

Client:	Steve McCulloch	Work Order Number:	375542
Company:	RDSB - Central Manitoulin Public School	PO #:	
Address:	69 Young St.	Regulation:	O.Reg. 243/07
	Sudbury, ON, P3E 3G5	Project #:	
Phone/Fax:	(705) 674-3171 / (705) 761-2442	DWS #:	500039027
Email:	mcculls@rainbowschools.ca	Sampled By:	Steve McCulloch
Date Order Received:	6/18/2019	Analysis Started:	6/23/2019
Arrival Temperature:	15 °C	Analysis Completed:	6/26/2019

## WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Туре	Comments	Date Collected	Time Collected
102E Standing (S)	1449852	Water	Plumbing		6/18/2019	7:05 AM
102E Flushed (F)	1449853	Water	Plumbing		6/18/2019	7:40 AM
102C S	1449854	Water	Plumbing		6/18/2019	7:06 AM
102C F	1449855	Water	Plumbing		6/18/2019	7:41 AM
DS	1449856	Water	Plumbing		6/18/2019	7:07 AM
DF	1449857	Water	Plumbing		6/18/2019	7:42 AM
BS	1449858	Water	Plumbing		6/18/2019	7:08 AM
BF	1449859	Water	Plumbing		6/18/2019	7:43 AM
12A Standing	1449860	Water	Plumbing		6/18/2019	7:09 AM
12A Flushed	1449861	Water	Plumbing		6/18/2019	7:44 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



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## **CERTIFICATE OF ANALYSIS**

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This report has been approved by:

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Mark Charbonneau, Ph.D. Laboratory Director



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## WORK ORDER RESULTS

Sample Description	102E Sta	inding (S)	102E Flu	ished (F)	102	C S	102	C F		
Lab ID	1449	9852	1449	9853	1449	9854	1449	9855		
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	2.5	0.1	0.5	0.1	0.2	0.1	0.2	0.1	ug/L	10
Sample Description	D	S	D	F	В	S	В	F		
Lab ID	1449	9856	1449	9857	1449	9858	1449	9859		
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	1.3	0.1	0.3	0.1	ug/L	10
Sample Description	12A St	anding	[<0.1] <b>12A FI</b>	ushed	1.3	0.1	0.3	0.1	ug/L	10
	12A St		[<0.1]	ushed	1.3			0.1	ug/L	10
Sample Description	12A St	anding	[<0.1] <b>12A FI</b>	ushed	1.3 Units	0.1 Criteria: O.Re 243/07		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.

Exceedences: HIGHLIGHTED CELLS INDICATE THAT THE RESULT EXCEEDS A REGULATORY LIMIT. CALCULATED UNCERTAINTY ESTIMATIONS ARE NOT APPLIED FOR DETERMINING SAMPLE EXCEEDANCES. Benzo(b)fluoranthene: Results for benzo(b)fluoranthene may include contributions from benzo(j)fluoranthene.

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.



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# QUALITY CONTROL DATA

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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.

