



CERTIFICATE OF ANALYSIS

Client: Mark Bocy
Company: RDSB - Charles C. McLean Public School
Address: 69 Young St
Sudbury, ON, P3E 3G5
Phone/Fax: (705) 690-0323 / (705) 671-2442
Email: bocym@rainbowschools.ca;
lavallm@rainbowschools.ca

Work Order Number: 309089
PO #:
Regulation: O.Reg. 243/07
Project #:
DWS #: 500039105
Sampled By: Richard P

Date Order Received: 6/20/2017
Arrival Temperature: 17 °C

Analysis Started: 6/23/2017
Analysis Completed: 6/26/2017

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
A (Standing)	889144	Water	Plumbing		6/20/2017	7:00 AM
A (Flushed)	889145	Water	Plumbing		6/20/2017	7:35 AM
21A (Standing)	889146	Water	Plumbing		6/20/2017	7:02 AM
21A (Flushed)	889147	Water	Plumbing		6/20/2017	7:37 AM
18A (Standing)	889148	Water	Plumbing		6/20/2017	7:04 AM
18A (Flushed)	889149	Water	Plumbing		6/20/2017	7:39 AM
C (Standing)	889150	Water	Plumbing		6/20/2017	7:06 AM
C (Flushed)	889151	Water	Plumbing		6/20/2017	7:41 AM
9 (Standing)	889152	Water	Plumbing		6/20/2017	7:08 AM
9 (Flushed)	889153	Water	Plumbing		6/20/2017	7:43 AM
E (Standing)	889154	Water	Plumbing		6/20/2017	7:10 AM
E (Flushed)	889155	Water	Plumbing		6/20/2017	7:45 AM
3 (Standing)	889156	Water	Plumbing		6/20/2017	7:12 AM
3 (Flushed)	889157	Water	Plumbing		6/20/2017	7:47 AM
36 (Standing)	889158	Water	Plumbing		6/20/2017	7:14 AM
36 (Flushed)	889159	Water	Plumbing		6/20/2017	7:49 AM

METHODS AND INSTRUMENTATION



TESTMARK Laboratories Ltd.

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THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
ICPMS Reg. Water	Garson	Determination of Metals in Water by ICP/MS	Based on SW846-6020A

REPORT COMMENTS

Estimated Standing Time 10 HRS

This report has been approved by:

Khaled Omari, Ph.D.
Laboratory Director



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WORK ORDER RESULTS

Sample Description	A (Standing)		A (Flushed)		21A (Standing)		21A (Flushed)		Units	Criteria: O.Reg. 243/07
Lab ID	889144		889145		889146		889147			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL		
Lead	2.74	0.1	1.88	0.1	1.42	0.1	0.59	0.1	ug/L	10
Sample Description	18A (Standing)		18A (Flushed)		C (Standing)		C (Flushed)		Units	Criteria: O.Reg. 243/07
Lab ID	889148		889149		889150		889151			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL		
Lead	1.27	0.1	0.66	0.1	<0.1	0.1	<0.1	0.1	ug/L	10
Sample Description	9 (Standing)		9 (Flushed)		E (Standing)		E (Flushed)		Units	Criteria: O.Reg. 243/07
Lab ID	889152		889153		889154		889155			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL		
Lead	5.31	0.1	1.7	0.1	0.68 [0.68]	0.1	0.4	0.1	ug/L	10
Sample Description	3 (Standing)		3 (Flushed)		36 (Standing)		36 (Flushed)		Units	Criteria: O.Reg. 243/07
Lab ID	889156		889157		889158		889159			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL		
Lead	0.34	0.1	0.26	0.1	6.39	0.1	5.07	0.1	ug/L	10



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LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

MDL: Method detection limit or minimum reporting limit.

[]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

Quality Control: All associated Quality Control data is available on request.

LCL: Lower Control Limit.

UCL: Upper Control Limit.

QAQCID: This is a unique reference to the quality control data set used to generate the reported value. Contact our lab for this information, as it is traceable through our LIMS.



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QUALITY CONTROL DATA

THIS SECTION REPORTS QC RESULTS ASSOCIATED WITH THE TEST BATCH; THESE ARE NOT YOUR SAMPLE RESULTS.
QAQC details include only values where sufficient sample data allowed measurement.

Metals							
%RPD							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	N/A	%	0	1.2	20	20170625.R13-5o1	
Method Blank							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	1	ug/L	0	<1	1	20170625.R13-5o1	
Lead	1	ug/L	0	<1	1	20170625.R13-5o2	
Positive Control							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	N/A	%	80	94	120	20170625.R13-5o2	
Lead	N/A	%	80	94.5	120	20170625.R13-5o1	
Reference Sample							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	N/A	% Rec	80	100	120	20170625.R13-5o2	
Lead	N/A	% Rec	80	101	120	20170625.R13-5o1	
Sample Spike							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	N/A	% Rec	70	88.7	130	20170625.R13-5o2	
Lead	N/A	% Rec	70	92.1	130	20170625.R13-5o1	



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THIS INDEX SHOWS HOW YOUR SAMPLES ARE ASSOCIATED TO THE CONTROLS INCLUDED IN THE IDENTIFIED BATCHES.

Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
18A (Flushed)	889149	ICPMS Reg. Water	20170625.R13-5o1	20170623.R52Q
18A (Standing)	889148	ICPMS Reg. Water	20170625.R13-5o1	20170623.R52Q
21A (Flushed)	889147	ICPMS Reg. Water	20170625.R13-5o1	20170623.R52Q
21A (Standing)	889146	ICPMS Reg. Water	20170625.R13-5o1	20170623.R52Q
3 (Flushed)	889157	ICPMS Reg. Water	20170625.R13-5o2	20170623.R52R
3 (Standing)	889156	ICPMS Reg. Water	20170625.R13-5o2	20170623.R52R
36 (Flushed)	889159	ICPMS Reg. Water	20170625.R13-5o2	20170623.R52R
36 (Standing)	889158	ICPMS Reg. Water	20170625.R13-5o2	20170623.R52R
9 (Flushed)	889153	ICPMS Reg. Water	20170625.R13-5o1	20170623.R52Q
9 (Standing)	889152	ICPMS Reg. Water	20170625.R13-5o1	20170623.R52Q
A (Flushed)	889145	ICPMS Reg. Water	20170625.R13-5o1	20170623.R52Q
A (Standing)	889144	ICPMS Reg. Water	20170625.R13-5o1	20170623.R52Q
C (Flushed)	889151	ICPMS Reg. Water	20170625.R13-5o1	20170623.R52Q
C (Standing)	889150	ICPMS Reg. Water	20170625.R13-5o1	20170623.R52Q
E (Flushed)	889155	ICPMS Reg. Water	20170625.R13-5o2	20170623.R52R
E (Standing)	889154	ICPMS Reg. Water	20170625.R13-5o2	20170623.R52R
E (Standing)	889154r	ICPMS Reg. Water	20170625.R13-5o2	20170623.R52R