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Phase II Environmental Site Assessment

1995 Dundas Street East and 3040 & 3044 Universal Drive
Mississauga, Ontario

Prepared for:

Virtue Acquisition Inc.

161 Bay Street, Suite 1500
Toronto, Ontario, M5J 2S1

June 25, 2022

Pinchin File: 309491



Phase II Environmental Site Assessment

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Virtue Acquisition Inc.

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EXECUTIVE SUMMARY

Pinchin Ltd. (Pinchin) was retained through an Authorization to Proceed, Limitation of Liability and Terms of Engagement signed by a representative of Virtue Acquisition Inc. (Client) to conduct a Phase II Environmental Site Assessment (ESA) of the property located at 1995 Dundas Street East and 3040 & 3044 Universal Drive in Mississauga, Ontario (hereafter referred to as the Site).

The Site is developed with a single-storey multi-tenant commercial/light industrial plaza (Site Building) which includes an automotive servicing operations.

The purpose of this Phase II ESA was to address potential issues of environmental concern in relation to the potential acquisition of the Site.

Based on Pinchin's review of the 2021 Altech Phase I ESA Report, Altech recommended a number of housekeeping improvement items associated with the automotive servicing operation including cleaning out the oil/water separator, floor trenches and drains on a regulator basis and that the existing monitoring wells within the north driveway be sampled and further decommissioned if no longer in use.

Based on Pinchin's review of the above referenced report, the presence of automotive servicing operations, existing monitoring wells (which appear to be old) located on either side of a cut/patched asphalt surface (indicative of a potential former underground storage tank), as well as the surrounding property use, Pinchin recommended a Phase II ESA be completed for the Site.

The Phase II ESA activities were completed at the Site by Pinchin between May 17 and June 9, 2022, and consisted of the advancement of six boreholes, three of which were completed as groundwater monitoring wells. The Phase II ESA also included the development and sampling of the newly installed groundwater monitoring wells and the two existing monitoring wells (previously installed by others) located within the north driveway.

Select "worst case" soil samples collected during the borehole drilling program were submitted for laboratory analysis of one or more of petroleum hydrocarbons (PHCs) in the F1 to F4 fraction ranges (F1-F4), benzene, toluene, ethylbenzene and xylene (BTEX), volatile organic compounds (VOCs, including BTEX), polycyclic aromatic hydrocarbons (PAHs) and metals. Groundwater samples collected from the newly installed and previously installed monitoring wells were submitted for laboratory analysis of one or more of PHCs (F1-F4), VOCs (including BTEX), PAHs and metals.

Based on Site-specific information, the soil and groundwater quality was assessed based on the Ontario Ministry of the Environment, Conservation and Parks *Table 3 Standards* for industrial/commercial/community land use and coarse-textured soil.



Reported concentrations in the soil and groundwater samples submitted for analysis of PHCs (F1-F4), VOCs, PAHs and metals satisfied the *Table 3 Standards*.

Based on the findings of this Phase II ESA, it is Pinchin's opinion that no further subsurface investigation work is required for the Site at this time. However, Pinchin recommends that the out-of-use UST identified on Site be removed or decommissioned in-place by an appropriate licensed contractor in accordance with the applicable regulatory requirements and that sampling be completed at that time in accordance with the MECP Sampling Guideline and/or in accordance with the Technical Standards and Safety Authority's (TSSA's) Fuel Oil Code. It should be noted that residual impacts in soil may be present below the UST the potential presence of which could not be eliminated as part of this Phase II ESA with the UST in-place.

This Executive Summary is subject to the same standard limitations as contained in the report and must be read in conjunction with the entire report.



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1.0 INTRODUCTION

Pinchin Ltd. (Pinchin) was retained through an Authorization to Proceed, Limitation of Liability and Terms of Engagement signed by a representative of Virtue Acquisition Inc. (Client) to conduct a Phase II Environmental Site Assessment (ESA) of the property located at 1995 Dundas Street East and 3040 & 3044 Universal Drive in Mississauga, Ontario (hereafter referred to as the Site). The Site location is shown on Figure 1 (all Figures are provided in Appendix I).

The Site is developed with a single-storey multi-tenant commercial/light industrial plaza (Site Building) which includes automotive servicing operations.

The purpose of this Phase II ESA was to address potential issues of environmental concern in relation to the potential acquisition of the Site.

This Phase II ESA was completed in general accordance with the Canadian Standards Association document entitled "*Phase II Environmental Site Assessment, CSA Standard Z769-00 (R2018)*", dated 2000 and reaffirmed in 2018.

1.1 Background

Pinchin reviewed the following document that was provided to Pinchin for review by the Client:

- "*Phase I Environmental Site Assessment, 1995 Dundas Street East & 3040 Universal Drive, Mississauga, Ontario*" completed by ALTECH Environmental Consulting Ltd. (ALTECH) for the Client Mynik Investments Inc. dated October 12, 2021 (2021 ALTECH Phase I ESA Report).

Based on Pinchin's review of the 2021 Altech Phase I ESA Report, Altech recommended a number of housekeeping improvement items associated with the automotive servicing operation including cleaning out the oil/water separator, floor trenches and drains on a regulator basis and that the existing monitoring wells within the north driveway be sampled and further decommissioned if no longer in use.

Based on Pinchin's review of the above referenced report, the presence of automotive servicing operations, existing monitoring wells (which appear to be old) located on either side of a cut/patched asphalt surface (indicative of a potential former underground storage tank), as well as the surrounding property use, Pinchin recommended that a Phase II ESA be completed for the Site.

1.2 Scope of Work

The scope of work completed by Pinchin, as outlined in the Pinchin proposal entitled "*Proposal for Phase II Environmental Site Assessment, 1995 Dundas Street East and 3040 & 3044 Universal Drive,*



Mississauga, Ontario” submitted to the Client on April 22, 2022 and Change Order 1, dated June 10, 2022 included the following:

- Advancement of six boreholes following the clearance of underground services, three of which were instrumented with a monitoring well;
- Submission of select “worst case” soil samples for laboratory analysis of one or more of petroleum hydrocarbons (PHCs) in the F1 to F4 fraction ranges (F1-F4), volatile organic compounds (VOCs), benzene, toluene, ethylbenzene and xylene (BTEX), polycyclic aromatic hydrocarbons (PAHs) and metals;
- Collection of groundwater samples from each of the three newly installed monitoring wells and two existing groundwater monitoring wells, following well development and purging, for laboratory analysis of one or more of PHCs (F1-F4), VOCs, BTEX, PAHs, and metals;
- Comparison of the soil and groundwater laboratory analytical results to the applicable regulatory criteria; and
- Preparation of a factual report detailing the findings of the Phase II ESA and recommendations.

The scope of work described in the Pinchin proposal included groundwater sampling at each of the newly installed monitoring wells. However, there was insufficient groundwater present in monitoring well MW1 at the during the Phase II ESA to permit groundwater sampling. Further and due to shallow sampling refusal at BH3, MW3 was later advanced to a deeper depth on June 4, 2022 to facilitate groundwater sampling.

2.0 METHODOLOGY

The investigation methodology was conducted in general accordance with the Ontario Ministry of the Environment, Conservation and Parks (MECP) document entitled “*Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*” dated December 1996 (*MECP Sampling Guideline*), the Professional Geoscientists of Ontario document entitled “*Guidance for Environmental Site Assessments under Ontario Regulation 153/04 (as amended)*”, dated April 2011 (*PGO Guideline*) and Pinchin’s standard operating procedures (SOPs).

2.1 Site Reconnaissance and Geophysical Survey

Pinchin completed a Site reconnaissance on May 17, 2022 which included a walk through of the interior units and the exterior of the Site. During the Site reconnaissance a fill pipe indicative of a UST was observed along the east wall of the former boiler room within the automotive diagnostic / servicing unit.



Pinchin was able to open the fill cap and determine that that in-fact a UST was present in this location and that it appeared to be empty.

A geophysical survey in this area of the fill pipe as well as in the area of the cut/patched asphalt surface consisting of a ground penetrating radar (GPR) scan was completed by OnSite Locates in conjunction with the private utility locates.

The GPR scanned areas are outlined on Figure 2. A copy of the geophysical survey notes are included in Appendix V.

2.2 Borehole Investigation

Pinchin retained Strata Drilling Group (Strata) to complete the borehole drilling program at the Site on May 20, 2022 and June 4, 2022, following the clearance of underground services in the vicinity of the work area by public utility locators and a private utility locator retained by Pinchin. Strata is licensed by the MECP in accordance with Ontario Regulation 903 (as amended) to undertake borehole drilling/well installation activities.

The boreholes were advanced to a maximum depth of 6.10 metres below ground surface (mbgs) using a Geoprobe 7822 DT or a 420M direct push drill rig. Soil samples were collected at continuous 1.5 metre intervals using 5.7 centimetre (cm) inner diameter (ID) direct push soil samplers with dedicated single-use sample liners. Discrete soil samples were collected from the single-use liners and containerized in laboratory-supplied glass sampling jars.

Subsurface soil conditions were logged on-Site by Pinchin personnel at the time of drilling. Soil samples were examined for visual and olfactory evidence of impacts and a portion of each sample was analyzed in the field for VOC and petroleum-derived vapour concentrations in soil headspace using a photoionization detector (PID) and a combustible gas indicator (CGI) operated in methane elimination mode (RKI Eagle).

The locations of the boreholes are shown on Figure 2 and a description of the subsurface stratigraphy encountered during the drilling program is documented in the borehole logs included in Appendix II.

2.3 Monitoring Well Installation

Groundwater monitoring wells were installed in boreholes MW1, MW2 and MW3 to facilitate groundwater monitoring and sampling. The monitoring wells were constructed with 5.08 cm ID flush-threaded Schedule 40 polyvinyl chloride (PVC) risers, followed by a length of 5.08 cm ID No. 10 slot PVC.

Each well screen was sealed at the bottom using a threaded cap and each riser was sealed at the top with a lockable J-plug cap. Silica sand was placed around and above the screened interval to form a filter pack around the well screen. A layer of bentonite was placed above the silica sand and was extended to

just below the ground surface. A 7.6 cm ID Schedule 40 PVC outer casing, approximately 30 cm in length, was installed in each well around the top of the riser and into the top of the bentonite seal. A bentonite seal was then placed between the riser and outer casing. A protective flush-mount cover was installed at the ground surface over each riser pipe and outer casing and cemented in place.

The locations of the monitoring wells are shown on Figure 2. The monitoring well construction details are shown on the borehole logs included in Appendix II and on Table 1 in Appendix III (all Tables are provided within Appendix III).

2.4 Groundwater Monitoring

The water levels within the newly installed monitoring wells and existing monitoring wells were measured on June 9, 2022 and May 25, 2022 using an interface probe. The presence/absence of non-aqueous phase liquid (NAPL) was also assessed during groundwater monitoring using the interface probe.

2.5 Sampling and Laboratory Analysis

2.5.1 Soil

One most apparent “worst case” soil sample, based on vapour concentrations as well as visual and/or olfactory considerations, recovered from each borehole was submitted for laboratory analysis of one or more of PHCs (F1-F4), VOCs, BTEX, PAHs and metals.

In addition, representative soil samples were submitted for pH analysis and grain size distribution analysis to confirm the Site Condition Standards applicable to the Site as provided in the MECP document entitled “*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*”, dated April 15, 2011 (*MECP Standards*). A composite sample of the excess soil generated by the borehole drilling program was also submitted for analysis of leachate concentrations of inorganics, volatile organic compounds, polychlorinated biphenyls, and benzo(a)pyrene in accordance with the Toxicity Characteristic Leaching Procedure (TCLP) procedure as per Ontario Regulation 347 (as amended) to characterize the soil cuttings for possible off-Site disposal purposes.

The borehole locations are shown on Figure 2. Table 1 provides a summary of the soil samples submitted for laboratory analysis.

2.5.2 Groundwater

On May 24, 2022, newly installed groundwater monitoring wells MW2 and existing monitoring wells, MW101 and MW102, and on June 8, 2022, newly installed groundwater monitoring well MW3 were developed by removing three well casing volumes, or purging until dry three times, in accordance with Pinchin’s SOPs. MW1 was observed to be dry on May 24, 2022 and June 8, 2022.



On June 9, 2022, newly installed groundwater monitoring wells, MW2 and MW3 and on May 25, 2022, existing monitoring wells, MW101 and MW102, were purged until dry and sampled using Pinchin's SOPs. The groundwater samples collected from these monitoring wells were submitted for laboratory analysis of one or more of PHCs (F1-F4), VOCs, PAHs and metals. The sample collected for metals analysis (from MW102) was filtered in the field using dedicated 0.45-micron in-line filters prior to preservation.

All monitoring well development activities were conducted using dedicated inertial pumps comprised of Waterra polyethylene tubing and foot valves. Following pre-sampling purging with dedicated inertial pumps, sampling for PHCs (F2-F4) and PAHs was conducted using a peristaltic pump and dedicated polyethylene tubing. Sampling for VOCs, PHCs (F1) and metals was then conducted using dedicated inertial pumps.

The monitoring well locations are shown on Figure 2. Table 1 provides a summary of the groundwater samples submitted for laboratory analysis.

2.5.3 Analytical Laboratory

Selected soil and groundwater samples were delivered to Bureau Veritas Laboratories (BV Labs) in Mississauga, Ontario for analysis. BV Labs is an independent laboratory accredited by the Standards Council of Canada and the Canadian Association for Laboratory Accreditation. A formal chain of custody record of the sample submissions were maintained between Pinchin and the staff at BV Labs.

2.6 QA/QC Protocols

Various quality assurance/quality control (QA/QC) protocols were followed during the Phase II ESA to ensure that representative samples were obtained and that representative analytical data were reported by the laboratory.

Field QA/QC protocols that were employed by Pinchin included the following:

- Soil samples were extracted from the interior of the sampling device (where possible), rather than from areas in contact with the sampler walls to minimize the potential for cross-contamination;
- Soil and groundwater samples were placed in laboratory-supplied glass sample jars;
- The monitoring wells were developed following installation and were purged to remove stagnant water prior to sample collection so that representative groundwater samples could be obtained. Dedicated purging and sampling equipment was used for monitoring well development, purging and sampling to minimize the potential for cross-contamination;



- Soil and groundwater samples were placed in coolers on ice immediately upon collection, with appropriate sample temperatures maintained prior to submission to the laboratory;
- Dedicated and disposable nitrile gloves were used for sample handling;
- Non-dedicated monitoring and sampling equipment (e.g., interface probe) was cleaned before initial use and between uses to minimize the potential for cross-contamination by washing with an Alconox™/potable water mixture followed by a deionized water rinse; and
- Sample collection and handling procedures were performed in general accordance with the *MECP Sampling Guideline*, the *APGO Guideline* and Pinchin's SOPs for Phase II ESAs.

BV Labs' internal laboratory QA/QC consisted of the analysis of laboratory duplicate, method blank, matrix spike and spiked blank samples, an evaluation of relative percent difference calculations for laboratory duplicate samples, and an evaluation of surrogate recoveries.

2.7 Ontario Water Well Records

Ontario Regulation 903 (as amended) requires that all wells installed to depths greater than 3.0 mbgs have a water well record completed by a licensed well technician. The owner of the monitoring well must keep the water well record on file for a period of two years and the monitoring wells must be decommissioned as per Ontario Regulation 903 (as amended) if monitoring wells are no longer in use. Strata is a licensed well driller under Ontario Regulation 903 (as amended) and submitted a water well record to the MECP and the Client to fulfill the requirements of Ontario Regulation 903 (as amended).

2.8 Site Condition Standards

The Site is developed with a single-storey multi-tenant commercial/light industrial plaza located within the City of Mississauga. It is Pinchin's understanding that potable water for the Site and surrounding area is supplied by the City of Mississauga, with Lake Ontario serving as the water source.

Ontario Regulation 153/04 (as amended) states that a Site is classified as an "environmentally sensitive area" if the pH of the surface soil (less than 1.5 mbgs) is less than 5 or greater than 9, the pH of the subsurface soil (greater than 1.5 mbgs) is less than 5 or greater than 11, or if the Site is an area of natural significance or is adjacent to or contains land within 30 metres of an area of natural significance. Two representative soil samples collected from the boreholes advanced at the Site were submitted for pH analysis. The pH values measured in the submitted soil samples were within the limits for non-sensitive sites. The Site is also not an area of natural significance and it is not adjacent to, nor does it contain land

within 30 metres of, an area of natural significance. As such, the Site is not an environmentally sensitive area.

Two representative soil samples collected from the boreholes advanced at the Site were submitted for 75 micron single-sieve grain size analysis. Based on the results of this analysis, and interpretation of the soil stratigraphy at the Site, the soil at the Site is interpreted to be coarse textured for the purpose of selecting the appropriate *MECP Standards*.

The pH and grain size analytical results are summarized in Table 3.

Based on the above, the appropriate Site Condition Standards for the Site are:

- “Table 3: Full Depth Generic Site Condition Standards for Use in a Non-Potable Ground Water Condition”, provided in the *MECP Standards (Table 3 Standards)* for:
 - Coarse-textured soils; and
- Industrial/commercial/community property use.

As such, the analytical results have been compared to these *Table 3 Standards*.

3.0 RESULTS

3.1 Geophysical Survey

Pinchin retained OnSite Locates on May 17, 2022, to complete private utility locates, including a geophysical survey consisting of GPR scans adjacent to the existing fill pipe and over the cut/patched asphalt surface located adjacent to the north side of the Site Building.

The results of the GPR scans confirmed the presence of an existing UST located adjacent to the east side of the former boiler room within the diagnostic imaging unit and no distinct UST-like anomalies within the asphalt cut/patched area however, some disturbed soil indicative of a potential excavation area was noted.

The GPR scanned areas are shown on Figure 2 and a copy of the geophysical survey notes are included in Appendix V.

3.2

3.3 Site Geology and Hydrogeology

Based on the soil samples recovered during the borehole drilling program, the soil stratigraphy at the drilling locations below the concrete or asphalt surface generally consists of fill material comprised of sand or sand and gravel, or silty sand to a maximum depth of 2.44 mbgs.

Native subsurface material underlying the fill material was observed to generally consist of silty sand, sandy silt, silt or sand with gravel that extended to the maximum borehole completion depth of 6.10 mbgs. Moist to wet soil conditions were generally observed between 1.52 and 3.05 mbgs.

A detailed description of the subsurface stratigraphy encountered during borehole advancement is documented in the borehole logs located in Appendix II.

The water level information obtained during groundwater monitoring is presented in Table 4 and on the borehole logs in Appendix II. The depth to groundwater measured within the monitoring wells ranged from 2.63 mbgs at monitoring well MW101 to 3.85 mbgs at monitoring well MW3 on May 25, 2022 and June 9, 2022.

Etobicoke Creek is located approximately 300 metres (m) east of the Site. The topography of the Site and surrounding area were observed to slope towards the east to southeast. Groundwater flow at the Site is inferred to be towards the east to northeast based on the topography of the Site area and the location of Etobicoke Creek.

3.4 Soil Headspace Vapour Concentrations

Vapour concentrations measured in the headspace of soil samples collected during the drilling investigation are presented on the borehole logs in Appendix II and ranged from 0 parts per million by volume (ppm_v) to a maximum of 20 ppm_v in soil sample MW1-1 collected at a depth of 0.15 and 0.76 mbgs in borehole MW1.

3.5 Field Observations

No odours or staining were observed in the soil samples collected during the borehole drilling program, with the exception of some white staining in soil sample BH4-1 collected at borehole BH4 at a depth of 0.15 to 0.5 mbgs, grey staining in soil sample MW1-2 at borehole MW1 at a depth of 0.91 to 1.52 mbgs and black-staining in soil sample MW2-5 in borehole MW2 at a depth of 3.05 to 3.20 mbgs.

Pinchin notes that blackish discolouration was noted within MW2-5 however, given that no odours or soil vapour concentrations were identified at this depth, that the soil sample collected from MW2-7 was non-detectable for both PHCs and VOCs and that groundwater collected from the same depth interval MW2-5 was also non-detectable for both PHCs and VOCs, this black discolouration is not considered by Pinchin to represent a significant concern.

No odours or evidence of sheen or NAPL were observed during groundwater monitoring and sampling.

3.6 Analytical

3.6.1 Soil

As indicated in Tables 5 through 8, reported concentrations of one or more of PHCs (F1-F4), VOCs, PAHs and metals in the soil samples submitted for analysis met the *Table 3 Standards*.

The summary of the TCLP analytical results along with the leachate quality criteria listed in Schedule 4 of Ontario Regulation 347 (as amended) (*Schedule 4 Criteria*) can be found in Table 9.

As indicated in Table 9, the leachate concentrations in the soil sample were below the applicable *Schedule 4 Criteria*. Based on these findings, the excess soil generated by the borehole drilling program is suitable for off-Site disposal as non-hazardous solid waste.

The laboratory Certificate of Analysis for the soil samples is provided in Appendix IV.

3.6.2 Groundwater

As indicated in Tables 10 through 13, reported concentrations in the groundwater samples submitted for analysis of one or more of PHCs (F1-F4), VOCs, PAHs and metals met the *Table 3 Standards*.

Although the monitoring well MW1 was noted to be dry, given the low soil vapour concentration during field screening the non-detectable concentrations of PHCs and VOCs including BTEX within the soil samples collected from MW1 and the fact that MW1 was advanced for general Site coverage purposes only, the absence of groundwater at this location is not considered to be an issue of concern.

The laboratory Certificates of Analysis for the groundwater samples are provided in Appendix IV.

4.0 FINDINGS AND CONCLUSIONS

Based on the work completed, the following is a summary of the activities and findings of this Phase II ESA:

- The results of the GPR scans confirmed the presence of an existing UST located adjacent to the east side of the former boiler room within the diagnostic imaging unit and no distinct UST-like anomalies within the asphalt cut/patched area however, some disturbed soil indicative of a potential excavation area was noted.
- Pinchin retained Strata to advance six boreholes at the Site on May 20, 2022 and June 4, 2022. The boreholes were advanced to a maximum depth of 6.1 mbgs using a Geoprobe 7822 DT or a 420 M direct push drill rig. Three of the boreholes were instrumented with monitoring wells to enable groundwater monitoring and sampling.



- Fill material comprised of sand or sand and gravel, or silty sand was observed to a maximum depth of 2.44 mbgs. Native subsurface material underlying the fill material was observed to generally consist of silty sand, sandy silt, silt or sand with gravel that extended to the maximum borehole completion depth of 6.10 mbgs. Moist to wet soil conditions were generally observed between 1.52 and 3.05 mbgs;
- Groundwater levels at the Site measured on May 25, 2022 and June 9, 2022, varied between 2.63 mbgs (MW101) and 3.85 mbgs (MW3). Inferred groundwater flow is expected to be east or northeast based on the topography of the Site area and the location of Etobicoke Creek.
- Based on Site-specific information, the soil and groundwater quality was assessed based on the *Table 3 Standards* for industrial/commercial/community land use and coarse-textured soils.
- Ten “worst case” soil samples based on the results of field screening were submitted for laboratory analysis of one or more of PHCs (F1-F4), VOCs, BTEX, PAHs and metals.
- Groundwater samples were collected from monitoring wells MW2 and MW3 installed by Pinchin and existing monitoring wells, MW101 and MW102, installed by others on June 9 and May 25, 2022, and were submitted for laboratory analysis of one or more of PHCs (F1-F4), VOCs, PAHs and/or metals.
- Reported concentrations in the soil samples submitted for analysis of PHCs (F1-F4), VOCs, BTEX, PAHs and metals satisfied their respective *Table 3 Standards*.
- Reported concentrations in the groundwater samples submitted for analysis of PHCs (F1-F4), VOCs, PAHs and metals satisfied their respective *Table 3 Standards*.

Based on the findings of this Phase II ESA, it is Pinchin’s opinion that no further subsurface investigation work is required for the Site at this time. However, Pinchin recommends that the out-of-use UST identified on Site be removed or decommissioned in-place by an appropriate licensed contractor in accordance with the applicable regulatory requirements and that sampling be completed at that time in accordance with the MECP Sampling Guideline and/or in accordance with the Technical Standards and Safety Authority’s (TSSA’s) Fuel Oil Code. It should be noted that residual impacts in soil may be present below the UST the potential presence of which could not be eliminated as part of this Phase II ESA with the UST in-place.

