

**BRUCE A. BROWN ASSOCIATES LIMITED**

*Consultants in the Environmental and Applied Earth Sciences*

101-102 Aerodrome Crescent

Toronto, Ontario, Canada M4G 4J4

Tel: (416) 424-3355 Email [bruce@brownassociates.ca](mailto:bruce@brownassociates.ca)

Project 20\*4676

July 20, 2022

Attn: Mr. Giancarlo Pennino,

City Park Holdings Inc.

950 Nashville Road

Kleinburg, ON

L0J 1C0

Email: [gpennino@cityparkhomes.ca](mailto:gpennino@cityparkhomes.ca)

Dear Mr. Zeppa,

Re: Limited Phase 2 Environmental Site Assessment  
174 King Street East, City of Mississauga, ON

## Introduction

Bruce A. Brown Associates Limited completed a Phase I Environmental Site Assessment for the property located at 174 King Street East, City of Mississauga in December 2020, and an update dated July 19, 2022. One of the purposes of the update was to confirm environmental conditions on a proposed widening of Camilla Road along the west side of the site to satisfy a City condition for acceptance. Because of widespread apple orchard use of the general area and immediately to the south and east of the subdivision lands prior to surrounding residential subdivision development by the early 1960s, and of findings of residual herbicides and pesticides associated with former orchards, there was a concern for surface topsoil quality, notwithstanding there was no history of former orchards directly on the subdivision lands.

## Supplementary Soil Investigation

Three hand excavations to 300mm depth were made by the writer on June 16, and channel samples from each were apportioned into two 40 ml containers supplied by BV Laboratories. For

each location, one sample was analyzed for arsenic and lead, and the other for organochlorinated pesticides and herbicides.

On July 4, 2022, BV Laboratories reported findings for analyses of Lead, Arsenic, Organochlorinated Pesticides and Phenoxy Acid Herbicides for two samples on the conveyance lands, and the third near the centre of the subdivision lands. No issues were found for the conveyance lands. An updated Phase 1 environmental site assessment dated July 19, 2022 so reflected this finding, permitting a clearance letter to be issued for the conveyance lands.

A third set of samples was taken from the centre of the subdivision lands, in a sample labelled 4676-B. No exceedances were noted for herbicides, pesticides or arsenic, but reported a marginal lead concentration of 130 µg/g in comparison with Table 3 residential standard of 120 µg/g in O. Reg. 153/04 .

Because of this marginal exceedance, supplementary testing was carried out by the writer on July 7, 2022, advancing four more hand excavations at distances to the north, east, south, and west of the initial exceedance with sampling for arsenic and lead. Once again, glassware was provided by BV Laboratories and samples were direct-driven to the laboratory. Three of these samples reported no exceedances on July 13, 2022; however, the northern sample found a marginal exceedance for lead only, with the same marginal exceedance at 130 µg/g.

## **Discussion**

When such random exceedances occur, one possible remedy is to take several additional samples within a one-meter radius, in which case the findings can be averaged. However, because a possible pattern of more widespread lead distribution is emerging, a preferred approach would be to complete a grid with sufficient samples for lead and arsenic to properly understand conditions across the site. Topsoil must be stripped in any case; most of it surplus to subdivision needs would be removed from the site. Further characterization would determine where this class of material could be used, if any of this onsite material can be retained for landscaping purposes, or where it might be properly disposed, for example as daily cover in a licensed landfill. Topsoil retained and stockpiled for residential needs would need to consistently meet Table 3 residential standards.

Lead arsenate is very insoluble, which is why these elements continue to show up at grade more than six decades after they ceased to be used as a general pesticide in orchards. As a consequence, they remain residual in topsoil and do not migrate at depth into subsoils or groundwater. Any issue with transition metals in soil is therefore likely to be limited to topsoil,

and generally to no deeper than depth of plough, about 325mm maximum. Removal of topsoil is therefore sufficient to resolve any issues with lead and/or arsenic exceedances relative to residential standards.

**Closure**

Thank you for this opportunity to be of further service. Should any questions arise, please do not hesitate to call.

Yours very truly,

BRUCE A. BROWN ASSOCIATES LIMITED

A handwritten signature in black ink, appearing to read 'Bruce A. Brown', written over a horizontal line.

Bruce A. Brown, Ph.D., RPP, MCIP, P.Eng., QP(ESA)

:

**Enclosures:**

BV Laboratories Data, Reported July 4, 2022

BV Laboratories Data, Reported July 13, 2022

Test Pit Location Plan.



Your Project #: 20\*4676  
 Site Location: KING-CAMILLA, MISSISSAUGA  
 Your C.O.C. #: 842965-06-01

**Attention: Bruce Brown**

Bruce A. Brown Associates Limited  
 101-102 Aerodrome Cr  
 Toronto, ON  
 CANADA M4G 4J4

**Report Date: 2022/07/04**  
 Report #: R7196213  
 Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C2G6717**

**Received: 2022/06/16, 12:57**

Sample Matrix: Soil  
 # Samples Received: 3

| Analyses                           | Quantity | Date       | Date       | Laboratory Method | Analytical Method    |
|------------------------------------|----------|------------|------------|-------------------|----------------------|
|                                    |          | Extracted  | Analyzed   |                   |                      |
| Acid Extractable Metals by ICPMS   | 3        | 2022/06/22 | 2022/06/23 | CAM SOP-00447     | EPA 6020B m          |
| Moisture                           | 3        | N/A        | 2022/06/18 | CAM SOP-00445     | Carter 2nd ed 51.2 m |
| OC Pesticides (Selected) & PCB (1) | 3        | 2022/06/23 | 2022/06/24 | CAM SOP-00307     | SW846 8081, 8082     |
| OC Pesticides Summed Parameters    | 3        | N/A        | 2022/06/20 | CAM SOP-00307     | EPA 8081/8082 m      |
| Phenoxy Acid Herbicides            | 3        | 2022/06/26 | 2022/06/27 | CAM SOP-00330     | EPA 8270 m           |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Chlordane ( Total) = Alpha Chlordane + Gamma Chlordane



Your Project #: 20\*4676  
Site Location: KING-CAMILLA, MISSISSAUGA  
Your C.O.C. #: 842965-06-01

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**Report Date: 2022/07/04**  
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**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C2G6717**

**Received: 2022/06/16, 12:57**

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.  
Ronklin Gracian, Project Manager  
Email: Ronklin.Gracian@bureauveritas.com  
Phone# (905)817-5752

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.  
For Service Group specific validation please refer to the Validation Signature Page.



