0.00010 | | 0.00010 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Chromium (Cr)-Total | | <0.0010 | | 0.0010 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Cobalt (Co)-Total | | 0.00023 | | 0.00020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Copper (Cu)-Total | | 0.00171 | | 0.00020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Iron (Fe)-Total | | <0.10 | | 0.10 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Lead (Pb)-Total | | <0.000090 | | 0.000090 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Lithium (Li)-Total | | 0.0104 | | 0.0020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Magnesium (Mg)-Total | | 48.7 | | 0.010 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Manganese (Mn)-Total | | 0.0103 | | 0.00030 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Molybdenum (Mo)-Total | | 0.00049 | | 0.00020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Nickel (Ni)-Total | | <0.0020 | | 0.0020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Phosphorus (P)-Total | | 0.17 | | 0.10 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Potassium (K)-Total | | 4.94 | | 0.020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Rubidium (Rb)-Total | | 0.00147 | | 0.00020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |

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

| Sample Details/Parameters | | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|--|------------------------------------|---------------|------------|---------|-------|-----------|-----------|----------|
| L1492043-4 | SANI 4 (LAGOON - STREAM) | | | | | | | |
| Sampled By: | CLIENT on 23-JUL-14 @ 11:00 | | | | | | | |
| Matrix: | LAGOON STREAM | | | | | | | |
| Total Metals by ICP-MS | | | | | | | | |
| Selenium (Se)-Total | | <0.0010 | | 0.0010 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Silicon (Si)-Total | | 2.22 | | 0.10 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Silver (Ag)-Total | | <0.00010 | | 0.00010 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Sodium (Na)-Total | | 273 | | 0.030 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Strontium (Sr)-Total | | 0.445 | | 0.00010 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Tellurium (Te)-Total | | <0.00020 | | 0.00020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Thallium (Tl)-Total | | <0.00010 | | 0.00010 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Thorium (Th)-Total | | <0.00010 | | 0.00010 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Tin (Sn)-Total | | <0.00020 | | 0.00020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Titanium (Ti)-Total | | <0.00050 | | 0.00050 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Tungsten (W)-Total | | <0.00010 | | 0.00010 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Uranium (U)-Total | | 0.00230 | | 0.00010 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Vanadium (V)-Total | | <0.00020 | | 0.00020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Zinc (Zn)-Total | | <0.0020 | | 0.0020 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Zirconium (Zr)-Total | | <0.00040 | | 0.00040 | mg/L | 08-AUG-14 | 08-AUG-14 | R2912990 |
| Biochemical Oxygen Demand (BOD) | | | | | | | | |
| Biochemical Oxygen Demand | | <6.0 | | 6.0 | mg/L | | 25-JUL-14 | R2903636 |
| Biochemical Oxygen Demand | | <6.0 | | 6.0 | mg/L | | 30-JUL-14 | R2903636 |
| L1492043-5 | SANI 4 (LAGOON - STREAM) - TROUT | | | | | | | |
| Sampled By: | CLIENT on 23-JUL-14 @ 11:00 | | | | | | | |
| Matrix: | LAGOON STREAM | | | | | | | |
| Miscellaneous Parameters | | | | | | | | |
| Trout Bioassay - Pass/Fail | | See attached. | | | | | 25-JUL-14 | R2909951 |
| L1492043-6 | SANI 4 (LAGOON - STREAM) - DAPHNIA | | | | | | | |
| Sampled By: | CLIENT on 23-JUL-14 @ 11:00 | | | | | | | |
| Matrix: | LAGOON STREAM | | | | | | | |
| Miscellaneous Parameters | | | | | | | | |
| Daphnia Magna - Pass/Fail | | See attached. | | | | | 25-JUL-14 | R2902258 |
| | | | | | | | | |