5.0 TERMS AND LIMITATIONS

This Phase II ESA was performed for Virtue Acquisition Inc. (Client) in order to investigate potential environmental impacts at 1995 Dundas Street East and 3040 & 3044 Universal Drive in Mississauga,



Ontario (Site). This Phase II ESA does not quantify the extent of the current and/or potential environmental impacts or the cost of any remediation.

Conclusions derived are specific to the immediate area of study and cannot be extrapolated extensively away from sample locations. Samples have been analyzed for a limited number of contaminants that are expected to be present at the Site, and the absence of information relating to a specific contaminant does not indicate that it is not present.

No environmental site assessment can wholly eliminate uncertainty regarding the potential for environmental impacts on a property. Performance of this Phase II ESA to the standards established by Pinchin is intended to reduce, but not eliminate, uncertainty regarding the potential for environmental impacts on the Site and recognizes reasonable limits on time and cost.

This Phase II ESA was performed in general compliance with currently acceptable practices for environmental site investigations, and specific Client requests, as applicable to this Site. The scope of work completed by Pinchin, as part of this Phase II Environmental Site Assessment, is not sufficient (in and of itself) to meet the requirements for the submission of a Record of Site Condition (RSC) in accordance with Ontario Regulation 153/04 (as amended). If an RSC is an intended end product of work conducted at the Site, further consultation and/or work will be required.

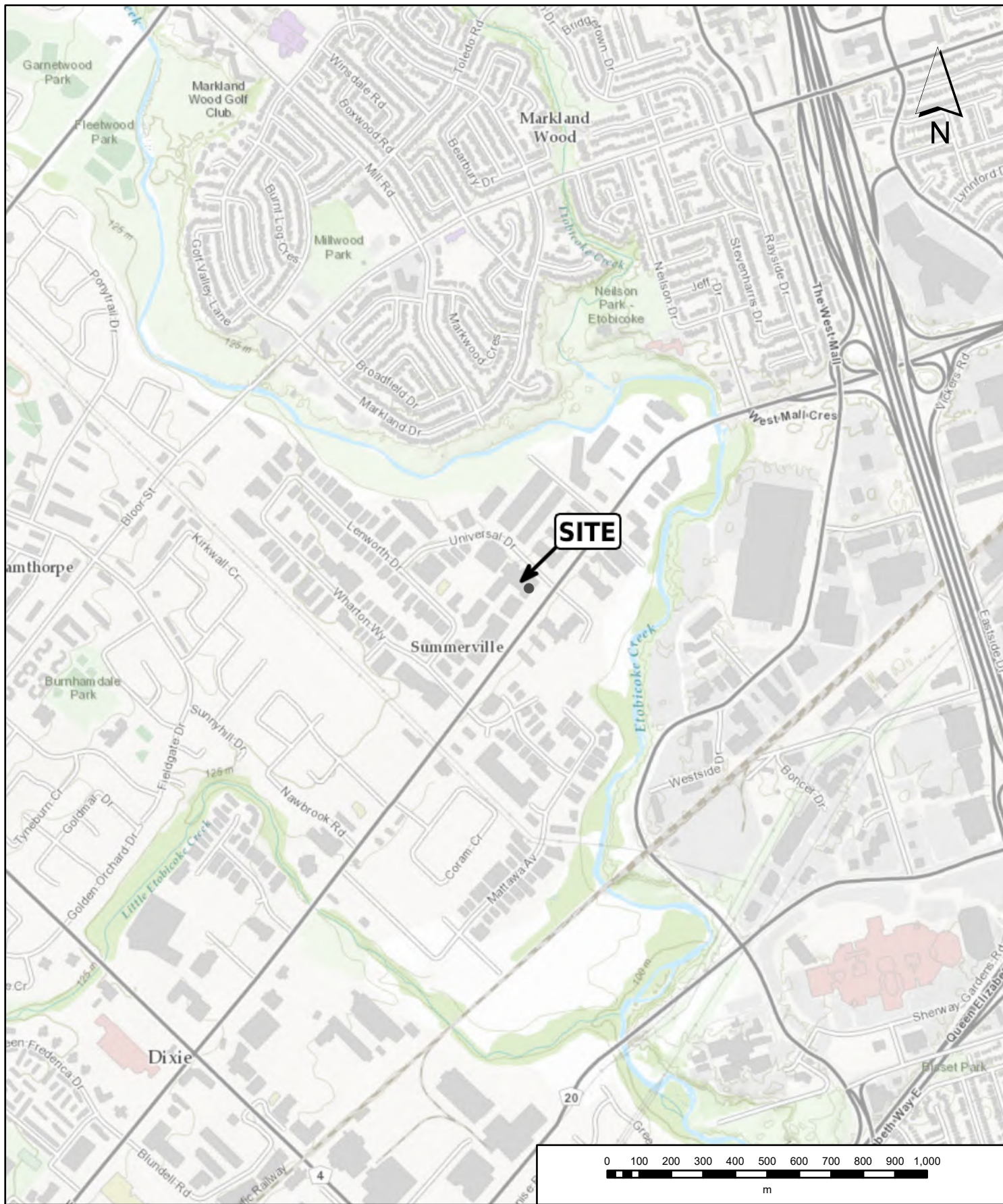
This report was prepared for the exclusive use of the Client and Cushman and Wakefield, subject to the terms, conditions and limitations contained within the duly authorized proposal for this project. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted.

If additional parties require reliance on this report, written authorization from Pinchin will be required. Pinchin disclaims responsibility of consequential financial effects on transactions or property values, or requirements for follow-up actions and costs. No other warranties are implied or expressed. Furthermore, this report should not be construed as legal advice. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law.

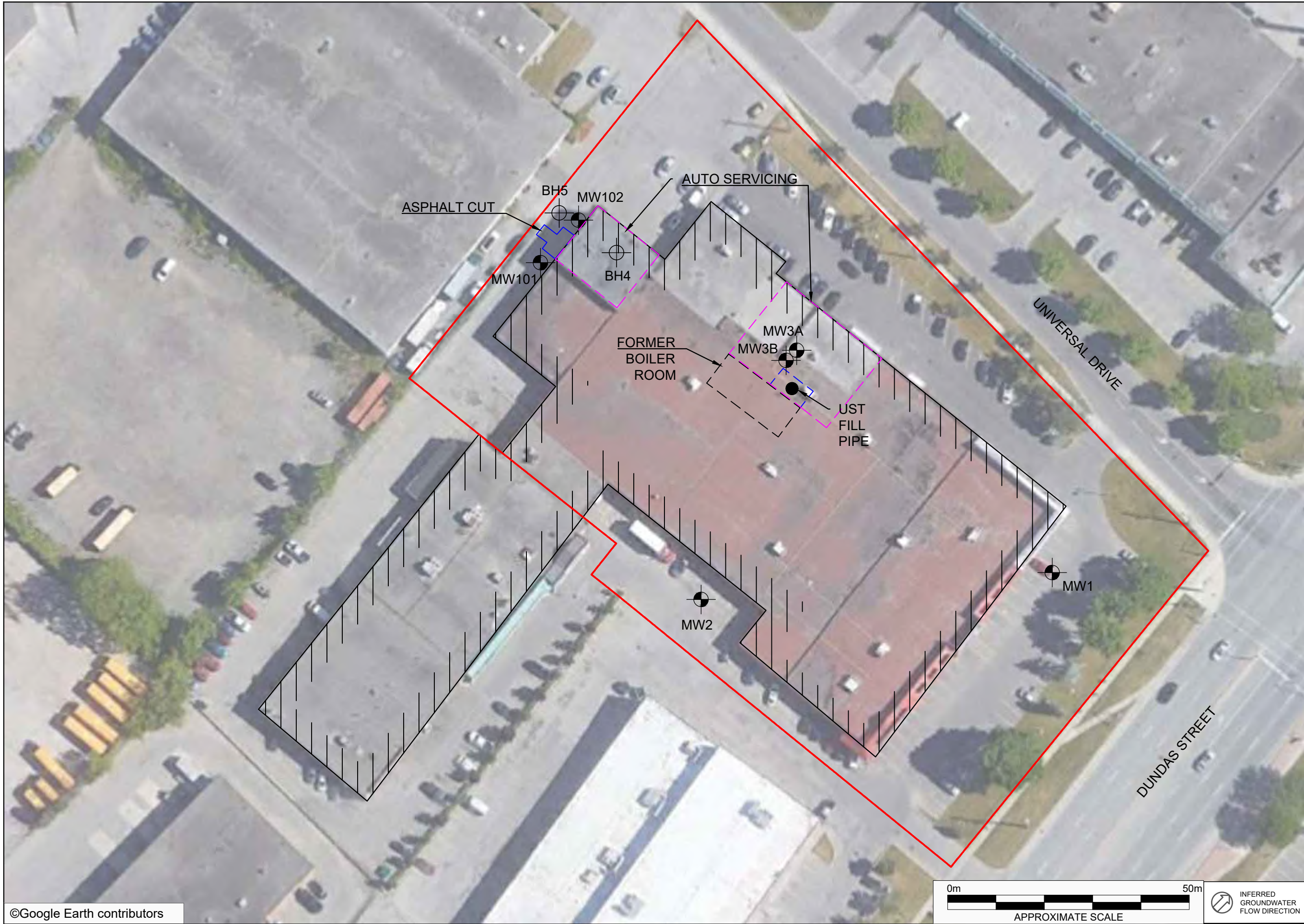
Pinchin makes no other representations whatsoever, including those concerning the legal significance of its findings, or as to other legal matters touched on in this report, including, but not limited to, ownership of any property, or the application of any law to the facts set forth herein. With respect to regulatory compliance issues, regulatory statutes are subject to interpretation and these interpretations may change over time.

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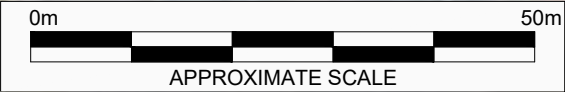
APPENDIX I
Figures



	PROJECT NAME: PHASE II ENVIRONMENTAL SITE ASSESSMENT					
	CLIENT NAME: VIRTUE ACQUISITION INC.					
	PROJECT LOCATION: 1995 DUNDAS STREET EAST & 3040 & 3044 UNIVERSAL AVENUE DRIVE, MISSISSAUGA, ONTARIO					
	FIGURE NAME: KEY MAP					FIGURE NUMBER 1
	PROJECT NUMBER: 309491	SCALE: 1:22,000	DRAWN BY: FY	REVIEWED BY: LB	DATE: JUNE 2022	



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LEGEND

— SITE BOUNDARY

▨ SITE BUILDING

GPR GROUND PENETRATING RADAR

▭ GPR AREA

⊕ BOREHOLE

⊙ MONITORING WELL

⊗ VENT/FILL PIPE

LEGEND IS COLOUR DEPENDENT.
NON-COLOUR COPIES MAY ALTER
INTERPRETATION.

PROJECT NAME:
PHASE II ENVIRONMENTAL
SITE ASSESSMENT

CLIENT NAME:
VIRTUE ACQUISITION INC.

PROJECT LOCATION:
1995 DUNDAS STREET EAST &
3040 & 3044 UNIVERSAL DRIVE,
MISSISSAUGA , ONTARIO

FIGURE NAME:
BOREHOLE AND MONITORING
WELL LOCATION PLAN

PROJECT NUMBER: 309491	SCALE: AS SHOWN
DRAWN BY: FY	REVIEWED BY: LB
DATE: JUNE 2022	FIGURE NUMBER: 2

DRAFT

APPENDIX II
Borehole Logs



Log of Borehole: BH4

Project #: 309491.000

Logged By: CP

Project: Phase II Environmental Site Assessment

Client: Virtue Acquisition Inc.

Location: 1995 Dundas Street East and 3040 & 3044 Universal Drive, Mississauga, Ontario

Drill Date: May 20, 2022

SUBSURFACE PROFILE					SAMPLE			
Depth	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 ft 0 m		Ground Surface						
1		Concrete	0.00	No Monitoring Well Installed	45			
2		Sand and Gravel Fill Brown, trace rock formation, dry, white staining.				1	15/0	PHCs, BTEX, Metals
3						2	5/0	
4		No staining below 1.37 mbgs.						
5			1.52			3	0/0	
6		Silty Sand Brown, some gravel, and rock formation, moist.			63			
7						4	5/1	VOCs
8								
9						5	0/0	
10								
11		Moist to wet below 3.81 mbgs.				6	0/0	Grain size
12					67			
13								
14								
15		End of Borehole	4.57					
16								
17								
18								
19								
20								
21								
22								
23								

Contractor: Strata Drilling Group

Drilling Method: Direct Push/Auger

Well Casing Size: 5.1 cm

Note:

* Soil vapour concentrations measured using a RKI Eagle 2 equipped with a combustible gas indicator (CGI) and a photoionization detector (PID).

Grade Elevation: NM

Top of Casing Elevation: NM

Sheet: 1 of 1



Log of Borehole: BH5

Project #: 309491.000

Logged By: CP

Project: Phase II Environmental Site Assessment

Client: Virtue Acquisition Inc.

Location: 1995 Dundas Street East and 3040 & 3044 Universal Drive, Mississauga, Ontario

Drill Date: May 20, 2022

SUBSURFACE PROFILE					SAMPLE			
Depth	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0		Ground Surface		No Monitoring Well Installed				
0		Asphalt	0.00					
1		Sand and Gravel Fill				1	0/0	
2		Brown, with some rock, moist.			57	2	0/0	
3		Silty Sand	0.76					
4		Brown, some gravel, moist.				3	5/0	
5				No Monitoring Well Installed				
6		Moist to wet below 2.29 mbgs.			60	4	5/0	PHCs, BTEX, PAHs, Metals
7						5	0/0	
8								
9		Moist below 3.05 mbgs.				6	0/0	VOCs
10					100			
11				No Monitoring Well Installed				
12		Grey and wet below 4.27 mbgs.						
13								
14								
15		End of Borehole	4.57					
16								
17				No Monitoring Well Installed				
18								
19								
20								
21								
22								
23								

Contractor: Strata Drilling Group

Drilling Method: Direct Push/Auger

Well Casing Size: 5.1 cm

Note:

* Soil vapour concentrations measured using a RKI Eagle 2 equipped with a combustible gas indicator (CGI) and a photoionization detector (PID).

Grade Elevation: NM

Top of Casing Elevation: NM

Sheet: 1 of 1



Log of Borehole: MW1

Project #: 309491.000

Logged By: CP

Project: Phase II Environmental Site Assessment

Client: Virtue Acquisition Inc.

Location: 1995 Dundas Street East and 3040 & 3044 Universal Drive, Mississauga, Ontario

Drill Date: May 20, 2022

SUBSURFACE PROFILE					SAMPLE			
Depth	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0		Ground Surface	0.00		38			
1		Asphalt				1	20/0	PHCs, BTEX, Metals
2		Sand and Gravel Fill Brown, silt with some sand and gravel, wet			55	2	15/1	pH
3		Silty Clay Brown, moist. Grey staining from 0.91 to 1.52 mbgs.	1.52			3	10/0	
4		Silty Sand Brown, some gravel, moist to wet.			83	4	10/0	
5		Wet below 2.29 mbgs.				5	10/0	pH, Grain Size
6		Rock fragments.		Observed to be dry on May 24 and June 8, 2022.		6	10/0	VOCs
7		End of Borehole	4.57					
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								

Contractor: Strata Drilling Group

Drilling Method: Direct Push/Auger

Well Casing Size: 5.1 cm

Note:

* Soil vapour concentrations measured using a RKI Eagle 2 equipped with a combustible gas indicator (CGI) and a photoionization detector (PID).

Grade Elevation: NM

Top of Casing Elevation: NM

Sheet: 1 of 1



Log of Borehole: MW2

Project #: 309491.000

Logged By: CP

Project: Phase II Environmental Site Assessment

Client: Virtue Acquisition Inc.

Location: 1995 Dundas Street East and 3040 & 3044 Universal Drive, Mississauga, Ontario

Drill Date: May 20, 2022

SUBSURFACE PROFILE					SAMPLE			
Depth	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0		Ground Surface			50			
0		Asphalt	0.00					
1		Sand Fill			50	1	0/0	
2		Dry to moist.						
3		Asphalt			57	2	0/0	
4		Sand						
5		Brown, trace silt and gravel, dry to moist.			57	3	0/0	
6		Silty Sand	1.52					
7		Brown, trace gravel, dry to moist.			67	4	0/0	PHCs, VOCs
8		Moist below 2.90 mbgs.						
9		Black staining in sand seam at 3.05 to 3.20 mbgs.			67	5	0/0	
10								
11		Sandy Silt	3.20		75	6	0/0	
12		Brown, trace gravel, rock fragment.						
13		Silt			75	7	0/0	
14		Grey, trace gravel, moist. Wet below 4.27 mbgs.						
15					75	8	0/0	
16		Sand	4.57					
17		Brown, some gravel, trace rock fragments, silt, wet.			75			
18								
19		Grey below 5.79 mbgs.			75			
20								
21		End of Borehole	6.10		75			
22								
23					75			
24								

Contractor: Strata Drilling Group

Drilling Method: Direct Push/Auger

Well Casing Size: 5.1 cm

Note:

* Soil vapour concentrations measured using a RKI Eagle 2 equipped with a combustible gas indicator (CGI) and a photoionization detector (PID).

Grade Elevation: NM

Top of Casing Elevation: NM

Sheet: 1 of 1



Log of Borehole: MW3

Project #: 309491.000

Logged By: SS

Project: Phase II Environmental Site Assessment

Client: Virtue Acquisition Inc.

Location: 1995 Dundas Street East and 3040 & 3044 Universal Drive, Mississauga, Ontario

Drill Date: June 4, 2022

SUBSURFACE PROFILE					SAMPLE			
Depth	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 ft 0 m		Ground Surface						
1		Concrete	0.00					
2		Sand Fill Brown, dry to moist.				1	5/0	
3		Silty Sand Fill Brown, some gravel, moist.	0.61		67	2	10/0	PHCs, VOCs, PAHs
4								
5								
6					42	3	0/0	
7								
8		Silty Sand Brown, some gravel, trace sand, moist.	2.44					
9								
10					48	4	0/0	
11								
12								
13			3.66					
14		Sampler refusal at 3.66 mbgs. Augered to 7.01 mbgs.						
15								
16								
17								
18								
19								
20								
21								
22								
23								
		End of Borehole						

Contractor: Strata Drilling Group

Drilling Method: Direct Push/Auger

Well Casing Size: 5.1 cm

Note:

* Soil vapour concentrations measured using a RKI Eagle 2 equipped with a combustible gas indicator (CGI) and a photoionization detector (PID).

Grade Elevation: NM

Top of Casing Elevation: NM

Sheet: 1 of 1



Log of Borehole: BH3

Project #: 309491.000

Logged By: CP

Project: Phase II Environmental Site Assessment

Client: Virtue Acquisition Inc.

Location: 1995 Dundas Street East and 3040 & 3044 Universal Drive, Mississauga, Ontario

Drill Date: May 20, 2022

SUBSURFACE PROFILE					SAMPLE			
Depth	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 ft 0 m		Ground Surface						
1		Concrete	0.00	No Monitoring Well Installed				
2		Sand Fill Brown, moist.			10	1	0/0	
4		Silty Sand Brown, some gravel, trace silt, moist.	1.22		40	2	0/0	Metals
8		Increasing gravel content at 2.44 mbgs.			50	3	0/0	PHCs, VOCs, PAHs
9		End of Borehole	2.74					
10								
11								
12								
13								
14		Sampler refusal at 2.74 mbgs.						
15								
16								
17								
18								
19								
20								
21								
22								
23								

Contractor: Strata Drilling Group

Drilling Method: Direct Push/Auger

Well Casing Size: 5.1 cm

Note:

* Soil vapour concentrations measured using a RKI Eagle 2 equipped with a combustible gas indicator (CGI) and a photoionization detector (PID).

Grade Elevation: NM

Top of Casing Elevation: NM

Sheet: 1 of 1

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APPENDIX III
Summary Tables

TABLE 1
SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

Virtue Acquisition Inc.
1995 Dundas Street East and 3040 & 3044 Universal Drive, Mississauga, Ontario

Samples			Parameters										Rationale/Notes			
Borehole / Monitoring Well ID	Sample ID	Sample Depth Range (mbgs)	SOIL SAMPLES	PHCs (F1-F4) & BTEX	VOCs	PAHs	Metals	pH	Grain Size Analysis	TCLP	GROUNDWATER SAMPLES	PHCs (F1-F4) & BTEX		VOCs	PAHs	Metals
MW1	MW1-1	0.15 - 0.76			●			●								
	MW1-2	0.76 - 1.52						●								
	MW1-5	3.05 - 3.81						●	●							
	MW1-6	3.81 - 4.57			●											
MW2	MW2	NA										●	●			To assess soil and groundwater quality in relation to general Site coverage within the west portion of the Site.
	MW2-7	4.57 - 5.33		●	●											
MW3	MW3	NA										●	●	●		To assess soil and groundwater quality in relation to an existing on-Site underground storage tank. Confirm applicable MECP standards.
	MW3-2	0.61 - 1.22		●	●	●										
BH3	BH3-2	1.22 - 2.44					●									
	BH3-3	2.44 - 2.74		●	●	●										
BH4	BH4-1	0.15 - 0.76		●			●									To assess soil quality in relation to a potential former on-Site underground storage tank or former excavation area (i.e., cut/patched asphalt surface). Confirm applicable MECP standards.
	BH4-4	2.29 - 3.05			●											
	BH4-6	3.81 - 4.57							●							
BH5	BH5-4	2.29 - 3.05		●		●	●									To assess soil quality within the automotive servicing unit within the north porton of the Site Building.
	BH5-6	3.81 - 4.57			●											
MW101	MW101	NA										●	●			Assess groundwater quality in relation to a potential former on-Site underground storage tank or former excavation area (i.e., cut asphalt surface) utilizing the existing monitoring wells.
MW102	MW102	NA										●	●	●	●	
TCLP	TCLP	Composite								●						Classify excess soil generated by borehole drilling for off-Site disposal.

Notes:

PHCs (F1-F4) Petroleum Hydrocarbons (Fraction 1 to Fraction 4)
 BTEX Benzene, Toluene, Ethylbenzene, and Xylenes
 VOCs Volatile Organic Compounds
 PAHs Polycyclic Aromatic Hydrocarbons
 TCLP Toxicity Characteristic Leaching Procedure
 mbgs Metres Below Ground Surface
 MECP Ontario Ministry of the Environment, Conservation and Parks

TABLE 2
pH AND GRAIN SIZE ANALYSIS FOR SOIL

Virtue Acquisition Inc.

1995 Dundas Street East and 3040 & 3044 Universal Drive, Mississauga, Ontario

Parameter	Units	MECP Site Condition Standard Selection Criteria	Sample Designation		
			Sample Collection Date (dd/mm/yyyy)		
			Sample Depth (mbgs)		
			MW1-2	MW1-5	BH4-6
			20/05/2022	20/05/2022	20/05/2022
			0.76 - 1.52	3.05 - 3.81	3.81 - 4.57
			Surface	Subsurface	Subsurface
pH		Surface: 5 < pH < 9	7.66	7.93	-
		Subsurface: 5 < pH < 11			
Sieve #200 <0.075 mm	%	50%	-	30	49
Sieve #200 >0.075 mm	%	50%	-	70	51
Grain Size Classification			-	COARSE	COARSE

Notes:

BOLD
BOLD
NA
mbgs

Environmentally Sensitive Area (Based Upon pH of Surface Soil)
Environmentally Sensitive Area (Based Upon pH of Sub-Surface Soil)
Not Analysed
Metres Below Ground Surface

TABLE 3
MONITORING WELL CONSTRUCTION DETAILS

Virtue Acquisition Inc.

1995 Dundas Street East and 3040 & 3044 Universal Drive, Mississauga, Ontario

<i>Well Number</i>	<i>Calculated Difference Between Ground and TOC (m)</i>	<i>Length of Screen (m)</i>
MW101	-0.05	3.05
MW102	-0.05	3.05
MW1	-0.11	3.05
MW2	-0.09	3.05
MW3	-0.14	3.05

Notes:

TOC Indicates Top of Casing
 NM Not Measured
 m Metres

TABLE 4
GROUNDWATER LEVEL DATA

Virtue Acquisition Inc.

