




Rainy River District School Board
ATTN: Rainy River District School Board
Re: Robert Moore 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 #: L2012390
Project P.O. #: NOT SUBMITTED
Job Reference: 500045592
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

500045592

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
Grouping	Analyte									
L2012390-1	~P1 KINDERGARTEN ROOM 158 FOUNTAIN	RMS 1					#1	#2		
Sampled By: CD on 17-OCT-17 @ 06:10										
Matrix: Plumbing Standing										
Total Metals										
Lead (Pb)-Total		<1.0		1.0	ug/L	01-NOV-17	10			
L2012390-2	~P2 KINDERGARTEN ROOM 158 FOUNTAIN	RMS 1					#1	#2		
Sampled By: CD on 17-OCT-17 @ 07:05										
Matrix: Plumbing Flushed										
Total Metals										
Lead (Pb)-Total		<1.0		1.0	ug/L	01-NOV-17	10			
L2012390-3	~P1 KINDERGARTEN ROOM 157 FOUNTAIN	RMS 2					#1	#2		
Sampled By: CD on 17-OCT-17 @ 06:12										
Matrix: Plumbing Standing										
Total Metals										
Lead (Pb)-Total		<1.0		1.0	ug/L	01-NOV-17	10			
L2012390-4	~P2 KINDERGARTEN ROOM 157 FOUNTAIN	RMS 2					#1	#2		
Sampled By: CD on 17-OCT-17 @ 07:06										
Matrix: Plumbing Flushed										
Total Metals										
Lead (Pb)-Total		<1.0		1.0	ug/L	01-NOV-17	10			
L2012390-5	~P1 KINDERGARTEN ROOM 150 FOUNTAIN	RMS 3					#1	#2		
Sampled By: CD on 17-OCT-17 @ 06:15										
Matrix: Plumbing Standing										
Total Metals										
Lead (Pb)-Total		<1.0		1.0	ug/L	01-NOV-17	10			
L2012390-6	~P2 KINDERGARTEN ROOM 150 FOUNTAIN	RMS 3					#1	#2		
Sampled By: CD on 17-OCT-17 @ 07:06										
Matrix: Plumbing Flushed										
Total Metals										
Lead (Pb)-Total		<1.0		1.0	ug/L	01-NOV-17	10			
L2012390-7	~P1 KINDERGARTEN ROOM 149 FOUNTAIN	RMS 4					#1	#2		
Sampled By: CD on 17-OCT-17 @ 06:17										
Matrix: Plumbing Standing										
Total Metals										
Lead (Pb)-Total		<1.0		1.0	ug/L	01-NOV-17	10			
L2012390-8	~P2 KINDERGARTEN ROOM 149 FOUNTAIN	RMS 4					#1	#2		
Sampled By: CD on 17-OCT-17 @ 07:07										
Matrix: Plumbing Flushed										
Total Metals										
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



ANALYTICAL GUIDELINE REPORT

500045592

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits							
Grouping	Analyte						#1	#2						
L2012390-9	-P1 1ST FLOOR WEST HALL BOTTLE FILLER RMS 9													
Sampled By: CD on 17-OCT-17 @ 06:18														
Matrix: Plumbing Standing														
Total Metals														
Lead (Pb)-Total		<1.0		1.0	ug/L	01-NOV-17	10							
L2012390-10	-P2 1ST FLOOR WEST HALL BOTTLE FILLER RMS 9													
Sampled By: CD on 17-OCT-17 @ 07:10														
Matrix: Plumbing Flushed														
Total Metals														
Lead (Pb)-Total		<1.0		1.0	ug/L	01-NOV-17	10							
L2012390-11	-P1 2ND FLOOR WEST HALL BOTTLE FILLER RMS 11													
Sampled By: CD on 17-OCT-17 @ 06:20														
Matrix: Plumbing Standing														
Total Metals														
Lead (Pb)-Total		<1.0		1.0	ug/L	01-NOV-17	10							
L2012390-12	-P2 2ND FLOOR WEST HALL BOTTLE FILLER RMS 11													
Sampled By: CD on 17-OCT-17 @ 07:11														
Matrix: Plumbing Flushed														
Total Metals														
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: L2012390

