



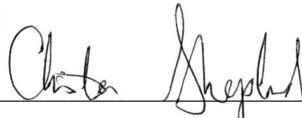
Rainy River District School Board  
ATTN: Travis Enge  
Crossroads School  
522 2ND ST EAST  
FORT FRANCES ON P9A 1N4

Date Received: 09-JAN-18  
Report Date: 11-JAN-18 12:46 (MT)  
Version: FINAL

Client Phone: 807-275-6762

## Certificate of Analysis

Lab Work Order #: L2042790  
Project P.O. #: NOT SUBMITTED  
Job Reference: 260009776  
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

260009776

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits							
Grouping	Analyte						#1	#2						
L2042790-1	-E1 TREATED MECH ROOM													
Sampled By: CD on 08-JAN-18 @ 14:00														
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

Workorder: L2042790

Report Date: 11-JAN-18

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Client: Rainy River District School Board  
Crossroads School 522 2ND ST EAST  
FORT FRANCES ON P9A 1N4

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

# Quality Control Report

Workorder: L2042790

Report Date: 11-JAN-18

Client: Rainy River District School Board  
Crossroads School 522 2ND ST EAST  
FORT FRANCES ON P9A 1N4

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Contact: Travis Enge

## 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.



L2042790-COFC

L2042781-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 RRDSB - Crossroads School		WORKS PHONE School: 807-486-3329 Sherrri: 807-275-4979		ANALYSES REQUESTED Please indicate test for each sample by Checkmark in the box below										FOR LAB USE ONLY L2042790-I																												
CLIENT CONTACT NAME Travis Enge		WORKS FAX School: 807-486-1268 Admin: 807-274-5078		<table border="1"> <tr><td>Total Coliform/E. coli (TC/EC)</td><td>Het. Plate Count (HPC)</td><td>Nitrate/Nitrite</td><td>THM (Max. Res. Time)</td><td>Sched 23 Inorganics</td><td>Sched 24 Organics</td><td>Sodium</td><td>Fluoride</td><td>Turbidity</td><td>Lead</td><td>Alkalinity</td><td>Other:</td><td>Field pH</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></tr> </table>										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														SUBMISSION NO. L2042781-M		
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																				
WORKS ADDRESS(physical) Hwy 613 North, Devlin, ON, POW 1C0		AFTER HOURS PHONE Peter: 807-275-6762 Travis: 807-276-4733												LOGGED BY LS																												
REPORTING ADDRESS 522 Second St. E., Fort Frances, ON, P9A 1N4		HEALTH UNIT NWDHU		DATE 01/09/18																																						
WORKS/DWIS/SDWS NUMBER 260009776 / 500141857		HEALTH UNIT Kenora: 807-468-3147/807-468-3914 Fort Frances: 807-274-9827/807-274-0779		TIME 14:45																																						
EMAIL: sherrri.belluz@mail.rrdsb.com peter.gardiman@mail.rrdsb.com		Requested Service (Circle One) <b>Reg</b> Pri (50%) Emerg (100%)		TEMPERATURE AT RECEIPT (C) 3.5																																						
SAMPLE DESCRIPTION (This description will appear on the report)		Chlorine Residual mg/L	Sample Date	Sample Time	Regulated Sample Type * (R,T,D,P,PS,PF)											pH <2	Volume 1L	Time Check																								
DISTRIBUTED STAFFROOM		0.30	Jan 8/18	1:50 PM	D	X	X																																			
RAW MECH Room			Jan 8/18	1:57 PM	R	X																																				
TREATED MECH ROOM		0.37	Jan 8/18	2:00 PM	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): Charles Deschamps		SAMPLED BY (SIGNATURE): Charles Deschamps		DATE/TIME RECEIVED AT LAB: 01/09/18 13:55		Other Comments/Cautions (Please identify known or suspected hazards) Quarry Tray										CHECK TO LIST ON REPORT Chlorine Residual(s)																										
SUBMITTED TO LAB BY (PRINT): Charles Deschamps		SUBMITTED TO LAB BY (SIGNATURE): Charles Deschamps		RECEIVED AT LAB BY: LS												Field pH(s)																										