



**TESTMARK Laboratories Ltd.**

Committed to Quality and Service

## CERTIFICATE OF ANALYSIS

Client:	Steve McCulloch	Work Order Number:	534249
Company:	RDSB - Espanola H.S. - AB ELLIS PS	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 #:	500039053
		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 - S-78A	2004272	Water	Plumbing		5/11/2024	5:00 PM
Flushed - S-78A	2004273	Water	Plumbing		5/11/2024	5:35 PM
Standing - S-75	2004274	Water	Plumbing		5/11/2024	5:05 PM
Flushed - S-75	2004275	Water	Plumbing		5/11/2024	5:40 PM
Standing - F-B131B	2004276	Water	Plumbing		5/11/2024	5:10 PM
Flushed - F-B131B	2004277	Water	Plumbing		5/11/2024	5:45 PM
Standing - FB-228	2004278	Water	Plumbing		5/11/2024	5:11 PM
Flushed - FB-228	2004279	Water	Plumbing		5/11/2024	5:50 PM
Standing - S-E69B	2004280	Water	Plumbing		5/11/2024	5:20 PM
Flushed - S-E69B	2004281	Water	Plumbing		5/11/2024	5:55 PM
Standing - F1	2004282	Water	Plumbing		5/11/2024	5:25 PM
Flushed - F1	2004283	Water	Plumbing		5/11/2024	6:00 PM
Standing - F4	2004284	Water	Plumbing		5/11/2024	5:30 PM
Flushed - F4	2004285	Water	Plumbing		5/11/2024	6:05 PM
Standing - FB6	2004286	Water	Plumbing		5/11/2024	5:35 PM
Flushed - FB6	2004287	Water	Plumbing		5/11/2024	6:10 PM
Standing - F7	2004288	Water	Plumbing		5/11/2024	5:40 PM



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Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
Flushed - F7	2004289	Water	Plumbing		5/11/2024	6:15 PM
Standing - S-C119B	2004290	Water	Plumbing		5/11/2024	5:45 PM
Flushed - S-C119B	2004291	Water	Plumbing		5/11/2024	6:20 PM
Standing - S-C119E	2004292	Water	Plumbing		5/11/2024	5:50 PM
Flushed - S-C119E	2004293	Water	Plumbing		5/11/2024	6:25 PM
Standing - S-C119G	2004294	Water	Plumbing		5/11/2024	5:55 PM
Flushed - S-C119G	2004295	Water	Plumbing		5/11/2024	6:30 PM
Standing - S-C97A	2004296	Water	Plumbing		5/11/2024	6:00 PM
Flushed - S-C97A	2004297	Water	Plumbing		5/11/2024	6:35 PM

## 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

## WORK ORDER RESULTS



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<b>Sample Description</b>	<b>Standing - S - 78A</b>		<b>Flushed - S - 78A</b>		<b>Standing - S - 75</b>		<b>Flushed - S - 75</b>			
<b>Sample Date</b>	5/11/2024 5:00 PM		5/11/2024 5:35 PM		5/11/2024 5:05 PM		5/11/2024 5:40 PM			
<b>Lab ID</b>	2004272		2004273		2004274		2004275			
<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 - F - B131B</b>		<b>Flushed - F - B131B</b>		<b>Standing - FB - 228</b>		<b>Flushed - FB - 228</b>			
<b>Sample Date</b>	5/11/2024 5:10 PM		5/11/2024 5:45 PM		5/11/2024 5:11 PM		5/11/2024 5:50 PM			
<b>Lab ID</b>	2004276		2004277		2004278		2004279			
<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 - S - E69B</b>		<b>Flushed - S - E69B</b>		<b>Standing - F1</b>		<b>Flushed - F1</b>			
<b>Sample Date</b>	5/11/2024 5:20 PM		5/11/2024 5:55 PM		5/11/2024 5:25 PM		5/11/2024 6:00 PM			
<b>Lab ID</b>	2004280		2004281		2004282		2004283			
<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 - F4</b>		<b>Flushed - F4</b>		<b>Standing - FB6</b>		<b>Flushed - FB6</b>			
<b>Sample Date</b>	5/11/2024 5:30 PM		5/11/2024 6:05 PM		5/11/2024 5:35 PM		5/11/2024 6:10 PM			
<b>Lab ID</b>	2004284		2004285		2004286		2004287			
<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	3.3	0.1	1.0	0.1	2.3	0.1	0.2	0.1	ug/L	10



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Sample Description	Standing - F7		Flushed - F7		Standing - S - C119B		Flushed - S - C119B			
Sample Date	5/11/2024 5:40 PM		5/11/2024 6:15 PM		5/11/2024 5:45 PM		5/11/2024 6:20 PM			
Lab ID	2004288		2004289		2004290		2004291			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	3.3	0.1	0.2 [0.2]	0.1	5.0	0.1	0.8	0.1	ug/L	10
Sample Description	Standing - S - C119E		Flushed - S - C119E		Standing - S - C119G		Flushed - S - C119G			
Sample Date	5/11/2024 5:50 PM		5/11/2024 6:25 PM		5/11/2024 5:55 PM		5/11/2024 6:30 PM			
Lab ID	2004292		2004293		2004294		2004295			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	3.5	0.1	0.4	0.1	3.4	0.1	0.8	0.1	ug/L	10
Sample Description	Standing - S - C97A		Flushed - S - C97A							
Sample Date	5/11/2024 6:00 PM		5/11/2024 6:35 PM							
Lab ID	2004296		2004297							
Metals	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07				
Lead	3.3	0.1	0.2	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.