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

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|--|--------|---------------------------------|--------------------------|
| BOD-WP | Water | Biochemical Oxygen Demand (BOD) | APHA 5210 B |
| The sample is incubated for 5 days at 20 degrees Celcius. Comparison of dissolved oxygen content at the beginning and end of incubation provides a measure of biochemical oxygen demand. If carbonaceous BOD is requested, TCMP is added to the sample to chemically inhibit nitrogenous oxygen demand. If soluble BOD is requested, the sample is filtered prior to analysis. Surface waters have a DL of 1 mg/L. Effluents are diluted according to their history and will have a sample DL of 6 mg/L or greater, depending on the dilutions used. | | | |
| DAPHNIA-P/F-WP | Water | Daphnia Magna Pass/Fail | EPS/1/RM/11, EPS 1/RM/14 |
| Daphnia Magna, grown under controlled conditions, are introduced into a single 100% concentration of a sample in order to obtain an Pass/Fail indication of toxicity. A Fail occurs when greater than 50% of the organisms die. | | | |
| EC-WP | Water | Conductivity | APHA 2510B |
| Conductivity of an aqueous solution refers to its ability to carry an electric current. Conductance of a solution is measured between two spatially fixed and chemically inert electrodes. | | | |
| FC-MPN-WP | Water | Fecal Coliform | APHA 9221E |
| The Most Probable Number (MPN) method is based on the Multiple Tube Fermentation technique. The results of examination of replicate tubes and dilutions of a sample are reported after confirmations specific to total coliform, fecal coliform and E. coli are performed. Results are reported in MPN/100 mL for water and MPN/gram for food and solid samples. | | | |
| HG-T-CVAF-WP | Water | Mercury Total | EPA245.7 V2.0 |
| Mercury in filtered and unfiltered waters is oxidized with Bromine monochloride and analyzed by cold-vapour atomic fluorescence spectrometry. | | | |
| MET-T-L-MS-WP | Water | Total Metals by ICP-MS | APHA 3030E/EPA 6020A-TL |
| This analysis involves preliminary sample treatment by hotblock acid digestion (APHA 3030E). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A). | | | |
| NH3-COL-WP | Water | Ammonia by colour | APHA 4500 NH3 F |
| Ammonia in water samples forms indophenol when reacted with hypochlorite and phenol. The intensity is amplified by the addition of sodium nitroprusside and measured colourimetrically. | | | |
| OGG-TOT-WT | Water | Oil and Grease, Total | APHA 5520 B |
| Sample is extracted with hexane, extract is then evaporated and the residue is weighed to determine total oil and grease. | | | |
| P-T-COL-WP | Water | Phosphorus, Total | APHA 4500 P PHOSPHORUS |
| This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorus is determined colourimetrically after persulphate digestion of the sample. | | | |
| PH-WP | Water | pH | APHA 4500H |
| The pH of a sample is the determination of the activity of the hydrogen ions by potentiometric measurement using a standard hydrogen electrode and a reference electrode. | | | |
| PHENOLS-4AAP-WT | Water | Phenol (4AAP) | EPA 9066 |
| An automated method is used to distill the sample. The distillate is then buffered to pH 9.4 which reacts with 4AAP and potassium ferricyanide to form a red complex which is measured colorimetrically. | | | |
| SO4-IC-WP | Water | Sulfate by Ion Chromatography | EPA 300.1 (Modified) |
| Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors. | | | |
| SOLIDS-TOTSUS-WP | Water | Total Suspended Solids | APHA 2540 D (modified) |
| Total suspended solids in aqueous matrices is determined gravimetrically after drying the residue at 103 105°C. | | | |
| TROUT-P/F-WP | Water | Trout Bioassay Pass/Fail | EPS 1/RM/13, EPS 1/RM/9 |
| Certified, disease-free rainbow trout (<i>Oncorhynchus mykiss</i>) are exposed to the full-strength (100%) sample, under static conditions in order to obtain a pass/fail indication of toxicity. A sample is considered to "fail" if >50% mortality is observed within a 96-hour exposure period. | | | |

** 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 |
|----------------------------|---------------------|
|----------------------------|---------------------|

Reference Information

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|---------------|--------|--|--------------------|
| WP | | ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA | |
| WT | | ALS ENVIRONMENTAL - WATERLOO, ONTARIO, 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 ww_t - milligrams per kilogram based on wet weight of sample
- mg/kg lw_t - 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.



Rainbow Trout Bioassay Test Report - Pass/Fail

| | |
|------------|------------|
| Sample ID: | L1492043-2 |
|------------|------------|

Summary Results

| | |
|--------------------|------|
| 96-hour Pass/Fail: | PASS |
|--------------------|------|

Sample Information

| | |
|---------------------------|---|
| Sample Origin: | Municipality of Sanikiluaq |
| Sample Description: | SANI-2 (Waste Disposal Ground - Stream) |
| Sampling Date and Time: | 23-Jul-14 11:30 |
| Sampling Method: | Grab |
| Sampled By: | Moses |
| Container(s) Description: | 1 x 20L polyethylene pail with liner |
| Sample Volume: | 20L |
| Date and Time Received: | 24-Jul-14 12:30 |
| Transit Irregularities: | None |
| Storage Temperature (°C): | 15 |

Test Information

| | |
|-----------------------------------|---|
| Test Organism: | Oncorhynchus mykiss |
| Test Description: | Acute, 96-hour, Static, Pass/Fail |
| Reference Method(s): | EPS 1/RM/13, 2nd Ed. Dec. 2000, with May 2007 amendments, Environment Canada EPS 1/RM/9, May 1996 with May 2007 amendments, Environment Canada |
| Performed By: | JRB |
| Starting Date and Time: | 25-Jul-14 10:45 |
| Deviations from Reference Method: | None |



