



WSP Canada Inc.  
ATTN: Daniel Buck  
100 Commerce Valley Drive West  
Thornhill ON L3T 0A1

Date Received: 18-JUL-22  
Report Date: 01-AUG-22 09:52 (MT)  
Version: FINAL

Client Phone: 905-882-4211

## Certificate of Analysis

Lab Work Order #: L2724511  
Project P.O. #: 191-09337-01  
Job Reference: 500015783  
C of C Numbers:  
Legal Site Desc:

Candice Hunter  
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

500015783

| Sample Details                          |  | Result | Qualifier | D.L. | Units | Analyzed  | Guideline Limits |    |  |  |  |  |  |  |
|---|--|--------|-----------|------|-------|-----------|------------------|----|--|--|--|--|--|--|
| Grouping                                | Analyte                                |        |           |      |       |           | #1               | #2 |  |  |  |  |  |  |
| L2724511-1                              | ~P1 ST. THERESA CS 500015783-H117-BF-S |        |           |      |       |           |                  |    |  |  |  |  |  |  |
| Sampled By: JAMES ANDREW on 15-JUL-22 @ |  |        |           |      |       |           |                  |    |  |  |  |  |  |  |
| Matrix: PLUMBING                        |  |        |           |      |       |           |                  |    |  |  |  |  |  |  |
| <b>Total Metals</b>                     |  |        |           |      |       |           |                  |    |  |  |  |  |  |  |
| Lead (Pb)                               |  | 3.5    |           | 1.0  | ug/L  | 28-JUL-22 | 10               |    |  |  |  |  |  |  |
| L2724511-2                              | ~P2 ST. THERESA CS 500015783-H117-BF-F |        |           |      |       |           |                  |    |  |  |  |  |  |  |
| Sampled By: JAMES ANDREW on 15-JUL-22 @ |  |        |           |      |       |           |                  |    |  |  |  |  |  |  |
| Matrix: PLUMBING                        |  |        |           |      |       |           |                  |    |  |  |  |  |  |  |
| <b>Total Metals</b>                     |  |        |           |      |       |           |                  |    |  |  |  |  |  |  |
| Lead (Pb)                               |  | <1.0   |           | 1.0  | ug/L  | 28-JUL-22 | 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<br>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,<br>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.



Environmental

### Quality Control Report

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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>R5829361</b> |                    |        |           |       |     |        |           |
| <b>WG3752964-4</b>      | <b>DUP</b>      | <b>WG3752964-3</b> |        |           |       |     |        |           |
| Lead (Pb)               |                 | 8.0                | 7.8    |           | ug/L  | 2.6 | 20     | 28-JUL-22 |
| <b>WG3752964-2</b>      | <b>LCS</b>      |                    |        |           |       |     |        |           |
| Lead (Pb)               |                 |                    | 103.5  |           | %     |     | 70-130 | 28-JUL-22 |
| <b>WG3752964-1</b>      | <b>MB</b>       |                    |        |           |       |     |        |           |
| Lead (Pb)               |                 |                    | <1.0   |           | ug/L  |     | 1      | 28-JUL-22 |
| <b>WG3752964-5</b>      | <b>MS</b>       | <b>WG3752964-3</b> |        |           |       |     |        |           |
| Lead (Pb)               |                 |                    | 91.1   |           | %     |     | 70-130 | 28-JUL-22 |

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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.



L2724511-COFC

20W

ALS Laboratory Group  
ANALYTICAL CHEMISTRY & TESTING SERVICES



DRINKING WATER CHAIN OF CUSTODY

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

|                         |   |  |
|-------------------------|---|--|
| Invoice Details:        | SELECT SERVICE BELOW<br>(RUSH service must be pre-arranged: extra surcharges are applied) | ARE THE SAMPLES SUBJECT TO REGULATION 243/07?<br><input checked="" type="radio"/> YES <input type="radio"/> NO |
| Quote #: Q63028         | <input checked="" type="checkbox"/> Regular (± 10 days)                                   | IF NO IS IT AVAILABLE FOR CONSUMPTION <input type="checkbox"/> YES <input type="checkbox"/> NO                 |
| Project #: 191-09337-04 | <input type="checkbox"/> Rush (Specify):<br>Due Date: _____                               | *Please place separate schools on a SEPARATE Chain of Custody  |

