



**TESTMARK Laboratories Ltd.**

Committed to Quality and Service

## CERTIFICATE OF ANALYSIS

Client:	Steve McCulloch	Work Order Number:	534226
Company:	RDSB - Manitoulin 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 #:	500039014
		Sampled By:	Steve McCulloch
Date Order Received:	5/13/2024	Analysis Started:	5/14/2024
Arrival Temperature:	10.3 C	Analysis Completed:	5/15/2024

### 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 -F2	2004158	Water	Plumbing		5/11/2024	8:40 AM
Flushed -F2	2004159	Water	Plumbing		5/11/2024	9:15 AM
Standing -FB5	2004160	Water	Plumbing		5/11/2024	8:45 AM
Flushed -FB5	2004161	Water	Plumbing		5/11/2024	9:20 AM
Standing -F8	2004162	Water	Plumbing		5/11/2024	8:50 AM
Flushed -F8	2004163	Water	Plumbing		5/11/2024	9:25 AM
Standing -S61	2004164	Water	Plumbing		5/11/2024	8:55 AM
Flushed -S61	2004165	Water	Plumbing		5/11/2024	9:30 AM
Standing -SD5B	2004166	Water	Plumbing		5/11/2024	8:00 AM
Flushed -SD5B	2004167	Water	Plumbing		5/11/2024	9:35 AM
Standing -SD5E	2004168	Water	Plumbing		5/11/2024	9:05 AM
Flushed -SD5E	2004169	Water	Plumbing		5/11/2024	9:40 AM
Standing -S29B	2004170	Water	Plumbing		5/11/2024	9:10 AM
Flushed -S29B	2004171	Water	Plumbing		5/11/2024	9:45 AM
Standing -S29E	2004172	Water	Plumbing		5/11/2024	9:15 AM
Flushed -S29E	2004173	Water	Plumbing		5/11/2024	9:50 AM



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### 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:

Brad Halvorson, B.Sc.  
Laboratory Director



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#### WORK ORDER RESULTS

<b>Sample Description</b>	<b>Standing - F2</b>		<b>Flushed - F2</b>		<b>Standing - FB5</b>		<b>Flushed - FB5</b>			
<b>Sample Date</b>	5/11/2024 8:40 AM		5/11/2024 9:15 AM		5/11/2024 8:45 AM		5/11/2024 9:20 AM			
<b>Lab ID</b>	2004158		2004159		2004160		2004161			
<b>Metals</b>	<b>Result</b>	<b>MDL</b>	<b>Result</b>	<b>MDL</b>	<b>Result</b>	<b>MDL</b>	<b>Result</b>	<b>MDL</b>	<b>Units</b>	<b>Criteria: O.Reg. 243/07</b>
Lead	0.4	0.1	0.2	0.1	0.9	0.1	0.4	0.1	ug/L	10
<b>Sample Description</b>	<b>Standing - F8</b>		<b>Flushed - F8</b>		<b>Standing - S61</b>		<b>Flushed - S61</b>			
<b>Sample Date</b>	5/11/2024 8:50 AM		5/11/2024 9:25 AM		5/11/2024 8:55 AM		5/11/2024 9:30 AM			
<b>Lab ID</b>	2004162		2004163		2004164		2004165			
<b>Metals</b>	<b>Result</b>	<b>MDL</b>	<b>Result</b>	<b>MDL</b>	<b>Result</b>	<b>MDL</b>	<b>Result</b>	<b>MDL</b>	<b>Units</b>	<b>Criteria: O.Reg. 243/07</b>
Lead	<0.1	0.1	<0.1	0.1	0.1	0.1	0.1	0.1	ug/L	10
<b>Sample Description</b>	<b>Standing - SD5B</b>		<b>Flushed - SD5B</b>		<b>Standing - SD5E</b>		<b>Flushed - SD5E</b>			
<b>Sample Date</b>	5/11/2024 8:00 AM		5/11/2024 9:35 AM		5/11/2024 9:05 AM		5/11/2024 9:40 AM			
<b>Lab ID</b>	2004166		2004167		2004168		2004169			
<b>Metals</b>	<b>Result</b>	<b>MDL</b>	<b>Result</b>	<b>MDL</b>	<b>Result</b>	<b>MDL</b>	<b>Result</b>	<b>MDL</b>	<b>Units</b>	<b>Criteria: O.Reg. 243/07</b>
Lead	0.6	0.1	0.2	0.1	1.5	0.1	0.9	0.1	ug/L	10
<b>Sample Description</b>	<b>Standing - S29B</b>		<b>Flushed - S29B</b>		<b>Standing - S29E</b>		<b>Flushed - S29E</b>			
<b>Sample Date</b>	5/11/2024 9:10 AM		5/11/2024 9:45 AM		5/11/2024 9:15 AM		5/11/2024 9:50 AM			
<b>Lab ID</b>	2004170		2004171		2004172		2004173			
<b>Metals</b>	<b>Result</b>	<b>MDL</b>	<b>Result</b>	<b>MDL</b>	<b>Result</b>	<b>MDL</b>	<b>Result</b>	<b>MDL</b>	<b>Units</b>	<b>Criteria: O.Reg. 243/07</b>
Lead	0.6	0.1	0.7	0.1	0.7	0.1	0.8	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.