Initial Parameters

Observations

| | | | |
|--------------------------|--------------|---------------------------|---------------------------|
| Colour: | Light Yellow | | |
| Odour: | Mild | | |
| Turbidity: | None | | |
| Solids: | None | | |
| Hardness (mg/L): | 1.9 | mL Titration Solution/ 10 | mL of Sample x 1000 = 190 |
| Alkalinity (mg/L): | 1.6 | mL Titration Solution/ 10 | mL of Sample x 1000 = 160 |
| Temperature (°C): | 15 | | |
| Dissolved Oxygen (mg/L): | 9.32 | | |
| Conductivity (µmhos/cm): | 481 | | |
| pH (5.5-8.5 pH units): | 7.69 | | |
| pH Adjustment: | Not Adjusted | | |
| pH Adjustment Procedure: | n/a | | |

Pre-Aeration

| | | |
|--|------------|------|
| Aeration Rate (5.5-7.5 mL/min/L): | 6.40 ± 0.6 | |
| Aeration Time (min): | 30 | |
| Sample Test Concentration (v/v): | 100% | 0% |
| Dissolved Oxygen (D.O.) Before Pre-Aeration (%): | 95.9 | 94.4 |
| Average D.O. After Pre-Aeration (%): | 98.5 | 91.8 |

Test Organism Data

| | |
|--------------------------------------|-------------|
| Lot Number: | 28/05/14 T2 |
| Weekly Mortality Preceding Test (%): | 0.4 |
| Sample Size: | 10 |

Conditions Common to All Concentrations During Test

| | |
|---|--|
| Source of Holding/Dilution Water: | Dechlorinated UV Treated City of Winnipeg Tap Water |
| Container Description: | 20 L Polyethylene Pail with Liner |
| Aeration Method: | Compressed air bubbled through silica-glass air diffuser |
| Aeration Rate (5.5-7.5 mL/min/L): | 6.40 ± 0.6 |
| Test Solution Volume (L): | 20 |
| Test Solution Depth (cm): | 34 |
| Number of Test Organisms per Container: | 10 |
| Loading Density (g/L): | 0.28 |



Conditions During Test

| Concentration (% v/v) | Temperature (°C) (15 ± 1°C) | | | | | Dissolved Oxygen (mg/L) | | | | | pH (pH units) | | | | |
|--------------------------|--------------------------------|-----|-----|-----|-----|-------------------------|-----|-----|-----|------|---------------|-----|-----|-----|------|
| | 0h | 24h | 48h | 72h | 96h | 0h | 24h | 48h | 72h | 96h | 0h | 24h | 48h | 72h | 96h |
| 0 | 15 | n/a | n/a | n/a | 15 | 8.77 | n/a | n/a | n/a | 9.71 | 7.43 | n/a | n/a | n/a | 7.53 |
| 100 | 15 | n/a | n/a | n/a | 15 | 9.92 | n/a | n/a | n/a | 9.68 | 7.74 | n/a | n/a | n/a | 7.93 |

| Conc. (% v/v) | Conductivity (µmhos/cm) | Number of Fish Dead | | | | Number of Fish Stressed | | | |
|------------------|----------------------------|---------------------|-----|-----|-----|-------------------------|-----|-----|-----|
| | 0h | 24h | 48h | 72h | 96h | 24h | 48h | 72h | 96h |
| 0 | 280 | 0 | n/a | n/a | 0 | 0 | n/a | n/a | 0 |
| 100 | 491 | 0 | n/a | n/a | 0 | 0 | n/a | n/a | 0 |

Control Fish Information at End of Test

| | |
|-------------------------------|------|
| Mean Fork Length (mm): | 41 |
| Lower Range Fork Length (mm): | 36 |
| Upper Range Fork Length (mm): | 46 |
| Mean Wet Weight: | 0.56 |

Mortality and Stressed Behaviour Information

| Conc. (% v/v) | Mean Number of Fish at End of Test | | Mean Rate of Fish at End of Test (%) | |
|------------------|---------------------------------------|----------|---|----------|
| | Dead | Stressed | Dead | Stressed |
| 0 | 0 | 0 | 0 | 0 |
| 100 | 0 | 0 | 0 | 0 |



Reference Toxicant Test Results

| | |
|--|------------------------------|
| Reference Toxicant: | Zinc Sulfate |
| Date Reference Toxicant Initiated: | 24-Jul-14 |
| Recent 96h Reference Toxicant Test LC50 (mg/L Zinc): | 0.45 |
| Lower 95% Confidence Limit (mg/L Zinc): | 0.31 |
| Upper 95% Confidence Limit (mg/L Zinc): | 0.61 |
| Historic Geometric Mean LC50 (mg/L Zinc): | 0.65 |
| Lower 95% Confidence Limit (mg/L Zinc): | 0.24 |
| Upper 95% Confidence Limit (mg/L Zinc): | 1.72 |
| Method of Calculation: | Stephan LC50 Program, Probit |
| Confirmed by Graph: | Yes |

Sublethal Biological Effects

No sublethal biological effects observed.

Observations/Comments

No toxicity observed.