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

Method Blank: LRB-6 (Blank) (6)							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	0.1	ug/L	0	<0.1	0.3	20240515.A13.1D	
Lead	0.1	ug/L	0	<0.1	0.3	20240515.A13.1F	

Positive Control: LFB-7 (N 100 µg/L) (7)							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	N/A	%	85	96.3	115	20240515.A13.1F	
Lead	N/A	%	85	97.1	115	20240515.A13.1D	

Reference Sample: CRM-12 (EP-L-3) (12)							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	1	ug/L	2.58	4.1	5.38	20240515.A13.1F	
Lead	1	ug/L	2.58	4.12	5.38	20240515.A13.1D	

Sample Spike: LFMS-9 (N 100 µg/L) (9)							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	N/A	% Rec	70	104	130	20240515.A13.1D	
Lead	N/A	% Rec	70	97.1	130	20240515.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 - F - B131B	2004277	ICPMS Reg. Water (A13)	20240515.A13.1D	20240514.A52ZZE
Flushed - F1	2004283	ICPMS Reg. Water (A13)	20240515.A13.1D	20240514.A52ZZE
Flushed - F4	2004285	ICPMS Reg. Water (A13)	20240515.A13.1D	20240514.A52ZZE
Flushed - F7	2004289	ICPMS Reg. Water (A13)	20240515.A13.1D	20240514.A52ZZE
Flushed - F7	2004289r	ICPMS Reg. Water (A13)	20240515.A13.1D	20240514.A52ZZE
Flushed - FB - 228	2004279	ICPMS Reg. Water (A13)	20240515.A13.1D	20240514.A52ZZE
Flushed - FB6	2004287	ICPMS Reg. Water (A13)	20240515.A13.1D	20240514.A52ZZE
Flushed - S - 75	2004275	ICPMS Reg. Water (A13)	20240515.A13.1D	20240514.A52ZZE
Flushed - S - 78A	2004273	ICPMS Reg. Water (A13)	20240515.A13.1D	20240514.A52ZZE
Flushed - S - C119B	2004291	ICPMS Reg. Water (A13)	20240515.A13.1F	20240514.A52ZZD
Flushed - S - C119E	2004293	ICPMS Reg. Water (A13)	20240515.A13.1F	20240514.A52ZZD
Flushed - S - C119G	2004295	ICPMS Reg. Water (A13)	20240515.A13.1F	20240514.A52ZZD
Flushed - S - C97A	2004297	ICPMS Reg. Water (A13)	20240515.A13.1F	20240514.A52ZZD
Flushed - S - E69B	2004281	ICPMS Reg. Water (A13)	20240515.A13.1D	20240514.A52ZZE
Standing - F - B131B	2004276	ICPMS Reg. Water (A13)	20240515.A13.1D	20240514.A52ZZE
Standing - F1	2004282	ICPMS Reg. Water (A13)	20240515.A13.1D	20240514.A52ZZE
Standing - F4	2004284	ICPMS Reg. Water (A13)	20240515.A13.1D	20240514.A52ZZE
Standing - F7	2004288	ICPMS Reg. Water (A13)	20240515.A13.1D	20240514.A52ZZE
Standing - FB - 228	2004278	ICPMS Reg. Water (A13)	20240515.A13.1D	20240514.A52ZZE
Standing - FB6	2004286	ICPMS Reg. Water (A13)	20240515.A13.1D	20240514.A52ZZE
Standing - S - 75	2004274	ICPMS Reg. Water (A13)	20240515.A13.1D	20240514.A52ZZE
Standing - S - 78A	2004272	ICPMS Reg. Water (A13)	20240515.A13.1D	20240514.A52ZZE
Standing - S - C119B	2004290	ICPMS Reg. Water (A13)	20240515.A13.1F	20240514.A52ZZD
Standing - S - C119E	2004292	ICPMS Reg. Water (A13)	20240515.A13.1F	20240514.A52ZZD
Standing - S - C119G	2004294	ICPMS Reg. Water (A13)	20240515.A13.1F	20240514.A52ZZD
Standing - S - C97A	2004296	ICPMS Reg. Water (A13)	20240515.A13.1F	20240514.A52ZZD
Standing - S - E69B	2004280	ICPMS Reg. Water (A13)	20240515.A13.1D	20240514.A52ZZE