




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

Date Received: 10-APR-18  
Report Date: 13-APR-18 14:53 (MT)  
Version: FINAL

Client Phone: 807-275-6762

## Certificate of Analysis

Lab Work Order #: L2078049  
Project P.O. #: NOT SUBMITTED  
Job Reference: 260009802  
C of C Numbers:  
Legal Site Desc:

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

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# ANALYTICAL GUIDELINE REPORT

260009802

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits					
Grouping	Analyte						#1	#2				
L2078049-1 ~D1 DISTRIBUTED SENIOR CLASS ROOM Sampled By: MK on 09-APR-18 @ 09:20 Matrix: Distribution							#1	#2				
<b>Bacteriological Tests</b>												
	Escherichia Coli	0		0	MPN/100m L	10-APR-18	0					
	Heterotrophic Plate Count	0		0	CFU/mL	10-APR-18						
	Total Coliforms	0		0	MPN/100m L	10-APR-18	0					
L2078049-2 ~R1 RAW MECHANICAL ROOM Sampled By: MK on 09-APR-18 @ 09:25 Matrix: Raw Water							#1	#2				
<b>Bacteriological Tests</b>												
	Escherichia Coli	0		0	MPN/100m L	10-APR-18	0					
	Total Coliforms	0		0	MPN/100m L	10-APR-18	0					

\*\* 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***
HPC-PP-TB	Water	Heterotrophic Plate Count by Pour Plate	APHA 9215B (modified)
		Heterotrophic Plate Count in aqueous matrices are analyzed using aerobic incubation and pour plate method and incubated for 48 hours.	
HPC-PP-TB	Water	Heterotrophic Plate Count by Pour Plate	APHA 9215D (modified)
		Heterotrophic Plate Count in aqueous matrices are analyzed using aerobic incubation and pour plate method and incubated for 48 hours.	
TC,EC-QT51-TB	Water	Total Coliform and E.coli	APHA 9223 B

This analysis is carried out using procedures adapted from APHA Method 9223 "Enzyme Substrate Coliform Test". E. coli and Total Coliform are determined simultaneously. The sample is mixed with a mixture of hydrolyzable substrates and then sealed in a multi-well packet. The packet is incubated for 18 or 24 hours and then the number of wells exhibiting a positive response are counted. The final result is obtained by comparing the positive responses to a probability table.

TC,EC-QT97-TB	Water	Total Coliform and E.coli	APHA 9223 B
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This analysis is carried out using procedures adapted from APHA Method 9223 "Enzyme Substrate Coliform Test". E. coli and Total Coliform are determined simultaneously. The sample is mixed with a mixture of hydrolyzable substrates and then sealed in a multi-well packet. The packet is incubated for 18 or 24 hours and then the number of wells exhibiting a positive response are counted. The final result is obtained by comparing the positive responses to a probability table.

\*\*\* 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>HPC-PP-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R4009305</b>							
<b>WG2748486-2</b>	<b>DUP</b>	<b>L2078102-4</b>						
Heterotrophic Plate Count		0	0		CFU/mL	0.0	65	10-APR-18
<b>WG2748486-1</b>	<b>MB</b>							
Heterotrophic Plate Count			0		CFU/mL		1	10-APR-18
<b>TC,EC-QT51-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R4008195</b>							
<b>WG2748474-1</b>	<b>MB</b>							
Total Coliforms			0		MPN/100mL		1	10-APR-18
Escherichia Coli			0		MPN/100mL		1	10-APR-18
<b>TC,EC-QT97-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R4008138</b>							
<b>WG2748426-2</b>	<b>DUP</b>	<b>L2077815-4</b>						
Total Coliforms		<10	<10	RPD-NA	MPN/100mL	N/A	65	10-APR-18
Escherichia Coli		<10	<10	RPD-NA	MPN/100mL	N/A	65	10-APR-18
<b>WG2748426-1</b>	<b>MB</b>							
Total Coliforms			0		MPN/100mL		1	10-APR-18
Escherichia Coli			0		MPN/100mL		1	10-APR-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

## 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.



L2078049-COFC

L2078057-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 - Nestor Falls School		School: 807-484-2101 Sherri: 807-275-4979		Please Indicate test for each sample by Checkmark in the box below														L2078049-M				
CLIENT CONTACT NAME		WORKS FAX																SUBMISSION NO.				
Travis Enge		School: 807-484-2222 Admin: 807-274-5078																L2078057-1				
WORKS ADDRESS(physical)		AFTER HOURS PHONE																LOGGED BY				
School Road, Nestor Falls, ON, P0X 1K0		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 8				
WORKS/DWIS/SDWS NUMBER		HEALTH UNIT																TIME				
260009802 / 500124983		Kenora: 807-468-3147/807-468-3914 Fort Frances: 807-274-9827/807-274-0779																1533				
EMAIL:		Requested Service (Circle One)																TEMPERATURE AT RECEIPT (C)				
sherri.belluz@mail.rrdsb.com peter.gardiman@mail.rrdsb.com		Reg <input checked="" type="checkbox"/> Pri (50%) Emerg (100%)																9.4				
SAMPLE DESCRIPTION		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	
(This description will appear on the report)																						
DISTRIBUTED Senior Classroom		0.55	04/09/2018	9:20am	D	X	X															
RAW Mechanical Room			04/09/2018	9:25am	R	X																
TREATED Mechanical Room		0.45	04/09/2018	9:30am	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 Kaur		SAMPLED BY (SIGNATURE): <i>Matthew Kaur</i>		DATE/TIME RECEIVED AT LAB: April 12/18 3:12		Other Comments/Cautions (Please identify known or suspected hazards) Quanty Tray														CHECK TO LIST ON REPORT		
SUBMITTED TO LAB BY (PRINT): Matthew Kaur		SUBMITTED TO LAB BY (SIGNATURE): <i>Matthew Kaur</i>		RECEIVED AT LAB BY: <i>K</i>																Chlorine Residual(s)		
																				Field pH(s)		

MM