Daphnia Magna Bioassay Test Report - Pass/Fail

| | |
|------------|------------|
| Sample ID: | L1492043-3 |
|------------|------------|

Summary Results

| | |
|--------------------|------|
| 48-hour Pass/Fail: | PASS |
|--------------------|------|

Sample Information

| | |
|---------------------------|---|
| Sample Origin: | Municipality of Sanikiluaq |
| Sample Description: | SANI-2 (Waste Disposal Ground - Stream) |
| Sampling Date and Time: | 23-Jul-14 11:30 |
| Sampling Method: | Grab |
| Sampled By: | Moses |
| Container(s) Description: | 1 x 20L polyethylene pail with liner |
| Sample Volume: | 20L |
| Date and Time Received: | 24-Jul-14 12:30 |
| Transit Irregularities: | None |
| Storage Temperature (°C): | 20 |

Test Information

| | |
|-----------------------------------|--|
| Test Organism: | Daphnia magna |
| Test Description: | Acute, 48-hour, Static, Pass/Fail |
| Reference Method(s): | EPS 1/RM/14, 2nd Ed. Dec. 2000, Environment Canada EPS 1/RM/11, July 1990, Environment Canada |
| Performed By: | JRB |
| Starting Date and Time: | 25-Jul-14 14:00 |
| Deviations from Reference Method: | None |



Condition of Effluent at 100% v/v Before Preparing Dilutions

Observations

| | | | | |
|------------------------------------|--------------|------------------------|-----|---------------------------|
| Colour: | Light Yellow | | | |
| Odour: | Mild | | | |
| Turbidity: | None | | | |
| Solids: | None | | | |
| Temperature (°C): | 20 | | | |
| Dissolved Oxygen (mg/L): | 10.15 | | | |
| Conductivity (µmhos/cm): | 547 | | | |
| pH: | 7.57 | | | |
| pH Adjustment: | Not Adjusted | | | |
| pH Adjustment Procedure: | n/a | | | |
| Hardness (mg/L) Before Adjustment: | 1.9 | mL Titration Solution/ | 10 | mL of Sample x 1000 = 190 |
| Hardness (mg/L) After Adjustment: | n/a | mL Titration Solution/ | n/a | mL of Sample x 1000 = n/a |
| Alkalinity (mg/L): | 1.6 | mL Titration Solution/ | 10 | mL of Sample x 1000 = 160 |

Pre-Aeration

| | | |
|--|------------|------|
| Aeration Rate (25-50 mL/min/L): | 33.5 ± 0.2 | |
| Aeration Time (min): | 30 | |
| Sample Test Concentration (v/v): | 100% | 0% |
| Dissolved Oxygen (D.O.) Before Pre-Aeration (%): | 110.7 | 93.6 |
| Average D.O. After Pre-Aeration (%): | 99.8 | 94.2 |

Test Organism Data

| | |
|---|----------|
| Average age of daphnia at first brood (days): | 10 |
| Average number of neonates per brood: | 24 |
| Weekly Mortality Preceding Test (%): | 5.6 |
| Date Parents Born: | 8-Jul-14 |
| Loading Density (organisms/20 mL): | 1 |
| Age of test organisms at beginning of test (hrs): | <24 |

Conditions Common to All Concentrations During Test

| | |
|--|---|
| Volume Tested: | 200 mL (for control and 100%) |
| Triplicate solutions for control & 100%: | Yes |
| Neonates per Vessel: | 10 |
| Volume per Neonate: | 20 mL |
| Test Solution Depth: | 70 mm |
| Container Description: | Plastic Cups |
| Source of Holding/Dilution Water: | Dechlorinated UV Treated City of Winnipeg Tap Water |



Conditions During Test

| Concentration | Temperature (°C) | | | Dissolved Oxygen (mg/L) | | pH | | Conductivity (µmhos/cm) | Hardness (mg/L) | Immobility (# of daphnids) | | Mortality (# of daphnids) |
|---------------|------------------|-----|-----|-------------------------|------|------|------|-------------------------|-----------------|----------------------------|-----|---------------------------|
| (% v/v) | 0h | 24h | 48h | 0h | 48h | 0h | 48h | 0h | 0h | 24h | 48h | 48h |
| 0 | 20 | 20 | 20 | 8.57 | 8.60 | 7.79 | 7.75 | 329 | 90 | 0 | 0 | 0 |
| 0 | 20 | 20 | 20 | 8.61 | 8.63 | 7.79 | 7.74 | 329 | 90 | 0 | 0 | 0 |
| 0 | 20 | 20 | 20 | 8.75 | 8.57 | 7.80 | 7.73 | 329 | 90 | 0 | 0 | 0 |
| 100 | 20 | 20 | 20 | 9.18 | 8.59 | 7.93 | 8.10 | 543 | 190 | 0 | 0 | 0 |
| 100 | 20 | 20 | 20 | 9.05 | 8.62 | 7.93 | 8.11 | 545 | 190 | 0 | 0 | 0 |
| 100 | 20 | 20 | 20 | 8.99 | 8.61 | 7.94 | 8.11 | 544 | 190 | 0 | 0 | 0 |

