




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

Date Received: 11-OCT-17
Report Date: 17-OCT-17 10:34 (MT)
Version: FINAL

Client Phone: 807-275-6762

Certificate of Analysis

Lab Work Order #: L2005329
Project P.O. #: MINE CENTRE
Job Reference: 260015002
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

260015002

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits						
Grouping	Analyte						#1	#2					
L2005329-1 ~R1 1 MECHANICAL RM RAW Sampled By: CG on 10-OCT-17 @ 09:30 Matrix: RAW WATER							#1	#2					
Bacteriological Tests													
Escherichia Coli		0		0	MPN/100m L	11-OCT-17	0						
Total Coliforms		0		0	MPN/100m L	11-OCT-17	0						
L2005329-2 ~D1 2 KINDERGARTEN RM DIST Sampled By: CG on 10-OCT-17 @ 09:35 Matrix: DISTRIBUTION							#1	#2					
Bacteriological Tests													
Escherichia Coli		0		0	MPN/100m L	11-OCT-17	0						
Heterotrophic Plate Count		98		0	CFU/mL	11-OCT-17							
Total Coliforms		0		0	MPN/100m L	11-OCT-17	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.1,2017 = [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***
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

Workorder: L2005329

Report Date: 17-OCT-17

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

Contact: Travis Enge

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HPC-PP-TB								
	Water							
Batch	R3854131							
WG2636900-2	DUP	L2005329-2						
Heterotrophic Plate Count		98	120		CFU/mL	20	65	11-OCT-17
WG2636900-1	MB							
Heterotrophic Plate Count			0		CFU/mL		1	11-OCT-17
TC,EC-QT51-TB								
	Water							
Batch	R3852659							
WG2636819-1	MB							
Total Coliforms			0		MPN/100mL		1	11-OCT-17
Escherichia Coli			0		MPN/100mL		1	11-OCT-17
TC,EC-QT97-TB								
	Water							
Batch	R3852856							
WG2637016-2	DUP	L2005416-3						
Total Coliforms		199	142		MPN/100mL	33	65	11-OCT-17
Escherichia Coli		13	9		MPN/100mL	36	65	11-OCT-17
WG2637016-1	MB							
Total Coliforms			0		MPN/100mL		1	11-OCT-17
Escherichia Coli			0		MPN/100mL		1	11-OCT-17

Quality Control Report

Workorder: L2005329

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

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Contact: Travis Enge

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

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.



L2005329-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: Mine Centre School R.R.D.S.B		WORKS PHONE: 507-544-2347		ANALYSIS REQUESTED										FOR LAB USE ONLY		
WORKS ADDRESS (physical): 4123 Mine Centre Rd. Box 123 Mine Centre ON, POW 1H0		WORKS FAX: 507-544-4911		Please indicate test for each sample by Checkmark in the box below										SUBMISSION NO: L2005329		
REPORTING ADDRESS: 522 Second St. East, Fort Frances ON P9A 1N4		ALTER TOURS PHONE: Peter 507-275-0102												COLLECTED BY: KW		
WORKS/DWIS/SDWS NUMBER: 260015002		ALTER TOURS FAX: 507-468-3147												DATE/TIME: Oct 11/17 3:34		
EMAIL: sherronbell@meil.crestib.com		ALTER TOURS: N.W.D.H.H.												TEMPERATURE AT RECEIPT: 8.4		
SAMPLE DESCRIPTION: (This description will appear on the report)		Requested Service (Circle One): PERSON Emergency (1108)												pH		
		Regulated Sample Type* (R, D, P, PS, PF)												Volume (L)		
		Chlorine Residual (mg/L)												Turbidity		
		Sample Date												Lead		
		Sample Time												Alkalinity		
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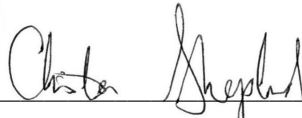
Rainy River District School Board
ATTN: Travis Enge
RE: MINE CENTRE
522 2ND ST EAST
FORT FRANCES ON P9A 1N4

Date Received: 19-OCT-17
Report Date: 24-OCT-17 09:03 (MT)
Version: FINAL

Client Phone: 807-275-6762

Certificate of Analysis

Lab Work Order #: L2009792
Project P.O. #: MINE CENTRE
Job Reference: 260015002
C of C Numbers:
Legal Site Desc:



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Account Manager

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ANALYTICAL GUIDELINE REPORT

260015002

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits							
Grouping	Analyte						#1	#2						
L2009792-2 -D1 KINDERGARDEN RM DIST														
Sampled By: CG on 18-OCT-17 @ 07:30														
Matrix: DISTRIBUTION														
Bacteriological Tests														
Escherichia Coli		0		0	MPN/100m L	19-OCT-17	0							
Heterotrophic Plate Count		10		0	CFU/mL	19-OCT-17								
Total Coliforms		0		0	MPN/100m L	19-OCT-17	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.1,2017 = [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***
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		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.

*** 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:

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D.L. - The reporting limit.

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FORT FRANCES ON P9A 1N4

Contact: Travis Enge

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HPC-PP-TB								
	Water							
Batch	R3862529							
WG2644057-2	DUP	L2009733-2						
Heterotrophic Plate Count		5	3		CFU/mL	50	65	19-OCT-17
WG2644057-1	MB							
Heterotrophic Plate Count			0		CFU/mL		1	19-OCT-17
TC,EC-QT51-TB								
	Water							
Batch	R3860420							
WG2644056-1	MB							
Total Coliforms			0		MPN/100mL		1	19-OCT-17
Escherichia Coli			0		MPN/100mL		1	19-OCT-17

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FORT FRANCES ON P9A 1N4

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
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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.

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