



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

Date Received: 29-JUL-16
Report Date: 08-AUG-16 12:46 (MT)
Version: FINAL

Client Phone: 807-275-6762

Certificate of Analysis

Lab Work Order #: L1806407
Project P.O. #: NOT SUBMITTED
Job Reference: 500001145
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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CRITERIA REPORT

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500001145

| Sample Details/Parameters | Result | Qualifier | D.L. | Units | Criteria Specific Limits | Analyzed | Batch |
|---|--------|-----------|------|-------|---------------------------|-----------|----------|
| L1806407-1 ~P1 BOTTLE NO 1 RM 30 Sampled By: TD on 18-JUN-16 @ 05:45 Matrix: Plumbing Standing Lead per Ont. DW Regulation 243 Lead (Pb)-Total | 1.0 | | 1.0 | ug/L | ON-DWSTANDARD <hr/> 10 | 07-AUG-16 | R3519632 |
| L1806407-2 ~P2 BOTTLE NO 2 RM 30 Sampled By: TD on 18-JUN-16 @ 06:20 Matrix: Plumbing Flushed Lead per Ont. DW Regulation 243 Lead (Pb)-Total | 5.1 | | 1.0 | ug/L | ON-DWSTANDARD <hr/> 10 | 07-AUG-16 | R3519632 |
| | | | | | | | |

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Reference Information

500001145

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Methods Listed (if applicable):

| ALS Test Code | Matrix | Test Description | Preparation Method Reference(Based On) | Analytical Method Reference(Based On) |
|---------------|--------|-----------------------|--|---------------------------------------|
| MET-DW-MS-TB | Water | Drinking Water Metals | | APHA 3030E/EPA 6020A |

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

Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

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 criteria limits 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

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| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------|-----------------|-------------------|--------|-----------|-------|-----|--------|-----------|
| MET-DW-MS-TB | | | | | | | | |
| | Water | | | | | | | |
| Batch | R3519632 | | | | | | | |
| WG2360746-12 | DUP | L1806371-2 | | | | | | |
| Lead (Pb)-Total | | <1.0 | <1.0 | RPD-NA | ug/L | N/A | 20 | 07-AUG-16 |
| WG2360746-10 | LCS | | | | | | | |
| Lead (Pb)-Total | | | 106.8 | | % | | 80-120 | 07-AUG-16 |
| WG2360746-9 | MB | | | | | | | |
| Lead (Pb)-Total | | | <1.0 | | ug/L | | 1 | 07-AUG-16 |
| WG2360746-11 | MS | L1806371-2 | | | | | | |
| Lead (Pb)-Total | | | 106.0 | | % | | 70-130 | 07-AUG-16 |

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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.