BUREAU  
VERITAS

Bureau Veritas Job #: C2G6717  
Report Date: 2022/07/04

Bruce A. Brown Associates Limited  
Client Project #: 20\*4676  
Site Location: KING-CAMILLA, MISSISSAUGA  
Sampler Initials: BB

### RESULTS OF ANALYSES OF SOIL

| Bureau Veritas ID  |              | SXP820              | SXP822              | SXP824              |            |                 |
|--|--------------|---------------------|---------------------|---------------------|------------|-----------------|
| Sampling Date  |              | 2022/06/16<br>11:05 | 2022/06/16<br>11:10 | 2022/06/16<br>11:15 |            |                 |
| COC Number   |              | 842965-06-01        | 842965-06-01        | 842965-06-01        |            |                 |
|  | <b>UNITS</b> | <b>20X4676 A1</b>   | <b>20X4676 B1</b>   | <b>20X4676 C1</b>   | <b>RDL</b> | <b>QC Batch</b> |
| <b>Inorganics</b>  |              |                     |                     |                     |            |                 |
| Moisture   | %            | 6.4                 | 9.8                 | 6.0                 | 1.0        | 8061218         |
| RDL = Reportable Detection Limit<br>QC Batch = Quality Control Batch |              |                     |                     |                     |            |                 |



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### ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| Bureau Veritas ID  |                                 |          | SXP820              | SXP822              | SXP824              |     |          |
|--|---------------------------------|----------|---------------------|---------------------|---------------------|-----|----------|
| Sampling Date  |                                 |          | 2022/06/16<br>11:05 | 2022/06/16<br>11:10 | 2022/06/16<br>11:15 |     |          |
| COC Number   |                                 |          | 842965-06-01        | 842965-06-01        | 842965-06-01        |     |          |
|  | UNITS                           | Criteria | 20X4676 A1          | 20X4676 B1          | 20X4676 C1          | RDL | QC Batch |
| <b>Metals</b>  |                                 |          |                     |                     |                     |     |          |
| Acid Extractable Arsenic (As)  | ug/g                            | 18       | 9.9                 | 7.2                 | 3.0                 | 1.0 | 8067528  |
| Acid Extractable Lead (Pb)   | ug/g                            | 120      | 97                  | <b>130</b>          | 42                  | 1.0 | 8067528  |
| No Fill  | No Exceedance                   |          |                     |                     |                     |     |          |
| Grey   | Exceeds 1 criteria policy/level |          |                     |                     |                     |     |          |
| Black  | Exceeds both criteria/levels    |          |                     |                     |                     |     |          |
| RDL = Reportable Detection Limit   |                                 |          |                     |                     |                     |     |          |
| QC Batch = Quality Control Batch   |                                 |          |                     |                     |                     |     |          |
| Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)                                       |                                 |          |                     |                     |                     |     |          |
| Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition |                                 |          |                     |                     |                     |     |          |
| Soil - Industrial/Commercial/Community - Coarse Textured Soil                                |                                 |          |                     |                     |                     |     |          |



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Bruce A. Brown Associates Limited  
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Site Location: KING-CAMILLA, MISSISSAUGA  
Sampler Initials: BB

### PHENOXY ACID HERBICIDES BY GC-MS (SOIL)

| Bureau Veritas ID   |       | SXP820              | SXP822              | SXP824              | SXP824                |      |          |
|---|-------|---------------------|---------------------|---------------------|-----------------------|------|----------|
| Sampling Date   |       | 2022/06/16<br>11:05 | 2022/06/16<br>11:10 | 2022/06/16<br>11:15 | 2022/06/16<br>11:15   |      |          |
| COC Number  |       | 842965-06-01        | 842965-06-01        | 842965-06-01        | 842965-06-01          |      |          |
|   | UNITS | 20X4676 A1          | 20X4676 B1          | 20X4676 C1          | 20X4676 C1<br>Lab-Dup | RDL  | QC Batch |
| <b>Pesticides &amp; Herbicides</b>  |       |                     |                     |                     |                       |      |          |
| 2,4,5-T   | ug/g  | ND                  | ND                  | ND                  | ND                    | 0.10 | 8075906  |
| 2,4,5-TP (Silvex)   | ug/g  | ND                  | ND                  | ND                  | ND                    | 0.10 | 8075906  |
| 2,4-D   | ug/g  | ND                  | ND                  | ND                  | ND                    | 0.10 | 8075906  |
| 2,4-D (BEE)   | ug/g  | ND                  | ND                  | ND                  | ND                    | 0.20 | 8075906  |
| 2,4-DB  | ug/g  | ND                  | ND                  | ND                  | ND                    | 0.10 | 8075906  |
| 2,4-DP (Dichlorprop)  | ug/g  | ND                  | ND                  | ND                  | ND                    | 0.10 | 8075906  |
| Dicamba   | ug/g  | ND                  | ND                  | ND                  | ND                    | 0.20 | 8075906  |
| MCPA  | ug/g  | ND                  | ND                  | ND                  | ND                    | 0.20 | 8075906  |
| MCPP  | ug/g  | ND                  | ND                  | ND                  | ND                    | 0.20 | 8075906  |
| Picloram  | ug/g  | ND                  | ND                  | ND                  | ND                    | 0.20 | 8075906  |
| <b>Surrogate Recovery (%)</b>   |       |                     |                     |                     |                       |      |          |
| 2,4-Dichlorophenyl Acetic Acid  | %     | 100                 | 110                 | 111                 | 103                   |      | 8075906  |
| 2,5-Dibromobenzoic Acid   | %     | 106                 | 112                 | 115                 | 107                   |      | 8075906  |
| 4,4-Dibromobiphenyl   | %     | 98                  | 98                  | 111                 | 107                   |      | 8075906  |
| RDL = Reportable Detection Limit<br>QC Batch = Quality Control Batch<br>Lab-Dup = Laboratory Initiated Duplicate<br>ND = Not Detected at a concentration equal or greater than the indicated Detection Limit. |       |                     |                     |                     |                       |      |          |





BUREAU VERITAS

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### ORGANOCHLORINATED PESTICIDES BY GC-ECD (SOIL)