1995 Dundas Street East and 3040 & 3044 Universal Drive, Mississauga, Ontario

<i>Well Number</i>	<i>Date (dd/mm/yyyy)</i>	<i>NAPL Level Measurement from TOC (m)</i>	<i>Water Level Measurement from TOC (m)</i>	<i>Water Level Measurement from Ground (mbgs)</i>	<i>Product Thickness (m)</i>
MW101	25/05/2022	ND	2.58	2.63	ND
MW102	25/05/2022	ND	2.62	2.67	ND
MW1	25/05/2022	DRY			
MW1	06/09/2022	DRY			
MW2	06/09/2022	ND	2.60	2.69	ND
MW3	06/09/2022	ND	3.71	3.85	ND

Notes:

NAPL Non-Aqueous Phase Liquid
 ND Not Detected
 TOC Indicates Top of Casing
 m Metres
 mbgs Metres Below Ground Surface

TABLE 5
PETROLEUM HYDROCARBON AND BTEX ANALYSIS FOR SOIL

Virtue Acquisition Inc.

1995 Dundas Street East and 3040 & 3044 Universal Drive, Mississauga, Ontario

Parameter	MECP Table 3 Standards*	Sample Designation					
		Sample Collection Date (dd/mm/yyyy)					
		Sample Depth (mbgs)					
		MW1-1	MW2-7	MW3-2	BH3-3	BH4-1	BH5-4
		20/05/2022	20/05/2022	04/06/2022	20/05/2022	20/05/2022	20/05/2022
		0.15 - 0.76	4.57 - 5.33	0.61 - 1.22	2.44 - 2.74	0.15 - 0.76	2.29 - 3.05
Benzene	0.32	<0.020	<0.0060	<0.0060	<0.0060	<0.020	<0.020
Toluene	68	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Ethylbenzene	9.5	<0.020	<0.010	<0.010	<0.010	<0.020	<0.020
Xylenes (Total)	26	<0.040	<0.020	<0.020	<0.020	<0.040	<0.040
Petroleum Hydrocarbons F1 (C ₆ - C ₁₀)	55	<10	<10	<10	<10	<10	<10
Petroleum Hydrocarbons F2 (>C ₁₀ - C ₁₆)	230	<10	<10	<10	<10	<10	<10
Petroleum Hydrocarbons F3 (>C ₁₆ - C ₃₄)	1700	<50	<50	<50	<50	<50	98
Petroleum Hydrocarbons F4 (>C ₃₄ - C ₅₀)	3300	<50	<50	<50	<50	<50	310

Notes:

MECP Table 3 Standards*

Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 3 Standards, Coarse-Textured Soils, Non-Potable Groundwater Condition, for Industrial/Commercial/Community Property Use.

BOLD
BOLD

Exceeds Site Condition Standard

Reportable Detection Limit Exceeds Site Condition Standard

Units

All Units in µg/g

mbgs

Metres Below Ground Surface

BTEX

Benzene, Toluene, Ethylbenzene and Xylenes

TABLE 6
VOLATILE ORGANIC COMPOUND ANALYSIS FOR SOIL

Virtue Acquisition Inc.
1995 Dundas Street East and 3040 & 3044 Universal Drive, Mississauga, Ontario

Parameter	MECP Table 3 Standards*	Sample Designation					
		Sample Collection Date (dd/mm/yyyy)					
		Sample Depth (mbgs)					
		MW1-6	MW2-7	MW3-2	BH3-3	BH4-4	BH5-6
		20/05/2022	20/05/2022	04/06/2022	20/05/2022	20/05/2022	20/05/2022
		3.81 - 4.57	4.57 - 5.33	0.61 - 1.22	2.44 - 2.74	2.29 - 3.05	3.81 - 4.57
Acetone	16	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49
Benzene	0.32	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060
Bromodichloromethane	18	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Bromoform	0.61	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Bromomethane	0.05	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Carbon Tetrachloride	0.21	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chlorobenzene	2.4	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Chloroform	0.47	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Dibromochloromethane	13	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
1,2-Dichlorobenzene	6.8	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
1,3-Dichlorobenzene	9.6	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
1,4-Dichlorobenzene	0.2	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Dichlorodifluoromethane	16	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
1,1-Dichloroethane	17	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
1,2-Dichloroethane	0.05	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
1,1-Dichloroethylene	0.064	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
cis-1,2-Dichloroethylene	55	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
trans-1,2-Dichloroethylene	1.3	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
1,2-Dichloropropane	0.16	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
1,3-Dichloropropene (Total)	0.18	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	9.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ethylene Dibromide	0.05	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Hexane	46	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Methyl Ethyl Ketone	70	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Methyl Isobutyl Ketone	31	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Methyl t-Butyl Ether (MTBE)	11	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Methylene Chloride	1.6	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049
Styrene	34	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
1,1,1,2-Tetrachloroethane	0.087	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
1,1,2,2-Tetrachloroethane	0.05	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Tetrachloroethylene	4.5	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Toluene	68	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
1,1,1-Trichloroethane	6.1	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
1,1,2-Trichloroethane	0.05	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Trichloroethylene	0.91	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Trichlorofluoromethane	4	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Vinyl Chloride	0.032	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019
Xylenes (Total)	26	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020

Notes:

MECP Table 3 Standards*

Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 3 Standards, Coarse-Textured Soils, Non-Potable Groundwater Condition, for Industrial/Commercial/Community Property Use.

BOLD
BOLD
Units
mbgs

Exceeds Site Condition Standard
Reportable Detection Limit Exceeds Site Condition Standard
All Units in µg/g
Metres Below Ground Surface

TABLE 7
POLYCYCLIC AROMATIC HYDROCARBON ANALYSIS FOR SOIL
Virtue Acquisition Inc.
1995 Dundas Street East and 3040 & 3044 Universal Drive, Mississauga, Ontario

Parameter	MECP Table 3 Standards*	Sample Designation		
		Sample Collection Date (dd/mm/yyyy)		
		Sample Depth (mbgs)		
		MW3-2	BH3-3	BH5-4
		04/06/2022	20/05/2022	20/05/2022
		0.61 - 1.22	2.44 - 2.74	2.29 - 3.05
Acenaphthene	96	<0.0050	<0.0050	<0.0050
Acenaphthylene	0.15	<0.0050	<0.0050	<0.0050
Anthracene	0.67	<0.0050	<0.0050	<0.0050
Benzo(a)anthracene	0.96	<0.0050	<0.0050	<0.0050
Benzo(a)pyrene	0.3	<0.0050	<0.0050	<0.0050
Benzo(b)fluoranthene	0.96	0.0081	0.0057	<0.0050
Benzo(ghi)perylene	9.6	<0.0050	<0.0050	0.0066
Benzo(k)fluoranthene	0.96	<0.0050	<0.0050	<0.0050
Chrysene	9.6	<0.0050	<0.0050	<0.0050
Dibenzo(a,h)anthracene	0.1	<0.0050	<0.0050	<0.0050
Fluoranthene	9.6	0.0059	0.010	<0.0050
Fluorene	62	<0.0050	<0.0050	<0.0050
Indeno(1,2,3-cd)pyrene	0.76	<0.0050	<0.0050	<0.0050
Methylnaphthalene 2-(1-)	76	<0.0071	<0.0071	<0.0071
Naphthalene	9.6	<0.0050	<0.0050	<0.0050
Phenanthrene	12	<0.0050	0.0077	<0.0050
Pyrene	96	0.0059	0.0089	<0.0050

Notes:

MECP Table 3 Standards*

BOLD
BOLD
Units
mbgs

Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 3 Standards, Coarse-Textured Soils, Non-Potable Groundwater Condition, for Industrial/Commercial/Community Property Use.

Exceeds Site Condition Standard
Reportable Detection Limit Exceeds Site Condition Standard
All Units in µg/g
Metres Below Ground Surface

TABLE 8
METALS ANALYSIS FOR SOIL

Virtue Acquisition Inc.

1995 Dundas Street East and 3040 & 3044 Universal Drive, Mississauga, Ontario

Parameter	MECP Table 3 Standards*	Sample Designation			
		Sample Collection Date (dd/mm/yyyy)			
		Sample Depth (mbgs)			
		MW1-1	BH3-2	BH4-1	BH5-4
		20/05/2022	20/05/2022	20/05/2022	20/05/2022
		0.15 - 0.76	1.22 - 2.44	0.15 - 0.76	2.29 - 3.05
Antimony	40	<0.20	<0.20	<0.20	<0.20
Arsenic	18	6.7	3.7	4	4.6
Barium	670	48	41	47	65
Beryllium	8	0.54	0.29	0.34	0.3
Boron (Total)	120	5.7	<5.0	<5.0	<5.0
Cadmium	1.9	0.17	<0.10	<0.10	<0.10
Chromium (Total)	160	16	10	12	14
Cobalt	80	9	5.7	6.6	6.5
Copper	230	22	41	34	45
Lead	120	20	5.8	10	8
Mercury	3.9	<0.050	<0.050	<0.050	<0.050
Molybdenum	40	0.58	<0.50	0.51	1.2
Nickel	270	19	13	15	15
Selenium	5.5	<0.50	<0.50	<0.50	<0.50
Silver	40	<0.20	<0.20	<0.20	<0.20
Thallium	3.3	0.14	0.057	0.077	0.066
Uranium	33	0.46	0.33	0.43	0.37
Vanadium	86	23	20	22	21
Zinc	340	71	34	38	40

Notes:

MECP Table 3 Standards*

Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 3 Standards, Coarse-Textured Soils, Non-Potable Groundwater Condition, for Industrial/Commercial/Community Property Use.

BOLD

BOLD

Units

mbgs

NA

Exceeds Site Condition Standard

Reportable Detection Limit Exceeds Site Condition Standard

All Units in µg/g

Metres Below Ground Surface

Not Applicable

TABLE 9
TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP) ANALYSIS FOR SOIL
Virtue Acquisition Inc.
1995 Dundas Street East and 3040 & 3044 Universal Drive, Mississauga, Ontario

Parameter	Schedule 4 ⁺⁺	Sample Designation
		Sample Collection Date (dd/mm/yyyy)
		TCLP
		20/05/2022
METALS		
Arsenic	2.5	<0.2
Barium	100	0.6
Boron	500	0.2
Cadmium	0.5	<0.05
Chromium	5	<0.1
Lead	5	<0.1
Mercury	0.1	<0.001
Selenium	1	<0.1
Silver	5	<0.01
Uranium	10	<0.01
VOLATILE ORGANIC COMPOUNDS		
Benzene	0.5	<0.020
Carbon Tetrachloride	0.5	<0.020
Chlorobenzene	8	<0.020
Chloroform	10	<0.020
1,2-Dichlorobenzene	20	<0.050
1,4-Dichlorobenzene	0.5	<0.050
1,2-Dichloroethane	0.5	<0.050
1,1-Dichloroethylene	1.4	<0.020
Dichloromethane	5	<0.20
Methyl Ethyl Ketone	200	<1.0
Tetrachloroethylene	3	<0.020
Trichloroethylene	5	<0.020
Vinyl Chloride	0.2	<0.020
INORGANICS		
Fluoride	150	0.22
Free Cyanide	20	<0.010
Nitrite and Nitrate	1000	<1.0
POLYCHLORINATED BIPHENYLS		
Total PCBs	0.3	<0.0030
SEMI-VOLATILE		
Benzo(a)pyrene	0.001	<0.00010

Notes:

Schedule 4⁺⁺ Ontario Regulation 347/90 - As Amended

BOLD
Units

Exceeds Schedule 4 Criteria
All Values Reported in Units of mg/L.

TABLE 10
PETROLEUM HYDROCARBON AND BTEX ANALYSIS FOR GROUNDWATER

Virtue Acquisition Inc.
1995 Dundas Street East and 3040 & 3044 Universal Drive, Mississauga, Ontario

<i>Parameter</i>	<i>MECP Table 3 Standards*</i>	<i>Sample Designation</i>			
		<i>Sample Collection Date (dd/mm/yyyy)</i>			
		<i>MW101</i>	<i>MW102</i>	<i>MW2</i>	<i>MW3</i>
		<i>25/05/2022</i>	<i>25/05/2022</i>	<i>09/06/2022</i>	<i>09/06/2022</i>
Benzene	44	<0.17	<0.17	<0.17	<0.17
Toluene	18000	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	2300	<0.20	<0.20	<0.20	<0.20
Xylenes (Total)	4200	<0.20	<0.20	<0.20	<0.20
Petroleum Hydrocarbons F1 (C ₆ - C ₁₀)	750	<25	<25	<25	<25
Petroleum Hydrocarbons F2 (>C ₁₀ - C ₁₆)	150	<100	<100	<100	<100
Petroleum Hydrocarbons F3 (>C ₁₆ - C ₃₄)	500	<200	<200	<200	<200
Petroleum Hydrocarbons F4 (>C ₃₄ - C ₅₀)	500	<200	<200	<200	<200

Notes:

MECP Table 3 Standards*

Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 3 Standards, Coarse-Textured Soils, Non-Potable Groundwater Condition, for All Types of Property Use.

BOLD
BOLD
Units
BTEX

Exceeds Site Condition Standard
Reportable Detection Limit Exceeds Site Condition Standard
All Units in µg/L
Benzene, Toluene, Ethylbenzene and Xylenes

TABLE 11
VOLATILE ORGANIC COMPOUND ANALYSIS FOR GROUNDWATER

Virtue Acquisition Inc.
1995 Dundas Street East and 3040 & 3044 Universal Drive, Mississauga, Ontario

Parameter	MECP Table 3 Standards*	Sample Designation			
		Sample Collection Date (dd/mm/yyyy)			
		MW101	MW102	MW2	MW3
		25/05/2022	25/05/2022	09/06/2022	09/06/2022
Acetone	130000	<10	<10	<10	<10
Benzene	44	<0.17	<0.17	<0.17	<0.17
Bromodichloromethane	85000	<0.50	<0.50	<0.50	<0.50
Bromoform	380	<1.0	<1.0	<1.0	<1.0
Bromomethane	5.6	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	0.79	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	630	<0.20	<0.20	<0.20	<0.20
Chloroform	2.4	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	82000	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	4600	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	9600	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	8	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	4400	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	320	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	1.6	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	1.6	<0.20	<0.20	<0.20	<0.20
cis-1,2-Dichloroethylene	1.6	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethylene	1.6	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	16	<0.20	<0.20	<0.20	<0.20
1,3-Dichloropropene (Total)	5.2	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	2300	<0.20	<0.20	<0.20	<0.20
Ethylene Dibromide	0.25	<0.20	<0.20	<0.20	<0.20
Hexane	51	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone	470000	<10	<10	<10	<10
Methyl Isobutyl Ketone	140000	<5.0	<5.0	<5.0	<5.0
Methyl t-Butyl Ether (MTBE)	190	<0.50	<0.50	<0.50	<0.50
Methylene Chloride	610	<2.0	<2.0	<2.0	<2.0
Styrene	1300	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	3.3	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	3.2	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	1.6	<0.20	<0.20	<0.20	<0.20
Toluene	18000	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	640	<0.20	<0.20	<0.20	<0.20
1,1,2-Trichloroethane	4.7	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	1.6	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane	2500	<0.50	<0.50	<0.50	<0.50
Vinyl Chloride	0.5	<0.20	<0.20	<0.20	<0.20
Xylenes (Total)	4200	<0.20	<0.20	<0.20	<0.20

Notes:

MECP Table 3 Standards*

BOLD
BOLD
Units

Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 3 Standards, Coarse-Textured Soils, Non-Potable Groundwater Condition, for All Types of Property Use.

Exceeds Site Condition Standard
Reportable Detection Limit Exceeds Site Condition Standard
All Units in µg/L

TABLE 12
POLYCYCLIC AROMATIC HYDROCARBON ANALYSIS FOR GROUNDWATER
Virtue Acquisition Inc.
1995 Dundas Street East and 3040 & 3044 Universal Drive, Mississauga, Ontario

<i>Parameter</i>	<i>MECP Table 3 Standards*</i>	<i>Sample Designation</i>	
		<i>Sample Collection Date (dd/mm/yyyy)</i>	
		<i>MW102</i>	<i>MW3</i>
		<i>25/05/2022</i>	<i>09/06/2022</i>
Acenaphthene	600	<0.050	<0.050
Acenaphthylene	1.8	<0.050	<0.050
Anthracene	2.4	<0.050	<0.050
Benzo(a)anthracene	4.7	<0.050	<0.050
Benzo(a)pyrene	0.81	<0.0090	<0.0090
Benzo(b)fluoranthene	0.75	<0.050	<0.050
Benzo(ghi)perylene	0.2	<0.050	<0.050
Benzo(k)fluoranthene	0.4	<0.050	<0.050
Chrysene	1	<0.050	<0.050
Dibenzo(a,h)anthracene	0.52	<0.050	<0.050
Fluoranthene	130	<0.050	<0.050
Fluorene	400	<0.050	<0.050
Indeno(1,2,3-cd)pyrene	0.2	<0.050	<0.050
Methylnaphthalene 2-(1-)	1800	<0.071	<0.071
Naphthalene	1400	<0.050	<0.050
Phenanthrene	580	<0.030	<0.030
Pyrene	68	<0.050	<0.050

Notes:

MECP Table 3 Standards*

BOLD
BOLD
Units

Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 3 Standards, Coarse-Textured Soils, Non-Potable Groundwater Condition, for All Types of Property

Exceeds Site Condition Standard
Reportable Detection Limit Exceeds Site Condition Standard
All Units in µg/L

TABLE 13
METALS ANALYSIS FOR GROUNDWATER

Virtue Acquisition Inc.

1995 Dundas Street East and 3040 & 3044 Universal Drive, Mississauga, Ontario

<i>Parameter</i>	<i>MECP Table 3 Standards*</i>	<i>Sample Designation</i>
		<i>Sample Collection Date (dd/mm/yyyy)</i>
		MW102
		25/05/2022
Antimony	20000	<0.50
Arsenic	1900	<1.0
Barium	29000	180
Beryllium	67	<0.40
Boron	45000	58
Cadmium	2.7	<0.090
Chromium (Total)	810	<5.0
Cobalt	66	<0.50
Copper	87	<0.90
Lead	25	<0.50
Molybdenum	9200	<0.50
Nickel	490	<1.0
Selenium	63	<2.0
Silver	1.5	<0.090
Sodium	2300000	660000
Thallium	510	<0.050
Uranium	420	2.5
Vanadium	250	<0.50
Zinc	1100	<5.0

Notes:

MECP Table 3 Standards*

Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 3 Standards, Coarse-Textured Soils, Non-Potable Groundwater Condition, for All Types of Property Use.

BOLD
BOLD
Units

Exceeds Site Condition Standard
Reportable Detection Limit Exceeds Site Condition Standard
All Units in µg/L

DRAFT

APPENDIX IV
Laboratory Certificates of Analysis



Your Project #: 309491
Your C.O.C. #: 880511-01-01

Attention: Lindsay Bell

Pinchin Ltd
2360 Meadowpine Blvd
Unit # 2
Mississauga, ON
CANADA L5N 6S2

Report Date: 2022/06/01
Report #: R7147636
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2E1222

Received: 2022/05/25, 13:53

Sample Matrix: Ground Water
Samples Received: 2

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Methylnaphthalene Sum	1	N/A	2022/06/01	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum	2	N/A	2022/05/30		EPA 8260C m
Petroleum Hydrocarbons F2-F4 in Water (1)	1	2022/05/28	2022/05/29	CAM SOP-00316	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	1	2022/05/29	2022/05/29	CAM SOP-00316	CCME PHC-CWS m
Dissolved Metals by ICPMS	1	N/A	2022/05/30	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM)	1	2022/05/29	2022/05/30	CAM SOP-00318	EPA 8270D m
Volatile Organic Compounds and F1 PHCs	2	N/A	2022/05/29	CAM SOP-00230	EPA 8260C 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) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003".



Your Project #: 309491
Your C.O.C. #: 880511-01-01

Attention: Lindsay Bell

Pinchin Ltd
2360 Meadowpine Blvd
Unit # 2
Mississauga, ON
CANADA L5N 6S2

Report Date: 2022/06/01
Report #: R7147636
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2E1222

Received: 2022/05/25, 13:53

Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

01 Jun 2022 16:48:52

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

Antonella Brasil, Senior Project Manager
Email: Antonella.Brasil@bureauveritas.com
Phone# (905)817-5817

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This report has been generated and distributed using a secure automated process.

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 #: C2E1222

Report Date: 2022/06/01

Pinchin Ltd

Client Project #: 309491

Sampler Initials: FP

O.REG 153 DISSOLVED ICPMS METALS (WATER)

Bureau Veritas ID		SSC582			
Sampling Date		2022/05/25 10:15			
COC Number		880511-01-01			
	UNITS	MW102	RDL	MDL	QC Batch
Metals					
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	0.50	8017429
Dissolved Arsenic (As)	ug/L	<1.0	1.0	1.0	8017429
Dissolved Barium (Ba)	ug/L	180	2.0	2.0	8017429
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	0.40	8017429
Dissolved Boron (B)	ug/L	58	10	10	8017429
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	0.090	8017429
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	5.0	8017429
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	0.50	8017429
Dissolved Copper (Cu)	ug/L	<0.90	0.90	0.90	8017429
Dissolved Lead (Pb)	ug/L	<0.50	0.50	0.50	8017429
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	0.50	8017429
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	1.0	8017429
Dissolved Selenium (Se)	ug/L	<2.0	2.0	2.0	8017429
Dissolved Silver (Ag)	ug/L	<0.090	0.090	0.090	8017429
Dissolved Sodium (Na)	ug/L	660000	500	500	8017429
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	0.050	8017429
Dissolved Uranium (U)	ug/L	2.5	0.10	0.10	8017429
Dissolved Vanadium (V)	ug/L	<0.50	0.50	0.50	8017429
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	5.0	8017429
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					

BUREAU
VERITAS

Bureau Veritas Job #: C2E1222

Report Date: 2022/06/01

Pinchin Ltd

Client Project #: 309491

Sampler Initials: FP

O.REG 153 PAHS (GROUND WATER)

Bureau Veritas ID		SSC582			
Sampling Date		2022/05/25 10:15			
COC Number		880511-01-01			
	UNITS	MW102	RDL	MDL	QC Batch
Calculated Parameters					
Methylnaphthalene, 2-(1-)	ug/L	<0.071	0.071	N/A	8012858
Polyaromatic Hydrocarbons					
Acenaphthene	ug/L	<0.050	0.050	0.0030	8021234
Acenaphthylene	ug/L	<0.050	0.050	0.0030	8021234
Anthracene	ug/L	<0.050	0.050	0.0030	8021234
Benzo(a)anthracene	ug/L	<0.050	0.050	0.0030	8021234
Benzo(a)pyrene	ug/L	<0.0090	0.0090	0.0030	8021234
Benzo(b/j)fluoranthene	ug/L	<0.050	0.050	0.0030	8021234
Benzo(g,h,i)perylene	ug/L	<0.050	0.050	0.0030	8021234
Benzo(k)fluoranthene	ug/L	<0.050	0.050	0.0030	8021234
Chrysene	ug/L	<0.050	0.050	0.0030	8021234
Dibenzo(a,h)anthracene	ug/L	<0.050	0.050	0.0030	8021234
Fluoranthene	ug/L	<0.050	0.050	0.0030	8021234
Fluorene	ug/L	<0.050	0.050	0.0030	8021234
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	0.050	0.0030	8021234
1-Methylnaphthalene	ug/L	<0.050	0.050	0.0030	8021234
2-Methylnaphthalene	ug/L	<0.050	0.050	0.0030	8021234
Naphthalene	ug/L	<0.050	0.050	0.0030	8021234
Phenanthrene	ug/L	<0.030	0.030	0.0030	8021234
Pyrene	ug/L	<0.050	0.050	0.0030	8021234
Surrogate Recovery (%)					
D10-Anthracene	%	68			8021234
D14-Terphenyl (FS)	%	78			8021234
D8-Acenaphthylene	%	89			8021234
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
N/A = Not Applicable					

BUREAU
VERITAS

Bureau Veritas Job #: C2E1222
Report Date: 2022/06/01

Pinchin Ltd
Client Project #: 309491
Sampler Initials: FP

O.REG 153 VOCs BY HS & F1-F4 (GROUND WATER)

