



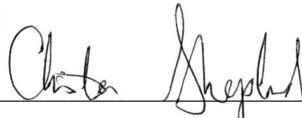
Rainy River District School Board  
ATTN: Rainy River District School Board  
Re: Fort Frances High School  
522 2ND ST EAST  
FORT FRANCES ON P9A 1N4

Date Received: 24-OCT-17  
Report Date: 02-NOV-17 13:23 (MT)  
Version: FINAL

Client Phone: 807-275-6762

## Certificate of Analysis

Lab Work Order #: L2012547  
Project P.O. #: NOT SUBMITTED  
Job Reference: 500045579  
C of C Numbers:  
Legal Site Desc:

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

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# ANALYTICAL GUIDELINE REPORT

500045579

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2012547-3	-P1 MUSIC AREA HALL BOTTLE FILLER FHS 4 1ST FLOOR						#1	#2		
Sampled By: CD on 19-OCT-17 @ 06:25										
Matrix: Plumbing Standing										
<b>Total Metals</b>										
Lead (Pb)-Total		<1.0		1.0	ug/L	01-NOV-17	10			
L2012547-4	-P2 MUSIC AREA HALL BOTTLE FILLER FHS 4 1ST FLOOR						#1	#2		
Sampled By: CD on 19-OCT-17 @ 07:28										
Matrix: Plumbing Flushed										
<b>Total Metals</b>										
Lead (Pb)-Total		<1.0		1.0	ug/L	01-NOV-17	10			
L2012547-5	-P1 SMALL GYM AREA BOTTLE FILLER FHS 6 1ST FLOOR						#1	#2		
Sampled By: CD on 19-OCT-17 @ 06:24										
Matrix: Plumbing Standing										
<b>Total Metals</b>										
Lead (Pb)-Total		<1.0		1.0	ug/L	01-NOV-17	10			
L2012547-6	-P2 SMALL GYM AREA BOTTLE FILLER FHS 6 1ST FLOOR						#1	#2		
Sampled By: CD on 19-OCT-17 @ 07:23										
Matrix: Plumbing Flushed										
<b>Total Metals</b>										
Lead (Pb)-Total		<1.0		1.0	ug/L	01-NOV-17	10			
L2012547-7	-P1 WEST HALL CENTRE BOTTLE FILLER FHS 12 1ST FLOOR						#1	#2		
Sampled By: CD on 19-OCT-17 @ 06:22										
Matrix: Plumbing Standing										
<b>Total Metals</b>										
Lead (Pb)-Total		<1.0		1.0	ug/L	01-NOV-17	10			
L2012547-8	-P2 WEST HALL CENTRE BOTTLE FILLER FHS 12 1ST FLOOR						#1	#2		
Sampled By: CD on 19-OCT-17 @ 07:18										
Matrix: Plumbing Flushed										
<b>Total Metals</b>										
Lead (Pb)-Total		<1.0		1.0	ug/L	01-NOV-17	10			
L2012547-11	-P1 NORTH HALL EAST BOTTLE FILLER FHS 21 1ST FLOOR						#1	#2		
Sampled By: CD on 19-OCT-17 @ 06:20										
Matrix: Plumbing Standing										
<b>Total Metals</b>										
Lead (Pb)-Total		<1.0		1.0	ug/L	01-NOV-17	10			
L2012547-12	-P2 NORTH HALL EAST BOTTLE FILLER FHS 21 1ST FLOOR						#1	#2		
Sampled By: CD on 19-OCT-17 @ 07:12										
Matrix: Plumbing Flushed										
<b>Total Metals</b>										
Lead (Pb)-Total		<1.0		1.0	ug/L	01-NOV-17	10			

\*\* 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***
MET-DW-MS-TB	Water	Drinking Water Metals	APHA 3030E/EPA 6020A

Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

\*\*\* 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.*



Environmental

### Quality Control Report

Workorder: L2012547

Report Date: 02-NOV-17

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Client: Rainy River District School Board  
Re: Fort Frances High School 522 2ND ST EAST  
FORT FRANCES ON P9A 1N4

Contact: Rainy River District School Board

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>MET-DW-MS-TB</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R3872467</b>							
<b>WG2653958-7</b>	<b>DUP</b>	<b>L2012547-12</b>						
Lead (Pb)-Total		<1.0	<1.0	RPD-NA	ug/L	N/A	20	01-NOV-17
<b>WG2653958-6</b>	<b>LCS</b>							
Lead (Pb)-Total			101.2		%		80-120	01-NOV-17
<b>WG2653958-5</b>	<b>MB</b>							
Lead (Pb)-Total			<1.0		ug/L		1	01-NOV-17
<b>WG2653958-8</b>	<b>MS</b>	<b>L2012547-12</b>						
Lead (Pb)-Total			93.4		%		70-130	01-NOV-17

# Quality Control Report

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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
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
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.



L2012547-COFC

ALS Thunder Bay... 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 - Fort Frances High School	WORKS PHONE School: 807-274-7747 Sherri: 807-275-4979	ANALYSES REQUESTED													FOR LAB USE ONLY					
		Please indicate test for each sample by Checkmark in the box below													SUBMISSION NO. L2012547	LOGGED BY LS	DATE 10/25/17			
CLIENT CONTACT NAME Travis Enge	WORKS FAX School: 807-274-5171 Admin: 807-274-5078	AFTER HOURS PHONE Peter: 807-275-6762 Travis: 807-276-4733	HEALTH UNIT NWDHU	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
WORKS ADDRESS(physical) 440 McIrvine Road, Fort Frances, ON, P9A 3T8	HEALTH UNIT Kenora: 807-468-3147/807-468-3914 PHONE/FAX Fort Frances: 807-274-9827/807-274-0779	Requested Service (Circle One) <input checked="" type="checkbox"/> Reg <input type="checkbox"/> Pri (50%) <input type="checkbox"/> Emerg (100%)	Chlorine Residual mg/L		Sample Date	Sample Time	pH <2	Volume 1L	Time Check											
6 Theatre hall fountain (FHS 1)				PS										X				✓	X	JTR
Theatre hall fountain (FHS 1)				PF										X				✓	-	JTR
5 Music area hall bottle filler (FHS 4) 1st floor				PS										X				✓	-	JTR
Music area hall bottle filler (FHS 4) 1st floor				PF										X				✓	-	JTR
4 Small gym area bottle filler (FHS 6) 1st floor				PS										X				✓	-	JTR
Small gym area bottle filler (FHS 6) 1st floor				PF										X				✓	-	JTR
3 West hall centre bottle filler (FHS 12) 1st floor				PS										X				✓	-	JTR
West hall centre bottle filler (FHS 12) 1st floor				PF										X				✓	-	JTR
1 West hall North bottle filler (FHS 14) 1st floor				PS										X				✓	X	JTR
West hall North bottle filler (FHS 14) 1st floor				PF										X				✓	-	JTR
2 North hall East bottle filler (FHS 21) 1st floor				PS										X				✓	X	JTR
North hall East bottle filler (FHS 21) 1st floor				PF										X				✓	-	JTR

\* 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): <i>Charles Deschamps</i>	DATE/TIME RECEIVED AT LAB: 10/24/17 13:45	Other Comments/Cautions (Please identify known or suspected hazards)	CHECK TO LIST ON REPORT	
SUBMITTED TO LAB BY (PRINT): CHARLES DESCHAMPS	SUBMITTED TO LAB BY (SIGNATURE): <i>Charles Deschamps</i>	RECEIVED AT LAB BY: LS		Chlorine Residual(s)	
				Field pH(s)	