| Bureau Veritas ID  |                                 |          | SXP820              |        | SXP822              |        | SXP824              |        |          |
|--|---------------------------------|----------|---------------------|--------|---------------------|--------|---------------------|--------|----------|
| Sampling Date  |                                 |          | 2022/06/16<br>11:05 |        | 2022/06/16<br>11:10 |        | 2022/06/16<br>11:15 |        |          |
| COC Number   |                                 |          | 842965-06-01        |        | 842965-06-01        |        | 842965-06-01        |        |          |
|  | UNITS                           | Criteria | 20X4676 A1          | RDL    | 20X4676 B1          | RDL    | 20X4676 C1          | RDL    | QC Batch |
| <b>Calculated Parameters</b>   |                                 |          |                     |        |                     |        |                     |        |          |
| Chlordane (Total)  | ug/g                            | 0.05     | ND                  | 0.0020 | ND                  | 0.050  | ND                  | 0.0020 | 8058588  |
| o,p-DDD + p,p-DDD  | ug/g                            | 4.6      | ND                  | 0.0020 | ND                  | 0.020  | ND                  | 0.0020 | 8058588  |
| o,p-DDE + p,p-DDE  | ug/g                            | 0.52     | 0.14                | 0.020  | 0.30                | 0.020  | 0.033               | 0.010  | 8058588  |
| o,p-DDT + p,p-DDT  | ug/g                            | 1.4      | 0.038               | 0.020  | 0.085               | 0.020  | 0.0076              | 0.0020 | 8058588  |
| Total Endosulfan   | ug/g                            | 0.3      | ND                  | 0.0020 | ND                  | 0.020  | ND                  | 0.0020 | 8058588  |
| Total PCB  | ug/g                            | 1.1      | ND                  | 0.015  | ND                  | 0.040  | ND                  | 0.015  | 8058588  |
| <b>Pesticides &amp; Herbicides</b>   |                                 |          |                     |        |                     |        |                     |        |          |
| Aldrin   | ug/g                            | 0.088    | ND                  | 0.0020 | ND                  | 0.0020 | ND                  | 0.0020 | 8070066  |
| a-Chlordane  | ug/g                            | -        | ND                  | 0.0020 | ND                  | 0.050  | ND                  | 0.0020 | 8070066  |
| g-Chlordane  | ug/g                            | -        | ND                  | 0.0020 | 0.030               | 0.020  | ND                  | 0.0020 | 8070066  |
| o,p-DDD  | ug/g                            | -        | ND                  | 0.0020 | ND                  | 0.0050 | ND                  | 0.0020 | 8070066  |
| p,p-DDD  | ug/g                            | -        | ND                  | 0.0020 | ND                  | 0.020  | ND                  | 0.0020 | 8070066  |
| o,p-DDE  | ug/g                            | -        | ND                  | 0.0020 | ND                  | 0.0020 | ND                  | 0.0020 | 8070066  |
| p,p-DDE  | ug/g                            | -        | 0.14                | 0.020  | 0.30                | 0.020  | 0.033               | 0.010  | 8070066  |
| o,p-DDT  | ug/g                            | -        | 0.0034              | 0.0020 | ND                  | 0.020  | ND                  | 0.0020 | 8070066  |
| p,p-DDT  | ug/g                            | -        | 0.035               | 0.020  | 0.085               | 0.020  | 0.0076              | 0.0020 | 8070066  |
| Dieldrin   | ug/g                            | 0.088    | ND                  | 0.0020 | 0.0027              | 0.0020 | ND                  | 0.0020 | 8070066  |
| Lindane  | ug/g                            | 0.056    | ND                  | 0.0020 | ND                  | 0.0020 | ND                  | 0.0020 | 8070066  |
| Endosulfan I (alpha)   | ug/g                            | -        | ND                  | 0.0020 | ND                  | 0.020  | ND                  | 0.0020 | 8070066  |
| Endosulfan II (beta)   | ug/g                            | -        | ND                  | 0.0020 | ND                  | 0.0020 | ND                  | 0.0020 | 8070066  |
| Endrin   | ug/g                            | 0.04     | ND                  | 0.0020 | ND                  | 0.0020 | ND                  | 0.0020 | 8070066  |
| Heptachlor   | ug/g                            | 0.19     | ND                  | 0.0020 | ND                  | 0.0020 | ND                  | 0.0020 | 8070066  |
| Heptachlor epoxide   | ug/g                            | 0.05     | ND                  | 0.0020 | 0.025               | 0.020  | ND                  | 0.0020 | 8070066  |
| Hexachlorobenzene  | ug/g                            | 0.66     | ND                  | 0.0020 | ND                  | 0.0020 | ND                  | 0.0020 | 8070066  |
| Hexachlorobutadiene  | ug/g                            | 0.031    | ND                  | 0.0020 | ND                  | 0.0020 | ND                  | 0.0020 | 8070066  |
| Hexachloroethane   | ug/g                            | 0.21     | ND                  | 0.0020 | ND                  | 0.0020 | ND                  | 0.0020 | 8070066  |
| Methoxychlor   | ug/g                            | 1.6      | ND                  | 0.0050 | ND                  | 0.0050 | ND                  | 0.0050 | 8070066  |
| No Fill  | No Exceedance                   |          |                     |        |                     |        |                     |        |          |
| Grey   | Exceeds 1 criteria policy/level |          |                     |        |                     |        |                     |        |          |
| Black  | Exceeds both criteria/levels    |          |                     |        |                     |        |                     |        |          |
| RDL = Reportable Detection Limit   |                                 |          |                     |        |                     |        |                     |        |          |
| QC Batch = Quality Control Batch   |                                 |          |                     |        |                     |        |                     |        |          |
| Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)                                       |                                 |          |                     |        |                     |        |                     |        |          |
| Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition |                                 |          |                     |        |                     |        |                     |        |          |
| Soil - Industrial/Commercial/Community - Coarse Textured Soil                                |                                 |          |                     |        |                     |        |                     |        |          |
| ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.    |                                 |          |                     |        |                     |        |                     |        |          |



**ORGANOCHLORINATED PESTICIDES BY GC-ECD (SOIL)**

| Bureau Veritas ID  |                                 |          | SXP820              |       | SXP822              |       | SXP824              |       |          |
|--|---------------------------------|----------|---------------------|-------|---------------------|-------|---------------------|-------|----------|
| Sampling Date  |                                 |          | 2022/06/16<br>11:05 |       | 2022/06/16<br>11:10 |       | 2022/06/16<br>11:15 |       |          |
| COC Number   |                                 |          | 842965-06-01        |       | 842965-06-01        |       | 842965-06-01        |       |          |
|  | UNITS                           | Criteria | 20X4676 A1          | RDL   | 20X4676 B1          | RDL   | 20X4676 C1          | RDL   | QC Batch |
| Aroclor 1242   | ug/g                            | -        | ND                  | 0.015 | ND                  | 0.040 | ND                  | 0.015 | 8070066  |
| Aroclor 1248   | ug/g                            | -        | ND                  | 0.015 | ND                  | 0.040 | ND                  | 0.015 | 8070066  |
| Aroclor 1254   | ug/g                            | -        | ND                  | 0.015 | ND                  | 0.040 | ND                  | 0.015 | 8070066  |
| Aroclor 1260   | ug/g                            | -        | ND                  | 0.015 | ND                  | 0.040 | ND                  | 0.015 | 8070066  |
| Surrogate Recovery (%)   |                                 |          |                     |       |                     |       |                     |       |          |
| 2,4,5,6-Tetrachloro-m-xylene   | %                               | -        | 80                  |       | 81                  |       | 81                  |       | 8070066  |
| Decachlorobiphenyl   | %                               | -        | 90                  |       | 82                  |       | 83                  |       | 8070066  |
| No Fill  | No Exceedance                   |          |                     |       |                     |       |                     |       |          |
| Grey   | Exceeds 1 criteria policy/level |          |                     |       |                     |       |                     |       |          |
| Black  | Exceeds both criteria/levels    |          |                     |       |                     |       |                     |       |          |
| RDL = Reportable Detection Limit   |                                 |          |                     |       |                     |       |                     |       |          |
| QC Batch = Quality Control Batch   |                                 |          |                     |       |                     |       |                     |       |          |
| Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)                                       |                                 |          |                     |       |                     |       |                     |       |          |
| Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition |                                 |          |                     |       |                     |       |                     |       |          |
| Soil - Industrial/Commercial/Community - Coarse Textured Soil                                |                                 |          |                     |       |                     |       |                     |       |          |
| ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.    |                                 |          |                     |       |                     |       |                     |       |          |



BUREAU  
VERITAS

Bureau Veritas Job #: C2G6717  
Report Date: 2022/07/04

Bruce A. Brown Associates Limited  
Client Project #: 20\*4676  
Site Location: KING-CAMILLA, MISSISSAUGA  
Sampler Initials: BB

### GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

|           |        |
|-----------|--------|
| Package 1 | 15.3°C |
|-----------|--------|