Mortality and Immobility Information

| Conc. | Mean Number of Daphnids at End of Test | | Mean Rate of Daphnids at End of Test (%) | |
|---------|--|----------|--|----------|
| (% v/v) | Dead | Immobile | Dead | Immobile |
| 0 | 0 | 0 | 0 | 0 |
| 100 | 0 | 0 | 0 | 0 |

Reference Toxicant Test Results

| | |
|--|------------------------------|
| Reference Toxicant: | Sodium Chloride |
| Date Reference Toxicant Initiated: | 23-Jul-14 |
| Recent 48h Reference Toxicant Test LC50 (mg/L NaCl): | 6382 |
| Lower 95% Confidence Limit (mg/L NaCl): | 6155 |
| Upper 95% Confidence Limit (mg/L NaCl): | 6975 |
| Historic Geometric Mean LC50 (mg/L NaCl): | 5806 |
| Lower Warning Limit (-2 S.D.): | 5220 |
| Upper Warning Limit (+2 S.D.): | 6459 |
| Method of Calculation: | Stephan LC50 Program, Probit |
| Confirmed by Graph: | Yes |

Observations/Comments

No toxicity observed.



Rainbow Trout Bioassay Test Report - Pass/Fail

| | |
|------------|------------|
| Sample ID: | L1492043-5 |
|------------|------------|

Summary Results

| | |
|--------------------|------|
| 96-hour Pass/Fail: | PASS |
|--------------------|------|

Sample Information

| | |
|---------------------------|--------------------------------------|
| Sample Origin: | Municipality of Sanikiluaq |
| Sample Description: | SANI-4 (Lagoon-Stream) |
| Sampling Date and Time: | 23-Jul-14 11:00 |
| Sampling Method: | Grab |
| Sampled By: | Moses |
| Container(s) Description: | 1 x 20L polyethylene pail with liner |
| Sample Volume: | 20L |
| Date and Time Received: | 24-Jul-14 12:30 |
| Transit Irregularities: | None |
| Storage Temperature (°C): | 15 |

Test Information

| | |
|-----------------------------------|---|
| Test Organism: | Oncorhynchus mykiss |
| Test Description: | Acute, 96-hour, Static, Pass/Fail |
| Reference Method(s): | EPS 1/RM/13, 2nd Ed. Dec. 2000, with May 2007 amendments, Environment Canada EPS 1/RM/9, May 1996 with May 2007 amendments, Environment Canada |
| Performed By: | JRB |
| Starting Date and Time: | 25-Jul-14 10:45 |
| Deviations from Reference Method: | None |



Initial Parameters

Observations

| | | | |
|--------------------------|--------------|---------------------------|---------------------------|
| Colour: | Light Yellow | | |
| Odour: | Mild | | |
| Turbidity: | None | | |
| Solids: | None | | |
| Hardness (mg/L): | 4.3 | mL Titration Solution/ 10 | mL of Sample x 1000 = 430 |
| Alkalinity (mg/L): | 1.7 | mL Titration Solution/ 10 | mL of Sample x 1000 = 170 |
| Temperature (°C): | 15 | | |
| Dissolved Oxygen (mg/L): | 10.39 | | |
| Conductivity (µmhos/cm): | 1990 | | |
| pH (5.5-8.5 pH units): | 7.75 | | |
| pH Adjustment: | Not Adjusted | | |
| pH Adjustment Procedure: | n/a | | |

Pre-Aeration

| | | |
|--|------------|------|
| Aeration Rate (5.5-7.5 mL/min/L): | 6.40 ± 0.6 | |
| Aeration Time (min): | 120 | |
| Sample Test Concentration (v/v): | 100% | 0% |
| Dissolved Oxygen (D.O.) Before Pre-Aeration (%): | 103.8 | 93.5 |
| Average D.O. After Pre-Aeration (%): | 100.2 | 95.2 |

Test Organism Data

| | |
|--------------------------------------|-------------|
| Lot Number: | 28/05/14 T2 |
| Weekly Mortality Preceding Test (%): | 0.4 |
| Sample Size: | 10 |

Conditions Common to All Concentrations During Test

| | |
|---|--|
| Source of Holding/Dilution Water: | Dechlorinated UV Treated City of Winnipeg Tap Water |
| Container Description: | 20 L Polyethylene Pail with Liner |
| Aeration Method: | Compressed air bubbled through silica-glass air diffuser |
| Aeration Rate (5.5-7.5 mL/min/L): | 6.40 ± 0.6 |
| Test Solution Volume (L): | 20 |
| Test Solution Depth (cm): | 34 |
| Number of Test Organisms per Container: | 10 |
| Loading Density (g/L): | 0.28 |