Method Blank: LRB-6 (Blank: LRB-6 (Blank: LRB-6 (Blank))     MDL     Units     LCL     Result     UCL     QAQCID       Lead     1     ug/L     0     <1     1     20190624.13.1D       Lead     1     ug/L     0     <1     1     20190624.13.1D       Positive Control: LFB-7 (NU0 μQL/C)     Parameter     MDL     QAQCID     QAQCID       Parameter     MDL     Units     LCL     Result     QAQCID     QAQCID       Lead     N/A     %     80     88.7     120     20190624.13.1D       Lead     N/A     %     80     82.7     120     20190624.13.1D       Lead     N/A     %     80     82.7     120     20190624.13.1D       Lead     N/A     %     80     82.7     120     20190624.13.1D       Lead     1     ug/L     3.65     4.04     4.35     20190624.13.1D       Lead     N/A     %     0     4.3     20190626.13.1D     20190626.13.1D       Lead     N/A	Metals							
Lead1ug/L0120190624.13.10Lead1ug/L01120190626.13.10ParameterMDLUnitsLCLResultUCLQAQCIDLeadNA%8088.712020190624.13.10LeadNA%8088.712020190624.13.10LeadNA%8088.712020190624.13.10LeadNA%8088.712020190624.13.10LeadNA%8088.712020190626.13.10ParameterMDLUnitsLCLResultUCLQAQCIDLead1ug/L3.653.694.3520190624.13.10Lead1ug/L3.653.694.3520190624.13.10Lead1ug/L3.653.694.3520190624.13.10Lead1ug/L3.653.694.3520190624.13.10LeadNA%04.32020190626.13.10LeadNA%04.32020190626.13.10LeadNA%04.32020190626.13.10ParameterMDLUnitsLCLResultUCLQAQCIDLeadNA%04.32020190626.13.10ParameterMDLUnitsLCLResultUCLQAQCIDLeadNA%7086.5130<	Method Blank: LRB-6 (Blan	nk- μg/L) (6)						
Lead     1     ug/L     0     <1     1     2019026A13.1D       Positive Controi: LFB-7 (N UO Lg/L) (7)     Parameter     MDL     Units     LCL     Result     UCL     QAQCID       Lead     MDA     MA     60     88.7     120     2019062A13.1D       Lead     N/A     %     80     88.7     120     2019062A13.1D       Lead     N/A     %     80     92.7     120     2019062A13.1D       Lead     N/A     %     80     92.7     120     2019062A13.1D       Lead     N/A     %     80     92.7     120     2019062A13.1D       Lead     MDL     Units     LCL     Result     UCL     QAQCID       Lead     1     ug/L     3.65     4.04     4.35     2019062A13.1D       Lead     MDL     Units     LCL     Result     UCL     QAQCID       Lead     N/A     %     0     4.3     20     20190626.13.1D       Parameter     MDL	Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Positive CMR-10 (JUG)     CMR (Marcine)     CMR (Marcine)     CMR (Marcine)       Parameter     MDL     Units     LCL     Result     UCL     QAQCID       Lead     N/A     %     80     88.7     120     20190624.A13.1D       Lead     N/A     %     80     92.7     120     20190626.A13.1D       Lead     N/A     %     80     92.7     120     20190626.A13.1D       Lead     N/A     %     80     92.7     120     20190624.A13.1D       Lead     N/A     %     80     92.7     120     20190626.A13.1D       Lead     MDL     Units     LCL     Result     QACCID     QACCID       Lead     1     ug/L     3.65     3.69     4.35     20190626.A13.1D       Sample Replicate: % RPD (JUC     MDL     Units     LCL     Result     UCL     QAQCID       Lead     N/A     %     0     4.33     20     20190626.A13.1D       Sample Splike: LFMS-9 (LMS-M     MDL     MA	Lead	1	ug/L	0	<1	1	20190624.A13.1D	
ParameterMDLUnitsLCLResultUCLQAQCDLeadN/A%8088.71202019624.A13.DLeadN/A%8092.71202019626.A13.DReference Sample: CRM-1/EP-L-3/ (2)ParameterMDLUnitsLCLResultUCLQAQCDLead1Ug/L3.653.694.3520190624.A13.DLead1ug/L3.654.044.3520190624.A13.DLead1ug/L3.654.044.3520190624.A13.DBarneter % RPD (Jug/L3.654.044.3520190626.A13.DParameterMDLUnitsLCLResultUCLQAQCDLeadN/A%04.32.020190626.A13.DSample Spike: LFMS-9 (N/L)%04.32.020190626.A13.DParameterMDLUnitsLCLResultUCLQAQCDLeadN/A%04.32.02.0190626.A13.DParameterMDLUnitsLCLResultUCLQAQCDLeadN/A% Rec7086.51302.0190624.A13.D	Lead	1	ug/L	0	<1	1	20190626.A13.1D	
