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

Date Received: 19-JUN-20
Report Date: 29-JUN-20 09:36 (MT)
Version: FINAL

Client Phone: 905-882-4211

# Certificate of Analysis

## Lab Work Order #: L2463727

Project P.O. #: 191-09337-01
Job Reference: 500013911
C of C Numbers:
Legal Site Desc:

Candice Hunter
Account Manager

| Sample Details Grouping | Analyte | Result | Qualifier | D.L. | Units | Analyzed | Guideline Limits | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| L2463727-1 | ~P1 ST. JAMES-500013911-H103-BFF-S | | | | | | | | | |
| Sampled By: | M. CAKE on 18-JUN-20 @ 13:30 | | | | | | | | | |
| Matrix: | PLUMBING | | | | | | #1 | #2 | | |
| **Total Metals** | | | | | | | | | | |
| | Lead (Pb) | 2.0 | | 1.0 | ug/L | 25-JUN-20 | 10 | | | |
| L2463727-2 | ~P2 ST. JAMES-500013911-H103-BFF-F | | | | | | | | | |
| Sampled By: | M. CAKE on 18-JUN-20 @ 14:06 | | | | | | | | | |
| Matrix: | PLUMBING | | | | | | #1 | #2 | | |
| **Total Metals** | | | | | | | | | | |
| | Lead (Pb) | 1.1 | | 1.0 | ug/L | 25-JUN-20 | 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.1,2020 = [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 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 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: L2463727 Report Date: 29-JUN-20 

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 R5131861** | | | | | | | | |
| **WG3348810-4 DUP** | | **WG3348810-3** | | | | | | |
| Lead (Pb) | | 2.0 | 2.0 | | ug/L | 0.6 | 20 | 25-JUN-20 |
| **WG3348810-2 LCS** | | | | | | | | |
| Lead (Pb) | | | 91.6 | | % | | 70-130 | 25-JUN-20 |
| **WG3348810-1 MB** | | | | | | | | |
| Lead (Pb) | | | <1.0 | | ug/L | | 1 | 25-JUN-20 |
| **WG3348810-5 MS** | | **WG3348810-3** | | | | | | |
| Lead (Pb) | | | 90.7 | | % | | 70-130 | 25-JUN-20 |

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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 |

**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.

ALS Laboratory Group
ANALYTICAL CHEMISTRY &

L2463727-COFC

**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 191-09337-01 | Scott Grieve |

SCHOOL NAME / ADDRESS: St. James, 10 Clover Ridge Dr. W

CONTACT PHONE/FAX /EMAIL: Scott.grieve@dcdsb.ca; marc.st.germain@wsp.com; daniel.buck@wsp.com

**MOE DWIS REGISTRATION#**: 5000 13911

LOCAL PUBLIC HEALTH UNIT: Region of Durham Public Health

Co-Locate Facility: NAME/DWIS#

WORKS CATEGORY: School ☒ Private School ☐ Nursery ☐

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

**FOR LAB USE ONLY**
SUBMISSION NO.: L2463727
RECEIVED BY:
DATE/TIME: 19/06/18 9:00
TEMPERATURE AT RECEIPT: 24.2
LAB ID

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

| 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 | Sampling Time | Ont DW Lead | Other (specify or attach): | Check if NOT ok | pH <2 | Volume 1L | Time Check |
|---|---|---|---|---|---|---|---|---|---|
| **STANDING** | Stand Time (hh:mm) | TAP/ OTHER | | | | | | | |
| **Time-period Plumbing not in use** | | | 30 | | | | | | |
| 50001391I - H103- BFF - #5 | 6+ | DF | 18/6/2020 13:~~00~~ | X | | ✓ | ✓ | | |
| **FLUSHED** | Flush Time (hh:mm) | TAP/ OTHER | | | | | | | |
| **Length of Flushing Time** | ~~0~~ | | 14:06 | | | | | | |
| 50001391I - H103- BFF-F | 5min | DF | 18/6/2020 ~~14:06~~ | X | | ✓ | | | |

RESAMPLE YES ☐ NO ☒ Please ensure bottle is labelled similarly

SAMPLED BY (print): Meredith Cake
Contact Number: 437-213-4850
SUBMITTED TO LAB BY: (SIGNATURE)
DATE: 18/6/2020

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

WT-FM-0275f v05 Reg 243/07 CoC
Date: 28-Feb-15
Page: 1 of 1

Please photocopy for your records.