Conditions During Test

| Concentration (% v/v) | Temperature (°C) (15 ± 1°C) | | | | | Dissolved Oxygen (mg/L) | | | | | pH (pH units) | | | | |
|--------------------------|--------------------------------|-----|-----|-----|-----|-------------------------|-----|-----|-----|------|---------------|-----|-----|-----|------|
| | 0h | 24h | 48h | 72h | 96h | 0h | 24h | 48h | 72h | 96h | 0h | 24h | 48h | 72h | 96h |
| 0 | 15 | n/a | n/a | n/a | 15 | 9.37 | n/a | n/a | n/a | 9.70 | 7.46 | n/a | n/a | n/a | 7.50 |
| 100 | 15 | n/a | n/a | n/a | 15 | 10.07 | n/a | n/a | n/a | 9.59 | 7.77 | n/a | n/a | n/a | 8.15 |

| Conc. (% v/v) | Conductivity (µmhos/cm) | Number of Fish Dead | | | | Number of Fish Stressed | | | |
|------------------|----------------------------|---------------------|-----|-----|-----|-------------------------|-----|-----|-----|
| | 0h | 24h | 48h | 72h | 96h | 24h | 48h | 72h | 96h |
| 0 | 277 | 0 | n/a | n/a | 0 | 0 | n/a | n/a | 0 |
| 100 | 1980 | 0 | n/a | n/a | 0 | 0 | n/a | n/a | 0 |

Control Fish Information at End of Test

| | |
|-------------------------------|------|
| Mean Fork Length (mm): | 41 |
| Lower Range Fork Length (mm): | 37 |
| Upper Range Fork Length (mm): | 45 |
| Mean Wet Weight: | 0.57 |

Mortality and Stressed Behaviour Information

| Conc. (% v/v) | Mean Number of Fish at End of Test | | Mean Rate of Fish at End of Test (%) | |
|------------------|---------------------------------------|----------|---|----------|
| | Dead | Stressed | Dead | Stressed |
| 0 | 0 | 0 | 0 | 0 |
| 100 | 0 | 0 | 0 | 0 |



Reference Toxicant Test Results

| | |
|--|------------------------------|
| Reference Toxicant: | Zinc Sulfate |
| Date Reference Toxicant Initiated: | 24-Jul-14 |
| Recent 96h Reference Toxicant Test LC50 (mg/L Zinc): | 0.45 |
| Lower 95% Confidence Limit (mg/L Zinc): | 0.31 |
| Upper 95% Confidence Limit (mg/L Zinc): | 0.61 |
| Historic Geometric Mean LC50 (mg/L Zinc): | 0.65 |
| Lower 95% Confidence Limit (mg/L Zinc): | 0.24 |
| Upper 95% Confidence Limit (mg/L Zinc): | 1.72 |
| Method of Calculation: | Stephan LC50 Program, Probit |
| Confirmed by Graph: | Yes |

Sublethal Biological Effects

No sublethal biological effects observed.

Observations/Comments

No toxicity observed.



Daphnia Magna Bioassay Test Report - Pass/Fail

| | |
|------------|------------|
| Sample ID: | L1492043-6 |
|------------|------------|

Summary Results

| | |
|--------------------|------|
| 48-hour Pass/Fail: | PASS |
|--------------------|------|

Sample Information

| | |
|---------------------------|--------------------------------------|
| Sample Origin: | Municipality of Sanikiluaq |
| Sample Description: | SANI-4 (Lagoon - Stream) |
| Sampling Date and Time: | 23-Jul-14 11:00 |
| Sampling Method: | Grab |
| Sampled By: | Moses |
| Container(s) Description: | 1 x 20L polyethylene pail with liner |
| Sample Volume: | 20L |
| Date and Time Received: | 24-Jul-14 12:30 |
| Transit Irregularities: | None |
| Storage Temperature (°C): | 20 |

Test Information

| | |
|-----------------------------------|--|
| Test Organism: | Daphnia magna |
| Test Description: | Acute, 48-hour, Static, Pass/Fail |
| Reference Method(s): | EPS 1/RM/14, 2nd Ed. Dec. 2000, Environment Canada EPS 1/RM/11, July 1990, Environment Canada |
| Performed By: | JRB |
| Starting Date and Time: | 25-Jul-14 14:00 |
| Deviations from Reference Method: | None |



Condition of Effluent at 100% v/v Before Preparing Dilutions

Observations

| | | | | |
|------------------------------------|--------------|------------------------|-----|---------------------------|
| Colour: | Light Yellow | | | |
| Odour: | Mild | | | |
| Turbidity: | None | | | |
| Solids: | None | | | |
| Temperature (°C): | 20 | | | |
| Dissolved Oxygen (mg/L): | 10.27 | | | |
| Conductivity (µmhos/cm): | 2.6 | | | |
| pH: | 7.65 | | | |
| pH Adjustment: | Not Adjusted | | | |
| pH Adjustment Procedure: | n/a | | | |
| Hardness (mg/L) Before Adjustment: | 4.3 | mL Titration Solution/ | 10 | mL of Sample x 1000 = 430 |
| Hardness (mg/L) After Adjustment: | n/a | mL Titration Solution/ | n/a | mL of Sample x 1000 = n/a |
| Alkalinity (mg/L): | 1.7 | mL Titration Solution/ | 10 | mL of Sample x 1000 = 170 |