OC Pesticide Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

**Results relate only to the items tested.**



BUREAU  
VERITAS

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Sampler Initials: BB

### QUALITY ASSURANCE REPORT

| QA/QC | Batch   | Init | QC Type      | Parameter                     | Date Analyzed | Value          | Recovery | UNITS | QC Limits |
|-------|---------|------|--------------|-------------------------------|---------------|----------------|----------|-------|-----------|
|       | 8067528 | DT1  | Matrix Spike | Acid Extractable Arsenic (As) | 2022/06/23    |                | 99       | %     | 75 - 125  |
|       |         |      |              | Acid Extractable Lead (Pb)    | 2022/06/23    |                | 102      | %     | 75 - 125  |
|       | 8067528 | DT1  | Spiked Blank | Acid Extractable Arsenic (As) | 2022/06/23    |                | 104      | %     | 80 - 120  |
|       |         |      |              | Acid Extractable Lead (Pb)    | 2022/06/23    |                | 106      | %     | 80 - 120  |
|       | 8067528 | DT1  | Method Blank | Acid Extractable Arsenic (As) | 2022/06/23    | ND,<br>RDL=1.0 |          | ug/g  |           |
|       |         |      |              | Acid Extractable Lead (Pb)    | 2022/06/23    | ND,<br>RDL=1.0 |          | ug/g  |           |
|       | 8067528 | DT1  | RPD          | Acid Extractable Arsenic (As) | 2022/06/23    | 3.2            |          | %     | 30        |
|       |         |      |              | Acid Extractable Lead (Pb)    | 2022/06/23    | 0.20           |          | %     | 30        |
|       | 8070066 | LPG  | Matrix Spike | 2,4,5,6-Tetrachloro-m-xylene  | 2022/06/24    |                | 88       | %     | 50 - 130  |
|       |         |      |              | Decachlorobiphenyl            | 2022/06/24    |                | 97       | %     | 50 - 130  |
|       |         |      |              | Aldrin                        | 2022/06/24    |                | 72       | %     | 50 - 130  |
|       |         |      |              | a-Chlordane                   | 2022/06/24    |                | 92       | %     | 50 - 130  |
|       |         |      |              | g-Chlordane                   | 2022/06/24    |                | 92       | %     | 50 - 130  |
|       |         |      |              | o,p-DDD                       | 2022/06/24    |                | 106      | %     | 50 - 130  |
|       |         |      |              | p,p-DDD                       | 2022/06/24    |                | 108      | %     | 50 - 130  |
|       |         |      |              | o,p-DDE                       | 2022/06/24    |                | 104      | %     | 50 - 130  |
|       |         |      |              | p,p-DDE                       | 2022/06/24    |                | 129      | %     | 50 - 130  |
|       |         |      |              | o,p-DDT                       | 2022/06/24    |                | 101      | %     | 50 - 130  |
|       |         |      |              | p,p-DDT                       | 2022/06/24    |                | 115      | %     | 50 - 130  |
|       |         |      |              | Dieldrin                      | 2022/06/24    |                | 111      | %     | 50 - 130  |
|       |         |      |              | Lindane                       | 2022/06/24    |                | 99       | %     | 50 - 130  |
|       |         |      |              | Endosulfan I (alpha)          | 2022/06/24    |                | 114      | %     | 50 - 130  |
|       |         |      |              | Endosulfan II (beta)          | 2022/06/24    |                | 100      | %     | 50 - 130  |
|       |         |      |              | Endrin                        | 2022/06/24    |                | 109      | %     | 50 - 130  |
|       |         |      |              | Heptachlor                    | 2022/06/24    |                | 81       | %     | 50 - 130  |
|       |         |      |              | Heptachlor epoxide            | 2022/06/24    |                | 93       | %     | 50 - 130  |
|       |         |      |              | Hexachlorobenzene             | 2022/06/24    |                | 79       | %     | 50 - 130  |
|       |         |      |              | Hexachlorobutadiene           | 2022/06/24    |                | 85       | %     | 50 - 130  |
|       |         |      |              | Hexachloroethane              | 2022/06/24    |                | 64       | %     | 50 - 130  |
|       |         |      |              | Methoxychlor                  | 2022/06/24    |                | 133 (1)  | %     | 50 - 130  |
|       | 8070066 | LPG  | Spiked Blank | 2,4,5,6-Tetrachloro-m-xylene  | 2022/06/24    |                | 70       | %     | 50 - 130  |
|       |         |      |              | Decachlorobiphenyl            | 2022/06/24    |                | 83       | %     | 50 - 130  |
|       |         |      |              | Aldrin                        | 2022/06/24    |                | 65       | %     | 50 - 130  |
|       |         |      |              | a-Chlordane                   | 2022/06/24    |                | 92       | %     | 50 - 130  |
|       |         |      |              | g-Chlordane                   | 2022/06/24    |                | 81       | %     | 50 - 130  |
|       |         |      |              | o,p-DDD                       | 2022/06/24    |                | 96       | %     | 50 - 130  |
|       |         |      |              | p,p-DDD                       | 2022/06/24    |                | 102      | %     | 50 - 130  |
|       |         |      |              | o,p-DDE                       | 2022/06/24    |                | 84       | %     | 50 - 130  |
|       |         |      |              | p,p-DDE                       | 2022/06/24    |                | 92       | %     | 50 - 130  |
|       |         |      |              | o,p-DDT                       | 2022/06/24    |                | 85       | %     | 50 - 130  |
|       |         |      |              | p,p-DDT                       | 2022/06/24    |                | 97       | %     | 50 - 130  |
|       |         |      |              | Dieldrin                      | 2022/06/24    |                | 107      | %     | 50 - 130  |
|       |         |      |              | Lindane                       | 2022/06/24    |                | 92       | %     | 50 - 130  |
|       |         |      |              | Endosulfan I (alpha)          | 2022/06/24    |                | 100      | %     | 50 - 130  |
|       |         |      |              | Endosulfan II (beta)          | 2022/06/24    |                | 92       | %     | 50 - 130  |
|       |         |      |              | Endrin                        | 2022/06/24    |                | 102      | %     | 50 - 130  |
|       |         |      |              | Heptachlor                    | 2022/06/24    |                | 69       | %     | 50 - 130  |
|       |         |      |              | Heptachlor epoxide            | 2022/06/24    |                | 87       | %     | 50 - 130  |
|       |         |      |              | Hexachlorobenzene             | 2022/06/24    |                | 75       | %     | 50 - 130  |



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Bruce A. Brown Associates Limited  
Client Project #: 20\*4676  
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Sampler Initials: BB

### QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC<br>Batch | Init       | QC Type      | Parameter                    | Date Analyzed | Value             | Recovery | UNITS | QC Limits |
|----------------|------------|--------------|------------------------------|---------------|-------------------|----------|-------|-----------|
| 8070066        | LPG        | RPD          | Hexachlorobutadiene          | 2022/06/24    |                   | 87       | %     | 50 - 130  |
|                |            |              | Hexachloroethane             | 2022/06/24    |                   | 92       | %     | 50 - 130  |
|                |            |              | Methoxychlor                 | 2022/06/24    |                   | 114      | %     | 50 - 130  |
|                |            |              | Aldrin                       | 2022/06/24    | 1.4               | %        | 40    |           |
|                |            |              | a-Chlordane                  | 2022/06/24    | 21                | %        | 40    |           |
|                |            |              | g-Chlordane                  | 2022/06/24    | 5.1               | %        | 40    |           |
|                |            |              | o,p-DDD                      | 2022/06/24    | 4.2               | %        | 40    |           |
|                |            |              | p,p-DDD                      | 2022/06/24    | 4.4               | %        | 40    |           |
|                |            |              | o,p-DDE                      | 2022/06/24    | 3.7               | %        | 40    |           |
|                |            |              | p,p-DDE                      | 2022/06/24    | 8.7               | %        | 40    |           |
|                |            |              | o,p-DDT                      | 2022/06/24    | 1.1               | %        | 40    |           |
|                |            |              | p,p-DDT                      | 2022/06/24    | 5.1               | %        | 40    |           |
|                |            |              | Dieldrin                     | 2022/06/24    | 4.2               | %        | 40    |           |
|                |            |              | Lindane                      | 2022/06/24    | 3.6               | %        | 40    |           |
|                |            |              | Endosulfan I (alpha)         | 2022/06/24    | 7.6               | %        | 40    |           |
|                |            |              | Endosulfan II (beta)         | 2022/06/24    | 7.4               | %        | 40    |           |
|                |            |              | Endrin                       | 2022/06/24    | 1.9               | %        | 40    |           |
|                |            |              | Heptachlor                   | 2022/06/24    | 5.4               | %        | 40    |           |
|                |            |              | Heptachlor epoxide           | 2022/06/24    | 3.6               | %        | 40    |           |
|                |            |              | Hexachlorobenzene            | 2022/06/24    | 5.9               | %        | 40    |           |
|                |            |              | Hexachlorobutadiene          | 2022/06/24    | 9.4               | %        | 40    |           |
|                |            |              | Hexachloroethane             | 2022/06/24    | 43 (2)            | %        | 40    |           |
|                |            |              | Methoxychlor                 | 2022/06/24    | 3.4               | %        | 40    |           |
|                |            |              | Aldrin                       | 2022/06/24    | NC                | %        | 40    |           |
|                |            |              | a-Chlordane                  | 2022/06/24    | NC                | %        | 40    |           |
|                |            |              | g-Chlordane                  | 2022/06/24    | NC                | %        | 40    |           |
|                |            |              | o,p-DDD                      | 2022/06/24    | NC                | %        | 40    |           |
|                |            |              | p,p-DDD                      | 2022/06/24    | NC                | %        | 40    |           |
|                |            |              | o,p-DDE                      | 2022/06/24    | NC                | %        | 40    |           |
|                |            |              | p,p-DDE                      | 2022/06/24    | NC                | %        | 40    |           |
|                |            |              | o,p-DDT                      | 2022/06/24    | NC                | %        | 40    |           |
|                |            |              | p,p-DDT                      | 2022/06/24    | NC                | %        | 40    |           |
|                |            |              | Dieldrin                     | 2022/06/24    | NC                | %        | 40    |           |
|                |            |              | Lindane                      | 2022/06/24    | NC                | %        | 40    |           |
|                |            |              | Endosulfan I (alpha)         | 2022/06/24    | NC                | %        | 40    |           |
|                |            |              | Endosulfan II (beta)         | 2022/06/24    | NC                | %        | 40    |           |
|                |            |              | Endrin                       | 2022/06/24    | NC                | %        | 40    |           |
|                |            |              | Heptachlor                   | 2022/06/24    | NC                | %        | 40    |           |
|                |            |              | Heptachlor epoxide           | 2022/06/24    | NC                | %        | 40    |           |
|                |            |              | Hexachlorobenzene            | 2022/06/24    | NC                | %        | 40    |           |
|                |            |              | Hexachlorobutadiene          | 2022/06/24    | NC                | %        | 40    |           |
|                |            |              | Hexachloroethane             | 2022/06/24    | NC                | %        | 40    |           |
| Methoxychlor   | 2022/06/24 | NC           | %                            | 40            |                   |          |       |           |
| Aroclor 1242   | 2022/06/24 | NC           | %                            | 40            |                   |          |       |           |
| Aroclor 1248   | 2022/06/24 | NC           | %                            | 40            |                   |          |       |           |
| Aroclor 1254   | 2022/06/24 | NC           | %                            | 40            |                   |          |       |           |
| Aroclor 1260   | 2022/06/24 | NC           | %                            | 40            |                   |          |       |           |
| 8070066        | LPG        | Method Blank | 2,4,5,6-Tetrachloro-m-xylene | 2022/06/24    |                   | 86       | %     | 50 - 130  |
|                |            |              | Decachlorobiphenyl           | 2022/06/24    |                   | 105      | %     | 50 - 130  |
|                |            |              | Aldrin                       | 2022/06/24    | ND,<br>RDL=0.0020 |          | ug/g  |           |



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Sampler Initials: BB

### QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC<br>Batch | Init | QC Type                  | Parameter                      | Date Analyzed | Value             | Recovery | UNITS | QC Limits |
|----------------|------|--------------------------|--------------------------------|---------------|-------------------|----------|-------|-----------|
|                |      |                          | a-Chlordane                    | 2022/06/24    | ND,<br>RDL=0.0020 |          | ug/g  |           |
|                |      |                          | g-Chlordane                    | 2022/06/24    | ND,<br>RDL=0.0020 |          | ug/g  |           |
|                |      |                          | o,p-DDD                        | 2022/06/24    | ND,<br>RDL=0.0020 |          | ug/g  |           |
|                |      |                          | p,p-DDD                        | 2022/06/24    | ND,<br>RDL=0.0020 |          | ug/g  |           |
|                |      |                          | o,p-DDE                        | 2022/06/24    | ND,<br>RDL=0.0020 |          | ug/g  |           |
|                |      |                          | p,p-DDE                        | 2022/06/24    | ND,<br>RDL=0.0020 |          | ug/g  |           |
|                |      |                          | o,p-DDT                        | 2022/06/24    | ND,<br>RDL=0.0020 |          | ug/g  |           |
|                |      |                          | p,p-DDT                        | 2022/06/24    | ND,<br>RDL=0.0020 |          | ug/g  |           |
|                |      |                          | Dieldrin                       | 2022/06/24    | ND,<br>RDL=0.0020 |          | ug/g  |           |
|                |      |                          | Lindane                        | 2022/06/24    | ND,<br>RDL=0.0020 |          | ug/g  |           |
|                |      |                          | Endosulfan I (alpha)           | 2022/06/24    | ND,<br>RDL=0.0020 |          | ug/g  |           |
|                |      |                          | Endosulfan II (beta)           | 2022/06/24    | ND,<br>RDL=0.0020 |          | ug/g  |           |
|                |      |                          | Endrin                         | 2022/06/24    | ND,<br>RDL=0.0020 |          | ug/g  |           |
|                |      |                          | Heptachlor                     | 2022/06/24    | ND,<br>RDL=0.0020 |          | ug/g  |           |
|                |      |                          | Heptachlor epoxide             | 2022/06/24    | ND,<br>RDL=0.0020 |          | ug/g  |           |
|                |      |                          | Hexachlorobenzene              | 2022/06/24    | ND,<br>RDL=0.0020 |          | ug/g  |           |
|                |      |                          | Hexachlorobutadiene            | 2022/06/24    | ND,<br>RDL=0.0020 |          | ug/g  |           |
|                |      |                          | Hexachloroethane               | 2022/06/24    | ND,<br>RDL=0.0020 |          | ug/g  |           |
|                |      |                          | Methoxychlor                   | 2022/06/24    | ND,<br>RDL=0.0050 |          | ug/g  |           |
|                |      |                          | Aroclor 1242                   | 2022/06/24    | ND,<br>RDL=0.015  |          | ug/g  |           |
|                |      |                          | Aroclor 1248                   | 2022/06/24    | ND,<br>RDL=0.015  |          | ug/g  |           |
|                |      |                          | Aroclor 1254                   | 2022/06/24    | ND,<br>RDL=0.015  |          | ug/g  |           |
|                |      |                          | Aroclor 1260                   | 2022/06/24    | ND,<br>RDL=0.015  |          | ug/g  |           |
| 8075906        | MYI  | Matrix Spike [SXP824-01] | 2,4,5-T                        | 2022/06/27    |                   | 114      | %     | 10 - 130  |
|                |      |                          | 2,4,5-TP (Silvex)              | 2022/06/27    |                   | 110      | %     | 10 - 130  |
|                |      |                          | 2,4-D                          | 2022/06/27    |                   | 101      | %     | 10 - 130  |
|                |      |                          | 2,4-D (BEE)                    | 2022/06/27    |                   | 118      | %     | 10 - 130  |
|                |      |                          | 2,4-DB                         | 2022/06/27    |                   | 106      | %     | 10 - 130  |
|                |      |                          | 2,4-Dichlorophenyl Acetic Acid | 2022/06/27    |                   | 106      | %     | 10 - 130  |