Bureau Veritas ID		SSC581		SSC582			
Sampling Date		2022/05/25 10:55		2022/05/25 10:15			
COC Number		880511-01-01		880511-01-01			
	UNITS	MW101	QC Batch	MW102	RDL	MDL	QC Batch
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	8012859	<0.50	0.50	0.50	8012859
Volatile Organics							
Acetone (2-Propanone)	ug/L	<10	8015970	<10	10	1.0	8015970
Benzene	ug/L	<0.17	8015970	<0.17	0.17	0.020	8015970
Bromodichloromethane	ug/L	<0.50	8015970	<0.50	0.50	0.050	8015970
Bromoform	ug/L	<1.0	8015970	<1.0	1.0	0.10	8015970
Bromomethane	ug/L	<0.50	8015970	<0.50	0.50	0.10	8015970
Carbon Tetrachloride	ug/L	<0.20	8015970	<0.20	0.20	0.050	8015970
Chlorobenzene	ug/L	<0.20	8015970	<0.20	0.20	0.010	8015970
Chloroform	ug/L	<0.20	8015970	<0.20	0.20	0.050	8015970
Dibromochloromethane	ug/L	<0.50	8015970	<0.50	0.50	0.050	8015970
1,2-Dichlorobenzene	ug/L	<0.50	8015970	<0.50	0.50	0.050	8015970
1,3-Dichlorobenzene	ug/L	<0.50	8015970	<0.50	0.50	0.050	8015970
1,4-Dichlorobenzene	ug/L	<0.50	8015970	<0.50	0.50	0.050	8015970
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	8015970	<1.0	1.0	0.050	8015970
1,1-Dichloroethane	ug/L	<0.20	8015970	<0.20	0.20	0.050	8015970
1,2-Dichloroethane	ug/L	<0.50	8015970	<0.50	0.50	0.020	8015970
1,1-Dichloroethylene	ug/L	<0.20	8015970	<0.20	0.20	0.050	8015970
cis-1,2-Dichloroethylene	ug/L	<0.50	8015970	<0.50	0.50	0.050	8015970
trans-1,2-Dichloroethylene	ug/L	<0.50	8015970	<0.50	0.50	0.050	8015970
1,2-Dichloropropane	ug/L	<0.20	8015970	<0.20	0.20	0.050	8015970
cis-1,3-Dichloropropene	ug/L	<0.30	8015970	<0.30	0.30	0.050	8015970
trans-1,3-Dichloropropene	ug/L	<0.40	8015970	<0.40	0.40	0.050	8015970
Ethylbenzene	ug/L	<0.20	8015970	<0.20	0.20	0.010	8015970
Ethylene Dibromide	ug/L	<0.20	8015970	<0.20	0.20	0.050	8015970
Hexane	ug/L	<1.0	8015970	<1.0	1.0	0.10	8015970
Methylene Chloride(Dichloromethane)	ug/L	<2.0	8015970	<2.0	2.0	0.10	8015970
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	8015970	<10	10	0.50	8015970
Methyl Isobutyl Ketone	ug/L	<5.0	8015970	<5.0	5.0	0.10	8015970
Methyl t-butyl ether (MTBE)	ug/L	<0.50	8015970	<0.50	0.50	0.050	8015970
Styrene	ug/L	<0.50	8015970	<0.50	0.50	0.050	8015970
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							

BUREAU
VERITAS

Bureau Veritas Job #: C2E1222

Report Date: 2022/06/01

Pinchin Ltd

Client Project #: 309491

Sampler Initials: FP

O.REG 153 VOCs BY HS & F1-F4 (GROUND WATER)

Bureau Veritas ID		SSC581		SSC582			
Sampling Date		2022/05/25 10:55		2022/05/25 10:15			
COC Number		880511-01-01		880511-01-01			
	UNITS	MW101	QC Batch	MW102	RDL	MDL	QC Batch
1,1,1,2-Tetrachloroethane	ug/L	<0.50	8015970	<0.50	0.50	0.050	8015970
1,1,2,2-Tetrachloroethane	ug/L	<0.50	8015970	<0.50	0.50	0.050	8015970
Tetrachloroethylene	ug/L	<0.20	8015970	<0.20	0.20	0.050	8015970
Toluene	ug/L	<0.20	8015970	<0.20	0.20	0.010	8015970
1,1,1-Trichloroethane	ug/L	<0.20	8015970	<0.20	0.20	0.050	8015970
1,1,2-Trichloroethane	ug/L	<0.50	8015970	<0.50	0.50	0.050	8015970
Trichloroethylene	ug/L	<0.20	8015970	<0.20	0.20	0.050	8015970
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	8015970	<0.50	0.50	0.10	8015970
Vinyl Chloride	ug/L	<0.20	8015970	<0.20	0.20	0.050	8015970
p+m-Xylene	ug/L	<0.20	8015970	<0.20	0.20	0.010	8015970
o-Xylene	ug/L	<0.20	8015970	<0.20	0.20	0.010	8015970
Total Xylenes	ug/L	<0.20	8015970	<0.20	0.20	0.010	8015970
F1 (C6-C10)	ug/L	<25	8015970	<25	25	20	8015970
F1 (C6-C10) - BTEX	ug/L	<25	8015970	<25	25	20	8015970
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	8020629	<100	100	50	8021236
F3 (C16-C34 Hydrocarbons)	ug/L	<200	8020629	<200	200	70	8021236
F4 (C34-C50 Hydrocarbons)	ug/L	<200	8020629	<200	200	50	8021236
Reached Baseline at C50	ug/L	Yes	8020629	Yes			8021236
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	83	8015970	83			8015970
D4-1,2-Dichloroethane	%	112	8015970	111			8015970
D8-Toluene	%	95	8015970	96			8015970
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



BUREAU
VERITAS

Bureau Veritas Job #: C2E1222
Report Date: 2022/06/01

Pinchin Ltd
Client Project #: 309491
Sampler Initials: FP

TEST SUMMARY

Bureau Veritas ID: SSC581
Sample ID: MW101
Matrix: Ground Water

Collected: 2022/05/25
Shipped:
Received: 2022/05/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	8012859	N/A	2022/05/30	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8020629	2022/05/28	2022/05/29	Suleeqa Nurr
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8015970	N/A	2022/05/29	Xueming Jiang

Bureau Veritas ID: SSC582
Sample ID: MW102
Matrix: Ground Water

Collected: 2022/05/25
Shipped:
Received: 2022/05/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8012858	N/A	2022/06/01	Automated Statchk
1,3-Dichloropropene Sum	CALC	8012859	N/A	2022/05/30	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8021236	2022/05/29	2022/05/29	Suleeqa Nurr
Dissolved Metals by ICPMS	ICP/MS	8017429	N/A	2022/05/30	Daniel Teclu
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8021234	2022/05/29	2022/05/30	Joe Paino
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8015970	N/A	2022/05/29	Xueming Jiang



GENERAL COMMENTS

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

Package 1	5.3°C
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All 40 ml vials for F1BTX and VOC analyses contained visible sediment.

All 100 ml amber glass bottles for F2-F4 and PAH analyses contained visible sediment, which was included in the extraction.

All 120mL plastic bottle for dissolved metals analysis contained visible sediment.

Results relate only to the items tested.

BUREAU
VERITAS

Bureau Veritas Job #: C2E1222

Report Date: 2022/06/01

QUALITY ASSURANCE REPORT

Pinchin Ltd

Client Project #: 309491

Sampler Initials: FP

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8015970	4-Bromofluorobenzene	2022/05/29	91	70 - 130	92	70 - 130	85	%		
8015970	D4-1,2-Dichloroethane	2022/05/29	108	70 - 130	105	70 - 130	109	%		
8015970	D8-Toluene	2022/05/29	105	70 - 130	107	70 - 130	96	%		
8021234	D10-Anthracene	2022/05/30	92	50 - 130	102	50 - 130	93	%		
8021234	D14-Terphenyl (FS)	2022/05/30	79	50 - 130	97	50 - 130	89	%		
8021234	D8-Acenaphthylene	2022/05/30	88	50 - 130	93	50 - 130	93	%		
8015970	1,1,1,2-Tetrachloroethane	2022/05/29	99	70 - 130	97	70 - 130	<0.50	ug/L	NC	30
8015970	1,1,1-Trichloroethane	2022/05/29	99	70 - 130	98	70 - 130	<0.20	ug/L	NC	30
8015970	1,1,2,2-Tetrachloroethane	2022/05/29	103	70 - 130	97	70 - 130	<0.50	ug/L	NC	30
8015970	1,1,2-Trichloroethane	2022/05/29	111	70 - 130	106	70 - 130	<0.50	ug/L	NC	30
8015970	1,1-Dichloroethane	2022/05/29	100	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
8015970	1,1-Dichloroethylene	2022/05/29	102	70 - 130	100	70 - 130	<0.20	ug/L	NC	30
8015970	1,2-Dichlorobenzene	2022/05/29	98	70 - 130	96	70 - 130	<0.50	ug/L	NC	30
8015970	1,2-Dichloroethane	2022/05/29	98	70 - 130	93	70 - 130	<0.50	ug/L	NC	30
8015970	1,2-Dichloropropane	2022/05/29	98	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
8015970	1,3-Dichlorobenzene	2022/05/29	95	70 - 130	94	70 - 130	<0.50	ug/L	NC	30
8015970	1,4-Dichlorobenzene	2022/05/29	111	70 - 130	110	70 - 130	<0.50	ug/L	NC	30
8015970	Acetone (2-Propanone)	2022/05/29	104	60 - 140	96	60 - 140	<10	ug/L	NC	30
8015970	Benzene	2022/05/29	93	70 - 130	91	70 - 130	<0.17	ug/L	NC	30
8015970	Bromodichloromethane	2022/05/29	101	70 - 130	97	70 - 130	<0.50	ug/L	NC	30
8015970	Bromoform	2022/05/29	93	70 - 130	89	70 - 130	<1.0	ug/L	NC	30
8015970	Bromomethane	2022/05/29	103	60 - 140	101	60 - 140	<0.50	ug/L	NC	30
8015970	Carbon Tetrachloride	2022/05/29	96	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
8015970	Chlorobenzene	2022/05/29	96	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
8015970	Chloroform	2022/05/29	100	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
8015970	cis-1,2-Dichloroethylene	2022/05/29	98	70 - 130	95	70 - 130	<0.50	ug/L	12	30
8015970	cis-1,3-Dichloropropene	2022/05/29	82	70 - 130	79	70 - 130	<0.30	ug/L	NC	30
8015970	Dibromochloromethane	2022/05/29	97	70 - 130	93	70 - 130	<0.50	ug/L	NC	30
8015970	Dichlorodifluoromethane (FREON 12)	2022/05/29	93	60 - 140	92	60 - 140	<1.0	ug/L	NC	30
8015970	Ethylbenzene	2022/05/29	86	70 - 130	86	70 - 130	<0.20	ug/L	NC	30
8015970	Ethylene Dibromide	2022/05/29	97	70 - 130	93	70 - 130	<0.20	ug/L	NC	30

BUREAU
VERITAS

Bureau Veritas Job #: C2E1222

Report Date: 2022/06/01

QUALITY ASSURANCE REPORT(CONT'D)

Pinchin Ltd

Client Project #: 309491

Sampler Initials: FP

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8015970	F1 (C6-C10) - BTEX	2022/05/29					<25	ug/L	NC	30
8015970	F1 (C6-C10)	2022/05/29	93	60 - 140	96	60 - 140	<25	ug/L	NC	30
8015970	Hexane	2022/05/29	103	70 - 130	103	70 - 130	<1.0	ug/L	NC	30
8015970	Methyl Ethyl Ketone (2-Butanone)	2022/05/29	104	60 - 140	96	60 - 140	<10	ug/L	NC	30
8015970	Methyl Isobutyl Ketone	2022/05/29	86	70 - 130	81	70 - 130	<5.0	ug/L	NC	30
8015970	Methyl t-butyl ether (MTBE)	2022/05/29	82	70 - 130	80	70 - 130	<0.50	ug/L	NC	30
8015970	Methylene Chloride(Dichloromethane)	2022/05/29	109	70 - 130	105	70 - 130	<2.0	ug/L	NC	30
8015970	o-Xylene	2022/05/29	86	70 - 130	87	70 - 130	<0.20	ug/L	NC	30
8015970	p+m-Xylene	2022/05/29	88	70 - 130	88	70 - 130	<0.20	ug/L	NC	30
8015970	Styrene	2022/05/29	92	70 - 130	92	70 - 130	<0.50	ug/L	NC	30
8015970	Tetrachloroethylene	2022/05/29	96	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
8015970	Toluene	2022/05/29	91	70 - 130	91	70 - 130	<0.20	ug/L	NC	30
8015970	Total Xylenes	2022/05/29					<0.20	ug/L	NC	30
8015970	trans-1,2-Dichloroethylene	2022/05/29	102	70 - 130	100	70 - 130	<0.50	ug/L	NC	30
8015970	trans-1,3-Dichloropropene	2022/05/29	94	70 - 130	91	70 - 130	<0.40	ug/L	NC	30
8015970	Trichloroethylene	2022/05/29	98	70 - 130	97	70 - 130	<0.20	ug/L	8.9	30
8015970	Trichlorofluoromethane (FREON 11)	2022/05/29	104	70 - 130	103	70 - 130	<0.50	ug/L	NC	30
8015970	Vinyl Chloride	2022/05/29	104	70 - 130	102	70 - 130	<0.20	ug/L	NC	30
8017429	Dissolved Antimony (Sb)	2022/05/30	101	80 - 120	104	80 - 120	<0.50	ug/L	NC	20
8017429	Dissolved Arsenic (As)	2022/05/30	95	80 - 120	98	80 - 120	<1.0	ug/L	NC	20
8017429	Dissolved Barium (Ba)	2022/05/30	96	80 - 120	101	80 - 120	<2.0	ug/L	1.8	20
8017429	Dissolved Beryllium (Be)	2022/05/30	92	80 - 120	97	80 - 120	<0.40	ug/L	NC	20
8017429	Dissolved Boron (B)	2022/05/30	84	80 - 120	88	80 - 120	<10	ug/L	NC	20
8017429	Dissolved Cadmium (Cd)	2022/05/30	96	80 - 120	102	80 - 120	<0.090	ug/L	NC	20
8017429	Dissolved Chromium (Cr)	2022/05/30	92	80 - 120	95	80 - 120	<5.0	ug/L	NC	20
8017429	Dissolved Cobalt (Co)	2022/05/30	95	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
8017429	Dissolved Copper (Cu)	2022/05/30	90	80 - 120	96	80 - 120	<0.90	ug/L	3.5	20
8017429	Dissolved Lead (Pb)	2022/05/30	91	80 - 120	98	80 - 120	<0.50	ug/L	NC	20
8017429	Dissolved Molybdenum (Mo)	2022/05/30	97	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
8017429	Dissolved Nickel (Ni)	2022/05/30	90	80 - 120	95	80 - 120	<1.0	ug/L	NC	20
8017429	Dissolved Selenium (Se)	2022/05/30	97	80 - 120	101	80 - 120	<2.0	ug/L	NC	20



Bureau Veritas Job #: C2E1222
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QUALITY ASSURANCE REPORT(CONT'D)

Pinchin Ltd
Client Project #: 309491
Sampler Initials: FP

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8017429	Dissolved Silver (Ag)	2022/05/30	95	80 - 120	104	80 - 120	<0.090	ug/L	NC	20
8017429	Dissolved Sodium (Na)	2022/05/30	NC	80 - 120	101	80 - 120	<100	ug/L	0.55	20
8017429	Dissolved Thallium (Tl)	2022/05/30	96	80 - 120	103	80 - 120	<0.050	ug/L	NC	20
8017429	Dissolved Uranium (U)	2022/05/30	97	80 - 120	105	80 - 120	<0.10	ug/L	0.58	20
8017429	Dissolved Vanadium (V)	2022/05/30	95	80 - 120	97	80 - 120	<0.50	ug/L	NC	20
8017429	Dissolved Zinc (Zn)	2022/05/30	93	80 - 120	97	80 - 120	<5.0	ug/L	NC	20
8020629	F2 (C10-C16 Hydrocarbons)	2022/05/29	109	60 - 130	106	60 - 130	<100	ug/L	NC	30
8020629	F3 (C16-C34 Hydrocarbons)	2022/05/29	107	60 - 130	110	60 - 130	<200	ug/L	NC	30
8020629	F4 (C34-C50 Hydrocarbons)	2022/05/29	103	60 - 130	104	60 - 130	<200	ug/L	NC	30
8021234	1-Methylnaphthalene	2022/05/30	92	50 - 130	87	50 - 130	<0.050	ug/L	NC	30
8021234	2-Methylnaphthalene	2022/05/30	85	50 - 130	80	50 - 130	<0.050	ug/L	NC	30
8021234	Acenaphthene	2022/05/30	92	50 - 130	90	50 - 130	<0.050	ug/L	NC	30
8021234	Acenaphthylene	2022/05/30	86	50 - 130	84	50 - 130	<0.050	ug/L	NC	30
8021234	Anthracene	2022/05/30	91	50 - 130	94	50 - 130	<0.050	ug/L	NC	30
8021234	Benzo(a)anthracene	2022/05/30	97	50 - 130	104	50 - 130	<0.050	ug/L	NC	30
8021234	Benzo(a)pyrene	2022/05/30	81	50 - 130	85	50 - 130	<0.0090	ug/L	NC	30
8021234	Benzo(b/j)fluoranthene	2022/05/30	91	50 - 130	94	50 - 130	<0.050	ug/L	NC	30
8021234	Benzo(g,h,i)perylene	2022/05/30	89	50 - 130	92	50 - 130	<0.050	ug/L	NC	30
8021234	Benzo(k)fluoranthene	2022/05/30	88	50 - 130	93	50 - 130	<0.050	ug/L	NC	30
8021234	Chrysene	2022/05/30	95	50 - 130	96	50 - 130	<0.050	ug/L	NC	30
8021234	Dibenzo(a,h)anthracene	2022/05/30	77	50 - 130	85	50 - 130	<0.050	ug/L	NC	30
8021234	Fluoranthene	2022/05/30	100	50 - 130	102	50 - 130	<0.050	ug/L	NC	30
8021234	Fluorene	2022/05/30	89	50 - 130	89	50 - 130	<0.050	ug/L	NC	30
8021234	Indeno(1,2,3-cd)pyrene	2022/05/30	85	50 - 130	91	50 - 130	<0.050	ug/L	NC	30
8021234	Naphthalene	2022/05/30	77	50 - 130	73	50 - 130	<0.050	ug/L	NC	30
8021234	Phenanthrene	2022/05/30	92	50 - 130	93	50 - 130	<0.030	ug/L	NC	30
8021234	Pyrene	2022/05/30	97	50 - 130	100	50 - 130	<0.050	ug/L	NC	30
8021236	F2 (C10-C16 Hydrocarbons)	2022/05/29	105	60 - 130	104	60 - 130	<100	ug/L	NC	30
8021236	F3 (C16-C34 Hydrocarbons)	2022/05/29	103	60 - 130	105	60 - 130	<200	ug/L	NC	30

BUREAU
VERITAS

Bureau Veritas Job #: C2E1222

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QUALITY ASSURANCE REPORT(CONT'D)

Pinchin Ltd

Client Project #: 309491

Sampler Initials: FP

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8021236	F4 (C34-C50 Hydrocarbons)	2022/05/29	101	60 - 130	101	60 - 130	<200	ug/L	NC	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. Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency. NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration) 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 $\leq 2 \times$ RDL).										



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Bureau Veritas Job #: C2E1222
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Pinchin Ltd
Client Project #: 309491
Sampler Initials: FP

VALIDATION SIGNATURE PAGE

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

Cristina Carriere, Senior Scientific Specialist

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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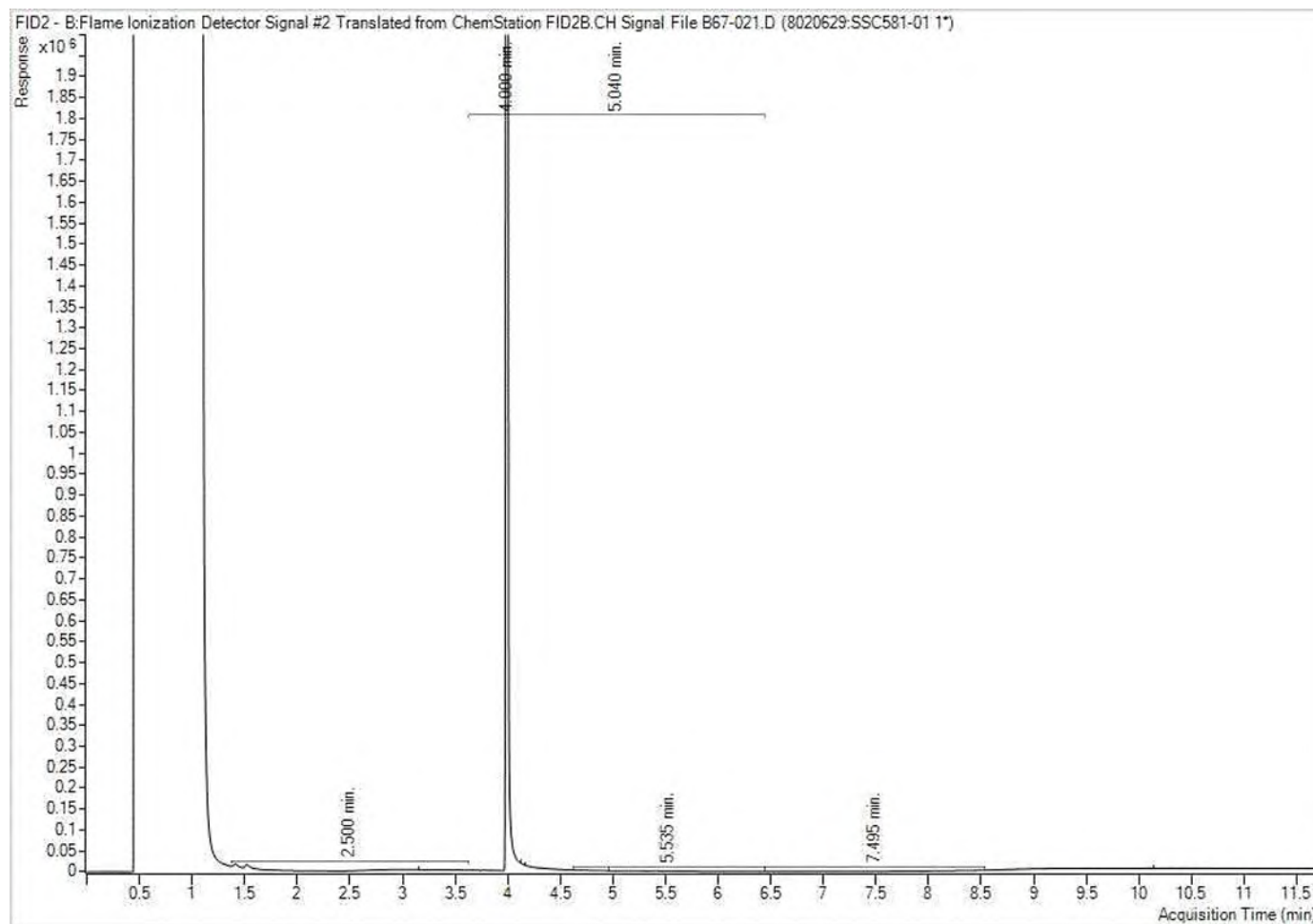
CHAIN OF CUSTODY RECORD

Page of

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:							
Company Name: #3103 Pinchin Ltd		Company Name: Lindsay Bell		Quotation #: C20345		Bureau Veritas Job #:							
Attention: Accounts Payable		Attention: Lindsay Bell		P.O. #:		Bottle Order #:							
Address: 2360 Meadowpine Blvd Unit # 2		Address:		Project: 309491		COC #:							
Mississauga ON L5N 6S2		Tel: (905) 363-0678 Ext: 1339 Fax:		Project Name:		Project Manager:							
Tel: (905) 363-0678 Fax: (905) 363-0681		Email: lbell@pinchin.com		Site #:		Antionella Brasil							
Email: ap@pinchin.com				Sampled By: T. Yin Popoola		C880511-01-01							
MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY				ANALYSIS REQUESTED (PLEASE BE SPECIFIC)									
Regulation 153 (2011)		Other Regulations		Special Instructions		Turnaround Time (TAT) Required:							
☐ Table 1 ☐ Res/Park ☐ Medium/Fine		☐ CCME ☐ Sanitary Sewer Bylaw				Please provide advance notice for rush projects							
☐ Table 2 ☒ Ind/Comm ☐ Coarse		☐ Reg 558 ☐ Storm Sewer Bylaw				Regular (Standard) TAT:							
☒ Table 3 ☐ Agri/Other ☐ For RSC		☐ MISA Municipality				(will be applied if Rush TAT is not specified):							
☐ Table		☐ PWQO ☐ Reg 406 Table				Standard TAT = 5-7 Working days for most tests.							
		☐ Other				Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.							
Include Criteria on Certificate of Analysis (Y/N)?						Job Specific Rush TAT (if applies to entire submission)							
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals/ Hg / Cr VI	O Reg 153 VOCs by HS & F1-F4	O Reg 153 PAHs	O Reg 153 Dissolved ICPMS Metals (Water)	Date Required:	Time Required:	Rush Confirmation Number:	# of Bottles	Comments
1	MW 101	22/05/25	10:55	GW	✓	✓						5	
2	MW 102	22/05/25	10:15	GW	✓	✓	✓	✓				6	
3													
4													
5													
6													
7													
8													
9													
10													
* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
e		22/05/25		AS DIPKASIN 54		22/05/25	13:53		Time Sensitive	Temperature (°C) on Receipt	Custody Seal	Yes	No
										7/3/6	Intact		
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS.										White: Bureau Veritas Yellow: Client			
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.										SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS			
** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.													

