



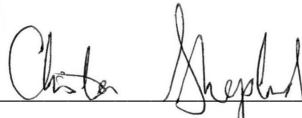
Rainy River District School Board
ATTN: Travis Enge
RE: Mine Centre
522 2ND ST EAST
FORT FRANCES ON P9A 1N4

Date Received: 03-MAY-18
Report Date: 07-MAY-18 14:53 (MT)
Version: FINAL

Client Phone: 807-275-6762

Certificate of Analysis

Lab Work Order #: L2088783
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						
L2088783-1	-E1 3 MECHANICAL RM VALVE	26 TREATED	SOURCE											
Sampled By: CG on 02-MAY-18 @ 08:30														
Matrix: TREATED WATER														
Anions and Nutrients														
Nitrate and Nitrite as N		<0.040		0.040	mg/L	07-MAY-18	10.0							
Nitrate (as N)		<0.020		0.020	mg/L	06-MAY-18	10							
Nitrite (as N)		<0.010		0.010	mg/L	06-MAY-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: L2088783

Report Date: 07-MAY-18

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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
NO2-DW-IC-TB		Water						
Batch	R4034055							
WG2765732-3	DUP	L2088922-1						
Nitrite (as N)		<0.010	<0.010	RPD-NA	mg/L	N/A	20	06-MAY-18
WG2765732-2	LCS							
Nitrite (as N)			102.8		%		90-110	06-MAY-18
WG2765732-1	MB							
Nitrite (as N)			<0.010		mg/L		0.01	06-MAY-18
WG2765732-4	MS	L2088938-1						
Nitrite (as N)			101.3		%		75-125	06-MAY-18
NO3-DW-IC-TB		Water						
Batch	R4034055							
WG2765732-3	DUP	L2088922-1						
Nitrate (as N)		0.089	0.088		mg/L	0.8	20	06-MAY-18
WG2765732-2	LCS							
Nitrate (as N)			101.2		%		90-110	06-MAY-18
WG2765732-1	MB							
Nitrate (as N)			<0.020		mg/L		0.02	06-MAY-18
WG2765732-4	MS	L2088938-1						
Nitrate (as N)			107.8		%		75-125	06-MAY-18

Quality Control Report

Workorder: L2088783

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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

Sample Parameter Qualifier Definitions:

Qualifier	Description
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.



L2088783-COFC



L2088789-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 (sample from an adverse water quality incident? Yes No

At 5 Thunder Bay, 1081 Patton Street, Thunder Bay, ON P7R 5P3
Ph: 807-623-6463 Fax: 807-623-7598 Toll-Free: 1-800-668-9878

WORKS NAME RRDSB - Mine Centre School		WORKS PHONE School: 807-599-2843 Shop: 807-275-4979		ANALYSIS REQUESTED Please indicate test for each sample by Checkmark in the box below										FOR LAB USE ONLY SUBMISSION NO. L2088783-M							
CLIENT CONTACT NAME Travis Enge		WORKS FAX School: 807-599-9911 Admin: 807-274-5078												SUBMISSION NO. L2088789-M							
WORKS ADDRESS (physical) 123 Mine Centre Road, Mine Centre, ON, P0W 1H0		AFTER HOURS PHONE Peter: 807-275-6762 Travis: 807-276-4733												LOGGED BY MM							
REPORTING ADDRESS 522 Second St. E., Fort Frances, ON, P9A 1N4		HEALTH UNIT NWDHU												DATE 3 May 18							
WORKS/TIWS/SIWS NUMBER 260015002		HEALTH UNIT Lenora: 807-468-3147/807-468-3914 PIONEER/FAX Fort Frances: 807-274-9829/807-274-0779												TIME 1522							
EMAIL: sheri.belkiza@mail.rrdsh.com peter.gardiman@mail.rrdsh.com		Requested Service (Circle One) <input checked="" type="radio"/> Reg <input type="radio"/> Ti (50%) <input type="radio"/> Emorg (100%)												TEMPERATURE AT RECEIPT (C) 9.6							
SAMPLE DESCRIPTION (This description will appear on the report)		Regulated Sample Type* (R, T, D, P, PS, PF)												pH							
		Chlorine Residual (mg/L)	Sample Date	Sample Time		Total Calcium (Ca) (ppm)	Hardness (ppm)	Nitrate (Nitrite)	T-N (Max. Res. Time)	Sched 23 Inorganics	Sched 24 Organics	Sodium	Fluoride	Turbidity	Lead	Alkalinity	Other	Field pH	pH	Volume (L)	Time Check
#1 mechanical Rm. RAW.		N/A	MAY 2/18	8:25AM	R	X															
#2 Kindergarten Rm. Dist.		N/A	MAY 2/18	8:35AM	D	X	X														
#3 mechanical Rm Valve #26		N/A	MAY 2/18	8:30AM	T			X													
Treated Source																					
SAMPLED BY (PRINT) C. Gustafson		SAMPLED BY (SIGNATURE) <i>C. Gustafson</i>		DATE/TIME RECEIVED AT LAB 2018 May 3 2:03		OTHER COMMENTS/REMARKS (Please identify known or suspected hazards)										CHECK TO LIST ON REPORT Chlorine (check/initials)					
SUBMITTED TO LAB BY (PRINT) C. Gustafson		SUBMITTED TO LAB BY (SIGNATURE) <i>C. Gustafson</i>		RECEIVED AT LAB BY <i>[Signature]</i>												Field pH(s)					

MM
MM