



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

Date Received: 11-JUL-17  
Report Date: 14-JUL-17 10:31 (MT)  
Version: FINAL

Client Phone: 905-882-4211

## Certificate of Analysis

Lab Work Order #: L1956696  
Project P.O. #: NOT SUBMITTED  
Job Reference: 500015497  
C of C Numbers:  
Legal Site Desc:

Emerson Perez, B.S.E  
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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# CRITERIA REPORT

L1956696 CONTD....

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500015497

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits	Analyzed	Batch
L1956696-1 ~P1 ST ISAAC JOGUES C.S. Sampled By: PAISLEY MCDOWELL on 11-JUL-17 @ 05:35 Matrix: PLUMBING	500015497-101-S-S				ON-DWSTANDARD		
<b>Individual Analytes</b> Lead (Pb)	2.0		1.0	ug/L	10	13-JUL-17	R3771386
L1956696-2 ~P1 ST ISAAC JOGUES C.S. Sampled By: PAISLEY MCDOWELL on 11-JUL-17 @ 05:37 Matrix: PLUMBING	500015497-106-S				ON-DWSTANDARD		
<b>Individual Analytes</b> Lead (Pb)	2.8		1.0	ug/L	10	13-JUL-17	R3771386
L1956696-3 ~P1 ST ISAAC JOGUES C.S. Sampled By: PAISLEY MCDOWELL on 11-JUL-17 @ 05:40 Matrix: PLUMBING	500015497-159-S				ON-DWSTANDARD		
<b>Individual Analytes</b> Lead (Pb)	1.9		1.0	ug/L	10	13-JUL-17	R3771386
L1956696-4 ~P1 ST ISAAC JOGUES C.S. Sampled By: PAISLEY MCDOWELL on 11-JUL-17 @ 05:42 Matrix: PLUMBING	500015497-127-S				ON-DWSTANDARD		
<b>Individual Analytes</b> Lead (Pb)	1.2		1.0	ug/L	10	13-JUL-17	R3771386
L1956696-5 ~P1 ST ISAAC JOGUES C.S. Sampled By: PAISLEY MCDOWELL on 11-JUL-17 @ 05:44 Matrix: PLUMBING	500015497-111-S				ON-DWSTANDARD		
<b>Individual Analytes</b> Lead (Pb)	2.7		1.0	ug/L	10	13-JUL-17	R3771386
L1956696-6 ~P2 ST ISAAC JOGUES C.S. Sampled By: PAISLEY MCDOWELL on 11-JUL-17 @ 06:20 Matrix: PLUMBING	500015497-101-S-F				ON-DWSTANDARD		
<b>Individual Analytes</b> Lead (Pb)	<1.0		1.0	ug/L	10	13-JUL-17	R3771386
L1956696-7 ~P2 ST ISAAC JOGUES C.S. Sampled By: PAISLEY MCDOWELL on 11-JUL-17 @ 06:21 Matrix: PLUMBING	500015497-106-F				ON-DWSTANDARD		
<b>Individual Analytes</b> Lead (Pb)	1.2		1.0	ug/L	10	13-JUL-17	R3771386
L1956696-8 ~P2 ST ISAAC JOGUES C.S. Sampled By: PAISLEY MCDOWELL on 11-JUL-17 @ 06:21 Matrix: PLUMBING	500015497-159-F				ON-DWSTANDARD		
<b>Individual Analytes</b> Lead (Pb)	<1.0		1.0	ug/L	10	13-JUL-17	R3771386

\* 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.

# CRITERIA REPORT

L1956696 CONTD....

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500015497

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits	Analyzed	Batch
L1956696-9 -P2 ST ISAAC JOGUES C.S. Sampled By: PAISLEY MCDOWELL on 11-JUL-17 @ 06:23 Matrix: PLUMBING  <b>Individual Analytes</b> Lead (Pb)	500015497-127-F <1.0		1.0	ug/L	ON-DWSTANDARD  10	13-JUL-17	R3771386
L1956696-10 -P2 ST ISAAC JOGUES C.S. Sampled By: PAISLEY MCDOWELL on 11-JUL-17 @ 06:19 Matrix: PLUMBING  <b>Individual Analytes</b> Lead (Pb)	500015497-111-F 1.0		1.0	ug/L	ON-DWSTANDARD  10	13-JUL-17	R3771386

\* 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

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## 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: L1956696

Report Date: 14-JUL-17

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Client: WSP Canada Inc.  
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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>PB-ONT-DW-243-WT</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R3771386</b>							
<b>WG2569291-4</b>	<b>DUP</b>	<b>WG2569291-3</b>						
Lead (Pb)		1.6	1.6		ug/L	0.1	20	13-JUL-17
<b>WG2569291-2</b>	<b>LCS</b>							
Lead (Pb)			101.3		%		70-130	13-JUL-17
<b>WG2569291-1</b>	<b>MB</b>							
Lead (Pb)			<1.0		ug/L		1	13-JUL-17
<b>WG2569291-5</b>	<b>MS</b>	<b>WG2569291-3</b>						
Lead (Pb)			93.6		%		70-130	13-JUL-17

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## Legend:

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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

## 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.

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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.



L1956696-COFC

Environmental Division



**DRINKING WATER CHAIN OF CUSTODY**

ARE THE SAMPLES SUBJECT TO REGULATION 243/07?  
 YES  NO Circle One  
 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		ANALYSES REQUESTED Please indicate test for each sample by Checkmark in the box below										FOR LAB USE ONLY							
SCHOOL NAME / ADDRESS St. Isaac Jogues Crs. 1166 Finch Ave Pickering - ON L1V 1J6		CONTACT PHONE/FAX /EMAIL Scott.grieve@dcdsb.ca marc.st.germain@wsp.com Conrad.goericke@wsp.com		LOCAL PUBLIC HEALTH UNIT Region of Durham Public Health		Ont DW Lead										Other (specify or attach):	Check if NOT ok	pH <2	Volume 1L	Time Check	SUBMISSION NO. L1956696	
MOE DWIS REGISTRATION# 500015497		HEALTH UNIT CONTACT PHONE/FAX Tel: 905-668-7711 Fax: 905-666-6214		DATE/TIME: 11/07/2011 17:30																		
Co-Locate Facility: NAME/DWIS# St. Isaac Jogues 500337962		WORKS CATEGORY School <input checked="" type="checkbox"/> Private School <input type="checkbox"/> Nursery <input type="checkbox"/>		TEMPERATURE AT RECEIPT: 23.0																		
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		LAB ID																		
STANDING		Stand Time (hh:mm)		TAP/ OTHER																		
Time-period Plumbing not in use																						
500015497-101-S-S		6hr		sink		July 11/17		5:35		X										1		
" 106-S		↓		fountain		↓		5:37		X										2		
" 159-S		↓		sink		↓		5:40		X										3		
" 127-S		↓		fountain		↓		5:42		X										4		
" 111-S		↓		sink		↓		5:44		X										5		
FLUSHED		Flush Time (hh:mm)		TAP/ OTHER																		
Length of Flushing Time																						
500015497-101-S-F		5min		Sink		July 11/17		6:20		X										6		
" 106-F		↓		Font.		↓		6:21		X										7		
" 159-F		↓		sink		↓		6:21		X										8		
" 127-F		↓		Font.		↓		6:23		X										9		
" 111-F		↓		sink		↓		6:19		X										10		
RESAMPLE YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		Please ensure bottle is labelled similarly		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																
SAMPLED BY (print): Dwight McDowell		SUBMITTED TO LAB BY: (SIGNATURE) D McDowell		DATE July 11 2011																		