LeadN/A%8088.712020190624.A13.DLeadN/A%8092.71202019062A.13.DReference Sample: CRM-2 (EP-L-3) (12)ParameterMDLUnitsLCLResultUCLQAQCDLead1ug/L3.653.694.3520190624.A13.DLead1ug/L3.654.044.3520190624.A13.DLead1ug/L3.654.044.3520190626.A13.DSample Replicate: % RPD (3.654.044.3520190626.A13.DLeadN/A%04.30000Sample Spike: LFMS-9 (MDLMDL%004.320190626.A13.DParameterMDL%%04.320190626.A13.DLeadN/A%04.320120190626.A13.DLeadN/A%04.320120190626.A13.DLeadN/A%04.320120190626.A13.DLeadMDLUnitsLCLResultULLQAQCDLeadN/A%Rec7086.513020190624.A13.D	Positive Control: LFB-7 (N	100 μg/L) (7)						
LeadN/A%8092.712020190626.A13.1DReference Sample: CRM-12 (EP-L-3) (12)ParameterMDLUnitsLCLResultUCLQAQCIDLead1ug/L3.653.694.3520190624.A13.1DLead1ug/L3.654.044.3520190626.A13.1DLead1ug/L3.654.044.3520190626.A13.1DSample Replicate: % RPD (JMDLUnitsLCLResultUCLQAQCIDLeadN/A%04.32020190626.A13.1DSample Replicate: % RPD (JParameterMDLUnitsLCLResultUCLQAQCIDSample Spike: LFMS-9 (mJMDLM1LCLResultUCLQAQCIDParameterMDLUnitsLCLResultUCLQAQCIDParameterMDLUnitsLCLResultUCLQAQCIDLeadN/A% Rec7086.513020190624.A13.1D	Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Reference Sample: CRM-12 (CPL-J) (12)Control of the control of the cont	Lead	N/A	%	80	88.7	120	20190624.A13.1D	
ParameterMDLUnitsLCLResultUCLQAQCIDLead1ug/L3.653.694.3520190624.A13.1DLead1ug/L3.654.044.3520190626.A13.1DSample Replicate: % RPD (JParameterMDLUnitsLCLResultUCLQAQCIDLeadN/A%04.302190626.A13.1DSample Spike: LFMS-9 (N-V=V=V=V=V=V=V=V=V=V=V=V=V=V=V=V=V=V=V=	Lead	N/A	%	80	92.7	120	20190626.A13.1D	
Lead1ug/L3.653.694.3520190624.A13.1DLead1ug/L3.654.044.3520190626.A13.1DSample Replicate: % RPD //ParameterMDLUnitsLCLResultUCLQAQCIDLeadN/A%04.32020190626.A13.1DSample Spike: LFMS-9 (N/X-Y)ParameterMDL%04.32020190626.A13.1DParameter (MDL%04.32020190626.A13.1DLeadMDLWItisLCLResultUCLQAQCIDLeadN/A% Rec7086.513020190624.A13.1D	Reference Sample: CRM-1	2 (EP-L-3) (12)						
Lead1ug/L3.654.044.3520190626.A13.1DSample Replicate: % RPD (4)ParameterMDLUnitsLCLResultUCLQAQCIDLeadN/A%04.32020190626.A13.1DSample Spike: LFMS-9 (N UCLMDLUnitsLCLResultUCLQAQCIDParameterMDLUnitsLCLResultUCLQAQCIDLeadMDLUnitsLCLResultUCLQAQCIDLeadN/A% Rec7086.513020190624.A13.1D	Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Sample Replicate: % RPD (4)ParameterMDLUnitsLCLResultUCLQAQCIDLeadN/A%04.32020190626.A13.1DParameter / MDLUnitsLCLResultUCLQAQCIDParameterMDLUnitsLCLResultUCLQAQCIDLeadN/A% Rec7086.513020190624.A13.1D	Lead	1	ug/L	3.65	3.69	4.35	20190624.A13.1D	
ParameterMDLUnitsLCLResultUCLQAQCIDLeadN/A%04.32020190626.A13.1DSample Spike: LFMS-9 (N-V-V-V-V-V-V-V-V-V-V-V-V-V-V-V-V-V-V-V	Lead	1	ug/L	3.65	4.04	4.35	20190626.A13.1D	
LeadN/A%04.32020190626.A13.1DSample Spike: LFMS-9 (N-V-V-V)ParameterMDLUnitsLCLResultUCLQAQCIDLeadN/A% Rec7086.513020190624.A13.1D	Sample Replicate: % RPD	(4)						
Sample Spike: LFMS-9 (N100 µg/L) (9)   Parameter MDL Units LCL Result UCL QAQCID   Lead N/A % Rec 70 86.5 130 20190624.A13.1D	Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
ParameterMDLUnitsLCLResultUCLQAQCIDLeadN/A% Rec7086.513020190624.A13.1D	Lead	N/A	%	0	4.3	20	20190626.A13.1D	
Lead N/A % Rec 70 86.5 130 20190624.A13.1D	Sample Spike: LFMS-9 (N 100 μg/L) (9)							
	Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead N/A % Rec 70 95.7 130 20190626.A13.1D	Lead	N/A	% Rec	70	86.5	130	20190624.A13.1D	
	Lead	N/A	% Rec	70	95.7	130	20190626.A13.1D	



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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
102C F	1449855	ICPMS Reg. Water (A13)	20190624.A13.1D	20190623.A52G
102C S	1449854	ICPMS Reg. Water (A13)	20190624.A13.1D	20190623.A52G
102E Flushed (F)	1449853	ICPMS Reg. Water (A13)	20190624.A13.1D	20190623.A52G
102E Standing (S)	1449852	ICPMS Reg. Water (A13)	20190624.A13.1D	20190623.A52G
12A Flushed	1449861	ICPMS Reg. Water (A13)	20190626.A13.1D	20190625.A52B
12A Standing	1449860	ICPMS Reg. Water (A13)	20190626.A13.1D	20190625.A52B
BF	1449859	ICPMS Reg. Water (A13)	20190626.A13.1D	20190625.A52B
BS	1449858	ICPMS Reg. Water (A13)	20190626.A13.1D	20190625.A52B
D F	1449857	ICPMS Reg. Water (A13)	20190624.A13.1D	20190623.A52G
D F	1449857r	ICPMS Reg. Water (A13)	20190624.A13.1D	20190623.A52G
DS	1449856	ICPMS Reg. Water (A13)	20190624.A13.1D	20190623.A52G