Pre-Aeration

| | | |
|--|------------|------|
| Aeration Rate (25-50 mL/min/L): | 33.5 ± 0.2 | |
| Aeration Time (min): | 30 | |
| Sample Test Concentration (v/v): | 100% | 0% |
| Dissolved Oxygen (D.O.) Before Pre-Aeration (%): | 112.4 | 93.6 |
| Average D.O. After Pre-Aeration (%): | 99.1 | 95.5 |

Test Organism Data

| | |
|---|----------|
| Average age of daphnia at first brood (days): | 10 |
| Average number of neonates per brood: | 24 |
| Weekly Mortality Preceding Test (%): | 5.6 |
| Date Parents Born: | 8-Jul-14 |
| Loading Density (organisms/20 mL): | 1 |
| Age of test organisms at beginning of test (hrs): | <24 |

Conditions Common to All Concentrations During Test

| | |
|--|---|
| Volume Tested: | 200 mL (for control and 100%) |
| Triplicate solutions for control & 100%: | Yes |
| Neonates per Vessel: | 10 |
| Volume per Neonate: | 20 mL |
| Test Solution Depth: | 70 mm |
| Container Description: | Plastic Cups |
| Source of Holding/Dilution Water: | Dechlorinated UV Treated City of Winnipeg Tap Water |



Conditions During Test

| Concentration (% v/v) | Temperature (°C) | | | Dissolved Oxygen (mg/L) | | pH | | Conductivity (µmhos/cm) | Hardness (mg/L) | Immobility (# of daphnids) | | Mortality (# of daphnids) |
|--------------------------|------------------|-----|-----|-------------------------|------|------|------|-------------------------|-----------------|----------------------------|-----|---------------------------|
| | 0h | 24h | 48h | 0h | 48h | 0h | 48h | 0h | 0h | 24h | 48h | 48h |
| 0 | 20 | 20 | 20 | 8.75 | 8.64 | 7.80 | 7.57 | 330 | 90 | 0 | 0 | 0 |
| 0 | 20 | 20 | 20 | 8.77 | 8.60 | 7.81 | 7.53 | 330 | 90 | 0 | 0 | 0 |
| 0 | 20 | 20 | 20 | 8.82 | 8.62 | 7.81 | 7.53 | 331 | 90 | 0 | 0 | 0 |
| 100 | 20 | 20 | 20 | 9.07 | 8.64 | 7.89 | 7.97 | 2170 | 430 | 0 | 0 | 0 |
| 100 | 20 | 20 | 20 | 9.03 | 8.56 | 7.90 | 7.99 | 2170 | 430 | 0 | 0 | 0 |
| 100 | 20 | 20 | 20 | 9.03 | 8.63 | 7.91 | 8.00 | 2160 | 430 | 0 | 0 | 0 |

Mortality and Immobility Information

| Conc. (% v/v) | Mean Number of Daphnids at End of Test | | Mean Rate of Daphnids at End of Test (%) | |
|------------------|--|----------|--|----------|
| | Dead | Immobile | Dead | Immobile |
| 0 | 0 | 0 | 0 | 0 |
| 100 | 0 | 0 | 0 | 0 |

Reference Toxicant Test Results

| | |
|--|------------------------------|
| Reference Toxicant: | Sodium Chloride |
| Date Reference Toxicant Initiated: | 23-Jul-14 |
| Recent 48h Reference Toxicant Test LC50 (mg/L NaCl): | 6382 |
| Lower 95% Confidence Limit (mg/L NaCl): | 6155 |
| Upper 95% Confidence Limit (mg/L NaCl): | 6975 |
| Historic Geometric Mean LC50 (mg/L NaCl): | 5806 |
| Lower Warning Limit (-2 S.D.): | 5220 |
| Upper Warning Limit (+2 S.D.): | 6459 |
| Method of Calculation: | Stephan LC50 Program, Probit |
| Confirmed by Graph: | Yes |

Observations/Comments

No toxicity observed.



