



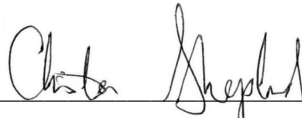
Rainy River District School Board  
ATTN: Travis Enge  
Sturgeon Creek School  
522 2ND ST EAST  
FORT FRANCES ON P9A 1N4

Date Received: 10-APR-18  
Report Date: 12-APR-18 11:03 (MT)  
Version: FINAL

Client Phone: 807-275-6762

## Certificate of Analysis

Lab Work Order #: L2078041  
Project P.O. #: NOT SUBMITTED  
Job Reference: 260009841  
C of C Numbers:  
Legal Site Desc:

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

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# ANALYTICAL GUIDELINE REPORT

260009841

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits							
Grouping	Analyte						#1	#2						
L2078041-3 -E1 TREATED MECHANICAL ROOM														
Sampled By: MK on 09-APR-18 @ 13:15														
Matrix: Treated														
<b>Anions and Nutrients</b>														
Nitrate and Nitrite as N		0.146		0.040	mg/L	12-APR-18	10.0							
Nitrate (as N)		0.146		0.020	mg/L	11-APR-18	10							
Nitrite (as N)		<0.010		0.010	mg/L	11-APR-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.1,2018 = [Suite] - ON-DW-STANDARD+GUIDELINES**

#1: Schedule 1 (Microbiological) and 2 (Chemical) Standards (JAN,2018)

#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: L2078041

Report Date: 12-APR-18

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Client: Rainy River District School Board  
 Sturgeon Creek 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>								
	Water							
<b>Batch</b>	<b>R4008760</b>							
<b>WG2749110-3</b>	<b>DUP</b>	<b>L2077965-1</b>						
Nitrite (as N)		<0.010	<0.010	RPD-NA	mg/L	N/A	20	11-APR-18
<b>WG2749110-2</b>	<b>LCS</b>							
Nitrite (as N)			96.8		%		90-110	11-APR-18
<b>WG2749110-1</b>	<b>MB</b>							
Nitrite (as N)			<0.010		mg/L		0.01	11-APR-18
<b>WG2749110-4</b>	<b>MS</b>	<b>L2078041-3</b>						
Nitrite (as N)			94.6		%		75-125	11-APR-18
<b>NO3-DW-IC-TB</b>								
	Water							
<b>Batch</b>	<b>R4008760</b>							
<b>WG2749110-3</b>	<b>DUP</b>	<b>L2077965-1</b>						
Nitrate (as N)		0.136	0.135		mg/L	0.7	20	11-APR-18
<b>WG2749110-2</b>	<b>LCS</b>							
Nitrate (as N)			98.5		%		90-110	11-APR-18
<b>WG2749110-1</b>	<b>MB</b>							
Nitrate (as N)			<0.020		mg/L		0.02	11-APR-18
<b>WG2749110-4</b>	<b>MS</b>	<b>L2078041-3</b>						
Nitrate (as N)			95.3		%		75-125	11-APR-18

# Quality Control Report

Workorder: L2078041

Report Date: 12-APR-18

Client: Rainy River District School Board  
Sturgeon Creek 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

## Sample Parameter Qualifier Definitions:

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Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

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## 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.



L2078041-COFC

L2078033-COFC

# 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

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

WORKS NAME		WORKS PHONE		ANALYSES REQUESTED												FOR LAB USE ONLY					
RRDSB - Sturgeon Creek School		School: 807-487-2180 Sherri: 807-275-4979		Please Indicate test for each sample by Checkmark in the box below												L2078033-33-M					
CLIENT CONTACT NAME		WORKS FAX														SUBMISSION NO.					
Travis Enge		School: 807-487-1136 Admin: 807-274-5078														L2078041-1					
WORKS ADDRESS(physical)		AFTER HOURS PHONE														LOGGED BY					
1299 Barwick Road, Barwick, ON, P0W 1A0		Peter: 807-275-6762 Travis: 807-276-4733														MM					
REPORTING ADDRESS		HEALTH UNIT														DATE					
522 Second St. E., Fort Frances, ON, P9A 1N4		NWDHU														10 April 2018					
WORKS/DWIS/SDWS NUMBER		HEALTH UNIT Kenora: 807-468-3147/807-468-3914														TIME					
260009841 / 500141272		PHONE/FAX Fort Frances: 807-274-9827/807-274-0779														15:21					
EMAIL: sherri.belluz@mail.rrdsb.com peter.gardiman@mail.rrdsb.com		Requested Service (Circle One)														TEMPERATURE AT RECEIPT (C)					
		Reg <input checked="" type="checkbox"/> Pri (50%) Emerg (100%)														9.4					
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)	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 1L	Time Check
DISTRIBUTED Kindergarten Room		0.10	04/09/2018	1:05 pm	D	X	X														
RAW Mechanical Room		/	04/09/2018	1:10 pm	R	X															
TREATED Mechanical Room		0.09	04/09/2018	1:15 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): Matthew Kunn	SAMPLED BY (SIGNATURE): <i>Matthew Kunn</i>	DATE/TIME RECEIVED AT LAB: April 10/18 3:12	Other Comments/Cautions (Please identify known or suspected hazards): Quany Tray	CHECK TO LIST ON REPORT
SUBMITTED TO LAB BY (PRINT): Matthew Kunn	SUBMITTED TO LAB BY (SIGNATURE): <i>Matthew Kunn</i>	RECEIVED AT LAB BY: <i>Ku</i>		Chlorine Residual(s)
				Field pH(s)