



CERTIFICATE OF ANALYSIS

Client:	Steve McCulloch	Work Order Number:	375562
Company:	RDSB - Lively District Secondary School	PO #:	
Address:	69 Young St. Sudbury, ON, P3E 3G5	Regulation:	O.Reg. 243/07
Phone/Fax:	(705) 674-3171 / (705) 761-2442	Project #:	
Email:	mcculls@rainbowschools.ca	DWS #:	500141350
		Sampled By:	Steve McCulloch
Date Order Received:	6/19/2019	Analysis Started:	6/27/2019
Arrival Temperature:	12 °C	Analysis Completed:	6/28/2019

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
2 Football Standing	1449935	Water	Plumbing		6/19/2019	8:20 AM
2 Football Flushed	1449936	Water	Plumbing		6/19/2019	8:55 AM
B tb 109 Standing	1449937	Water	Plumbing		6/19/2019	6:19 AM
B tb 109 Flushed	1449938	Water	Plumbing		6/19/2019	6:44 AM
H-FB125 F Standing	1449939	Water	Plumbing		6/19/2019	6:41 AM
H-FB125 F Flushed	1449940	Water	Plumbing		6/19/2019	7:16 AM
E-FB130F Standing	1449941	Water	Plumbing		6/19/2019	6:35 AM
E-FB130F Flushed	1449942	Water	Plumbing		6/19/2019	7:10 AM
135A Standing	1449943	Water	Plumbing		6/19/2019	6:59 AM
135A Flushed	1449944	Water	Plumbing		6/19/2019	7:34 AM
117A Standing	1449945	Water	Plumbing		6/19/2019	6:28 AM
117A Flushed	1449946	Water	Plumbing		6/19/2019	7:03 AM
C-7&8 Lower Standing	1449947	Water	Plumbing		6/19/2019	7:19 AM
C-7&8 Lower Flushed	1449948	Water	Plumbing		6/19/2019	7:54 AM
FB 224 Middle Standing	1449949	Water	Plumbing		6/19/2019	7:31 AM
FB 224 Middle Flushed	1449950	Water	Plumbing		6/19/2019	8:06 AM



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Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
K-117 Standing	1450254	Water	Plumbing		6/19/2019	6:29 AM
K-117 Flushed	1450255	Water	Plumbing		6/19/2019	7:04 AM

METHODS AND INSTRUMENTATION

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

Method	Lab	Description	Reference
ICPMS Reg. Water (A13)	Garson	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A

This report has been approved by:

Mark Charbonneau, Ph.D.
Laboratory Director



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WORK ORDER RESULTS

Sample Description	2 Football Standing		2 Football Flushed		B tb 109 Standing		B tb 109 Flushed			
Lab ID	1449935		1449936		1449937		1449938			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	1.2 [1.2]	0.1	1.6	0.1	0.7	0.1	0.9	0.1	ug/L	10
Sample Description	H - FB125 F Standing		H - FB125 F Flushed		E - FB130F Standing		E - FB130F Flushed			
Lab ID	1449939		1449940		1449941		1449942			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	2	0.1	1.1	0.1	2.7	0.1	3.3	0.1	ug/L	10
Sample Description	135A Standing		135A Flushed		117A Standing		117A Flushed			
Lab ID	1449943		1449944		1449945		1449946			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.8	0.1	0.8	0.1	<0.1	0.1	<0.1	0.1	ug/L	10
Sample Description	C - 7&8 Lower Standing		C - 7&8 Lower Flushed		FB 224 Middle Standing		FB 224 Middle Flushed			
Lab ID	1449947		1449948		1449949		1449950			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.5	0.1	0.5	0.1	0.6	0.1	0.7	0.1	ug/L	10
Sample Description	K - 117 Standing		K - 117 Flushed							
Lab ID	1450254		1450255							
Metals	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07				
Lead	0.3	0.1	0.3	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.

Exceedences: HIGHLIGHTED CELLS INDICATE THAT THE RESULT EXCEEDS A REGULATORY LIMIT. CALCULATED UNCERTAINTY ESTIMATIONS ARE NOT APPLIED FOR DETERMINING SAMPLE EXCEEDANCES.

Benzo(b)fluoranthene: Results for benzo(b)fluoranthene may include contributions from benzo(j)fluoranthene.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result.



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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

Method Blank: LRB-6 (Blank- µg/L) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	1	ug/L	0	<1	1	20190628.A13.1E

Positive Control: LFB-7 (N 100 µg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	%	80	89.7	120	20190628.A13.1E

Reference Sample: CRM-12 (EP-L-3) (12)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	1	ug/L	3.65	3.71	4.35	20190628.A13.1E

Sample Replicate: % RPD (4)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	%	0	0	20	20190628.A13.1E

Sample Spike: LFMS-9 (N 100 µg/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	% Rec	70	88.4	130	20190628.A13.1E



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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
117A Flushed	1449946	ICPMS Reg. Water (A13)	20190628.A13.1E	20190627.A52ZE
117A Standing	1449945	ICPMS Reg. Water (A13)	20190628.A13.1E	20190627.A52ZE
135A Flushed	1449944	ICPMS Reg. Water (A13)	20190628.A13.1E	20190627.A52ZE
135A Standing	1449943	ICPMS Reg. Water (A13)	20190628.A13.1E	20190627.A52ZE
2 Football Flushed	1449936	ICPMS Reg. Water (A13)	20190628.A13.1E	20190627.A52ZE
2 Football Standing	1449935	ICPMS Reg. Water (A13)	20190628.A13.1E	20190627.A52ZE
2 Football Standing	1449935r	ICPMS Reg. Water (A13)	20190628.A13.1E	20190627.A52ZE
B tb 109 Flushed	1449938	ICPMS Reg. Water (A13)	20190628.A13.1E	20190627.A52ZE
B tb 109 Standing	1449937	ICPMS Reg. Water (A13)	20190628.A13.1E	20190627.A52ZE
C - 7&8 Lower Flushed	1449948	ICPMS Reg. Water (A13)	20190628.A13.1E	20190627.A52ZE
C - 7&8 Lower Standing	1449947	ICPMS Reg. Water (A13)	20190628.A13.1E	20190627.A52ZE
E - FB130F Flushed	1449942	ICPMS Reg. Water (A13)	20190628.A13.1E	20190627.A52ZE
E - FB130F Standing	1449941	ICPMS Reg. Water (A13)	20190628.A13.1E	20190627.A52ZE
FB 224 Middle Flushed	1449950	ICPMS Reg. Water (A13)	20190628.A13.1E	20190627.A52ZE
FB 224 Middle Standing	1449949	ICPMS Reg. Water (A13)	20190628.A13.1E	20190627.A52ZE
H - FB125 F Flushed	1449940	ICPMS Reg. Water (A13)	20190628.A13.1E	20190627.A52ZE
H - FB125 F Standing	1449939	ICPMS Reg. Water (A13)	20190628.A13.1E	20190627.A52ZE
K - 117 Flushed	1450255	ICPMS Reg. Water (A13)	20190628.A13.1E	20190627.A52ZE
K - 117 Standing	1450254	ICPMS Reg. Water (A13)	20190628.A13.1E	20190627.A52ZE