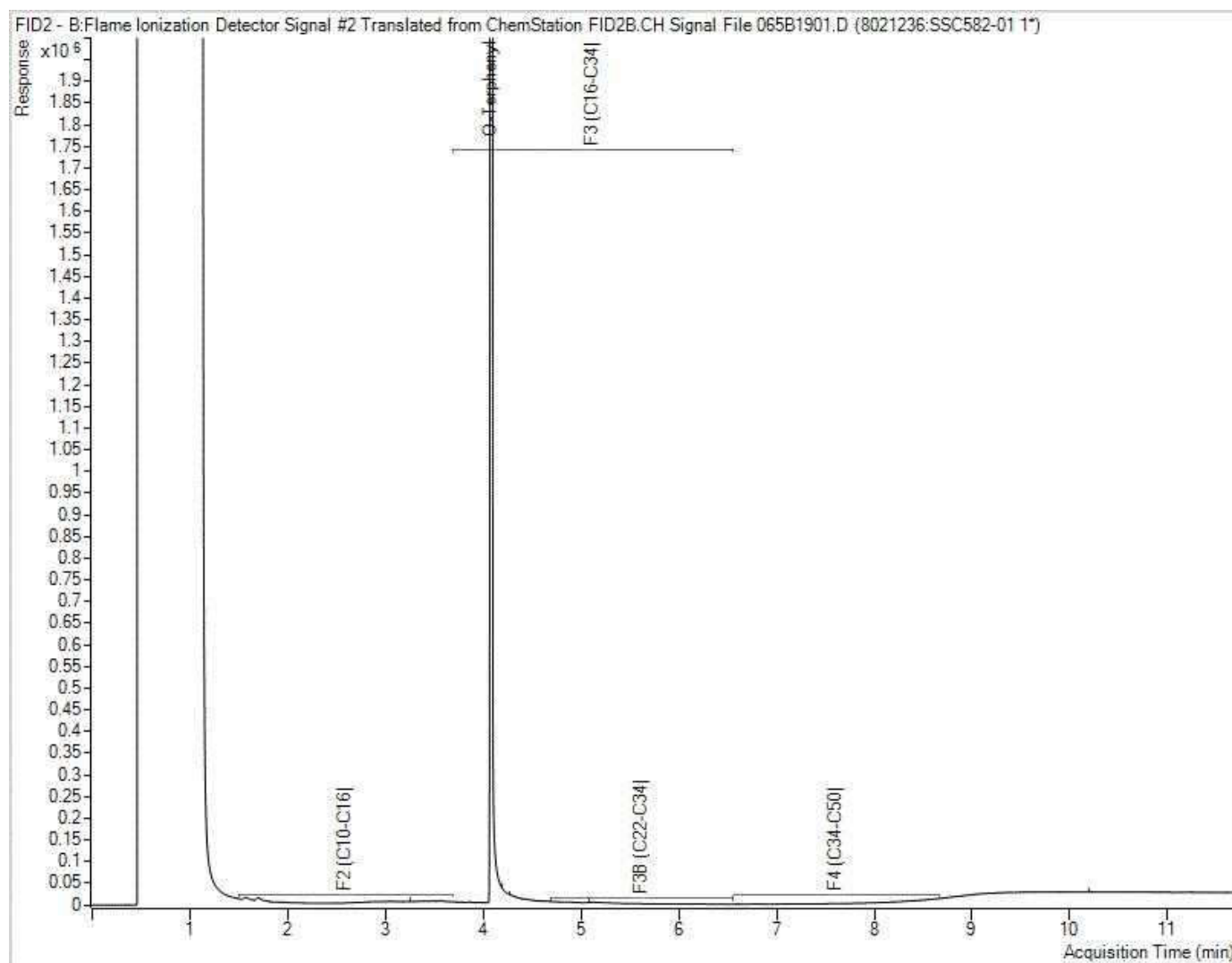
Bureau Veritas Canada (2019) Inc.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.



Your Project #: 309491
Your C.O.C. #: 882794-01-01

Attention: Lindsay Bell

Pinchin Ltd
2360 Meadowpine Blvd
Unit # 2
Mississauga, ON
CANADA L5N 6S2

Report Date: 2022/06/15
Report #: R7169580
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2F8918

Received: 2022/06/09, 17:27

Sample Matrix: Water
Samples Received: 2

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Methylnaphthalene Sum	1	N/A	2022/06/15	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum	2	N/A	2022/06/14		EPA 8260C m
Petroleum Hydrocarbons F2-F4 in Water (1)	1	2022/06/14	2022/06/14	CAM SOP-00316	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	1	2022/06/14	2022/06/15	CAM SOP-00316	CCME PHC-CWS m
PAH Compounds in Water by GC/MS (SIM)	1	2022/06/14	2022/06/14	CAM SOP-00318	EPA 8270D m
Volatile Organic Compounds and F1 PHCs	2	N/A	2022/06/14	CAM SOP-00230	EPA 8260C 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) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data



Your Project #: 309491
Your C.O.C. #: 882794-01-01

Attention: Lindsay Bell

Pinchin Ltd
2360 Meadowpine Blvd
Unit # 2
Mississauga, ON
CANADA L5N 6S2

Report Date: 2022/06/15
Report #: R7169580
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2F8918

Received: 2022/06/09, 17:27

reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

15 Jun 2022 16:45:12

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

Antonella Brasil, Senior Project Manager

Email: Antonella.Brasil@bureauveritas.com

Phone# (905)817-5817

=====

This report has been generated and distributed using a secure automated process.

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 #: C2F8918

Report Date: 2022/06/15

Pinchin Ltd

Client Project #: 309491

Sampler Initials: EC

O.REG 153 PAHS (WATER)

Bureau Veritas ID		SVY870			
Sampling Date		2022/06/09 14:25			
COC Number		882794-01-01			
	UNITS	MW 3	RDL	MDL	QC Batch

Calculated Parameters					
Methylnaphthalene, 2-(1-)	ug/L	<0.071	0.071	N/A	8044044
Polyaromatic Hydrocarbons					
Acenaphthene	ug/L	<0.050	0.050	0.0030	8050653
Acenaphthylene	ug/L	<0.050	0.050	0.0030	8050653
Anthracene	ug/L	<0.050	0.050	0.0030	8050653
Benzo(a)anthracene	ug/L	<0.050	0.050	0.0030	8050653
Benzo(a)pyrene	ug/L	<0.0090	0.0090	0.0030	8050653
Benzo(b/j)fluoranthene	ug/L	<0.050	0.050	0.0030	8050653
Benzo(g,h,i)perylene	ug/L	<0.050	0.050	0.0030	8050653
Benzo(k)fluoranthene	ug/L	<0.050	0.050	0.0030	8050653
Chrysene	ug/L	<0.050	0.050	0.0030	8050653
Dibenzo(a,h)anthracene	ug/L	<0.050	0.050	0.0030	8050653
Fluoranthene	ug/L	<0.050	0.050	0.0030	8050653
Fluorene	ug/L	<0.050	0.050	0.0030	8050653
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	0.050	0.0030	8050653
1-Methylnaphthalene	ug/L	<0.050	0.050	0.0030	8050653
2-Methylnaphthalene	ug/L	<0.050	0.050	0.0030	8050653
Naphthalene	ug/L	<0.050	0.050	0.0030	8050653
Phenanthrene	ug/L	<0.030	0.030	0.0030	8050653
Pyrene	ug/L	<0.050	0.050	0.0030	8050653
Surrogate Recovery (%)					
D10-Anthracene	%	97			8050653
D14-Terphenyl (FS)	%	62			8050653
D8-Acenaphthylene	%	93			8050653
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
N/A = Not Applicable					

BUREAU
VERITASBureau Veritas Job #: C2F8918
Report Date: 2022/06/15Pinchin Ltd
Client Project #: 309491
Sampler Initials: EC**O.REG 153 VOCS BY HS & F1-F4 (WATER)**

Bureau Veritas ID		SVY869		SVY870			
Sampling Date		2022/06/09 16:15		2022/06/09 14:25			
COC Number		882794-01-01		882794-01-01			
	UNITS	MW 2	QC Batch	MW 3	RDL	MDL	QC Batch
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	8044219	<0.50	0.50	0.50	8044219
Volatile Organics							
Acetone (2-Propanone)	ug/L	<10	8045349	<10	10	1.0	8045349
Benzene	ug/L	<0.17	8045349	<0.17	0.17	0.020	8045349
Bromodichloromethane	ug/L	<0.50	8045349	<0.50	0.50	0.050	8045349
Bromoform	ug/L	<1.0	8045349	<1.0	1.0	0.10	8045349
Bromomethane	ug/L	<0.50	8045349	<0.50	0.50	0.10	8045349
Carbon Tetrachloride	ug/L	<0.20	8045349	<0.20	0.20	0.050	8045349
Chlorobenzene	ug/L	<0.20	8045349	<0.20	0.20	0.010	8045349
Chloroform	ug/L	<0.20	8045349	<0.20	0.20	0.050	8045349
Dibromochloromethane	ug/L	<0.50	8045349	<0.50	0.50	0.050	8045349
1,2-Dichlorobenzene	ug/L	<0.50	8045349	<0.50	0.50	0.050	8045349
1,3-Dichlorobenzene	ug/L	<0.50	8045349	<0.50	0.50	0.050	8045349
1,4-Dichlorobenzene	ug/L	<0.50	8045349	<0.50	0.50	0.050	8045349
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	8045349	<1.0	1.0	0.050	8045349
1,1-Dichloroethane	ug/L	<0.20	8045349	<0.20	0.20	0.050	8045349
1,2-Dichloroethane	ug/L	<0.50	8045349	<0.50	0.50	0.020	8045349
1,1-Dichloroethylene	ug/L	<0.20	8045349	<0.20	0.20	0.050	8045349
cis-1,2-Dichloroethylene	ug/L	<0.50	8045349	<0.50	0.50	0.050	8045349
trans-1,2-Dichloroethylene	ug/L	<0.50	8045349	<0.50	0.50	0.050	8045349
1,2-Dichloropropane	ug/L	<0.20	8045349	<0.20	0.20	0.050	8045349
cis-1,3-Dichloropropene	ug/L	<0.30	8045349	<0.30	0.30	0.050	8045349
trans-1,3-Dichloropropene	ug/L	<0.40	8045349	<0.40	0.40	0.050	8045349
Ethylbenzene	ug/L	<0.20	8045349	<0.20	0.20	0.010	8045349
Ethylene Dibromide	ug/L	<0.20	8045349	<0.20	0.20	0.050	8045349
Hexane	ug/L	<1.0	8045349	<1.0	1.0	0.10	8045349
Methylene Chloride(Dichloromethane)	ug/L	<2.0	8045349	<2.0	2.0	0.10	8045349
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	8045349	<10	10	0.50	8045349
Methyl Isobutyl Ketone	ug/L	<5.0	8045349	<5.0	5.0	0.10	8045349
Methyl t-butyl ether (MTBE)	ug/L	<0.50	8045349	<0.50	0.50	0.050	8045349
Styrene	ug/L	<0.50	8045349	<0.50	0.50	0.050	8045349
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							

BUREAU
VERITAS

Bureau Veritas Job #: C2F8918

Report Date: 2022/06/15

Pinchin Ltd

Client Project #: 309491

Sampler Initials: EC

O.REG 153 VOCS BY HS & F1-F4 (WATER)

Bureau Veritas ID		SVY869		SVY870			
Sampling Date		2022/06/09 16:15		2022/06/09 14:25			
COC Number		882794-01-01		882794-01-01			
	UNITS	MW 2	QC Batch	MW 3	RDL	MDL	QC Batch
1,1,1,2-Tetrachloroethane	ug/L	<0.50	8045349	<0.50	0.50	0.050	8045349
1,1,2,2-Tetrachloroethane	ug/L	<0.50	8045349	<0.50	0.50	0.050	8045349
Tetrachloroethylene	ug/L	<0.20	8045349	<0.20	0.20	0.050	8045349
Toluene	ug/L	<0.20	8045349	<0.20	0.20	0.010	8045349
1,1,1-Trichloroethane	ug/L	<0.20	8045349	<0.20	0.20	0.050	8045349
1,1,2-Trichloroethane	ug/L	<0.50	8045349	<0.50	0.50	0.050	8045349
Trichloroethylene	ug/L	<0.20	8045349	<0.20	0.20	0.050	8045349
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	8045349	<0.50	0.50	0.10	8045349
Vinyl Chloride	ug/L	<0.20	8045349	<0.20	0.20	0.050	8045349
p+m-Xylene	ug/L	<0.20	8045349	<0.20	0.20	0.010	8045349
o-Xylene	ug/L	<0.20	8045349	<0.20	0.20	0.010	8045349
Total Xylenes	ug/L	<0.20	8045349	<0.20	0.20	0.010	8045349
F1 (C6-C10)	ug/L	<25	8045349	<25	25	20	8045349
F1 (C6-C10) - BTEX	ug/L	<25	8045349	<25	25	20	8045349
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	8051896	<100	100	50	8050667
F3 (C16-C34 Hydrocarbons)	ug/L	<200	8051896	<200	200	70	8050667
F4 (C34-C50 Hydrocarbons)	ug/L	<200	8051896	<200	200	50	8050667
Reached Baseline at C50	ug/L	Yes	8051896	Yes			8050667
Surrogate Recovery (%)							
o-Terphenyl	%	103	8051896	96			8050667
4-Bromofluorobenzene	%	92	8045349	92			8045349
D4-1,2-Dichloroethane	%	110	8045349	110			8045349
D8-Toluene	%	93	8045349	94			8045349
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



BUREAU
VERITAS

Bureau Veritas Job #: C2F8918
Report Date: 2022/06/15

Pinchin Ltd
Client Project #: 309491
Sampler Initials: EC

TEST SUMMARY

Bureau Veritas ID: SVY869
Sample ID: MW 2
Matrix: Water

Collected: 2022/06/09
Shipped:
Received: 2022/06/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	8044219	N/A	2022/06/14	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8051896	2022/06/14	2022/06/15	Austin (Guochen) Zhang
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8045349	N/A	2022/06/14	Ancheol Jeong

Bureau Veritas ID: SVY870
Sample ID: MW 3
Matrix: Water

Collected: 2022/06/09
Shipped:
Received: 2022/06/09

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8044044	N/A	2022/06/15	Automated Statchk
1,3-Dichloropropene Sum	CALC	8044219	N/A	2022/06/14	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8050667	2022/06/14	2022/06/14	Anna Stuglik-Rolland
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8050653	2022/06/14	2022/06/14	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8045349	N/A	2022/06/14	Ancheol Jeong



GENERAL COMMENTS

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

Package 1	2.0°C
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All 40 ml vials for F1BTEx and VOC analyses contained visible sediment.

All 100 ml amber glass bottles for F2-F4 and PAH analyses contained visible sediment, which was included in the extraction.

Results relate only to the items tested.



Bureau Veritas Job #: C2F8918
Report Date: 2022/06/15

QUALITY ASSURANCE REPORT

Pinchin Ltd
Client Project #: 309491
Sampler Initials: EC

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8045349	4-Bromofluorobenzene	2022/06/14	99	70 - 130	99	70 - 130	93	%		
8045349	D4-1,2-Dichloroethane	2022/06/14	102	70 - 130	98	70 - 130	98	%		
8045349	D8-Toluene	2022/06/14	105	70 - 130	108	70 - 130	96	%		
8050653	D10-Anthracene	2022/06/14	107	50 - 130	97	50 - 130	98	%		
8050653	D14-Terphenyl (FS)	2022/06/14	88	50 - 130	78	50 - 130	77	%		
8050653	D8-Acenaphthylene	2022/06/14	104	50 - 130	91	50 - 130	91	%		
8050667	o-Terphenyl	2022/06/14	97	60 - 130	97	60 - 130	95	%		
8051896	o-Terphenyl	2022/06/14	106	60 - 130	110	60 - 130	106	%		
8045349	1,1,1,2-Tetrachloroethane	2022/06/14	96	70 - 130	96	70 - 130	<0.50	ug/L	NC	30
8045349	1,1,1-Trichloroethane	2022/06/14	101	70 - 130	102	70 - 130	<0.20	ug/L	NC	30
8045349	1,1,2,2-Tetrachloroethane	2022/06/14	90	70 - 130	88	70 - 130	<0.50	ug/L	NC	30
8045349	1,1,2-Trichloroethane	2022/06/14	100	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
8045349	1,1-Dichloroethane	2022/06/14	94	70 - 130	93	70 - 130	<0.20	ug/L	NC	30
8045349	1,1-Dichloroethylene	2022/06/14	101	70 - 130	102	70 - 130	<0.20	ug/L	NC	30
8045349	1,2-Dichlorobenzene	2022/06/14	99	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
8045349	1,2-Dichloroethane	2022/06/14	95	70 - 130	93	70 - 130	<0.50	ug/L	NC	30
8045349	1,2-Dichloropropane	2022/06/14	96	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
8045349	1,3-Dichlorobenzene	2022/06/14	99	70 - 130	102	70 - 130	<0.50	ug/L	NC	30
8045349	1,4-Dichlorobenzene	2022/06/14	115	70 - 130	118	70 - 130	<0.50	ug/L	NC	30
8045349	Acetone (2-Propanone)	2022/06/14	106	60 - 140	101	60 - 140	<10	ug/L	4.0	30
8045349	Benzene	2022/06/14	94	70 - 130	94	70 - 130	<0.17	ug/L	NC	30
8045349	Bromodichloromethane	2022/06/14	99	70 - 130	99	70 - 130	<0.50	ug/L	NC	30
8045349	Bromoform	2022/06/14	93	70 - 130	92	70 - 130	<1.0	ug/L	NC	30
8045349	Bromomethane	2022/06/14	86	60 - 140	90	60 - 140	<0.50	ug/L	NC	30
8045349	Carbon Tetrachloride	2022/06/14	94	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
8045349	Chlorobenzene	2022/06/14	99	70 - 130	100	70 - 130	<0.20	ug/L	NC	30
8045349	Chloroform	2022/06/14	96	70 - 130	97	70 - 130	<0.20	ug/L	1.6	30
8045349	cis-1,2-Dichloroethylene	2022/06/14	99	70 - 130	99	70 - 130	<0.50	ug/L	NC	30
8045349	cis-1,3-Dichloropropene	2022/06/14	92	70 - 130	94	70 - 130	<0.30	ug/L	NC	30
8045349	Dibromochloromethane	2022/06/14	92	70 - 130	93	70 - 130	<0.50	ug/L	NC	30
8045349	Dichlorodifluoromethane (FREON 12)	2022/06/14	89	60 - 140	92	60 - 140	<1.0	ug/L	NC	30

BUREAU
VERITAS

Bureau Veritas Job #: C2F8918

Report Date: 2022/06/15

QUALITY ASSURANCE REPORT(CONT'D)

Pinchin Ltd

Client Project #: 309491

Sampler Initials: EC

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8045349	Ethylbenzene	2022/06/14	95	70 - 130	98	70 - 130	<0.20	ug/L	NC	30
8045349	Ethylene Dibromide	2022/06/14	93	70 - 130	93	70 - 130	<0.20	ug/L	NC	30
8045349	F1 (C6-C10) - BTEX	2022/06/14					<25	ug/L	NC	30
8045349	F1 (C6-C10)	2022/06/14	93	60 - 140	86	60 - 140	<25	ug/L	NC	30
8045349	Hexane	2022/06/14	103	70 - 130	105	70 - 130	<1.0	ug/L	NC	30
8045349	Methyl Ethyl Ketone (2-Butanone)	2022/06/14	110	60 - 140	105	60 - 140	<10	ug/L	NC	30
8045349	Methyl Isobutyl Ketone	2022/06/14	102	70 - 130	99	70 - 130	<5.0	ug/L	NC	30
8045349	Methyl t-butyl ether (MTBE)	2022/06/14	95	70 - 130	94	70 - 130	<0.50	ug/L	NC	30
8045349	Methylene Chloride(Dichloromethane)	2022/06/14	111	70 - 130	110	70 - 130	<2.0	ug/L	NC	30
8045349	o-Xylene	2022/06/14	96	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
8045349	p+m-Xylene	2022/06/14	97	70 - 130	100	70 - 130	<0.20	ug/L	NC	30
8045349	Styrene	2022/06/14	102	70 - 130	106	70 - 130	<0.50	ug/L	NC	30
8045349	Tetrachloroethylene	2022/06/14	88	70 - 130	91	70 - 130	<0.20	ug/L	NC	30
8045349	Toluene	2022/06/14	95	70 - 130	98	70 - 130	<0.20	ug/L	NC	30
8045349	Total Xylenes	2022/06/14					<0.20	ug/L	NC	30
8045349	trans-1,2-Dichloroethylene	2022/06/14	99	70 - 130	99	70 - 130	<0.50	ug/L	NC	30
8045349	trans-1,3-Dichloropropene	2022/06/14	100	70 - 130	104	70 - 130	<0.40	ug/L	NC	30
8045349	Trichloroethylene	2022/06/14	100	70 - 130	101	70 - 130	<0.20	ug/L	NC	30
8045349	Trichlorofluoromethane (FREON 11)	2022/06/14	92	70 - 130	93	70 - 130	<0.50	ug/L	NC	30
8045349	Vinyl Chloride	2022/06/14	84	70 - 130	86	70 - 130	<0.20	ug/L	NC	30
8050653	1-Methylnaphthalene	2022/06/14	84	50 - 130	81	50 - 130	<0.050	ug/L	NC	30
8050653	2-Methylnaphthalene	2022/06/14	83	50 - 130	78	50 - 130	<0.050	ug/L	NC	30
8050653	Acenaphthene	2022/06/14	99	50 - 130	93	50 - 130	<0.050	ug/L	NC	30
8050653	Acenaphthylene	2022/06/14	100	50 - 130	94	50 - 130	<0.050	ug/L	NC	30
8050653	Anthracene	2022/06/14	105	50 - 130	98	50 - 130	<0.050	ug/L	NC	30
8050653	Benzo(a)anthracene	2022/06/14	109	50 - 130	100	50 - 130	<0.050	ug/L	NC	30
8050653	Benzo(a)pyrene	2022/06/14	93	50 - 130	87	50 - 130	<0.0090	ug/L	NC	30
8050653	Benzo(b,j)fluoranthene	2022/06/14	96	50 - 130	90	50 - 130	<0.050	ug/L	NC	30
8050653	Benzo(g,h,i)perylene	2022/06/14	98	50 - 130	93	50 - 130	<0.050	ug/L	NC	30
8050653	Benzo(k)fluoranthene	2022/06/14	102	50 - 130	99	50 - 130	<0.050	ug/L	NC	30
8050653	Chrysene	2022/06/14	105	50 - 130	99	50 - 130	<0.050	ug/L	NC	30

BUREAU
VERITAS

Bureau Veritas Job #: C2F8918

Report Date: 2022/06/15

QUALITY ASSURANCE REPORT(CONT'D)

Pinchin Ltd

Client Project #: 309491

Sampler Initials: EC

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8050653	Dibenzo(a,h)anthracene	2022/06/14	101	50 - 130	95	50 - 130	<0.050	ug/L	NC	30
8050653	Fluoranthene	2022/06/14	98	50 - 130	91	50 - 130	<0.050	ug/L	NC	30
8050653	Fluorene	2022/06/14	98	50 - 130	90	50 - 130	<0.050	ug/L	NC	30
8050653	Indeno(1,2,3-cd)pyrene	2022/06/14	95	50 - 130	90	50 - 130	<0.050	ug/L	NC	30
8050653	Naphthalene	2022/06/14	97	50 - 130	77	50 - 130	<0.050	ug/L	20	30
8050653	Phenanthrene	2022/06/14	103	50 - 130	96	50 - 130	<0.030	ug/L	NC	30
8050653	Pyrene	2022/06/14	98	50 - 130	91	50 - 130	<0.050	ug/L	NC	30
8050667	F2 (C10-C16 Hydrocarbons)	2022/06/14	100	60 - 130	102	60 - 130	<100	ug/L	NC	30
8050667	F3 (C16-C34 Hydrocarbons)	2022/06/14	100	60 - 130	102	60 - 130	<200	ug/L	NC	30
8050667	F4 (C34-C50 Hydrocarbons)	2022/06/14	101	60 - 130	102	60 - 130	<200	ug/L	NC	30
8051896	F2 (C10-C16 Hydrocarbons)	2022/06/14	NC	60 - 130	115	60 - 130	<100	ug/L	0.70	30
8051896	F3 (C16-C34 Hydrocarbons)	2022/06/14	NC	60 - 130	115	60 - 130	<200	ug/L	2.9	30
8051896	F4 (C34-C50 Hydrocarbons)	2022/06/14	106	60 - 130	114	60 - 130	<200	ug/L	NC	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.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

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 $\leq 2 \times \text{RDL}$).



