



WSP Canada Inc.
ATTN: Marc St-Germain
100 Commerce Valley Drive West
Thornhill ON L3T 0A1

Date Received: 23-JUL-19
Report Date: 06-AUG-19 13:34 (MT)
Version: FINAL

Client Phone: 905-882-4211

Certificate of Analysis

Lab Work Order #: L2318641
Project P.O. #: 191-09337-00
Job Reference: 500015393
C of C Numbers:
Legal Site Desc:

Nellie Gudzak
Account Manager

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ADDRESS: 95 West Beaver Creek Road, Unit 1, Richmond Hill, ON L4B 1H2 Canada | Phone: +1 905 881 9887 | Fax: +1 905 881 8062
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ANALYTICAL GUIDELINE REPORT

L2318641 CONTD....

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500015393

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2318641-1	~P1 FATHER J. VENINI CS 5000	15393-H102-BF-S								
Sampled By:	E. CLINE on 19-JUL-19 @ 03:48						#1	#2		
Matrix:	PLUMBING									
Total Metals										
Lead (Pb)		2.5		1.0	ug/L	01-AUG-19	10			
L2318641-2	~P2 FATHER J. VENINI CS 5000	15393-H102-BF-F								
Sampled By:	E. CLINE on 19-JUL-19 @ 04:32						#1	#2		
Matrix:	PLUMBING									
Total Metals										
Lead (Pb)		1.7		1.0	ug/L	01-AUG-19	10			
L2318641-3	~P1 FATHER J. VENINI CS 5000	15393-H144-DFR-S								
Sampled By:	E. CLINE on 19-JUL-19 @ 03:55						#1	#2		
Matrix:	PLUMBING									
Total Metals										
Lead (Pb)		1.3		1.0	ug/L	01-AUG-19	10			
L2318641-4	~P2 FATHER J. VENINI CS 5000	15393-H144-DFR-F								
Sampled By:	E. CLINE on 19-JUL-19 @ 04:32						#1	#2		
Matrix:	PLUMBING									
Total Metals										
Lead (Pb)		<1.0		1.0	ug/L	01-AUG-19	10			
L2318641-5	~P1 FATHER J. VENINI CS 5000	15393-H131-DFL-S								
Sampled By:	E. CLINE on 19-JUL-19 @ 03:50						#1	#2		
Matrix:	PLUMBING									
Total Metals										
Lead (Pb)		4.5		1.0	ug/L	01-AUG-19	10			
L2318641-6	~P2 FATHER J. VENINI CS 5000	15393-H131-DFL-F								
Sampled By:	E. CLINE on 19-JUL-19 @ 04:37						#1	#2		
Matrix:	PLUMBING									
Total Metals										
Lead (Pb)		2.3		1.0	ug/L	01-AUG-19	10			
L2318641-7	~P1 FATHER J. VENINI CS 5000	15393-H116-BF-S								
Sampled By:	E. CLINE on 19-JUL-19 @ 03:46						#1	#2		
Matrix:	PLUMBING									
Total Metals										
Lead (Pb)		2.2		1.0	ug/L	01-AUG-19	10			
L2318641-8	~P2 FATHER J. VENINI CS 5000	15393-H116-BF-F								
Sampled By:	E. CLINE on 19-JUL-19 @ 04:37						#1	#2		
Matrix:	PLUMBING									
Total Metals										
Lead (Pb)		1.2		1.0	ug/L	01-AUG-19	10			

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Drinking Water Regulation (ODWQS) JAN.1,2018 = [Suite] - ON-DW-STANDARD+GUIDELINES

#1: Schedule 1 (Microbiological) and 2 (Chemical) Standards (JAN,2018)

#2: Ontario DW Aesthetic and Operational Guidelines

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference***
PB-ONT-DW-243-WT	Water	Lead (O.Reg 243/07)	EPA 200.8
TURB-MET-WT	Water	Turbidity on preserved metals sample	APHA 2130 B
Sample result is based on a comparison of the intensity of the light scattered by the sample under defined conditions with the intensity of light scattered by a standard reference suspension under the same conditions. Sample readings are obtained from a Nephelometer.			

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA		

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg ww - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.



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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PB-ONT-DW-243-WT		Water						
Batch	R4737124							
WG3121293-4	DUP	WG3121293-3						
Lead (Pb)		<1.0	<1.0	RPD-NA	ug/L	N/A	20	01-AUG-19
WG3121293-2	LCS							
Lead (Pb)			97.6		%		70-130	01-AUG-19
WG3121293-1	MB							
Lead (Pb)			<1.0		ug/L		1	01-AUG-19
WG3121293-5	MS	WG3121293-3						
Lead (Pb)			93.4		%		70-130	01-AUG-19

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Environmental Division

DRINKING WATER CHAIN OF CUSTODY

ARE THE SAMPLES SUBJECT TO REGULATION 243/07?

YES **Circle One** **NO**

IF NO IS IT AVAILABLE FOR CONSUMPTION YES NO

Please place separate schools on a SEPARATE Chain of Custody

WORKS Durham Catholic District School Board		LAB QUOTE Q63028 PROJECT 191-09337-00	CONTACT NAME Scott Grieve		ANALYSES REQUESTED <small>Please indicate test for each sample by Checkmark in the box below</small>														FOR LAB USE ONLY			
SCHOOL NAME / ADDRESS Father J. Venini C.S. 120 Glovers Rd			CONTACT PHONE/FAX/EMAIL Scott.grieve@dcdsb.ca marc.st.germain@wsp.com paisley.mcdowell@wsp.com																SUBMISSION NO. L2318641			
MOE DWIS REGISTRATION# 500015393			LOCAL PUBLIC HEALTH UNIT Region of Durham Public Health																RECEIVED BY: [Signature]			
Co-Locate Facility: NAME/DWIS# FATHER JOSEPH VENINI 500270895		WORKS CATEGORY School <input checked="" type="checkbox"/> Private School <input type="checkbox"/> Nursery <input type="checkbox"/>	HEALTH UNIT CONTACT PHONE/FAX Tel: 905-668-7711 Fax: 905-666-6214																DATE/TIME: July 23/19 18:00			
SAMPLE DESCRIPTION - Please provide information to completely identify the sample location (e.g. School Name, Room #, etc). This description will appear on the Report.		Plumbing Sample Point Please indicate ONE	Sampling Date/Time		Ont DW Lead												Other (specify or attach):	Check if NOT ok	pH <2	Volume 1L	Time Check	TEMPERATURE AT RECEIPT: 23.3
			Date	Time																		LAB ID
STANDING		Stand Time (hh:mm)	TAP/ OTHER																			
Time-period Plumbing not in use																						
500015393 - H102-BF-S		6th	BF	July 19/19	3:48	✓																
↓ - H144 - DFR-S		↓	DF		3:55	✓																
↓ - H131 - DFL-S		↓	DF		3:50	✓																
↓ - H116 - BF-S		↓	BF		3:46	✓																
FLUSHED		Flush Time (hh:mm)	TAP/ OTHER																			
Length of Flushing Time																						
500015393 - H102-BF-F		5min	BF		4:32	✓																
- H144 - DFR-F		↓	DF		4:32	✓																
- H131 - DFL-F		↓	DF		4:37	✓																
- H116 - BF-F		↓	BF		4:37	✓																
RESAMPLE YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		Please ensure bottle is labelled similarly																				
SAMPLED BY (print): Emily Cline		Contact Number 289-380-3264		Other Comments/Cautions (Please identify known or suspected hazards) / Reference Info (P.O. #, Proj #) Please invoice to marc.st.germain@wsp.com																		
SUBMITTED TO LAB BY: (SIGNATURE) [Signature]		DATE July 23/19		WT-FM-0275f v05 Reg 243/07 CoC Date: 28-Feb-15 Page: 1 of 1																		

Please photocopy for your records.