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Sampler Initials: BB

### QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC<br>Batch       | Init       | QC Type      | Parameter                      | Date Analyzed | Value           | Recovery          | UNITS      | QC Limits |  |   |    |
|----------------------|------------|--------------|--------------------------------|---------------|-----------------|-------------------|------------|-----------|--|---|----|
| 8075906              | MYI        | Spiked Blank | 2,4-DP (Dichlorprop)           | 2022/06/27    |                 | 104               | %          | 10 - 130  |  |   |    |
|                      |            |              | 2,5-Dibromobenzoic Acid        | 2022/06/27    |                 | 112               | %          | 10 - 130  |  |   |    |
|                      |            |              | 4,4-Dibromobiphenyl            | 2022/06/27    |                 | 110               | %          | 10 - 130  |  |   |    |
|                      |            |              | Dicamba                        | 2022/06/27    |                 | 104               | %          | 10 - 130  |  |   |    |
|                      |            |              | MCPA                           | 2022/06/27    |                 | 102               | %          | 10 - 130  |  |   |    |
|                      |            |              | MCPP                           | 2022/06/27    |                 | 111               | %          | 10 - 130  |  |   |    |
|                      |            |              | Picloram                       | 2022/06/27    |                 | 92                | %          | 10 - 130  |  |   |    |
|                      |            |              | 2,4,5-T                        | 2022/06/27    |                 | 114               | %          | 10 - 130  |  |   |    |
|                      |            |              | 2,4,5-TP (Silvex)              | 2022/06/27    |                 | 112               | %          | 10 - 130  |  |   |    |
|                      |            |              | 2,4-D                          | 2022/06/27    |                 | 101               | %          | 10 - 130  |  |   |    |
|                      |            |              | 2,4-D (BEE)                    | 2022/06/27    |                 | 118               | %          | 10 - 130  |  |   |    |
|                      |            |              | 2,4-DB                         | 2022/06/27    |                 | 105               | %          | 10 - 130  |  |   |    |
|                      |            |              | 2,4-Dichlorophenyl Acetic Acid | 2022/06/27    |                 | 106               | %          | 10 - 130  |  |   |    |
|                      |            |              | 2,4-DP (Dichlorprop)           | 2022/06/27    |                 | 108               | %          | 10 - 130  |  |   |    |
|                      |            |              | 2,5-Dibromobenzoic Acid        | 2022/06/27    |                 | 119               | %          | 10 - 130  |  |   |    |
|                      |            |              | 4,4-Dibromobiphenyl            | 2022/06/27    |                 | 114               | %          | 10 - 130  |  |   |    |
|                      |            |              | Dicamba                        | 2022/06/27    |                 | 107               | %          | 10 - 130  |  |   |    |
|                      |            |              | MCPA                           | 2022/06/27    |                 | 103               | %          | 10 - 130  |  |   |    |
| MCPP                 | 2022/06/27 |              | 115                            | %             | 10 - 130        |                   |            |           |  |   |    |
| Picloram             | 2022/06/27 |              |                                |               | 87              | %                 | 10 - 130   |           |  |   |    |
| 8075906              | MYI        | Method Blank | 2,4,5-T                        | 2022/06/27    | ND,<br>RDL=0.10 |                   | ug/g       |           |  |   |    |
|                      |            |              | 2,4,5-TP (Silvex)              | 2022/06/27    | ND,<br>RDL=0.10 |                   | ug/g       |           |  |   |    |
|                      |            |              | 2,4-D                          | 2022/06/27    | ND,<br>RDL=0.10 |                   | ug/g       |           |  |   |    |
|                      |            |              | 2,4-D (BEE)                    | 2022/06/27    | ND,<br>RDL=0.20 |                   | ug/g       |           |  |   |    |
|                      |            |              | 2,4-DB                         | 2022/06/27    | ND,<br>RDL=0.10 |                   | ug/g       |           |  |   |    |
|                      |            |              | 2,4-Dichlorophenyl Acetic Acid | 2022/06/27    |                 | 97                | %          | 10 - 130  |  |   |    |
|                      |            |              | 2,4-DP (Dichlorprop)           | 2022/06/27    | ND,<br>RDL=0.10 |                   | ug/g       |           |  |   |    |
|                      |            |              | 2,5-Dibromobenzoic Acid        | 2022/06/27    |                 | 106               | %          | 10 - 130  |  |   |    |
|                      |            |              | 4,4-Dibromobiphenyl            | 2022/06/27    |                 | 109               | %          | 10 - 130  |  |   |    |
|                      |            |              | Dicamba                        | 2022/06/27    | ND,<br>RDL=0.20 |                   | ug/g       |           |  |   |    |
|                      |            |              | MCPA                           | 2022/06/27    | ND,<br>RDL=0.20 |                   | ug/g       |           |  |   |    |
|                      |            |              | MCPP                           | 2022/06/27    | ND,<br>RDL=0.20 |                   | ug/g       |           |  |   |    |
|                      |            |              | Picloram                       | 2022/06/27    | ND,<br>RDL=0.20 |                   | ug/g       |           |  |   |    |
|                      |            |              | 8075906                        | MYI           | RPD [SXP824-01] | 2,4,5-T           | 2022/06/27 | NC        |  | % | 50 |
|                      |            |              |                                |               |                 | 2,4,5-TP (Silvex) | 2022/06/27 | NC        |  | % | 50 |
|                      |            |              |                                |               |                 | 2,4-D             | 2022/06/27 | NC        |  | % | 50 |
|                      |            |              |                                |               |                 | 2,4-D (BEE)       | 2022/06/27 | NC        |  | % | 50 |
|                      |            |              |                                |               |                 | 2,4-DB            | 2022/06/27 | NC        |  | % | 50 |
| 2,4-DP (Dichlorprop) | 2022/06/27 | NC           |                                |               |                 |                   | %          | 50        |  |   |    |
| Dicamba              | 2022/06/27 | NC           |                                |               |                 |                   | %          | 50        |  |   |    |
| MCPA                 | 2022/06/27 | NC           |                                |               |                 |                   | %          | 50        |  |   |    |
| MCPP                 | 2022/06/27 | NC           |                                |               |                 |                   | %          | 50        |  |   |    |



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Bruce A. Brown Associates Limited  
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Sampler Initials: BB

### QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC  | Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|--|-------|------|---------|-----------|---------------|-------|----------|-------|-----------|
|  |       |      |         | Picloram  | 2022/06/27    | NC    |          | %     | 50        |
| <p>Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.</p> <p>Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.</p> <p>Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.</p> <p>Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.</p> <p>Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.</p> <p>NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference &lt;= 2x RDL).</p> <p>(1) The recovery was above the upper control limit. This may represent a high bias in some results for flagged analytes. For results that were not detected (ND), this potential bias has no impact.</p> <p>(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.</p> |       |      |         |           |               |       |          |       |           |





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Sampler Initials: BB

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

\_\_\_\_\_  
Anastassia Hamanov, Scientific Specialist

\_\_\_\_\_  
Cristina Carriere, Senior Scientific Specialist

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



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**Exceedance Summary Table – Reg153/04 T3-Soil/Ind-C**  
**Result Exceedances**

| Sample ID   | Bureau Veritas ID | Parameter                  | Criteria | Result | DL  | UNITS |
|---|-------------------|----------------------------|----------|--------|-----|-------|
| 20X4676 B1  | SXP822-01         | Acid Extractable Lead (Pb) | 120      | 130    | 1.0 | ug/g  |
| The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines. |                   |                            |          |        |     |       |





Your Project #: 20\*4676  
 Site Location: 174 KING ST E/ CAMILLA RD  
 Your C.O.C. #: 886686-03-01

**Attention: Bruce Brown**

Bruce A. Brown Associates Limited  
 101-102 Aerodrome Cr  
 Toronto, ON  
 CANADA M4G 4J4

**Report Date: 2022/07/13**  
 Report #: R7208844  
 Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BUREAU VERITAS JOB #: C2I8224**

**Received: 2022/07/07, 12:22**

Sample Matrix: Soil  
 # Samples Received: 4

| Analyses                         | Quantity | Date       | Date       | Laboratory Method | Analytical Method |
|----------------------------------|----------|------------|------------|-------------------|-------------------|
|                                  |          | Extracted  | Analyzed   |                   |                   |
| Acid Extractable Metals by ICPMS | 4        | 2022/07/11 | 2022/07/11 | CAM SOP-00447     | EPA 6020B m       |

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

**Encryption Key**

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Ronklin Gracian, Project Manager  
 Email: Ronklin.Gracian@bureauveritas.com  
 Phone# (905)817-5752

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU  
VERITAS

Bureau Veritas Job #: C218224  
Report Date: 2022/07/13

Bruce A. Brown Associates Limited  
Client Project #: 20\*4676  
Site Location: 174 KING ST E/ CAMILLA RD  
Sampler Initials: BB

### ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| Bureau Veritas ID  |                                 |                 | TCG843              | TCG844              | TCG845              | TCG846              |            |                 |
|--|---------------------------------|-----------------|---------------------|---------------------|---------------------|---------------------|------------|-----------------|
| Sampling Date  |                                 |                 | 2022/07/07<br>09:45 | 2022/07/07<br>09:50 | 2022/07/07<br>09:55 | 2022/07/07<br>10:00 |            |                 |
| COC Number   |                                 |                 | 886686-03-01        | 886686-03-01        | 886686-03-01        | 886686-03-01        |            |                 |
|  | <b>UNITS</b>                    | <b>Criteria</b> | <b>4676.BW</b>      | <b>4676.BN</b>      | <b>4676.BE</b>      | <b>4676.BS</b>      | <b>RDL</b> | <b>QC Batch</b> |
| <b>Metals</b>  |                                 |                 |                     |                     |                     |                     |            |                 |
| Acid Extractable Arsenic (As)  | ug/g                            | 18              | 4.8                 | 10                  | 5.8                 | 5.6                 | 1.0        | 8101166         |
| Acid Extractable Lead (Pb)   | ug/g                            | 120             | 56                  | <b>130</b>          | 42                  | 30                  | 1.0        | 8101166         |
| No Fill  | No Exceedance                   |                 |                     |                     |                     |                     |            |                 |
| Grey   | Exceeds 1 criteria policy/level |                 |                     |                     |                     |                     |            |                 |
| Black  | Exceeds both criteria/levels    |                 |                     |                     |                     |                     |            |                 |
| RDL = Reportable Detection Limit   |                                 |                 |                     |                     |                     |                     |            |                 |
| QC Batch = Quality Control Batch   |                                 |                 |                     |                     |                     |                     |            |                 |
| Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)                                       |                                 |                 |                     |                     |                     |                     |            |                 |
| Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition |                                 |                 |                     |                     |                     |                     |            |                 |
| Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soil                |                                 |                 |                     |                     |                     |                     |            |                 |



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### GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

|           |        |
|-----------|--------|
| Package 1 | 17.3°C |
|-----------|--------|

**Results relate only to the items tested.**



### QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type      | Parameter                     | Date Analyzed | Value          | Recovery | UNITS | QC Limits |
|-------------|------|--------------|-------------------------------|---------------|----------------|----------|-------|-----------|
| 8101166     | MEN  | Matrix Spike | Acid Extractable Arsenic (As) | 2022/07/11    |                | 99       | %     | 75 - 125  |
|             |      |              | Acid Extractable Lead (Pb)    | 2022/07/11    |                | 94       | %     | 75 - 125  |
| 8101166     | MEN  | Spiked Blank | Acid Extractable Arsenic (As) | 2022/07/11    |                | 102      | %     | 80 - 120  |
|             |      |              | Acid Extractable Lead (Pb)    | 2022/07/11    |                | 101      | %     | 80 - 120  |
| 8101166     | MEN  | Method Blank | Acid Extractable Arsenic (As) | 2022/07/11    | ND,<br>RDL=1.0 |          | ug/g  |           |
|             |      |              | Acid Extractable Lead (Pb)    | 2022/07/11    | ND,<br>RDL=1.0 |          | ug/g  |           |
| 8101166     | MEN  | RPD          | Acid Extractable Arsenic (As) | 2022/07/11    | 3.5            |          | %     | 30        |
|             |      |              | Acid Extractable Lead (Pb)    | 2022/07/11    | 1.3            |          | %     | 30        |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.




BUREAU  
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### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

*Eva Pranjic*  


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Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.





**BUREAU  
VERITAS**

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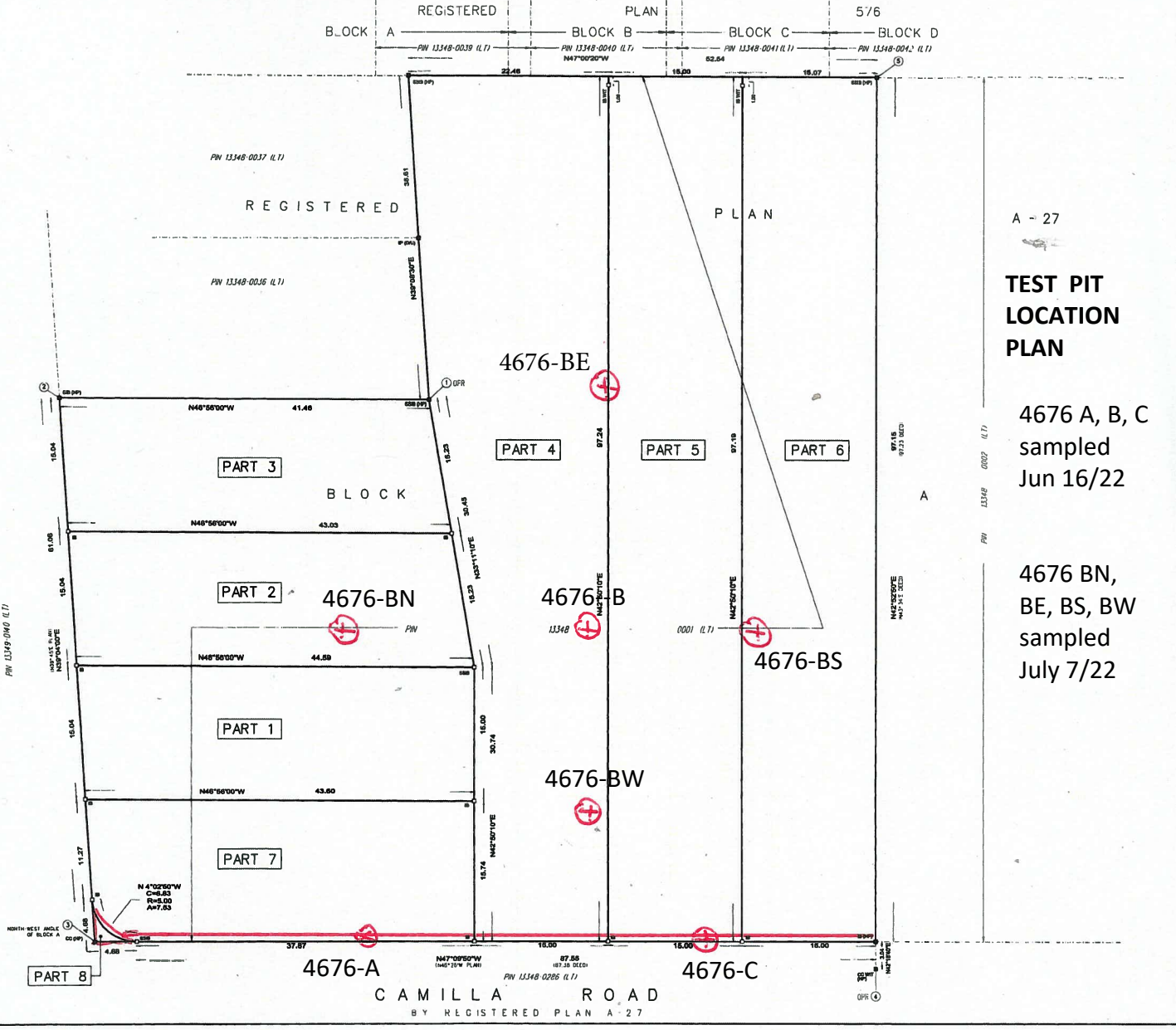
**Exceedance Summary Table – Reg153/04 T3-Soil/Res-C  
Result Exceedances**

| Sample ID   | Bureau Veritas ID | Parameter                  | Criteria | Result | DL  | UNITS |
|---|-------------------|----------------------------|----------|--------|-----|-------|
| 4676.BN   | TCG844-01         | Acid Extractable Lead (Pb) | 120      | 130    | 1.0 | ug/g  |
| The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines. |                   |                            |          |        |     |       |





KING STREET EAST



REGISTER THIS PLAN TO BE DEPOSITED UNDER THE LAND TITLES ACT.  
 PLAN 43R-35508  
 RECEIVED AND DEPOSITED:  
 DATE: Aug 29, 2013 DATE: Sept 20, 2013  
 [Signature] [Signature]  
 MELNUT PILLER CHIEF LAND SURVEYOR

SCHEDULE

| PART | PART OF BLOCK | PLAN | ALL OF PIN        | AREA (m <sup>2</sup> ) |
|------|---------------|------|-------------------|------------------------|
| 1    |               |      |                   | 584.4                  |
| 2    |               |      |                   | 697.1                  |
| 3    |               |      |                   | 633.7                  |
| 4    |               |      |                   | 1282.0                 |
| 5    | A             | A-27 | 13348-0001 (L.T.) | 158.2                  |
| 6    |               |      |                   | 1461.2                 |
| 7    |               |      |                   | 877.3                  |
| 8    |               |      |                   | 4.8                    |

PLAN OF SURVEY OF PART OF BLOCK A REGISTERED PLAN A-27 CITY OF MISSISSAUGA REGIONAL MUNICIPALITY OF PEEL  
 SCALE 1 : 200  
 ARSAN PILLER CORPORATION LTD.

- LEGEND:
- BE DENOTES SURVEY MONUMENT FOUND
  - BP DENOTES SURVEY MONUMENT PLANTED
  - BS DENOTES BORN BAR
  - SB DENOTES STANDARD BORN BAR
  - CSB DENOTES SHORT STANDARD BORN BAR
  - CC DENOTES CUP CROSS
  - CP DENOTES CONCRETE PIN
  - CU DENOTES WOODEN CONCRETE MONUMENT
  - CUJ DENOTES CROWN ANGLEWOOD
  - BSB DENOTES BORN SIGN
  - PLAN DENOTES REGISTERED PLAN A-27
  - HP DENOTES HORN
  - H DENOTES HORN
  - S DENOTES SOUTH
  - E DENOTES EAST
  - W DENOTES WEST
  - Fc DENOTES FENCE

BEARING NOTE:  
 BEARINGS ARE WITH GRID, DERIVED FROM SIMULTANEOUS GPS OBSERVATIONS FROM MONUMENT 1 TO 6, SHOWN HEREON, HAVING A BEARING OF N47°40'50\"/>

NOTES:  
 COORDINATES ARE SHOWN AND CAN BE CONVERTED TO GRID BY ADDING 10 BY THE CHORD'S SCALE FACTOR OF 0.9994.

| POINT ID | NORTHING     | EASTING    |
|----------|--------------|------------|
| 1        | 4 838 432.58 | 812 378.45 |
| 2        | 4 838 432.58 | 812 378.45 |
| 3        | 4 838 432.58 | 812 378.45 |
| 4        | 4 838 432.58 | 812 378.45 |

COORDINATES SHOWN IN THIS PLAN ARE USED TO RE-ESTABLISH CORNERS OR BOUNDARIES SHOWN ON THIS PLAN.  
 OBSERVED REFERENCE POINTS (ORP) ARE DERIVED FROM GPS OBSERVATIONS USING REAL TIME KINEMATIC (RTK) TECHNOLOGY.  
 COORDINATES ARE TO URBAN ACCURACY AS IN SEC 14 (2), OREGON REV. 2000.

METRIC:  
 DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

SURVEYOR'S CERTIFICATE:  
 I CERTIFY THAT:  
 1. THE SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEY ACT, THE SURVEYORS ACT AND THE LAND TITLES ACT AND THE REGULATIONS MADE UNDER THEM.  
 2. THE SURVEY WAS COMPLETED ON THE 29th DAY OF Aug, 2013.

Aug 29, 2013 [Signature]  
 DATE MELNUT PILLER CHIEF LAND SURVEYOR  
 ARSAN PILLER CORPORATION LTD.  
 215 W. PLEASANT ROAD, TORONTO, ONTARIO M5P 1S7  
 (416) 491-1919 FAX (416) 491-1918  
 REFERENCE NO. 18-30-BRBLPLAN-00

A - 27  
**TEST PIT LOCATION PLAN**  
 4676 A, B, C sampled Jun 16/22  
 4676 BN, BE, BS, BW sampled July 7/22

4676