Report Date: 02-NOV-17

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Client: Rainy River District School Board
Re: Robert Moore 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
MET-DW-MS-TB								
	Water							
Batch	R3872467							
WG2653958-3	DUP	L2012390-10						
Lead (Pb)-Total		<1.0	<1.0	RPD-NA	ug/L	N/A	20	01-NOV-17
WG2653958-7	DUP	L2012547-12						
Lead (Pb)-Total		<1.0	<1.0	RPD-NA	ug/L	N/A	20	01-NOV-17
WG2653958-2	LCS							
Lead (Pb)-Total			97.1		%		80-120	01-NOV-17
WG2653958-6	LCS							
Lead (Pb)-Total			101.2		%		80-120	01-NOV-17
WG2653958-1	MB							
Lead (Pb)-Total			<1.0		ug/L		1	01-NOV-17
WG2653958-5	MB							
Lead (Pb)-Total			<1.0		ug/L		1	01-NOV-17
WG2653958-4	MS	L2012390-10						
Lead (Pb)-Total			93.9		%		70-130	01-NOV-17
WG2653958-8	MS	L2012547-12						
Lead (Pb)-Total			93.4		%		70-130	01-NOV-17

Quality Control Report

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Contact: Rainy River District School Board

Legend:

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:

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.

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.

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.



L2012390-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 - Robert Moore School		School: 807-274-9818 Sherril: 807-275-4979		Please indicate test for each sample by Checkmark in the box below												SUBMISSION NO. L2012390					
CLIENT CONTACT NAME		WORKS FAX		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	LOGGED BY SD				
Travis Enge		School: 807-274-3831 Admin: 807-274-5078															DATE Oct. 24 / 2017				
WORKS ADDRESS(physical)		AFTER HOURS PHONE														TIME 6:12					
528 Second St. East, Fort Frances, ON, P9A 1N4		Peter: 807-275-6762 Travis: 807-276-4733														TEMPERATURE AT RECEIPT (C) 4.5					
REPORTING ADDRESS		HEALTH UNIT														pH <2					
522 Second St. E., Fort Frances, ON, P9A 1N4		NWDHU														Volume lL					
WORKS/DWIS/SDWS NUMBER		HEALTH UNIT														Time Check					
500045592		Kenora: 807-468-3147/807-468-3914 Fort Frances: 807-274-9827/807-274-0779																			
EMAIL: sherril.belluz@mail.rrdsb.com peter.gardiman@mail.rrdsb.com		Requested Service (Circle One)																			
		Reg <input checked="" type="checkbox"/> Pri (50%) Emerg (100%)																			
SAMPLE DESCRIPTION		Chlorine Residual mg/L	Sample Date	Sample Time	Regulated Sample Type (R, T, D, P, PS, PF)																
(This description will appear on the report)																					
4	Kindergarten room 158 fountain (RMS 1)	/	Oct 17/17	6:10 AM	PS													X	✓	✓	JTR
	Kindergarten room 158 fountain (RMS 1)	/	Oct 17/17	7:05 AM	PF													X	✓	✓	JTR
3	Kindergarten room 157 fountain (RMS 2)	/	Oct 17/17	6:12 AM	PS													X	✓	✓	JTR
	Kindergarten room 157 fountain (RMS 2)	/	Oct 17/17	7:06 AM	PF													X	✓	✓	JTR
2	Kindergarten room 150 fountain (RMS 3)	/	Oct 17/17	6:15 AM	PS													X	✓	✓	JTR
	Kindergarten room 150 fountain (RMS 3)	/	Oct 17/17	7:06 AM	PF													X	✓	✓	JTR
1	Kindergarten room 149 fountain (RMS 4)	/	Oct 17/17	6:17 AM	PS													X	✓	✓	JTR
	Kindergarten room 149 fountain (RMS 4)	/	Oct 17/17	7:07 AM	PF													X	✓	✓	JTR
5	1st floor West hall bottle filler (RMS 9)	/	Oct 17/17	6:18 AM	PS													X	✓	✓	JTR
	1st floor West hall bottle filler (RMS 9)	/	Oct 17/17	7:10 AM	PF													X	✓	✓	JTR
6	2nd floor West hall bottle filler (RMS 11)	/	Oct 17/17	6:20 AM	PS													X	✓	✓	JTR
	2nd floor West hall bottle filler (RMS 11)	/	Oct 17/17	7:11 AM	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 BESCHMANS	SAMPLED BY (SIGNATURE): <i>Charles Beschmans</i>	DATE/TIME RECEIVED AT LAB: 10/24/17 13:50	Other Comments/Cautions (Please identify known or suspected hazards)	CHECK TO LIST ON REPORT
SUBMITTED TO LAB BY (PRINT): CHARLES BESCHMANS	SUBMITTED TO LAB BY (SIGNATURE): <i>Charles Beschmans</i>	RECEIVED AT LAB BY: U		Chlorine Residual(s)
				Field pH(s)