Organic Soil Analysis: Data reported for organic analysis in soils samples are corrected for moisture content.

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.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.



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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						
<b>Method Blank: LRB-6 (Blank) (6)</b>						
Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	0.1	ug/L	0	<0.1	0.3	20240515.A13.1E
<b>Positive Control: LFB-7 (N 100 µg/L) (7)</b>						
Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	%	85	94.9	115	20240515.A13.1E
<b>Reference Sample: CRM-12 (EP-L-3) (12)</b>						
Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	1	ug/L	2.58	3.95	5.38	20240515.A13.1E
<b>Sample Spike: LFMS-9 (N 100 µg/L) (9)</b>						
Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	% Rec	70	97.7	130	20240515.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
Flushed - F2	2004159	ICPMS Reg. Water (A13)	20240515.A13.1E	20240514.A52ZZC
Flushed - F8	2004163	ICPMS Reg. Water (A13)	20240515.A13.1E	20240514.A52ZZC
Flushed - FB5	2004161	ICPMS Reg. Water (A13)	20240515.A13.1E	20240514.A52ZZC
Flushed - S29B	2004171	ICPMS Reg. Water (A13)	20240515.A13.1E	20240514.A52ZZC
Flushed - S29E	2004173	ICPMS Reg. Water (A13)	20240515.A13.1E	20240514.A52ZZC
Flushed - S61	2004165	ICPMS Reg. Water (A13)	20240515.A13.1E	20240514.A52ZZC
Flushed - SD5B	2004167	ICPMS Reg. Water (A13)	20240515.A13.1E	20240514.A52ZZC
Flushed - SD5E	2004169	ICPMS Reg. Water (A13)	20240515.A13.1E	20240514.A52ZZC
Standing - F2	2004158	ICPMS Reg. Water (A13)	20240515.A13.1E	20240514.A52ZZC
Standing - F8	2004162	ICPMS Reg. Water (A13)	20240515.A13.1E	20240514.A52ZZC
Standing - FB5	2004160	ICPMS Reg. Water (A13)	20240515.A13.1E	20240514.A52ZZC
Standing - S29B	2004170	ICPMS Reg. Water (A13)	20240515.A13.1E	20240514.A52ZZC
Standing - S29E	2004172	ICPMS Reg. Water (A13)	20240515.A13.1E	20240514.A52ZZC
Standing - S61	2004164	ICPMS Reg. Water (A13)	20240515.A13.1E	20240514.A52ZZC
Standing - SD5B	2004166	ICPMS Reg. Water (A13)	20240515.A13.1E	20240514.A52ZZC
Standing - SD5E	2004168	ICPMS Reg. Water (A13)	20240515.A13.1E	20240514.A52ZZC