



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

Date Received: 28-MAY-20
Report Date: 04-JUN-20 14:27 (MT)
Version: FINAL

Client Phone: 905-882-4211

Certificate of Analysis

Lab Work Order #: L2454257
Project P.O. #: 191-09337-01
Job Reference: 500015471
C of C Numbers:
Legal Site Desc:

Candice Hunter
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 95 West Beaver Creek Road, Unit 1, Richmond Hill, ON L4B 1H2 Canada | Phone: +1 905 881 9887 | Fax: +1 905 881 8062
ALS CANADA LTD Part of the ALS Group An ALS Limited Company



ANALYTICAL GUIDELINE REPORT

500015471

Table with 10 columns: Sample Details Grouping, Analyte, Result, Qualifier, D.L., Units, Analyzed, and Guideline Limits (subdivided into #1, #2, and two empty columns). It contains two data rows for samples L2454257-1 and L2454257-2, both showing Lead (Pb) results of 2.6 and 1.5 respectively, against a guideline limit of 1.0 ug/L.

** 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.1,2020 = [Suite] - ON-DW-STANDARD+GUIDELINES
#1: Schedule 1 (Microbiological) and 2 (Chemical) Standards (JAN,2020) #2: Ontario DW Aesthetic and Operational Guidelines (June, 2006)

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.



Quality Control Report

Workorder: L2454257

Report Date: 04-JUN-20

Page 1 of 2

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	R5106358							
WG3335043-4	DUP	WG3335043-3						
Lead (Pb)		2.3	2.4		ug/L	6.3	20	04-JUN-20
WG3335043-2	LCS							
Lead (Pb)			98.3		%		70-130	04-JUN-20
WG3335043-1	MB							
Lead (Pb)			<1.0		ug/L		1	04-JUN-20
WG3335043-5	MS	WG3335043-3						
Lead (Pb)			94.7		%		70-130	04-JUN-20

Quality Control Report

Workorder: L2454257

Report Date: 04-JUN-20

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

Page 2 of 2

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

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.



L2454257-COFC

Environmental Division

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

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		LAB QUOTE Q63028	CONTACT NAME		ANALYSES REQUESTED												FOR LAB USE ONLY		
Durham Catholic District School Board		PROJECT 91-09337-01	Scott Grieve		Please indicate test for each sample by Checkmark in the box below												SUBMISSION NO.		
SCHOOL NAME / ADDRESS		CONTACT PHONE/FAX /EMAIL		<div style="display: flex; justify-content: space-between;"> <div> <p>Msgr J. Pereyema C.S.S</p> <p>316 Conant St.</p> </div> <div> <p>Scott.grieve@dcdsb.ca</p> <p>marc.st.germain@wsp.com</p> <p>daniel.buck@wsp.com</p> </div> </div>												RECEIVED BY:			
MOE DWIS REGISTRATION#		LOCAL PUBLIC HEALTH UNIT														DATE/TIME:			
500015471		Region of Durham Public Health														13:00 17:30			
Co-Locate Facility: NAME/DWIS#		HEALTH UNIT CONTACT PHONE/FAX														May 28/20			
WORKS CATEGORY		Tel: 905-668-7711		TEMPERATURE AT															
School <input checked="" type="checkbox"/> Private School <input type="checkbox"/>		Fax: 905-666-6214		RECEIPT:															
Nursery <input type="checkbox"/>				15.4 17.7															
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		Sampling Date/Time		<div style="display: flex; justify-content: space-between;"> <div> <p>Ont DW Lead</p> </div> <div> <p>Other (specify or attach):</p> </div> <div> <p>Check if NOT ok</p> </div> <div> <p>pH <2</p> </div> <div> <p>Volume 1L</p> </div> <div> <p>Time Check</p> </div> </div>												LAB ID	
		Please indicate ONE																	
STANDING		Stand Time (hh:mm)		TAP/ OTHER															
Time-period Plumbing not in use																			
500015471-H108-DF-S		6+		DF		5/27/20 18:11												X	
FLUSHED		Flush Time (hh:mm)		TAP/ OTHER															
Length of Flushing Time																			
500015471-H108-DF-F		00:05		DF		5/27/20 18:54												X	
RESAMPLE YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		Please ensure bottle is labelled similarly																	
SAMPLED BY (print):		Contact Number		Other Comments/Cautions (Please identify known or suspected hazards) / Reference Info (P.O. #, Proj #)															
Meredith Cake		437-213-4850		Please invoice to marc.st.germain@wsp.com															
SUBMITTED TO LAB BY: (SIGNATURE)		DATE																	
		5/27/2020																	