



Rainy River District School Board  
ATTN: Travis Enge  
McCrosson-Tovell School  
522 2ND ST EAST  
FORT FRANCES ON P9A 1N4

Date Received: 09-JAN-18  
Report Date: 11-JAN-18 12:47 (MT)  
Version: FINAL

Client Phone: 807-275-6762

## Certificate of Analysis

Lab Work Order #: L2042872  
Project P.O. #: NOT SUBMITTED  
Job Reference: 260009789  
C of C Numbers:  
Legal Site Desc:

  
\_\_\_\_\_  
Christina Shepherd  
Account Manager

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ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3 Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598  
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# ANALYTICAL GUIDELINE REPORT

260009789

| Sample Details                      |         | Result | Qualifier | D.L.  | Units | Analyzed  | Guideline Limits |    |  |  |  |  |  |  |
|-------------------------------------|---------|--------|-----------|-------|-------|-----------|------------------|----|--|--|--|--|--|--|
| Grouping                            | Analyte |        |           |       |       |           | #1               | #2 |  |  |  |  |  |  |
| L2042872-1 -E1 TREATED MECH ROOM    |         |        |           |       |       |           |                  |    |  |  |  |  |  |  |
| Sampled By: CD on 08-JAN-18 @ 11:06 |         |        |           |       |       |           |                  |    |  |  |  |  |  |  |
| Matrix: Treated Water               |         |        |           |       |       |           |                  |    |  |  |  |  |  |  |
| <b>Anions and Nutrients</b>         |         |        |           |       |       |           |                  |    |  |  |  |  |  |  |
| Nitrate and Nitrite as N            |         | <0.040 |           | 0.040 | mg/L  | 11-JAN-18 | 10.0             |    |  |  |  |  |  |  |
| Nitrate (as N)                      |         | <0.020 |           | 0.020 | mg/L  | 10-JAN-18 | 10               |    |  |  |  |  |  |  |
| Nitrite (as N)                      |         | <0.010 |           | 0.010 | mg/L  | 10-JAN-18 | 1                |    |  |  |  |  |  |  |

\*\* Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

\* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

**Ontario Drinking Water Regulation (ODWQS) JAN.1,2017 = [Suite] - ON-DW-STANDARD+GUIDELINES**

#1: Schedule 1 (Microbiological) and 2 (Chemical) Standards (JAN,2017)

#2: Ontario DW Aesthetic and Operational Guidelines

## Reference Information

### Methods Listed (if applicable):

| ALS Test Code  | Matrix | Test Description         | Method Reference*** |
|--|--------|--------------------------|---------------------|
| ETL-N2N3-TB  | Water  | Calculate from NO2 + NO3 | Calculation         |
| NO2-DW-IC-TB   | Water  | Nitrite in Water by IC   | EPA 300.1 (mod)     |
| Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. |        |                          |                     |
| NO3-DW-IC-TB   | Water  | Nitrate in Water by IC   | EPA 300.1 (mod)     |

Anions in aqueous matrices are analyzed using ion chromatography with conductivity and/or UV absorbance detectors.

\*\*\* ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

*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                              | Laboratory Definition Code | Laboratory Location |
|----------------------------|--|----------------------------|---------------------|
| TB                         | ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA |                            |                     |

### 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.*

*Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information.*



### Quality Control Report

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Client: Rainy River District School Board  
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Contact: Travis Enge

| Test                | Matrix          | Reference | Result | Qualifier | Units | RPD | Limit  | Analyzed  |
|---------------------|-----------------|-----------|--------|-----------|-------|-----|--------|-----------|
| <b>NO2-DW-IC-TB</b> | <b>Water</b>    |           |        |           |       |     |        |           |
| <b>Batch</b>        | <b>R3932840</b> |           |        |           |       |     |        |           |
| <b>WG2696388-2</b>  | <b>LCS</b>      |           |        |           |       |     |        |           |
| Nitrite (as N)      |                 |           | 101.7  |           | %     |     | 90-110 | 10-JAN-18 |
| <b>WG2696388-1</b>  | <b>MB</b>       |           |        |           |       |     |        |           |
| Nitrite (as N)      |                 |           | <0.010 |           | mg/L  |     | 0.01   | 10-JAN-18 |
| <b>NO3-DW-IC-TB</b> | <b>Water</b>    |           |        |           |       |     |        |           |
| <b>Batch</b>        | <b>R3932840</b> |           |        |           |       |     |        |           |
| <b>WG2696388-2</b>  | <b>LCS</b>      |           |        |           |       |     |        |           |
| Nitrate (as N)      |                 |           | 98.1   |           | %     |     | 90-110 | 10-JAN-18 |
| <b>WG2696388-1</b>  | <b>MB</b>       |           |        |           |       |     |        |           |
| Nitrate (as N)      |                 |           | <0.020 |           | mg/L  |     | 0.02   | 10-JAN-18 |

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## Legend:

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|       |   |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP   | Duplicate                                   |
| RPD   | Relative Percent Difference                 |
| N/A   | Not Available                               |
| LCS   | Laboratory Control Sample                   |
| SRM   | Standard Reference Material                 |
| MS    | Matrix Spike                                |
| MSD   | Matrix Spike Duplicate                      |
| ADE   | Average Desorption Efficiency               |
| MB    | Method Blank                                |
| IRM   | Internal Reference Material                 |
| CRM   | Certified Reference Material                |
| CCV   | Continuing Calibration Verification         |
| CVS   | Calibration Verification Standard           |
| LCSD  | Laboratory Control Sample Duplicate         |

## Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

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The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



L2042872-COFC

L2042867-COFC

ALS Thunder Bay, 1081 Barton Street, Thunder Bay, ON P7B 5N3  
Ph: 807-623-6463 Fax: 807-623-7598 Toll-Free 1-800-668-9878

# DRINKING WATER CHAIN OF CUSTODY

PLEASE CIRCLE APPLICABLE REGULATION:

**Reg 170/03**

Reg 318/08 319/08

Reg 243

C of A

Is this a resample from an adverse water quality incident? Yes  No

| WORKS NAME<br>RRDSB - McCrosson-Tovell School                      | WORKS PHONE<br>School: 807-488-5587<br>Sherri: 807-275-4979          |  | ANALYSES REQUESTED   |  |                                |                        |                 |                      |                     |                   |        |          |           |      |            | FOR LAB USE ONLY           |                 |                  |               |                                   |
|--|--|--|--|--|--------------------------------|------------------------|-----------------|----------------------|---------------------|-------------------|--------|----------|-----------|------|------------|----------------------------|-----------------|------------------|---------------|-----------------------------------|
|  | CLIENT CONTACT NAME<br>Travis Enge                                   | WORKS FAX<br>School: 807-488-5737<br>Admin: 807-274-5078     | Please indicate test for each sample by Checkmark in the box below |  |                                |                        |                 |                      |                     |                   |        |          |           |      |            | SUBMISSION NO.<br>L2042867 | LOGGED BY<br>LS | DATE<br>01/09/18 | TIME<br>15:50 | TEMPERATURE AT RECEIPT (C)<br>0.6 |
| WORKS ADDRESS(physical)<br>Site 2, Box 1, Sleeman, ON, P0W 1M0     | AFTER HOURS PHONE<br>Peter: 807-275-6762<br>Travis: 807-276-4733     |  | HEALTH UNIT<br>NWDHU   | HEALTH UNIT Kenora: 807-468-3147/807-468-3914<br>PHONE/FAX Fort Frances: 807-274-9827/807-274-0779 | Total Coliform/E. coli (TC/EC) | Het. Plate Count (HPC) | Nitrate/Nitrite | THM (Max. Res. Time) | Sched 23 Inorganics | Sched 24 Organics | Sodium | Fluoride | Turbidity | Lead | Alkalinity | Other:                     | Field pH        | pH <2            | Volume IL     | Time Check                        |
| REPORTING ADDRESS<br>522 Second St. E., Fort Frances, ON, P9A 1N4  | EMAIL: sherri.belluz@mail.rrdsb.com<br>peter.gardiman@mail.rrdsb.com | Requested Service (Circle One)<br>Reg Pri (50%) Emerg (100%) |  |  |                                |                        |                 |                      |                     |                   |        |          |           |      |            |                            |                 |                  |               |                                   |
| SAMPLE DESCRIPTION<br>(This description will appear on the report) | Chlorine Residual mg/L   | Sample Date  | Sample Time  |  |                                |                        |                 |                      |                     |                   |        |          |           |      |            |                            |                 |                  |               |                                   |
| DISTRIBUTED <b>NURSE ROOM</b>                                      | 0.28   | JAN 8/18   | 11:04 AM   | D  | X                              | X                      |                 |                      |                     |                   |        |          |           |      |            |                            |                 |                  |               |                                   |
| RAW <b>MECH. ROOM</b>  |  | JAN 8/18   | 10:54 AM   | R  | X                              |                        |                 |                      |                     |                   |        |          |           |      |            |                            |                 |                  |               |                                   |
| TREATED <b>MECH ROOM</b>   | 0.30   | JAN 8/18   | 11:06 AM   | T  |                                | X                      |                 |                      |                     |                   |        |          |           |      |            |                            |                 |                  |               |                                   |

\* Sample Type Legend: R - Raw Water T - Treated Source D - Distribution Sample P - Plumbing PS - Plumbing Standing PF - Plumbing Flushed

|  |  |  |  |                         |
|--|--|--|--|-------------------------|
| SAMPLED BY (PRINT):<br><b>CHARLES DESCHAMPS</b>          | SAMPLED BY (SIGNATURE):<br><i>Charles Deschamps</i>          | DATE/TIME RECEIVED AT LAB:<br>01/09/18 13:55 | Other Comments/Cautions (Please identify known or suspected hazards)<br><b>Quanty Tray</b> | CHECK TO LIST ON REPORT |
| SUBMITTED TO LAB BY (PRINT):<br><b>CHARLES DESCHAMPS</b> | SUBMITTED TO LAB BY (SIGNATURE):<br><i>Charles Deschamps</i> | RECEIVED AT LAB BY:<br>LS                    |  | Chlorine Residual(s)    |
|  |  |  |  | Field pH(s)             |