BUREAU
VERITAS

Bureau Veritas Job #: C2F8918
Report Date: 2022/06/15

Pinchin Ltd
Client Project #: 309491
Sampler Initials: EC

VALIDATION SIGNATURE PAGE

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

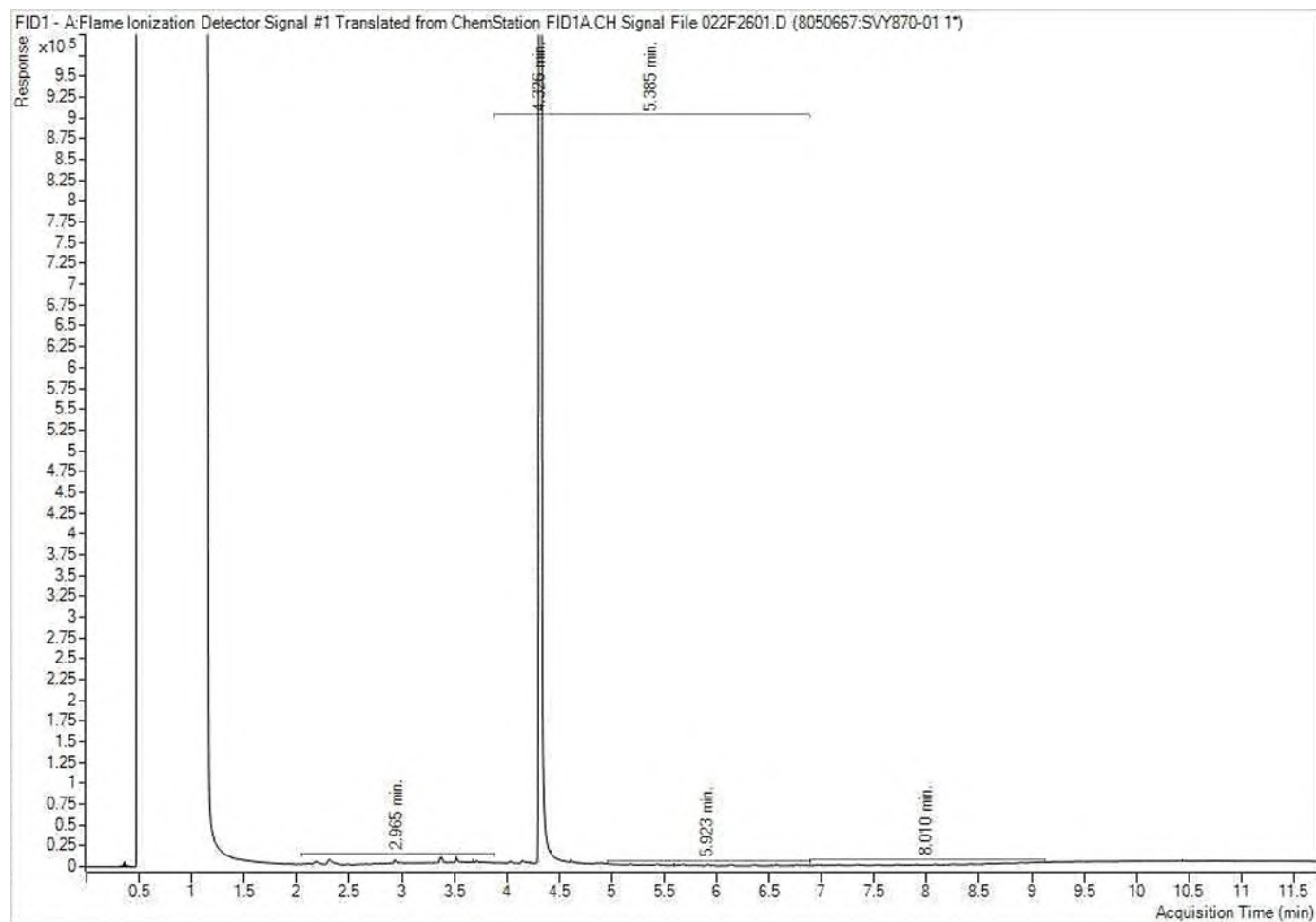
Eva Pranjic


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

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.

INVOICE TO:			REPORT TO:			PROJECT INFORMATION:			Laboratory Use Only:		
Company Name: #3103 Pinchin Ltd			Company Name: Lindsay Bell			Quotation #: C20345			Bureau Veritas Job #:		Bottle Order #:
Attention: Accounts Payable			Attention: Lindsay Bell			P.O. #:					
Address: 2360 Meadowpine Blvd Unit # 2			Address:			Project: 309491					882794
Mississauga ON L5N 6S2						Project Name:			COC #:		Project Manager:
Tel: (905) 363-0678 Fax: (905) 363-0681			Tel: (905) 363-0678 Ext: 1339 Fax:			Site #:					Antonella Brasil
ap@pinchin.com			Email: lbell@pinchin.com			Sampled By: Edward Chen			C882794-01-01		
MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY											
Regulation 153 (2011)			Other Regulations			Special Instructions			ANALYSIS REQUESTED (PLEASE BE SPECIFIC)		
☐ Table 1 ☐ Reg 1 Park ☐ Medium/Fine			☐ CCME ☐ Sanitary Sewer Bylaw			Field Filtered (please circle): Metals / Hg / Cr / V O Reg 153 VOCs by HS & F1-F4 O Reg 153 Dissolved CPMS Metals (Water) O Reg 153 VOCs by HS and PHC in Water O Reg 153 VOCs by HS & F1-F4 in Water O Reg 153 PAHs			Turnaround Time (TAT) Required: Please provide advance notice for rush projects		
☐ Table 2 ☒ Ind/Comm ☐ Coarse			☐ Reg 558 ☐ Storm Sewer Bylaw						Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests.		
☒ Table 3 ☐ Agri/Other ☐ Far RSC			☐ MISA Municipality						Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.		
☐ Table			☐ PWQO ☐ Reg 406 Table						Job Specific Rush TAT (if applies to entire submission) Date Required: Time Required:		
Include Criteria on Certificate of Analysis (Y/N)?									Rush Confirmation Number: (call lab for #)		
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix						# of Bottles	Comments
1	MW2	June 9 2022	4:15 PM	GW	NA	✓	✓	✓		5	
2	MW3	June 9 2022	2:05 PM	GW	NA	✓	✓	✓	✓	5	
3											
4											
5											
6											
7											
8											
9											
10											
* RELINQUISHED BY: (Signature/Print)			Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)			Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only
Edward Chen			22/06/09	9:00	DSC 2022/06/09			2022/06/17	27		Time Sensitive
											Temperature (°C) on Recl
											Custody Seal Present
											Intact
											Yes
											No
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS.											
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.											
** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.											
White: Bureau Veritas Yellow: Client											

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.



Your Project #: 309491
Your C.O.C. #: 879769-01-01

Attention: Lindsay Bell

Pinchin Ltd
2360 Meadowpine Blvd
Unit # 2
Mississauga, ON
CANADA L5N 6S2

Report Date: 2022/06/24
Report #: R7183891
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C2D8419

Received: 2022/05/20, 18:50

Sample Matrix: Soil
Samples Received: 12

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Methylnaphthalene Sum	2	N/A	2022/05/27	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum	5	N/A	2022/05/25		EPA 8260C m
Petroleum Hydro. CCME F1 & BTEX in Soil (1)	3	N/A	2022/05/26	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (2)	5	2022/05/26	2022/05/26	CAM SOP-00316	CCME CWS m
F4G (CCME Hydrocarbons Gravimetric)	1	2022/05/30	2022/05/30	CAM SOP-00316	CCME PHC-CWS m
Acid Extractable Metals by ICPMS	4	2022/05/26	2022/05/31	CAM SOP-00447	EPA 6020B m
Moisture	8	N/A	2022/05/21	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM)	2	2022/05/26	2022/05/27	CAM SOP-00318	EPA 8270D m
pH CaCl2 EXTRACT	2	2022/05/27	2022/05/27	CAM SOP-00413	EPA 9045 D m
Sieve, 75um	2	N/A	2022/05/26	CAM SOP-00467	ASTM D1140 -17 m
Volatile Organic Compounds and F1 PHCs	2	N/A	2022/05/24	CAM SOP-00230	EPA 8260C m
Volatile Organic Compounds in Soil	3	N/A	2022/05/24	CAM SOP-00228	EPA 8260C 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.



Your Project #: 309491
Your C.O.C. #: 879769-01-01

Attention: Lindsay Bell

Pinchin Ltd
2360 Meadowpine Blvd
Unit # 2
Mississauga, ON
CANADA L5N 6S2

Report Date: 2022/06/24
Report #: R7183891
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C2D8419

Received: 2022/05/20, 18:50

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) No lab extraction date is given for F1BTEX & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.

(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Antonella Brasil
Senior Project Manager
24 Jun 2022 07:41:47

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

Antonella Brasil, Senior Project Manager
Email: Antonella.Brasil@bureauveritas.com
Phone# (905)817-5817

=====

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 #: C2D8419
Report Date: 2022/06/24

Pinchin Ltd
Client Project #: 309491
Sampler Initials: RM

O.REG 153 ICPMS METALS (SOIL)

Bureau Veritas ID		SRL884	SRL889	SRL891	SRL894			
Sampling Date		2022/05/20 10:00	2022/05/20 12:10	2022/05/20 15:30	2022/05/20			
COC Number		879769-01-01	879769-01-01	879769-01-01	879769-01-01			
	UNITS	MW1-1	BH3-2	BH4-1	BH5-4	RDL	MDL	QC Batch
Metals								
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	<0.20	<0.20	0.20	0.10	8015896
Acid Extractable Arsenic (As)	ug/g	6.7	3.7	4.0	4.6	1.0	0.10	8015896
Acid Extractable Barium (Ba)	ug/g	48	41	47	65	0.50	0.30	8015896
Acid Extractable Beryllium (Be)	ug/g	0.54	0.29	0.34	0.30	0.20	0.020	8015896
Acid Extractable Boron (B)	ug/g	5.7	<5.0	<5.0	<5.0	5.0	1.0	8015896
Acid Extractable Cadmium (Cd)	ug/g	0.17	<0.10	<0.10	<0.10	0.10	0.030	8015896
Acid Extractable Chromium (Cr)	ug/g	16	10	12	14	1.0	0.20	8015896
Acid Extractable Cobalt (Co)	ug/g	9.0	5.7	6.6	6.5	0.10	0.020	8015896
Acid Extractable Copper (Cu)	ug/g	22	41	34	45	0.50	0.20	8015896
Acid Extractable Lead (Pb)	ug/g	20	5.8	10	8.0	1.0	0.10	8015896
Acid Extractable Molybdenum (Mo)	ug/g	0.58	<0.50	0.51	1.2	0.50	0.10	8015896
Acid Extractable Nickel (Ni)	ug/g	19	13	15	15	0.50	0.20	8015896
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	<0.50	<0.50	0.50	0.10	8015896
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	<0.20	0.20	0.040	8015896
Acid Extractable Thallium (Tl)	ug/g	0.14	0.057	0.077	0.066	0.050	0.010	8015896
Acid Extractable Uranium (U)	ug/g	0.46	0.33	0.43	0.37	0.050	0.030	8015896
Acid Extractable Vanadium (V)	ug/g	23	20	22	21	5.0	0.50	8015896
Acid Extractable Zinc (Zn)	ug/g	71	34	38	40	5.0	0.50	8015896
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	<0.050	<0.050	0.050	0.030	8015896
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								

BUREAU
VERITAS

Bureau Veritas Job #: C2D8419
Report Date: 2022/06/24

Pinchin Ltd
Client Project #: 309491
Sampler Initials: RM

O.REG 153 PAHS (SOIL)

Bureau Veritas ID		SRL890	SRL894			
Sampling Date		2022/05/20 12:30	2022/05/20			
COC Number		879769-01-01	879769-01-01			
	UNITS	BH3-3	BH5-4	RDL	MDL	QC Batch
Calculated Parameters						
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	<0.0071	0.0071	N/A	8009224
Polyaromatic Hydrocarbons						
Acenaphthene	ug/g	<0.0050	<0.0050	0.0050	0.0020	8016781
Acenaphthylene	ug/g	<0.0050	<0.0050	0.0050	0.0010	8016781
Anthracene	ug/g	<0.0050	<0.0050	0.0050	0.0010	8016781
Benzo(a)anthracene	ug/g	<0.0050	<0.0050	0.0050	0.0020	8016781
Benzo(a)pyrene	ug/g	<0.0050	<0.0050	0.0050	0.0010	8016781
Benzo(b/j)fluoranthene	ug/g	0.0057	<0.0050	0.0050	0.0020	8016781
Benzo(g,h,i)perylene	ug/g	<0.0050	0.0066	0.0050	0.0040	8016781
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	0.0050	0.0020	8016781
Chrysene	ug/g	<0.0050	<0.0050	0.0050	0.0020	8016781
Dibenzo(a,h)anthracene	ug/g	<0.0050	<0.0050	0.0050	0.0040	8016781
Fluoranthene	ug/g	0.010	<0.0050	0.0050	0.0010	8016781
Fluorene	ug/g	<0.0050	<0.0050	0.0050	0.0010	8016781
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	<0.0050	0.0050	0.0040	8016781
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	0.0050	0.0010	8016781
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	0.0050	0.0010	8016781
Naphthalene	ug/g	<0.0050	<0.0050	0.0050	0.0010	8016781
Phenanthrene	ug/g	0.0077	<0.0050	0.0050	0.0010	8016781
Pyrene	ug/g	0.0089	<0.0050	0.0050	0.0010	8016781
Surrogate Recovery (%)						
D10-Anthracene	%	113	107			8016781
D14-Terphenyl (FS)	%	93	91			8016781
D8-Acenaphthylene	%	66	74			8016781
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						
N/A = Not Applicable						

BUREAU
VERITAS

Bureau Veritas Job #: C2D8419
Report Date: 2022/06/24

Pinchin Ltd
Client Project #: 309491
Sampler Initials: RM

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		SRL884	SRL891	SRL894			
Sampling Date		2022/05/20 10:00	2022/05/20 15:30	2022/05/20			
COC Number		879769-01-01	879769-01-01	879769-01-01			
	UNITS	MW1-1	BH4-1	BH5-4	RDL	MDL	QC Batch
Inorganics							
Moisture	%	15	5.7	6.2	1.0	0.50	8009639
BTEX & F1 Hydrocarbons							
Benzene	ug/g	<0.020	<0.020	<0.020	0.020	0.020	8015902
Toluene	ug/g	<0.020	<0.020	<0.020	0.020	0.020	8015902
Ethylbenzene	ug/g	<0.020	<0.020	<0.020	0.020	0.020	8015902
o-Xylene	ug/g	<0.020	<0.020	<0.020	0.020	0.020	8015902
p+m-Xylene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8015902
Total Xylenes	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8015902
F1 (C6-C10)	ug/g	<10	<10	<10	10	5.0	8015902
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	10	5.0	8015902
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	<10	10	5.0	8016333
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	98	50	5.0	8016333
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	310	50	10	8016333
Reached Baseline at C50	ug/g	Yes	Yes	No			8016333
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	104	100	102			8015902
4-Bromofluorobenzene	%	99	100	100			8015902
D10-o-Xylene	%	100	93	91			8015902
D4-1,2-Dichloroethane	%	94	97	95			8015902
o-Terphenyl	%	93	96	94			8016333
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							



Bureau Veritas Job #: C2D8419
Report Date: 2022/06/24

Pinchin Ltd
Client Project #: 309491
Sampler Initials: RM

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SRL888	SRL890			
Sampling Date		2022/05/20 11:45	2022/05/20 12:30			
COC Number		879769-01-01	879769-01-01			
	UNITS	MW2-7	BH3-3	RDL	MDL	QC Batch
Inorganics						
Moisture	%	10	5.5	1.0	0.50	8009639
Calculated Parameters						
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	0.050	0.010	8009230
Volatile Organics						
Acetone (2-Propanone)	ug/g	<0.49	<0.49	0.49	0.49	8009871
Benzene	ug/g	<0.0060	<0.0060	0.0060	0.0060	8009871
Bromodichloromethane	ug/g	<0.040	<0.040	0.040	0.040	8009871
Bromoform	ug/g	<0.040	<0.040	0.040	0.040	8009871
Bromomethane	ug/g	<0.040	<0.040	0.040	0.040	8009871
Carbon Tetrachloride	ug/g	<0.040	<0.040	0.040	0.040	8009871
Chlorobenzene	ug/g	<0.040	<0.040	0.040	0.040	8009871
Chloroform	ug/g	<0.040	<0.040	0.040	0.040	8009871
Dibromochloromethane	ug/g	<0.040	<0.040	0.040	0.040	8009871
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	0.040	8009871
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	0.040	8009871
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	0.040	8009871
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	0.040	0.040	8009871
1,1-Dichloroethane	ug/g	<0.040	<0.040	0.040	0.040	8009871
1,2-Dichloroethane	ug/g	<0.049	<0.049	0.049	0.049	8009871
1,1-Dichloroethylene	ug/g	<0.040	<0.040	0.040	0.040	8009871
cis-1,2-Dichloroethylene	ug/g	<0.040	<0.040	0.040	0.040	8009871
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	0.040	0.040	8009871
1,2-Dichloropropane	ug/g	<0.040	<0.040	0.040	0.040	8009871
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	0.030	0.030	8009871
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	0.040	0.040	8009871
Ethylbenzene	ug/g	<0.010	<0.010	0.010	0.010	8009871
Ethylene Dibromide	ug/g	<0.040	<0.040	0.040	0.040	8009871
Hexane	ug/g	<0.040	<0.040	0.040	0.040	8009871
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	0.049	0.049	8009871
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	0.40	0.40	8009871
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	0.40	0.40	8009871
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						

BUREAU
VERITAS

Bureau Veritas Job #: C2D8419
Report Date: 2022/06/24

Pinchin Ltd
Client Project #: 309491
Sampler Initials: RM

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SRL888	SRL890			
Sampling Date		2022/05/20 11:45	2022/05/20 12:30			
COC Number		879769-01-01	879769-01-01			
	UNITS	MW2-7	BH3-3	RDL	MDL	QC Batch
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	0.040	0.040	8009871
Styrene	ug/g	<0.040	<0.040	0.040	0.040	8009871
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	0.040	0.040	8009871
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	0.040	0.040	8009871
Tetrachloroethylene	ug/g	<0.040	<0.040	0.040	0.040	8009871
Toluene	ug/g	<0.020	<0.020	0.020	0.020	8009871
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	0.040	0.040	8009871
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	0.040	0.040	8009871
Trichloroethylene	ug/g	<0.010	<0.010	0.010	0.010	8009871
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	0.040	0.040	8009871
Vinyl Chloride	ug/g	<0.019	<0.019	0.019	0.019	8009871
p+m-Xylene	ug/g	<0.020	<0.020	0.020	0.020	8009871
o-Xylene	ug/g	<0.020	<0.020	0.020	0.020	8009871
Total Xylenes	ug/g	<0.020	<0.020	0.020	0.020	8009871
F1 (C6-C10)	ug/g	<10	<10	10	2.0	8009871
F1 (C6-C10) - BTEX	ug/g	<10	<10	10	2.0	8009871
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	10	5.0	8016333
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	50	5.0	8016333
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	50	10	8016333
Reached Baseline at C50	ug/g	Yes	Yes			8016333
Surrogate Recovery (%)						
o-Terphenyl	%	94	93			8016333
4-Bromofluorobenzene	%	97	97			8009871
D10-o-Xylene	%	95	85			8009871
D4-1,2-Dichloroethane	%	110	106			8009871
D8-Toluene	%	94	93			8009871
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						

BUREAU
VERITASBureau Veritas Job #: C2D8419
Report Date: 2022/06/24Pinchin Ltd
Client Project #: 309491
Sampler Initials: RM**O.REG 153 VOCs BY HS (SOIL)**

Bureau Veritas ID		SRL887	SRL892	SRL895			
Sampling Date		2022/05/20 10:00	2022/05/20 15:30	2022/05/20			
COC Number		879769-01-01	879769-01-01	879769-01-01			
	UNITS	MW1-6	BH4-4	BH5-6	RDL	MDL	QC Batch
Inorganics							
Moisture	%	12	8.6	9.1	1.0	0.50	8009639
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	<0.050	0.050	0.010	8009230
Volatile Organics							
Acetone (2-Propanone)	ug/g	<0.49	<0.49	<0.49	0.49	0.49	8009930
Benzene	ug/g	<0.0060	<0.0060	<0.0060	0.0060	0.0060	8009930
Bromodichloromethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8009930
Bromoform	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8009930
Bromomethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8009930
Carbon Tetrachloride	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8009930
Chlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8009930
Chloroform	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8009930
Dibromochloromethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8009930
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8009930
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8009930
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8009930
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	<0.040	0.040	0.050	8009930
1,1-Dichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8009930
1,2-Dichloroethane	ug/g	<0.049	<0.049	<0.049	0.049	0.040	8009930
1,1-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8009930
cis-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8009930
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8009930
1,2-Dichloropropane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8009930
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	<0.030	0.030	0.030	8009930
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8009930
Ethylbenzene	ug/g	<0.010	<0.010	<0.010	0.010	0.010	8009930
Ethylene Dibromide	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8009930
Hexane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8009930
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	<0.049	0.049	0.049	8009930
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	<0.40	0.40	0.40	8009930
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	<0.40	0.40	0.40	8009930
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							

BUREAU
VERITAS

Bureau Veritas Job #: C2D8419
Report Date: 2022/06/24

Pinchin Ltd
Client Project #: 309491
Sampler Initials: RM

O.REG 153 VOCs BY HS (SOIL)

Bureau Veritas ID		SRL887	SRL892	SRL895			
Sampling Date		2022/05/20 10:00	2022/05/20 15:30	2022/05/20			
COC Number		879769-01-01	879769-01-01	879769-01-01			
	UNITS	MW1-6	BH4-4	BH5-6	RDL	MDL	QC Batch
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8009930
Styrene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8009930
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8009930
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8009930
Tetrachloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8009930
Toluene	ug/g	<0.020	<0.020	<0.020	0.020	0.020	8009930
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8009930
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8009930
Trichloroethylene	ug/g	<0.010	<0.010	<0.010	0.010	0.010	8009930
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8009930
Vinyl Chloride	ug/g	<0.019	<0.019	<0.019	0.019	0.019	8009930
p+m-Xylene	ug/g	<0.020	<0.020	<0.020	0.020	0.020	8009930
o-Xylene	ug/g	<0.020	<0.020	<0.020	0.020	0.020	8009930
Total Xylenes	ug/g	<0.020	<0.020	<0.020	0.020	0.020	8009930
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	96	95	95			8009930
D10-o-Xylene	%	93	83	84			8009930
D4-1,2-Dichloroethane	%	100	101	102			8009930
D8-Toluene	%	96	96	95			8009930
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							

