



## CERTIFICATE OF ANALYSIS

Client:	Steve McCulloch	Work Order Number:	442230
Company:	RDSB - Lively District Secondary School	PO #:	
Address:	408 Wembley Drive Sudbury, ON, P3E 1P2	Regulation:	O.Reg. 243/07
Phone/Fax:	(705) 674-3171 / (705) 671-2442	Project #:	
Email:	mcculls@rainbowschools.ca	DWS #:	500141350
		Sampled By:	Steve McCulloch
Date Order Received:	9/13/2021	Analysis Started:	9/20/2021
Arrival Temperature:	6 °C	Analysis Completed:	9/21/2021

### 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
Standing-FB3	1682447	Water	Plumbing		9/12/2021	8:00 AM
Flushed-FB3	1682448	Water	Plumbing		9/12/2021	8:35 AM
Standing-F8	1682449	Water	Plumbing		9/12/2021	8:05 AM
Flushed-F8	1682450	Water	Plumbing		9/12/2021	8:40 AM
Standing-S109A	1682451	Water	Plumbing		9/12/2021	8:10 AM
Flushed-S109A	1682452	Water	Plumbing		9/12/2021	8:45 AM
Standing-S109C	1682453	Water	Plumbing		9/12/2021	8:15 AM
Flushed-S109C	1682454	Water	Plumbing		9/12/2021	8:50 AM
Standing-S117A	1682455	Water	Plumbing		9/12/2021	8:20 AM
Flushed-S117A	1682456	Water	Plumbing		9/12/2021	8:55 AM
Standing-S135B	1682457	Water	Plumbing		9/12/2021	8:25 AM
Flushed-S135B	1682458	Water	Plumbing		9/12/2021	9:00 AM

### METHODS AND INSTRUMENTATION

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



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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:

Mahesh Patel, B.Sc.  
Laboratory Director



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**WORK ORDER RESULTS**

Sample Description	Standing - FB3		Flushed - FB3		Standing - F8		Flushed - F8			
Sample Date	9/12/2021 8:00 AM		9/12/2021 8:35 AM		9/12/2021 8:05 AM		9/12/2021 8:40 AM			
Lab ID	1682447		1682448		1682449		1682450			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.4	0.1	0.3 [0.3]	0.1	0.5	0.1	0.3 [0.3]	0.1	ug/L	10
Sample Description	Standing - S109A		Flushed - S109A		Standing - S109C		Flushed - S109C			
Sample Date	9/12/2021 8:10 AM		9/12/2021 8:45 AM		9/12/2021 8:15 AM		9/12/2021 8:50 AM			
Lab ID	1682451		1682452		1682453		1682454			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.4	0.1	0.3	0.1	0.9	0.1	0.4 [0.4]	0.1	ug/L	10
Sample Description	Standing - S117A		Flushed - S117A		Standing - S135B		Flushed - S135B			
Sample Date	9/12/2021 8:20 AM		9/12/2021 8:55 AM		9/12/2021 8:25 AM		9/12/2021 9:00 AM			
Lab ID	1682455		1682456		1682457		1682458			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.6	0.1	0.4	0.1	0.5 [0.6]	0.1	0.4	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.

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. Results apply to the sample(s) as received.

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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) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	0.1	ug/L	0	<0.1	1	20210920.A13.1B
Lead	0.1	ug/L	0	<0.1	1	20210920.A13.1G
Lead	0.1	ug/L	0	<0.1	1	20210921.A13.1D
Lead	0.1	ug/L	0	<0.1	1	20210921.A13.1E
Lead	0.1	ug/L	0	<0.1	1	20210921.A13.1F

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

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	%	80	94.3	120	20210920.A13.1G
Lead	N/A	%	80	95.4	120	20210921.A13.1D
Lead	N/A	%	80	95.6	120	20210920.A13.1B
Lead	N/A	%	80	95.9	120	20210921.A13.1F
Lead	N/A	%	80	96.6	120	20210921.A13.1E

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

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	1	ug/L	2.58	4.02	5.38	20210921.A13.1F
Lead	1	ug/L	2.58	4.06	5.38	20210920.A13.1G
Lead	1	ug/L	2.58	4.06	5.38	20210921.A13.1D
Lead	1	ug/L	2.58	4.08	5.38	20210920.A13.1B
Lead	1	ug/L	2.58	4.11	5.38	20210921.A13.1E

##### Sample Replicate: % RPD (4)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	%	0	2.6	20	20210921.A13.1F



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**Sample Spike: LFMS-9 (N 100 µg/L) (9)**

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	% Rec	70	92	130	20210921.A13.1E
Lead	N/A	% Rec	70	92.9	130	20210921.A13.1D
Lead	N/A	% Rec	70	94.1	130	20210920.A13.1G
Lead	N/A	% Rec	70	94.9	130	20210920.A13.1B
Lead	N/A	% Rec	70	97.5	130	20210921.A13.1F

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

Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
Flushed - F8	1682450	ICPMS Reg. Water (A13)	20210920.A13.1G	20210915.A52Z
Flushed - F8	1682450r	ICPMS Reg. Water (A13)	20210920.A13.1G	20210915.A52Z
Flushed - FB3	1682448	ICPMS Reg. Water (A13)	20210920.A13.1B	20210915.A52Y
Flushed - FB3	1682448r	ICPMS Reg. Water (A13)	20210920.A13.1B	20210915.A52Y
Flushed - S109A	1682452	ICPMS Reg. Water (A13)	20210921.A13.1D	20210917.A52P
Flushed - S109C	1682454	ICPMS Reg. Water (A13)	20210921.A13.1D	20210917.A52P
Flushed - S109C	1682454r	ICPMS Reg. Water (A13)	20210921.A13.1D	20210917.A52P
Flushed - S117A	1682456	ICPMS Reg. Water (A13)	20210921.A13.1E	20210917.A52Q
Flushed - S135B	1682458	ICPMS Reg. Water (A13)	20210921.A13.1F	20210917.A52T
Standing - F8	1682449	ICPMS Reg. Water (A13)	20210921.A13.1D	20210917.A52P
Standing - FB3	1682447	ICPMS Reg. Water (A13)	20210920.A13.1B	20210915.A52Y
Standing - S109A	1682451	ICPMS Reg. Water (A13)	20210921.A13.1D	20210917.A52P
Standing - S109C	1682453	ICPMS Reg. Water (A13)	20210921.A13.1E	20210917.A52Q
Standing - S117A	1682455	ICPMS Reg. Water (A13)	20210921.A13.1F	20210917.A52T
Standing - S135B	1682457	ICPMS Reg. Water (A13)	20210921.A13.1E	20210917.A52Q
Standing - S135B	1682457r	ICPMS Reg. Water (A13)	20210921.A13.1E	20210917.A52Q