



**TESTMARK Laboratories Ltd.**

Committed to Quality and Service

## CERTIFICATE OF ANALYSIS

Client:	Steve McCulloch	Work Order Number:	462841
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:	
Date Order Received:	5/16/2022	Analysis Started:	5/19/2022
Arrival Temperature:	9.8 °C	Analysis Completed:	5/19/2022

### 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-F1	1753942	Water	Plumbing		5/14/2022	7:25 PM
Flushed-F1	1753943	Water	Plumbing		5/14/2022	8:00 PM
Standing-F6	1753944	Water	Plumbing		5/14/2022	7:30 PM
Flushed-F6	1753945	Water	Plumbing		5/14/2022	8:05 PM
Standing-F4	1753946	Water	Plumbing		5/14/2022	7:35 PM
Flushed-F4	1753947	Water	Plumbing		5/14/2022	8:10 PM
Standing-F7	1753948	Water	Plumbing		5/14/2022	7:40 PM
Flushed-F7	1753949	Water	Plumbing		5/14/2022	8:15 PM
Standing-F9	1753950	Water	Plumbing		5/14/2022	7:45 PM
Flushed-F9	1753951	Water	Plumbing		5/14/2022	8:20 PM
Standing-F11	1753952	Water	Plumbing		5/14/2022	7:50 PM
Flushed-F11	1753953	Water	Plumbing		5/14/2022	8:25 PM

### 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 - F1		Flushed - F1		Standing - F6		Flushed - F6			
Sample Date	5/14/2022 7:25 PM		5/14/2022 8:00 PM		5/14/2022 7:30 PM		5/14/2022 8:05 PM			
Lab ID	1753942		1753943		1753944		1753945			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.8	0.1	0.4 [0.4]	0.1	0.6	0.1	0.4	0.1	ug/L	10
Sample Description	Standing - F4		Flushed - F4		Standing - F7		Flushed - F7			
Sample Date	5/14/2022 7:35 PM		5/14/2022 8:10 PM		5/14/2022 7:40 PM		5/14/2022 8:15 PM			
Lab ID	1753946		1753947		1753948		1753949			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.6	0.1	0.4	0.1	0.6	0.1	0.4	0.1	ug/L	10
Sample Description	Standing - F9		Flushed - F9		Standing - F11		Flushed - F11			
Sample Date	5/14/2022 7:45 PM		5/14/2022 8:20 PM		5/14/2022 7:50 PM		5/14/2022 8:25 PM			
Lab ID	1753950		1753951		1753952		1753953			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.7	0.1	0.4	0.1	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.

Reproduction of Report: Report shall not be reproduced, except in full, without the approval of Testmark Laboratories Ltd.

ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.



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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	20220519.A13.1F
Lead	0.1	ug/L	0	<0.1	1	20220519.A13.1G

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

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	%	80	96.7	120	20220519.A13.1G
Lead	N/A	%	80	99.2	120	20220519.A13.1F

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

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	1	ug/L	2.58	4.01	5.38	20220519.A13.1G
Lead	1	ug/L	2.58	4.12	5.38	20220519.A13.1F

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

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	% Rec	70	90.9	130	20220519.A13.1G
Lead	N/A	% Rec	70	93.5	130	20220519.A13.1F



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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
Flushed - F1	1753943	ICPMS Reg. Water (A13)	20220519.A13.1F	20220518.A52H
Flushed - F1	1753943r	ICPMS Reg. Water (A13)	20220519.A13.1F	20220518.A52H
Flushed - F11	1753953	ICPMS Reg. Water (A13)	20220519.A13.1G	20220518.A52I
Flushed - F4	1753947	ICPMS Reg. Water (A13)	20220519.A13.1G	20220518.A52I
Flushed - F6	1753945	ICPMS Reg. Water (A13)	20220519.A13.1G	20220518.A52I
Flushed - F7	1753949	ICPMS Reg. Water (A13)	20220519.A13.1G	20220518.A52I
Flushed - F9	1753951	ICPMS Reg. Water (A13)	20220519.A13.1G	20220518.A52I
Standing - F1	1753942	ICPMS Reg. Water (A13)	20220519.A13.1F	20220518.A52H
Standing - F11	1753952	ICPMS Reg. Water (A13)	20220519.A13.1G	20220518.A52I
Standing - F4	1753946	ICPMS Reg. Water (A13)	20220519.A13.1G	20220518.A52I
Standing - F6	1753944	ICPMS Reg. Water (A13)	20220519.A13.1G	20220518.A52I
Standing - F7	1753948	ICPMS Reg. Water (A13)	20220519.A13.1G	20220518.A52I
Standing - F9	1753950	ICPMS Reg. Water (A13)	20220519.A13.1G	20220518.A52I