BUREAU
VERITAS

Bureau Veritas Job #: C2D8419

Report Date: 2022/06/24

Pinchin Ltd

Client Project #: 309491

Sampler Initials: RM

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SRL885			SRL886		SRL893			
Sampling Date		2022/05/20 10:00			2022/05/20 10:00		2022/05/20 15:30			
COC Number		879769-01-01			879769-01-01		879769-01-01			
	UNITS	MW1-2	MDL	QC Batch	MW1-5	QC Batch	BH4-6	RDL	MDL	QC Batch
Inorganics										
Available (CaCl ₂) pH	pH	7.66		8017969	7.93	8017965				
Miscellaneous Parameters										
Grain Size	%				COARSE	8012924	COARSE	N/A	N/A	8012924
Sieve - #200 (<0.075mm)	%				30	8012924	49	1	N/A	8012924
Sieve - #200 (>0.075mm)	%				70	8012924	51	1	N/A	8012924
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
N/A = Not Applicable										



BUREAU
VERITAS

Bureau Veritas Job #: C2D8419
Report Date: 2022/06/24

Pinchin Ltd
Client Project #: 309491
Sampler Initials: RM

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		SRL894			
Sampling Date		2022/05/20			
COC Number		879769-01-01			
	UNITS	BH5-4	RDL	MDL	QC Batch
F2-F4 Hydrocarbons					
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	1200	100	100	8021576
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



BUREAU
VERITAS

Bureau Veritas Job #: C2D8419
Report Date: 2022/06/24

Pinchin Ltd
Client Project #: 309491
Sampler Initials: RM

TEST SUMMARY

Bureau Veritas ID: SRL884
Sample ID: MW1-1
Matrix: Soil

Collected: 2022/05/20
Shipped:
Received: 2022/05/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8015902	N/A	2022/05/26	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8016333	2022/05/26	2022/05/26	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	8015896	2022/05/26	2022/05/31	Viviana Canzonieri
Moisture	BAL	8009639	N/A	2022/05/21	Kruti Jitesh Patel

Bureau Veritas ID: SRL885
Sample ID: MW1-2
Matrix: Soil

Collected: 2022/05/20
Shipped:
Received: 2022/05/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl2 EXTRACT	AT	8017969	2022/05/27	2022/05/27	Taslina Aktar

Bureau Veritas ID: SRL886
Sample ID: MW1-5
Matrix: Soil

Collected: 2022/05/20
Shipped:
Received: 2022/05/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl2 EXTRACT	AT	8017965	2022/05/27	2022/05/27	Taslina Aktar
Sieve, 75um	SIEV	8012924	N/A	2022/05/26	Min Yang

Bureau Veritas ID: SRL887
Sample ID: MW1-6
Matrix: Soil

Collected: 2022/05/20
Shipped:
Received: 2022/05/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	8009230	N/A	2022/05/25	Automated Statchk
Moisture	BAL	8009639	N/A	2022/05/21	Kruti Jitesh Patel
Volatile Organic Compounds in Soil	GC/MS	8009930	N/A	2022/05/24	Manpreet Sarao

Bureau Veritas ID: SRL888
Sample ID: MW2-7
Matrix: Soil

Collected: 2022/05/20
Shipped:
Received: 2022/05/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	8009230	N/A	2022/05/25	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8016333	2022/05/26	2022/05/26	Agnieszka Brzuzy-Snopko
Moisture	BAL	8009639	N/A	2022/05/21	Kruti Jitesh Patel
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8009871	N/A	2022/05/24	Denis Reid

Bureau Veritas ID: SRL889
Sample ID: BH3-2
Matrix: Soil

Collected: 2022/05/20
Shipped:
Received: 2022/05/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8015896	2022/05/26	2022/05/31	Viviana Canzonieri



BUREAU
VERITAS

Bureau Veritas Job #: C2D8419
Report Date: 2022/06/24

Pinchin Ltd
Client Project #: 309491
Sampler Initials: RM

TEST SUMMARY

Bureau Veritas ID: SRL890
Sample ID: BH3-3
Matrix: Soil

Collected: 2022/05/20
Shipped:
Received: 2022/05/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8009224	N/A	2022/05/27	Automated Statchk
1,3-Dichloropropene Sum	CALC	8009230	N/A	2022/05/25	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8016333	2022/05/26	2022/05/26	Agnieszka Brzuzy-Snopko
Moisture	BAL	8009639	N/A	2022/05/21	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8016781	2022/05/26	2022/05/27	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8009871	N/A	2022/05/24	Denis Reid

Bureau Veritas ID: SRL891
Sample ID: BH4-1
Matrix: Soil

Collected: 2022/05/20
Shipped:
Received: 2022/05/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8015902	N/A	2022/05/26	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8016333	2022/05/26	2022/05/26	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	8015896	2022/05/26	2022/05/31	Viviana Canzonieri
Moisture	BAL	8009639	N/A	2022/05/21	Kruti Jitesh Patel

Bureau Veritas ID: SRL892
Sample ID: BH4-4
Matrix: Soil

Collected: 2022/05/20
Shipped:
Received: 2022/05/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	8009230	N/A	2022/05/25	Automated Statchk
Moisture	BAL	8009639	N/A	2022/05/21	Kruti Jitesh Patel
Volatile Organic Compounds in Soil	GC/MS	8009930	N/A	2022/05/24	Manpreet Sarao

Bureau Veritas ID: SRL893
Sample ID: BH4-6
Matrix: Soil

Collected: 2022/05/20
Shipped:
Received: 2022/05/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sieve, 75um	SIEV	8012924	N/A	2022/05/26	Min Yang

Bureau Veritas ID: SRL894
Sample ID: BH5-4
Matrix: Soil

Collected: 2022/05/20
Shipped:
Received: 2022/05/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8009224	N/A	2022/05/27	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8015902	N/A	2022/05/26	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8016333	2022/05/26	2022/05/26	Agnieszka Brzuzy-Snopko
F4G (CCME Hydrocarbons Gravimetric)	BAL	8021576	2022/05/30	2022/05/30	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	8015896	2022/05/26	2022/05/31	Viviana Canzonieri
Moisture	BAL	8009639	N/A	2022/05/21	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8016781	2022/05/26	2022/05/27	Jonghan Yoon



BUREAU
VERITAS

Bureau Veritas Job #: C2D8419
Report Date: 2022/06/24

Pinchin Ltd
Client Project #: 309491
Sampler Initials: RM

TEST SUMMARY

Bureau Veritas ID: SRL895
Sample ID: BH5-6
Matrix: Soil

Collected: 2022/05/20
Shipped:
Received: 2022/05/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	8009230	N/A	2022/05/25	Automated Statchk
Moisture	BAL	8009639	N/A	2022/05/21	Kruti Jitesh Patel
Volatile Organic Compounds in Soil	GC/MS	8009930	N/A	2022/05/24	Manpreet Sarao



BUREAU
VERITAS

Bureau Veritas Job #: C2D8419
Report Date: 2022/06/24

Pinchin Ltd
Client Project #: 309491
Sampler Initials: RM

GENERAL COMMENTS

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

Package 1	-1.3°C
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Revised Report (2022/06/24): IDs changed as per client request.

Results relate only to the items tested.

BUREAU
VERITAS

Bureau Veritas Job #: C2D8419

Report Date: 2022/06/24

QUALITY ASSURANCE REPORT

Pinchin Ltd

Client Project #: 309491

Sampler Initials: RM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8009871	4-Bromofluorobenzene	2022/05/24	103	60 - 140	102	60 - 140	100	%				
8009871	D10-o-Xylene	2022/05/24	94	60 - 130	93	60 - 130	90	%				
8009871	D4-1,2-Dichloroethane	2022/05/24	107	60 - 140	104	60 - 140	105	%				
8009871	D8-Toluene	2022/05/24	100	60 - 140	102	60 - 140	94	%				
8009930	4-Bromofluorobenzene	2022/05/24	102	60 - 140	103	60 - 140	94	%				
8009930	D10-o-Xylene	2022/05/24	97	60 - 130	89	60 - 130	86	%				
8009930	D4-1,2-Dichloroethane	2022/05/24	92	60 - 140	96	60 - 140	102	%				
8009930	D8-Toluene	2022/05/24	107	60 - 140	107	60 - 140	96	%				
8015902	1,4-Difluorobenzene	2022/05/26	105	60 - 140	98	60 - 140	102	%				
8015902	4-Bromofluorobenzene	2022/05/26	98	60 - 140	103	60 - 140	100	%				
8015902	D10-o-Xylene	2022/05/26	96	60 - 140	103	60 - 140	92	%				
8015902	D4-1,2-Dichloroethane	2022/05/26	90	60 - 140	98	60 - 140	96	%				
8016333	o-Terphenyl	2022/05/26	88	60 - 130	88	60 - 130	96	%				
8016781	D10-Anthracene	2022/05/27	104	50 - 130	105	50 - 130	114	%				
8016781	D14-Terphenyl (FS)	2022/05/27	95	50 - 130	94	50 - 130	93	%				
8016781	D8-Acenaphthylene	2022/05/27	81	50 - 130	88	50 - 130	53	%				
8009639	Moisture	2022/05/21							3.2	20		
8009871	1,1,1,2-Tetrachloroethane	2022/05/24	104	60 - 140	102	60 - 130	<0.040	ug/g	NC	50		
8009871	1,1,1-Trichloroethane	2022/05/24	109	60 - 140	106	60 - 130	<0.040	ug/g	NC	50		
8009871	1,1,2,2-Tetrachloroethane	2022/05/24	97	60 - 140	95	60 - 130	<0.040	ug/g	NC	50		
8009871	1,1,2-Trichloroethane	2022/05/24	105	60 - 140	101	60 - 130	<0.040	ug/g	NC	50		
8009871	1,1-Dichloroethane	2022/05/24	100	60 - 140	97	60 - 130	<0.040	ug/g	NC	50		
8009871	1,1-Dichloroethylene	2022/05/24	104	60 - 140	103	60 - 130	<0.040	ug/g	NC	50		
8009871	1,2-Dichlorobenzene	2022/05/24	97	60 - 140	96	60 - 130	<0.040	ug/g	NC	50		
8009871	1,2-Dichloroethane	2022/05/24	103	60 - 140	99	60 - 130	<0.049	ug/g	NC	50		
8009871	1,2-Dichloropropane	2022/05/24	101	60 - 140	98	60 - 130	<0.040	ug/g	NC	50		
8009871	1,3-Dichlorobenzene	2022/05/24	99	60 - 140	100	60 - 130	<0.040	ug/g	NC	50		
8009871	1,4-Dichlorobenzene	2022/05/24	116	60 - 140	116	60 - 130	<0.040	ug/g	NC	50		
8009871	Acetone (2-Propanone)	2022/05/24	98	60 - 140	90	60 - 140	<0.49	ug/g	NC	50		
8009871	Benzene	2022/05/24	98	60 - 140	96	60 - 130	<0.0060	ug/g	NC	50		
8009871	Bromodichloromethane	2022/05/24	108	60 - 140	104	60 - 130	<0.040	ug/g	NC	50		

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QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8009871	Bromoform	2022/05/24	105	60 - 140	101	60 - 130	<0.040	ug/g	NC	50		
8009871	Bromomethane	2022/05/24	113	60 - 140	106	60 - 140	<0.040	ug/g	NC	50		
8009871	Carbon Tetrachloride	2022/05/24	108	60 - 140	106	60 - 130	<0.040	ug/g	NC	50		
8009871	Chlorobenzene	2022/05/24	101	60 - 140	98	60 - 130	<0.040	ug/g	NC	50		
8009871	Chloroform	2022/05/24	106	60 - 140	103	60 - 130	<0.040	ug/g	NC	50		
8009871	cis-1,2-Dichloroethylene	2022/05/24	107	60 - 140	103	60 - 130	<0.040	ug/g	NC	50		
8009871	cis-1,3-Dichloropropene	2022/05/24	100	60 - 140	95	60 - 130	<0.030	ug/g	NC	50		
8009871	Dibromochloromethane	2022/05/24	103	60 - 140	100	60 - 130	<0.040	ug/g	NC	50		
8009871	Dichlorodifluoromethane (FREON 12)	2022/05/24	91	60 - 140	91	60 - 140	<0.040	ug/g	NC	50		
8009871	Ethylbenzene	2022/05/24	91	60 - 140	90	60 - 130	<0.010	ug/g	NC	50		
8009871	Ethylene Dibromide	2022/05/24	101	60 - 140	97	60 - 130	<0.040	ug/g	NC	50		
8009871	F1 (C6-C10) - BTEX	2022/05/24					<10	ug/g	NC	30		
8009871	F1 (C6-C10)	2022/05/24	88	60 - 140	89	80 - 120	<10	ug/g	NC	30		
8009871	Hexane	2022/05/24	101	60 - 140	99	60 - 130	<0.040	ug/g	NC	50		
8009871	Methyl Ethyl Ketone (2-Butanone)	2022/05/24	106	60 - 140	98	60 - 140	<0.40	ug/g	NC	50		
8009871	Methyl Isobutyl Ketone	2022/05/24	98	60 - 140	92	60 - 130	<0.40	ug/g	NC	50		
8009871	Methyl t-butyl ether (MTBE)	2022/05/24	95	60 - 140	92	60 - 130	<0.040	ug/g	NC	50		
8009871	Methylene Chloride(Dichloromethane)	2022/05/24	109	60 - 140	105	60 - 130	<0.049	ug/g	NC	50		
8009871	o-Xylene	2022/05/24	92	60 - 140	91	60 - 130	<0.020	ug/g	NC	50		
8009871	p+m-Xylene	2022/05/24	95	60 - 140	95	60 - 130	<0.020	ug/g	NC	50		
8009871	Styrene	2022/05/24	104	60 - 140	101	60 - 130	<0.040	ug/g	NC	50		
8009871	Tetrachloroethylene	2022/05/24	96	60 - 140	96	60 - 130	<0.040	ug/g	NC	50		
8009871	Toluene	2022/05/24	97	60 - 140	96	60 - 130	<0.020	ug/g	NC	50		
8009871	Total Xylenes	2022/05/24					<0.020	ug/g	NC	50		
8009871	trans-1,2-Dichloroethylene	2022/05/24	108	60 - 140	105	60 - 130	<0.040	ug/g	NC	50		
8009871	trans-1,3-Dichloropropene	2022/05/24	107	60 - 140	100	60 - 130	<0.040	ug/g	NC	50		
8009871	Trichloroethylene	2022/05/24	109	60 - 140	106	60 - 130	<0.010	ug/g	NC	50		
8009871	Trichlorofluoromethane (FREON 11)	2022/05/24	108	60 - 140	106	60 - 130	<0.040	ug/g	NC	50		
8009871	Vinyl Chloride	2022/05/24	101	60 - 140	100	60 - 130	<0.019	ug/g	NC	50		
8009930	1,1,1,2-Tetrachloroethane	2022/05/24	98	60 - 140	97	60 - 130	<0.040	ug/g	NC	50		
8009930	1,1,1-Trichloroethane	2022/05/24	106	60 - 140	103	60 - 130	<0.040	ug/g	NC	50		

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QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8009930	1,1,2,2-Tetrachloroethane	2022/05/24	88	60 - 140	91	60 - 130	<0.040	ug/g	NC	50		
8009930	1,1,2-Trichloroethane	2022/05/24	96	60 - 140	97	60 - 130	<0.040	ug/g	NC	50		
8009930	1,1-Dichloroethane	2022/05/24	97	60 - 140	95	60 - 130	<0.040	ug/g	NC	50		
8009930	1,1-Dichloroethylene	2022/05/24	107	60 - 140	102	60 - 130	<0.040	ug/g	NC	50		
8009930	1,2-Dichlorobenzene	2022/05/24	100	60 - 140	96	60 - 130	<0.040	ug/g	NC	50		
8009930	1,2-Dichloroethane	2022/05/24	93	60 - 140	93	60 - 130	<0.049	ug/g	NC	50		
8009930	1,2-Dichloropropane	2022/05/24	98	60 - 140	97	60 - 130	<0.040	ug/g	NC	50		
8009930	1,3-Dichlorobenzene	2022/05/24	102	60 - 140	97	60 - 130	<0.040	ug/g	NC	50		
8009930	1,4-Dichlorobenzene	2022/05/24	120	60 - 140	115	60 - 130	<0.040	ug/g	NC	50		
8009930	Acetone (2-Propanone)	2022/05/24	90	60 - 140	96	60 - 140	<0.49	ug/g	NC	50		
8009930	Benzene	2022/05/24	96	60 - 140	93	60 - 130	<0.0060	ug/g	NC	50		
8009930	Bromodichloromethane	2022/05/24	99	60 - 140	99	60 - 130	<0.040	ug/g	NC	50		
8009930	Bromoform	2022/05/24	92	60 - 140	96	60 - 130	<0.040	ug/g	NC	50		
8009930	Bromomethane	2022/05/24	99	60 - 140	96	60 - 140	<0.040	ug/g	NC	50		
8009930	Carbon Tetrachloride	2022/05/24	103	60 - 140	100	60 - 130	<0.040	ug/g	NC	50		
8009930	Chlorobenzene	2022/05/24	103	60 - 140	101	60 - 130	<0.040	ug/g	NC	50		
8009930	Chloroform	2022/05/24	98	60 - 140	96	60 - 130	<0.040	ug/g	NC	50		
8009930	cis-1,2-Dichloroethylene	2022/05/24	102	60 - 140	101	60 - 130	<0.040	ug/g	NC	50		
8009930	cis-1,3-Dichloropropene	2022/05/24	101	60 - 140	97	60 - 130	<0.030	ug/g	NC	50		
8009930	Dibromochloromethane	2022/05/24	94	60 - 140	95	60 - 130	<0.040	ug/g	NC	50		
8009930	Dichlorodifluoromethane (FREON 12)	2022/05/24	91	60 - 140	87	60 - 140	<0.040	ug/g	NC	50		
8009930	Ethylbenzene	2022/05/24	100	60 - 140	96	60 - 130	<0.010	ug/g	NC	50		
8009930	Ethylene Dibromide	2022/05/24	93	60 - 140	95	60 - 130	<0.040	ug/g	NC	50		
8009930	Hexane	2022/05/24	119	60 - 140	112	60 - 130	<0.040	ug/g	NC	50		
8009930	Methyl Ethyl Ketone (2-Butanone)	2022/05/24	102	60 - 140	109	60 - 140	<0.40	ug/g	NC	50		
8009930	Methyl Isobutyl Ketone	2022/05/24	100	60 - 140	106	60 - 130	<0.40	ug/g	NC	50		
8009930	Methyl t-butyl ether (MTBE)	2022/05/24	96	60 - 140	94	60 - 130	<0.040	ug/g	NC	50		
8009930	Methylene Chloride(Dichloromethane)	2022/05/24	98	60 - 140	97	60 - 130	<0.049	ug/g	NC	50		
8009930	o-Xylene	2022/05/24	101	60 - 140	98	60 - 130	<0.020	ug/g	NC	50		
8009930	p+m-Xylene	2022/05/24	106	60 - 140	102	60 - 130	<0.020	ug/g	NC	50		
8009930	Styrene	2022/05/24	93	60 - 140	92	60 - 130	<0.040	ug/g	NC	50		

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QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8009930	Tetrachloroethylene	2022/05/24	99	60 - 140	95	60 - 130	<0.040	ug/g	NC	50		
8009930	Toluene	2022/05/24	104	60 - 140	102	60 - 130	<0.020	ug/g	NC	50		
8009930	Total Xylenes	2022/05/24					<0.020	ug/g	NC	50		
8009930	trans-1,2-Dichloroethylene	2022/05/24	105	60 - 140	101	60 - 130	<0.040	ug/g	NC	50		
8009930	trans-1,3-Dichloropropene	2022/05/24	108	60 - 140	104	60 - 130	<0.040	ug/g	NC	50		
8009930	Trichloroethylene	2022/05/24	107	60 - 140	104	60 - 130	<0.010	ug/g	3.6	50		
8009930	Trichlorofluoromethane (FREON 11)	2022/05/24	105	60 - 140	100	60 - 130	<0.040	ug/g	NC	50		
8009930	Vinyl Chloride	2022/05/24	103	60 - 140	99	60 - 130	<0.019	ug/g	NC	50		
8012924	Sieve - #200 (<0.075mm)	2022/05/26							4.8	20	57	53 - 58
8012924	Sieve - #200 (>0.075mm)	2022/05/26							13	20	43	42 - 47
8015896	Acid Extractable Antimony (Sb)	2022/05/30	103	75 - 125	102	80 - 120	<0.20	ug/g	9.5	30		
8015896	Acid Extractable Arsenic (As)	2022/05/30	104	75 - 125	103	80 - 120	<1.0	ug/g	2.2	30		
8015896	Acid Extractable Barium (Ba)	2022/05/30	NC	75 - 125	98	80 - 120	<0.50	ug/g	1.8	30		
8015896	Acid Extractable Beryllium (Be)	2022/05/30	108	75 - 125	101	80 - 120	<0.20	ug/g	0.50	30		
8015896	Acid Extractable Boron (B)	2022/05/30	107	75 - 125	98	80 - 120	<5.0	ug/g	NC	30		
8015896	Acid Extractable Cadmium (Cd)	2022/05/30	104	75 - 125	100	80 - 120	<0.10	ug/g	23	30		
8015896	Acid Extractable Chromium (Cr)	2022/05/30	107	75 - 125	102	80 - 120	<1.0	ug/g	5.1	30		
8015896	Acid Extractable Cobalt (Co)	2022/05/30	104	75 - 125	103	80 - 120	<0.10	ug/g	1.6	30		
8015896	Acid Extractable Copper (Cu)	2022/05/30	100	75 - 125	97	80 - 120	<0.50	ug/g	2.6	30		
8015896	Acid Extractable Lead (Pb)	2022/05/30	NC	75 - 125	102	80 - 120	<1.0	ug/g	9.7	30		
8015896	Acid Extractable Mercury (Hg)	2022/05/30	100	75 - 125	94	80 - 120	<0.050	ug/g	22	30		
8015896	Acid Extractable Molybdenum (Mo)	2022/05/30	106	75 - 125	103	80 - 120	<0.50	ug/g	NC	30		
8015896	Acid Extractable Nickel (Ni)	2022/05/30	105	75 - 125	105	80 - 120	<0.50	ug/g	5.2	30		
8015896	Acid Extractable Selenium (Se)	2022/05/30	102	75 - 125	103	80 - 120	<0.50	ug/g	NC	30		
8015896	Acid Extractable Silver (Ag)	2022/05/30	103	75 - 125	99	80 - 120	<0.20	ug/g	NC	30		
8015896	Acid Extractable Thallium (Tl)	2022/05/30	102	75 - 125	102	80 - 120	<0.050	ug/g	3.7	30		
8015896	Acid Extractable Uranium (U)	2022/05/30	99	75 - 125	98	80 - 120	<0.050	ug/g	0.43	30		
8015896	Acid Extractable Vanadium (V)	2022/05/30	108	75 - 125	101	80 - 120	<5.0	ug/g	1.4	30		
8015896	Acid Extractable Zinc (Zn)	2022/05/30	NC	75 - 125	103	80 - 120	<5.0	ug/g	6.0	30		
8015902	Benzene	2022/05/26	103	50 - 140	106	50 - 140	<0.020	ug/g	NC	50		
8015902	Ethylbenzene	2022/05/26	114	50 - 140	113	50 - 140	<0.020	ug/g	NC	50		

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QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8015902	F1 (C6-C10) - BTEX	2022/05/26					<10	ug/g	NC	30		
8015902	F1 (C6-C10)	2022/05/26	100	60 - 140	97	80 - 120	<10	ug/g	NC	30		
8015902	o-Xylene	2022/05/26	107	50 - 140	110	50 - 140	<0.020	ug/g	6.6	50		
8015902	p+m-Xylene	2022/05/26	110	50 - 140	110	50 - 140	<0.040	ug/g	NC	50		
8015902	Toluene	2022/05/26	99	50 - 140	100	50 - 140	<0.020	ug/g	NC	50		
8015902	Total Xylenes	2022/05/26					<0.040	ug/g	NC	50		
8016333	F2 (C10-C16 Hydrocarbons)	2022/05/27	93	60 - 130	91	80 - 120	<10	ug/g	NC	30		
8016333	F3 (C16-C34 Hydrocarbons)	2022/05/27	93	60 - 130	93	80 - 120	<50	ug/g	NC	30		
8016333	F4 (C34-C50 Hydrocarbons)	2022/05/27	92	60 - 130	91	80 - 120	<50	ug/g	NC	30		
8016781	1-Methylnaphthalene	2022/05/27	83	50 - 130	94	50 - 130	<0.0050	ug/g	NC	40		
8016781	2-Methylnaphthalene	2022/05/27	73	50 - 130	87	50 - 130	<0.0050	ug/g	NC	40		
8016781	Acenaphthene	2022/05/27	95	50 - 130	94	50 - 130	<0.0050	ug/g	NC	40		
8016781	Acenaphthylene	2022/05/27	92	50 - 130	92	50 - 130	<0.0050	ug/g	NC	40		
8016781	Anthracene	2022/05/27	106	50 - 130	100	50 - 130	<0.0050	ug/g	NC	40		
8016781	Benzo(a)anthracene	2022/05/27	104	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40		
8016781	Benzo(a)pyrene	2022/05/27	87	50 - 130	85	50 - 130	<0.0050	ug/g	NC	40		
8016781	Benzo(b,j)fluoranthene	2022/05/27	106	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40		
8016781	Benzo(g,h,i)perylene	2022/05/27	103	50 - 130	100	50 - 130	<0.0050	ug/g	NC	40		
8016781	Benzo(k)fluoranthene	2022/05/27	91	50 - 130	88	50 - 130	<0.0050	ug/g	NC	40		
8016781	Chrysene	2022/05/27	102	50 - 130	97	50 - 130	<0.0050	ug/g	NC	40		
8016781	Dibenzo(a,h)anthracene	2022/05/27	83	50 - 130	87	50 - 130	<0.0050	ug/g	NC	40		
8016781	Fluoranthene	2022/05/27	106	50 - 130	102	50 - 130	<0.0050	ug/g	NC	40		
8016781	Fluorene	2022/05/27	98	50 - 130	96	50 - 130	<0.0050	ug/g	NC	40		
8016781	Indeno(1,2,3-cd)pyrene	2022/05/27	100	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40		
8016781	Naphthalene	2022/05/27	54	50 - 130	80	50 - 130	<0.0050	ug/g	NC	40		
8016781	Phenanthrene	2022/05/27	98	50 - 130	95	50 - 130	<0.0050	ug/g	NC	40		
8016781	Pyrene	2022/05/27	109	50 - 130	105	50 - 130	<0.0050	ug/g	NC	40		
8017965	Available (CaCl2) pH	2022/05/27			100	97 - 103			0.51	N/A		
8017969	Available (CaCl2) pH	2022/05/27			100	97 - 103			0.16	N/A		

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QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8021576	F4G-sg (Grav. Heavy Hydrocarbons)	2022/05/30	67	65 - 135	101	65 - 135	<100	ug/g	8.0	50		

N/A = Not Applicable

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.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

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 $\leq 2 \times \text{RDL}$).



