



CERTIFICATE OF ANALYSIS

Client:	Steve McCulloch	Work Order Number:	412390
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:	9/28/2020	Analysis Started:	10/6/2020
Arrival Temperature:	6 °C	Analysis Completed:	10/6/2020

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-SE80	1579871	Water	Plumbing		9/26/2020	8:00 AM
FLUSHED-SE80	1579872	Water	Plumbing		9/26/2020	8:35 AM
STANDING-S68	1579873	Water	Plumbing		9/26/2020	8:05 AM
FLUSHED-S68	1579874	Water	Plumbing		9/26/2020	8:40 AM
STANDING-F-B131A	1579875	Water	Plumbing		9/26/2020	8:10 AM
FLUSHED-F-B131A	1579876	Water	Plumbing		9/26/2020	8:45 AM
STANDING-FU-228	1579877	Water	Plumbing		9/26/2020	8:15 AM
FLUSHED-FU-228	1579878	Water	Plumbing		9/26/2020	8:50 AM
STANDING-S178C	1579879	Water	Plumbing		9/26/2020	8:20 AM
FLUSHED-S178C	1579880	Water	Plumbing		9/26/2020	8:55 AM
STANDING-F2	1579881	Water	Plumbing		9/26/2020	8:25 AM
FLUSHED-F2	1579882	Water	Plumbing		9/26/2020	9:00 AM
STANDING-F3	1579883	Water	Plumbing		9/26/2020	8:30 AM
FLUSHED-F3	1579884	Water	Plumbing		9/26/2020	9:05 AM
STANDING-FU5	1579885	Water	Plumbing		9/26/2020	8:35 AM
FLUSHED-FU5	1579886	Water	Plumbing		9/26/2020	9:10 AM
STANDING-SC119A	1579887	Water	Plumbing		9/26/2020	8:40 AM



CERTIFICATE OF ANALYSIS

RDSB - Espanola H.S. - AB ELLIS PS

Work Order Number: 412390

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
FLUSHED-SC119A	1579888	Water	Plumbing	SAMPLE CONTAINED RESULT EXCEEDENCES.	9/26/2020	9:15 AM
STANDING-SE88	1579889	Water	Plumbing		9/26/2020	8:45 AM
FLUSHED-SE88	1579890	Water	Plumbing		9/26/2020	9:20 AM
STANDING-SC97B	1579891	Water	Plumbing		9/26/2020	8:50 AM
FLUSHED-SC97B	1579892	Water	Plumbing		9/26/2020	9:25 AM
STANDING-SD55B	1579893	Water	Plumbing		9/26/2020	8:55 AM
FLUSHED-SD55B	1579894	Water	Plumbing		9/26/2020	9:30 AM
STANDING-SC119D	1579895	Water	Plumbing		9/26/2020	9:00 AM
FLUSHED-SC119D	1579896	Water	Plumbing		9/26/2020	9:35 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

REPORT COMMENTS

Lead exceedance reported for sample 1579888. 20201006 MLS
Confirmed that sample 1579887 was labeled as Standing and 1579888 as Flushed. 20201006 MLS

This report has been approved by:

Brad Halvorson, B.Sc.
Laboratory Director



CERTIFICATE OF ANALYSIS

RDSB - Espanola H.S. - AB ELLIS PS

Work Order Number: 412390

WORK ORDER RESULTS

Sample Description	STANDING - SE80		FLUSHED - SE80		STANDING - S68		FLUSHED - S68			
Sample Date	9/26/2020 8:00 AM		9/26/2020 8:35 AM		9/26/2020 8:05 AM		9/26/2020 8:40 AM			
Lab ID	1579871		1579872		1579873		1579874			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L	10
Sample Description	STANDING - F - B131A		FLUSHED - F - B131A		STANDING - FU - 228		FLUSHED - FU - 228			
Sample Date	9/26/2020 8:10 AM		9/26/2020 8:45 AM		9/26/2020 8:15 AM		9/26/2020 8:50 AM			
Lab ID	1579875		1579876		1579877		1579878			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	<0.1	0.1	<0.1	0.1	0.3	0.1	0.2	0.1	ug/L	10
Sample Description	STANDING - S178C		FLUSHED - S178C		STANDING - F2		FLUSHED - F2			
Sample Date	9/26/2020 8:20 AM		9/26/2020 8:55 AM		9/26/2020 8:25 AM		9/26/2020 9:00 AM			
Lab ID	1579879		1579880		1579881		1579882			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.5	0.1	0.2	0.1	0.6	0.1	2.9	0.1	ug/L	10
Sample Description	STANDING - F3		FLUSHED - F3		STANDING - FU5		FLUSHED - FU5			
Sample Date	9/26/2020 8:30 AM		9/26/2020 9:05 AM		9/26/2020 8:35 AM		9/26/2020 9:10 AM			
Lab ID	1579883		1579884		1579885		1579886			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.1	0.1	<0.1 [<0.1]	0.1	0.3	0.1	0.3	0.1	ug/L	10