L1492043-COFC

rm

COC # _____

Page ____ of ____

| Report To | | | | | Service Requested (Rush for routine analysis subject to availability) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--------------------|-----------------|-------------|--|--------------|--------------|-------------------------|--------------|---|--------------|-----------------|------------|--------------|----------------|---|--------------------|-----------------|-------------|--------|----------|----------|-------------------------|--------------|---------------|--------------|-----------------|------------|--------------|----------------|----------------------|--|---|----------|----------|-----------|---|---|---|---|---|---|---|---|---|--|---|---|--|--------------------------|----------|----------|-------------|---|---|---|---|---|---|---|---|---|--|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Company: Municipality of SANIKILUAQ (W10375) | | | | | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Other | | | | | <input checked="" type="radio"/> Regular (Standard Turnaround Times - Business Days) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Contact: ANDRE LARABIE SAO | | | | | <input checked="" type="checkbox"/> PDF <input type="checkbox"/> Excel <input type="checkbox"/> Digital <input type="checkbox"/> Fax | | | | | <input type="radio"/> Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address: Box 157 | | | | | Email 1: sanisao@qiniq.com | | | | | <input type="radio"/> Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sanikiluaq, NU, X0A 0W0 | | | | | Email 2: sanilands@qiniq.com | | | | | <input type="radio"/> Same Day or Weekend Emergency - Contact ALS to Confirm TAT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone: 867-266-7900 Fax: 867-266-8919 | | | | | Email 3: broy@gov.nu.ca | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Invoice To Same as Report ? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | Client / Project Information | | | | | Analysis Request | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hardcopy of Invoice with Report? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | Job #: SANIKILUAQ WWTP | | | | | Please indicate below Filtered, Preserved or both (F, P, F/P) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Company: (W10375) | | | | | PO / AFE: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Contact: | | | | | LSD: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address: | | | | | Quote #: Q37083 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lab Work Order # (lab use only) | | | | | ALS Contact: | | | | | Sampler: <i>MOSGS</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Sample #</th> <th>Sample Identification (This description will appear on the report)</th> <th>Date (dd-mm-yy)</th> <th>Time (hh:mm)</th> <th>Sample Type</th> <th>BOD-WP</th> <th>pH, Cond</th> <th>TSS, SO4</th> <th>FC-MPN (Fecal Coliform)</th> <th>NH3, P-Total</th> <th>Met-T-L-MS-WP</th> <th>HG-T-CVAF-WP</th> <th>Phenols-4AAP-WT</th> <th>OGG-TOT-WT</th> <th>TROUT-P/F-WP</th> <th>DAPHNIA-P/F-WP</th> <th>Number of Containers</th> </tr> </thead> <tbody> <tr> <td></td> <td>Sani 2 (Waste Disposal Ground - Stream)</td> <td>23-07-14</td> <td>11:30 AM</td> <td>DUMP STRM</td> <td>x</td><td>x</td><td>x</td><td>x</td><td>x</td><td>x</td><td>x</td><td>x</td><td>x</td><td></td><td>x</td><td>x</td> </tr> <tr> <td></td> <td>Sani 4 (Lagoon - Stream)</td> <td>23-07-14</td> <td>11:00 AM</td> <td>LAGOON STRM</td> <td>x</td><td>x</td><td>x</td><td>x</td><td>x</td><td>x</td><td>x</td><td>x</td><td>x</td><td></td><td>x</td><td>x</td> </tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> | | | | | | | | | | | | | | | Sample # | Sample Identification (This description will appear on the report) | Date (dd-mm-yy) | Time (hh:mm) | Sample Type | BOD-WP | pH, Cond | TSS, SO4 | FC-MPN (Fecal Coliform) | NH3, P-Total | Met-T-L-MS-WP | HG-T-CVAF-WP | Phenols-4AAP-WT | OGG-TOT-WT | TROUT-P/F-WP | DAPHNIA-P/F-WP | Number of Containers | | Sani 2 (Waste Disposal Ground - Stream) | 23-07-14 | 11:30 AM | DUMP STRM | x | x | x | x | x | x | x | x | x | | x | x | | Sani 4 (Lagoon - Stream) | 23-07-14 | 11:00 AM | LAGOON STRM | x | x | x | x | x | x | x | x | x | | x | x | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample # | Sample Identification (This description will appear on the report) | Date (dd-mm-yy) | Time (hh:mm) | Sample Type | BOD-WP | pH, Cond | TSS, SO4 | FC-MPN (Fecal Coliform) | NH3, P-Total | Met-T-L-MS-WP | HG-T-CVAF-WP | Phenols-4AAP-WT | OGG-TOT-WT | TROUT-P/F-WP | DAPHNIA-P/F-WP | Number of Containers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Sani 2 (Waste Disposal Ground - Stream) | 23-07-14 | 11:30 AM | DUMP STRM | x | x | x | x | x | x | x | x | x | | x | x | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Sani 4 (Lagoon - Stream) | 23-07-14 | 11:00 AM | LAGOON STRM | x | x | x | x | x | x | x | x | x | | x | x | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bottles Required - 500 ml BOD, 125 ml Sterile Bacti, 250 ml Nutrient, 1 L Amber W/M OGG, 1 L Routine, 250 ml Metals, 40 ml Mercury + HCL, 250ml Phenols , 20 L Pail w liner | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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-mm-yy) | Time (hh-mm) | Received by: | Date: | Time: | Temperature: | Verified by: | Date: | Time: | Observations: Yes / No ? If Yes add SIF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | <i>PD</i> | 24/7/14 | 12:30 | 10 °C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |