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

Date Received: 13-JUL-17
Report Date: 20-JUL-17 11:10 (MT)
Version: FINAL

Client Phone: 905-882-4211

Certificate of Analysis

Lab Work Order #: L1958647

Project P.O. #: 171-09362-00
Job Reference: 500015250
C of C Numbers:
Legal Site Desc:

Emerson Perez, B.S.E
Account Manager

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits	Analyzed	Batch
L1958647-1 ~P1-ST BERNADETTE C.S.-500015250-133-S Sampled By: PAISLEY MCDOWELL on 13-JUL-17 @ 03:32 Matrix: PLUMBING					ON-DWSTANDARD		
Individual Analytes							
Lead (Pb)	<1.0		1.0	ug/L	10	17-JUL-17	R3775608
L1958647-2 ~P1-ST BERNADETTE C.S.-500015250-110-S Sampled By: PAISLEY MCDOWELL on 13-JUL-17 @ 03:29 Matrix: PLUMBING					ON-DWSTANDARD		
Individual Analytes							
Lead (Pb)	<1.0		1.0	ug/L	10	17-JUL-17	R3775608
L1958647-3 ~P1-ST BERNADETTE C.S.-500015250-107D-S Sampled By: PAISLEY MCDOWELL on 13-JUL-17 @ 03:27 Matrix: PLUMBING					ON-DWSTANDARD		
Individual Analytes							
Lead (Pb)	<1.0		1.0	ug/L	10	17-JUL-17	R3775608
L1958647-4 ~P1-ST BERNADETTE C.S.-500015250-109SS-S Sampled By: PAISLEY MCDOWELL on 13-JUL-17 @ 03:23 Matrix: PLUMBING					ON-DWSTANDARD		
Individual Analytes							
Lead (Pb)	<1.0		1.0	ug/L	10	17-JUL-17	R3775608
L1958647-5 ~P1-ST BERNADETTE C.S.-500015250-113SS-S Sampled By: PAISLEY MCDOWELL on 13-JUL-17 @ 03:19 Matrix: PLUMBING					ON-DWSTANDARD		
Individual Analytes							
Lead (Pb)	<1.0		1.0	ug/L	10	17-JUL-17	R3775608
L1958647-6 ~P1-ST BERNADETTE C.S.-500015250-113H-S Sampled By: PAISLEY MCDOWELL on 13-JUL-17 @ 03:20 Matrix: PLUMBING					ON-DWSTANDARD		
Individual Analytes							
Lead (Pb)	<1.0		1.0	ug/L	10	17-JUL-17	R3775608
L1958647-7 ~P1-ST BERNADETTE C.S.-500015250-118SS-S Sampled By: PAISLEY MCDOWELL on 13-JUL-17 @ 03:22 Matrix: PLUMBING					ON-DWSTANDARD		
Individual Analytes							
Lead (Pb)	<1.0		1.0	ug/L	10	17-JUL-17	R3775608
L1958647-8 ~P2-ST BERNADETTE C.S.-500015250-133-F Sampled By: PAISLEY MCDOWELL on 13-JUL-17 @ 04:09 Matrix: PLUMBING					ON-DWSTANDARD		
Individual Analytes							
Lead (Pb)	<1.0		1.0	ug/L	10	17-JUL-17	R3775608

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

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits	Analyzed	Batch
L1958647-9 ~P2-ST BERNADETTE C.S-500015250-110-F Sampled By: PAISLEY MCDOWELL on 13-JUL-17 @ 04:10 Matrix: PLUMBING					ON-DWSTANDARD		
Individual Analytes							
Lead (Pb)	<1.0		1.0	ug/L	10	17-JUL-17	R3775608
L1958647-10 ~P2-ST BERNADETTE C.S-500015250-107D-F Sampled By: PAISLEY MCDOWELL on 13-JUL-17 @ 04:10 Matrix: PLUMBING					ON-DWSTANDARD		
Individual Analytes							
Lead (Pb)	<1.0		1.0	ug/L	10	17-JUL-17	R3775608
L1958647-11 ~P2-ST BERNADETTE C.S-500015250-109SS-F Sampled By: PAISLEY MCDOWELL on 13-JUL-17 @ 04:10 Matrix: PLUMBING					ON-DWSTANDARD		
Individual Analytes							
Lead (Pb)	<1.0		1.0	ug/L	10	17-JUL-17	R3775608
L1958647-12 ~P2-ST BERNADETTE C.S-500015250-113SS-F Sampled By: PAISLEY MCDOWELL on 13-JUL-17 @ 04:11 Matrix: PLUMBING					ON-DWSTANDARD		
Individual Analytes							
Lead (Pb)	<1.0		1.0	ug/L	10	17-JUL-17	R3775608
L1958647-13 ~P2-ST BERNADETTE C.S-500015250-113H-F Sampled By: PAISLEY MCDOWELL on 13-JUL-17 @ 04:11 Matrix: PLUMBING					ON-DWSTANDARD		
Individual Analytes							
Lead (Pb)	<1.0		1.0	ug/L	10	17-JUL-17	R3775608
L1958647-14 ~P2-ST BERNADETTE C.S-500015250-118SS-F Sampled By: PAISLEY MCDOWELL on 13-JUL-17 @ 04:12 Matrix: PLUMBING					ON-DWSTANDARD		
Individual Analytes							
Lead (Pb)	<1.0		1.0	ug/L	10	17-JUL-17	R3775608

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

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Preparation Method Reference(Based On)	Analytical Method Reference(Based On)
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.

Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

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 wwt - 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 criteria limits 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.

Quality Control Report

Workorder: L1958647 Report Date: 20-JUL-17

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

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PB-ONT-DW-243-WT	**Water**							
Batch R3775608								
WG2571717-4 DUP		**WG2571717-3**						
Lead (Pb)		<1.0	<1.0	RPD-NA	ug/L	N/A	20	17-JUL-17
WG2571717-2 LCS								
Lead (Pb)			99.0		%		70-130	17-JUL-17
WG2571717-1 MB								
Lead (Pb)			<1.0		ug/L		1	17-JUL-17
WG2571717-5 MS		**WG2571717-3**						
Lead (Pb)			95.6		%		70-130	17-JUL-17

Quality Control Report

Workorder: L1958647 Report Date: 20-JUL-17

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

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.

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

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

ALS-Waterloo, 60 Northland Road, Unit 1, Waterloo, Ontario N2V 2B8
Phone: 519-886-6910 Fax: 519-886-9047 Toll-Free 1-800-668-9878

WORKS: **Durham Catholic District School Board**	LAB QUOTE **Q63028** / PROJECT **171-09362-00**	CONTACT NAME: **Scott Grieve**
SCHOOL NAME / ADDRESS: St. Bernadette C.S. 41 Bayly St, Ajax, ON L1S 1P2		CONTACT PHONE/FAX /EMAIL: Scott.grieve@dcdsb.ca; marc.st.germain@wsp.com; Conrad.goericke@wsp.com
MOE DWIS REGISTRATION# 500015250		LOCAL PUBLIC HEALTH UNIT: Region of Durham Public Health
Co-Locate Facility: NAME/DWIS# PRYDE Learning Center 500267047	WORKS CATEGORY: School ☒ Private School ☐ Nursery ☐	HEALTH UNIT CONTACT PHONE/FAX: Tel: 905-668-7711 Fax: 905-666-6214

SAMPLE DESCRIPTION - Please provide information to completely identify the sample location (e.g. School Name, Room #, etc). This description will appear on the Report.	Stand Time (hh:mm)	Plumbing Sample Point (Please indicate ONE: TAP/ OTHER)	Sampling Date/Time: Date	Time	Ont DW Lead	Other (specify or attach):	Check if NOT ok	pH <2	Volume 1L	Time Check
STANDING										
Time-period Plumbing not in use										
500015250-133-S	6hr	fountain	July 13 17	8:32	X					
4 -110-S		"		3:29	X					
-107D-S		sink		8:27	X					
-109SS-S				3:23	X					
-113SS-S				3:19	X					
FLUSHED	Flush Time (hh:mm)	TAP/ OTHER								
Length of Flushing Time										
500015250-133-F	5min	fountain	July 13 17	4:09	X					
-110-F		"		4:10	X					
-107D-F		sink		4:10	X					
-109SS-F				4:10	X					
-113SS-F				4:11	X					

L1958647-COFC

RESAMPLE YES ☐ NO ☒ Please ensure bottle is labelled similarly

SAMPLED BY (print): Paisley McDowell	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)	DATE: July 13 17	

FOR LAB USE ONLY
SUBMISSION NO: L1958647 14C 40K
RECEIVED BY: DA
DATE/TIME: 13/07/17 17:30
TEMPERATURE AT RECEIPT: 21.3
LAB ID: 1 2 3 4 5 9 9 10 11 12

Please photocopy for your records.

s Laboratory Group
TICAL CHEMISTRY & TESTING SERVICES

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

ALS-Waterloo, 60 Northland Road, Unit 1, Waterloo, Ontario N2V 2B8
Phone: 519-886-6910 Fax: 519-886-9047 Toll-Free 1-800-668-9878

WORKS	LAB QUOTE Q63028	CONTACT NAME
Durham Catholic District School Board	PROJECT 171-09362-00	Scott Grieve

SCHOOL NAME / ADDRESS: St. Bernadette C.S. 41 Bayly St. Ajax. ON L1S 1P2

CONTACT PHONE/FAX /EMAIL:
Scott.grieve@dcdsb.ca
marc.st.germain@wsp.com
Conrad.goericke@wsp.com

MOE DWIS REGISTRATION# 500015250

LOCAL PUBLIC HEALTH UNIT: Region of Durham Public Health

Co-Locate Facility: NAME/DWIS#: PRYDE Learning Centers 500207044

WORKS CATEGORY: School ☒ Private School ☐ Nursery ☐

HEALTH UNIT CONTACT PHONE/FAX: Tel: 905-668-7711 Fax: 905-666-6214

ANALYSES REQUESTED
Please indicate test for each sample by Checkmark in the box below

FOR LAB USE ONLY
SUBMISSION NO.
RECEIVED BY: DA
DATE/TIME: 13/07/17 10:30
TEMPERATURE AT RECEIPT: 2.3

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: Date	Time	Ont DW Lead	Other (specify or attach):	Check if NOT ok	pH <2	Volume 1L	Time Check	LAB ID
STANDING	Stand Time (hh:mm) / TAP/ OTHER									
Time-period Plumbing not in use										
500015250 - 113H - S	6 hr / fountain	July 13/17	3:20	X						6
" 118-55-S	" / sink	"	3:22	X						7
FLUSHED	Flush Time (hh:mm) / TAP/ OTHER									
Length of Flushing Time										
500015250 - 113H-F	5 min / fountain	July 13/17	4:11	X						13
" - 118S5-F	" / sink	"	4:12	X						14

L1958647-COFC

RESAMPLE YES ☐ NO ☒ Please ensure bottle is labelled similarly

SAMPLED BY (print): Paisley McDowell
Contact Number: 289 380 3264
SUBMITTED TO LAB BY: (SIGNATURE) PMcDowell
DATE: July 13/17

Other Comments/Cautions (Please identify known or suspected hazards) / Reference Info (P.O. #, Proj #)
Please invoice to marc.st.germain@wsp.com

Please photocopy for your records.