CERTIFICATE OF ANALYSIS

RDSB - Espanola H.S. - AB ELLIS PS

Work Order Number: 412390

Sample Description	STANDING - SC119A		FLUSHED - SC119A		STANDING - SE88		FLUSHED - SE88			
Sample Date	9/26/2020 8:40 AM		9/26/2020 9:15 AM		9/26/2020 8:45 AM		9/26/2020 9:20 AM			
Lab ID	1579887		1579888		1579889		1579890			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.3	0.1	15.7	0.1	0.7	0.1	0.4	0.1	ug/L	10
Sample Description	STANDING - SC97B		FLUSHED - SC97B		STANDING - SD55B		FLUSHED - SD55B			
Sample Date	9/26/2020 8:50 AM		9/26/2020 9:25 AM		9/26/2020 8:55 AM		9/26/2020 9:30 AM			
Lab ID	1579891		1579892		1579893		1579894			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.3	0.1	0.2	0.1	0.5	0.1	0.2	0.1	ug/L	10
Sample Description	STANDING - SC119D		FLUSHED - SC119D							
Sample Date	9/26/2020 9:00 AM		9/26/2020 9:35 AM							
Lab ID	1579895		1579896							
Metals	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07				
Lead	1.6	0.1	1.6	0.1	ug/L	10				



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RDSB - Espanola H.S. - AB ELLIS PS

Work Order Number: 412390

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.

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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Work Order Number: 412390

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	20201006.A13.1G
Lead	0.1	ug/L	0	<0.1	1	20201006.A13.1P

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

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	%	80	90.9	120	20201006.A13.1P
Lead	N/A	%	80	98.4	120	20201006.A13.1G

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

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	1	ug/L	2.64	3.87	5.44	20201006.A13.1P
Lead	1	ug/L	2.64	4.13	5.44	20201006.A13.1G

Sample Spike: LFMS-9 (N 100 µg/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	% Rec	70	88.5	130	20201006.A13.1P
Lead	N/A	% Rec	70	94.5	130	20201006.A13.1G



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Work Order Number: 412390

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 - B131A	1579876	ICPMS Reg. Water (A13)	20201006.A13.1P	20201002.A52M
FLUSHED - F2	1579882	ICPMS Reg. Water (A13)	20201006.A13.1P	20201002.A52M
FLUSHED - F3	1579884	ICPMS Reg. Water (A13)	20201006.A13.1G	20201002.A52N
FLUSHED - F3	1579884r	ICPMS Reg. Water (A13)	20201006.A13.1G	20201002.A52N
FLUSHED - FU - 228	1579878	ICPMS Reg. Water (A13)	20201006.A13.1P	20201002.A52M
FLUSHED - FU5	1579886	ICPMS Reg. Water (A13)	20201006.A13.1G	20201002.A52N
FLUSHED - S178C	1579880	ICPMS Reg. Water (A13)	20201006.A13.1P	20201002.A52M
FLUSHED - S68	1579874	ICPMS Reg. Water (A13)	20201006.A13.1P	20201002.A52M
FLUSHED - SC119A	1579888	ICPMS Reg. Water (A13)	20201006.A13.1G	20201002.A52N
FLUSHED - SC119D	1579896	ICPMS Reg. Water (A13)	20201006.A13.1G	20201002.A52N
FLUSHED - SC97B	1579892	ICPMS Reg. Water (A13)	20201006.A13.1G	20201002.A52N
FLUSHED - SD55B	1579894	ICPMS Reg. Water (A13)	20201006.A13.1G	20201002.A52N
FLUSHED - SE80	1579872	ICPMS Reg. Water (A13)	20201006.A13.1P	20201002.A52M
FLUSHED - SE88	1579890	ICPMS Reg. Water (A13)	20201006.A13.1G	20201002.A52N
STANDING - F - B131A	1579875	ICPMS Reg. Water (A13)	20201006.A13.1P	20201002.A52M
STANDING - F2	1579881	ICPMS Reg. Water (A13)	20201006.A13.1P	20201002.A52M
STANDING - F3	1579883	ICPMS Reg. Water (A13)	20201006.A13.1P	20201002.A52M
STANDING - FU - 228	1579877	ICPMS Reg. Water (A13)	20201006.A13.1P	20201002.A52M
STANDING - FU5	1579885	ICPMS Reg. Water (A13)	20201006.A13.1G	20201002.A52N
STANDING - S178C	1579879	ICPMS Reg. Water (A13)	20201006.A13.1P	20201002.A52M
STANDING - S68	1579873	ICPMS Reg. Water (A13)	20201006.A13.1P	20201002.A52M
STANDING - SC119A	1579887	ICPMS Reg. Water (A13)	20201006.A13.1G	20201002.A52N
STANDING - SC119D	1579895	ICPMS Reg. Water (A13)	20201006.A13.1G	20201002.A52N
STANDING - SC97B	1579891	ICPMS Reg. Water (A13)	20201006.A13.1G	20201002.A52N
STANDING - SD55B	1579893	ICPMS Reg. Water (A13)	20201006.A13.1G	20201002.A52N
STANDING - SE80	1579871	ICPMS Reg. Water (A13)	20201006.A13.1P	20201002.A52M
STANDING - SE88	1579889	ICPMS Reg. Water (A13)	20201006.A13.1G	20201002.A52N