|   |   |  |  |
|---|---|--|--|
| WORKS: Durham Catholic District School Board<br>SCHOOL NAME: <u>St Theresa CS</u> | CONTACT NAME:<br>WSP: Daniel Buck, Marc St. Germain<br>DCDSB: Scott Grieve  | ADDRESS:<br><u>173 Crawford St, Whitby</u>                       | ANALYSES REQUESTED<br>Please indicate test for each sample by checkmark in box below     |
| MOE DWIS REGISTRATION#<br><u>500015783</u>  | CONTACT PHONE, FAX / EMAIL<br>•Main: 437-213-4850, daniel.buck@wsp.com<br>•Phone: 9057131211 X13809<br>•Email: Claudia.Henry@dcdsb.ca, Scott.grieve@dcdsb.ca, daniel.buck@wsp.com | LOCAL PUBLIC HEALTH UNIT NAME:<br>Region of Durham Public Health | LOCAL PUBLIC HEALTH UNIT CONTACT PHONE/FAX<br>•Phone: 905-668-7711<br>•Fax: 905-666-6214 |

|  |   |   |   |
|--|---|---|---|
| ALS LAB Work Order # (lab use only):<br><u>L2724511 9A</u> | WORKS CATEGORY<br>School <input checked="" type="checkbox"/> Nursery <input type="checkbox"/> Private School <input type="checkbox"/> | LENGTH PLUMBING UNUSED (hours, minutes)<br>(hh): <u>6</u> (mm): _____ | LENGTH OF FLUSHING TIME (minutes)<br>(mm): <u>5</u> |
|--|---|---|---|

| Sample # (lab use only) | SAMPLE LOCATION/FIXTURE ID | Sample Type    | Sample Point | Sampling Date/Time |                                     | Ont DW Lead (Reg. 243/07)           | Sample/Fixture Comment (lab use only) |
|-------------------------|----------------------------|----------------|--------------|--------------------|-------------------------------------|-------------------------------------|---------------------------------------|
|                         |                            |                |              | Date (dd/mm/yyyy)  | Time (hh:mm)                        |                                     |                                       |
|                         | <u>500015783-H117-BF-S</u> | Standing (-P1) | <u>BF</u>    | <u>15/07/2022</u>  | <u>8:18</u>                         | <input checked="" type="checkbox"/> |                                       |
|                         | <u>11 -F</u>               | Flushed (-P2)  |              | <u>8:53</u>        | <input checked="" type="checkbox"/> |                                     |                                       |
|                         |                            | Standing (-P1) |              |                    |                                     |                                     |                                       |
|                         |                            | Flushed (-P2)  |              |                    |                                     |                                     |                                       |
|                         |                            | Standing (-P1) |              |                    |                                     |                                     |                                       |
|                         |                            | Flushed (-P2)  |              |                    |                                     |                                     |                                       |
|                         |                            | Standing (-P1) |              |                    |                                     |                                     |                                       |
|                         |                            | Flushed (-P2)  |              |                    |                                     |                                     |                                       |
|                         |                            | Standing (-P1) |              |                    |                                     |                                     |                                       |
|                         |                            | Flushed (-P2)  |              |                    |                                     |                                     |                                       |
|                         |                            | Standing (-P1) |              |                    |                                     |                                     |                                       |
|                         |                            | Flushed (-P2)  |              |                    |                                     |                                     |                                       |
|                         |                            | Standing (-P1) |              |                    |                                     |                                     |                                       |
|                         |                            | Flushed (-P2)  |              |                    |                                     |                                     |                                       |
|                         |                            | Standing (-P1) |              |                    |                                     |                                     |                                       |
|                         |                            | Flushed (-P2)  |              |                    |                                     |                                     |                                       |

|  |   |  |
|--|---|--|
| Co-Locate Facility: NAME/DWIS#<br>•Name: <u>St Theresa CCC</u> | RESAMPLE<br>YES <input type="checkbox"/><br>NO <input checked="" type="checkbox"/>  | SAMPLE CONDITION AS RECEIVED (lab use only): Please Circle Y - Yes / N - No<br>pH <2 (Y/N) Volume 1L (Y/N) Time Check (Y/N) Other (specify or attach) (Y/N)<br>*If (N), note detail in Sample/Fixture Comment column |
| •DWIS#: <u>500366464</u>                                       | Sample Point Legend<br>• TAP - i.e. Tap, Sink, Faucet<br>• DF - Drinking Fountain<br>• BF - Bottle Filler<br>*Each sample point will have a standing and a flushed sample | INITIAL COOLER TEMPERATURE<br><u>23.2</u>  |

|  |  |   |
|--|--|---|
| SAMPLER INFORMATION<br>Sampled by: <u>James Andrew</u> Date: <u>15/07/22</u> Time: <u>8:53</u> | SHIPMENT INFORMATION<br>Submitted to lab by: _____ Date: _____ Time: _____ | FINAL SHIPMENT RECEPTION (lab use only)<br>Received by: <u>[Signature]</u> Date: <u>7/18/22</u> Time: <u>1000</u> |
|--|--|---|

Please photocopy for your records.