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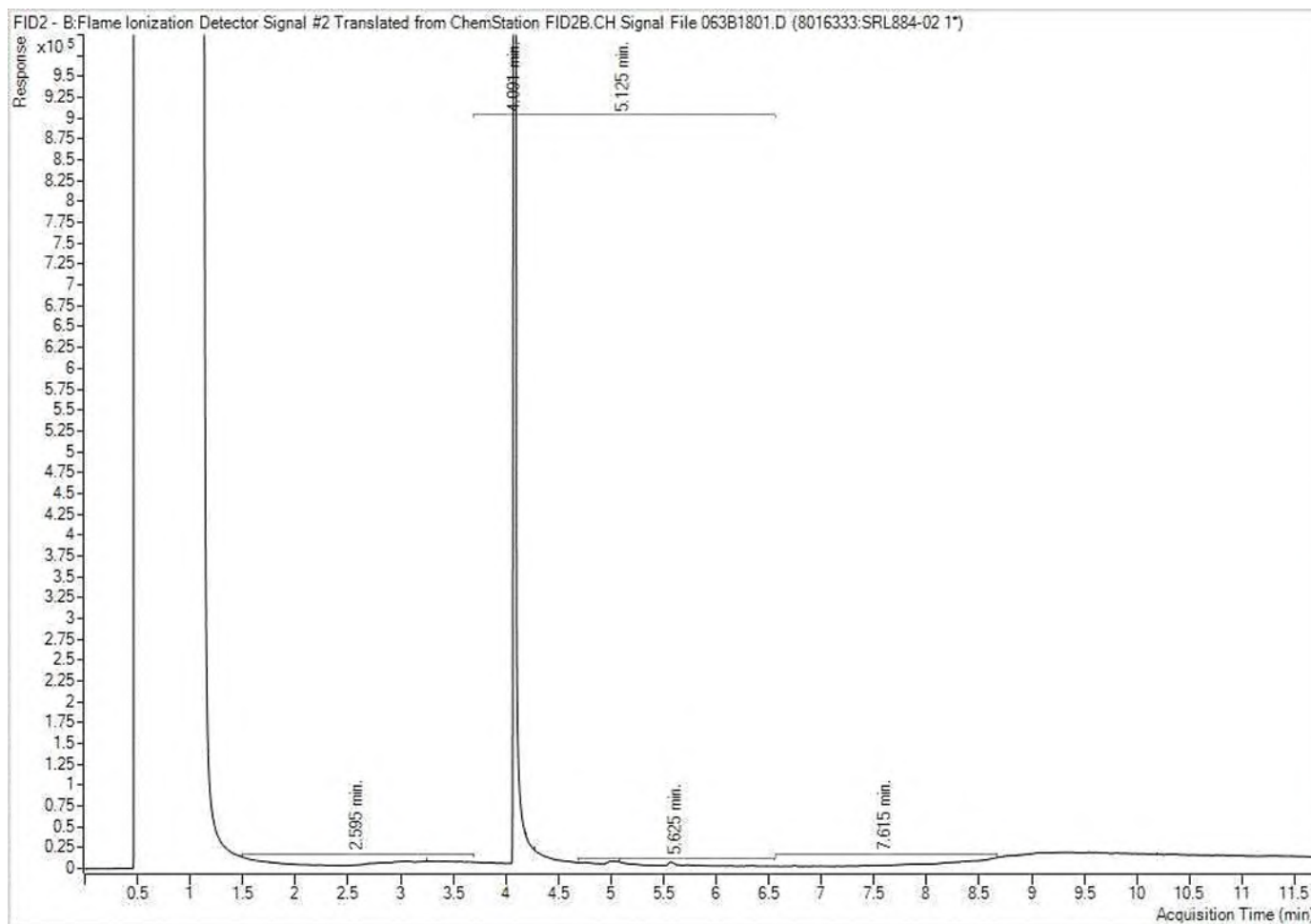
VALIDATION SIGNATURE PAGE

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

Cristina Carriere, Senior Scientific Specialist

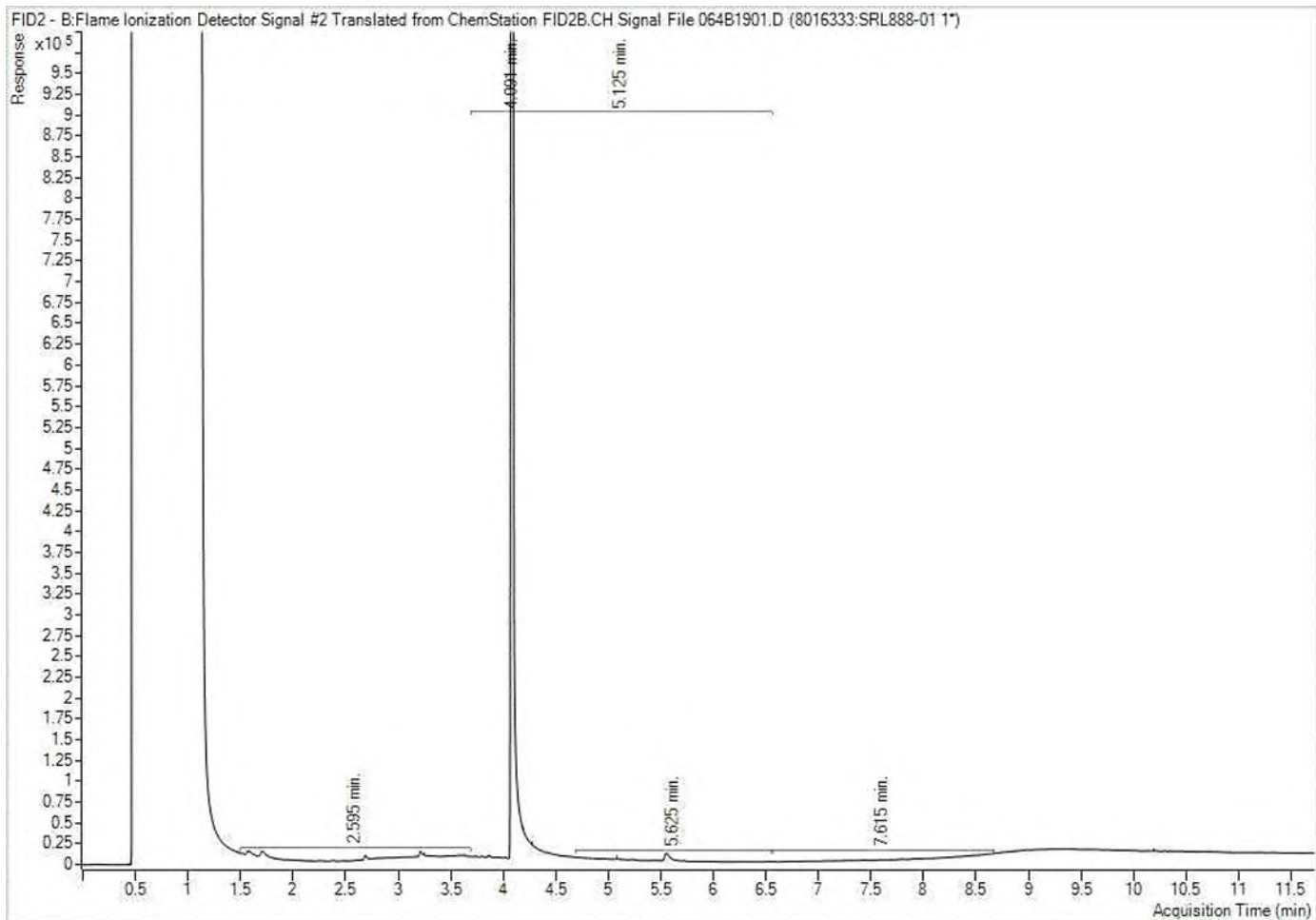
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



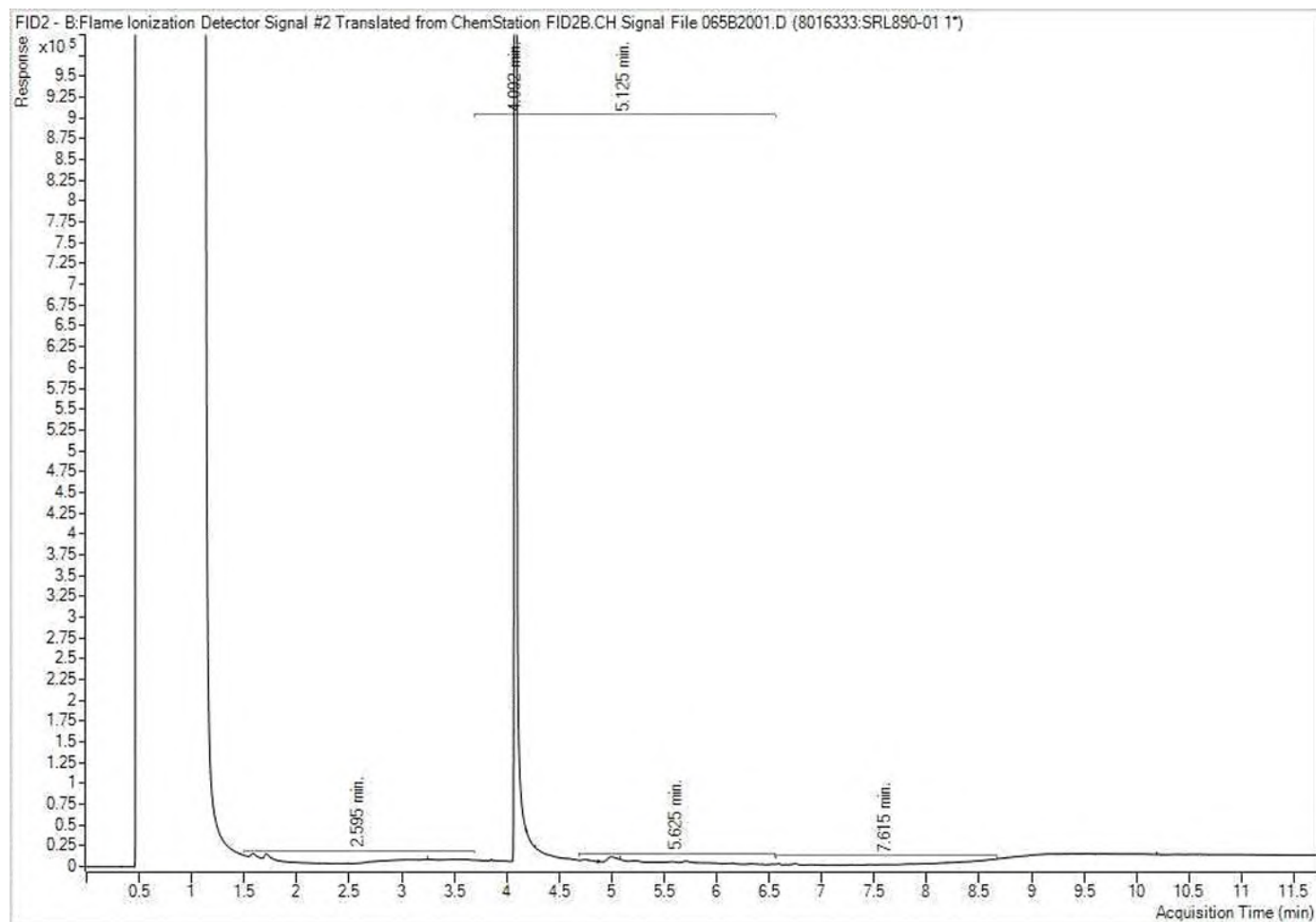
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



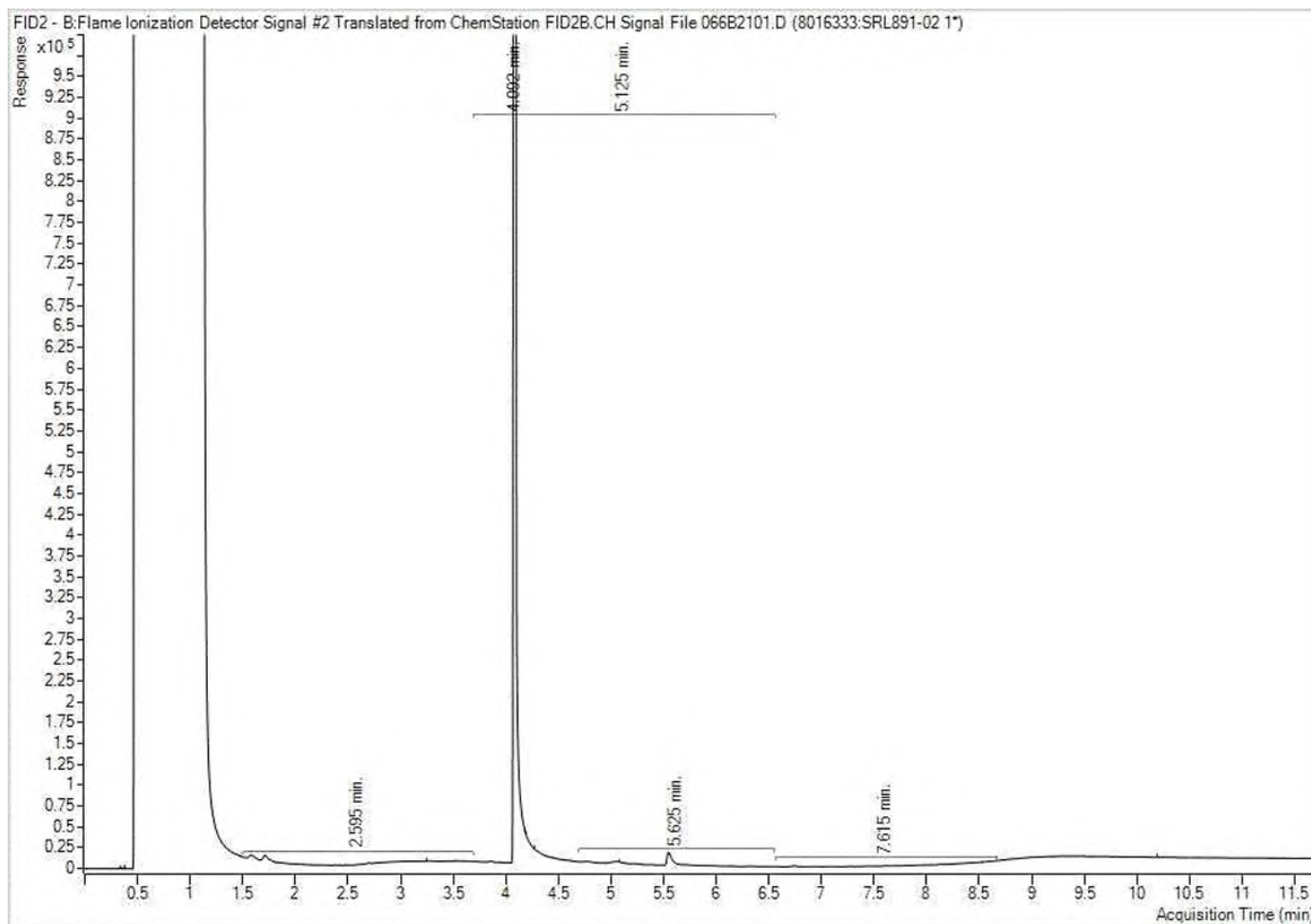
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



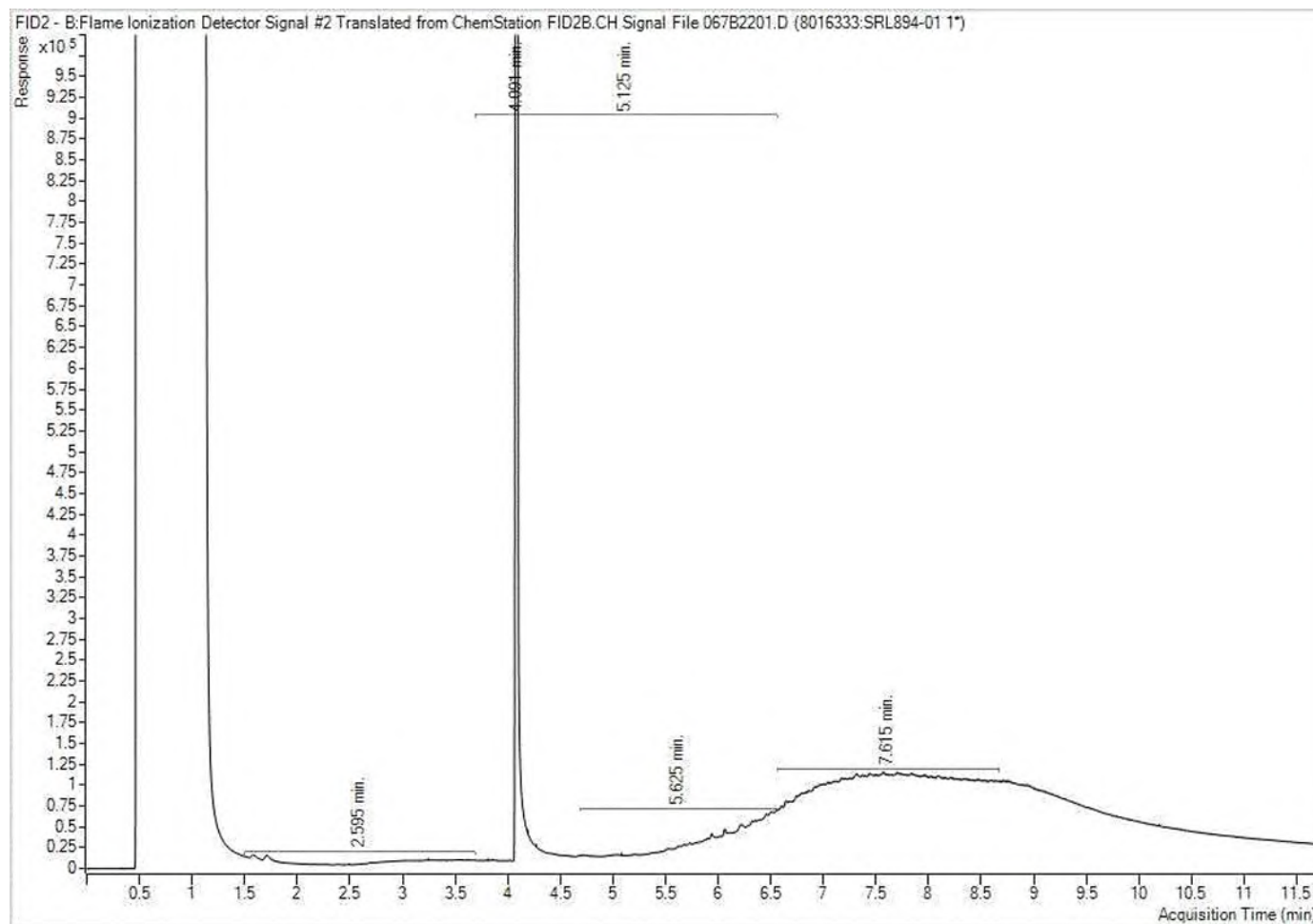
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.



Your Project #: 309491
Site Location: 1995 DIUNDAS ST, MISSISSAUGA
Your C.O.C. #: na

Attention: Lindsay Bell

Pinchin Ltd
2360 Meadowpine Blvd
Unit # 2
Mississauga, ON
CANADA L5N 6S2

Report Date: 2022/06/09
Report #: R7158066
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2F3335

Received: 2022/06/06, 13:10

Sample Matrix: Soil
Samples Received: 1

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Methylnaphthalene Sum	1	N/A	2022/06/08	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum	1	N/A	2022/06/08		EPA 8260C m
Petroleum Hydrocarbons F2-F4 in Soil (1)	1	2022/06/08	2022/06/08	CAM SOP-00316	CCME CWS m
Moisture	1	N/A	2022/06/07	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM)	1	2022/06/07	2022/06/08	CAM SOP-00318	EPA 8270D m
Volatile Organic Compounds and F1 PHCs	1	N/A	2022/06/07	CAM SOP-00230	EPA 8260C 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) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data



Your Project #: 309491
Site Location: 1995 DIUNDAS ST, MISSISSAUGA
Your C.O.C. #: na

Attention: Lindsay Bell

Pinchin Ltd
2360 Meadowpine Blvd
Unit # 2
Mississauga, ON
CANADA L5N 6S2

Report Date: 2022/06/09
Report #: R7158066
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2F3335

Received: 2022/06/06, 13:10

reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

09 Jun 2022 11:02:59

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

Antonella Brasil, Senior Project Manager

Email: Antonella.Brasil@bureauveritas.com

Phone# (905)817-5817

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This report has been generated and distributed using a secure automated process.

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 #: C2F3335

Report Date: 2022/06/09

Pinchin Ltd

Client Project #: 309491

Site Location: 1995 DIUNDAS ST, MISSISSAUGA

Sampler Initials: SS

O.REG 153 PAHS (SOIL)

Bureau Veritas ID		SUT643			
Sampling Date		2022/06/04 09:40			
COC Number		na			
	UNITS	MW3-2	RDL	MDL	QC Batch

Calculated Parameters					
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	0.0071	N/A	8035398
Polyaromatic Hydrocarbons					
Acenaphthene	ug/g	<0.0050	0.0050	0.0020	8039319
Acenaphthylene	ug/g	<0.0050	0.0050	0.0010	8039319
Anthracene	ug/g	<0.0050	0.0050	0.0010	8039319
Benzo(a)anthracene	ug/g	<0.0050	0.0050	0.0020	8039319
Benzo(a)pyrene	ug/g	<0.0050	0.0050	0.0010	8039319
Benzo(b/j)fluoranthene	ug/g	0.0081	0.0050	0.0020	8039319
Benzo(g,h,i)perylene	ug/g	<0.0050	0.0050	0.0040	8039319
Benzo(k)fluoranthene	ug/g	<0.0050	0.0050	0.0020	8039319
Chrysene	ug/g	<0.0050	0.0050	0.0020	8039319
Dibenzo(a,h)anthracene	ug/g	<0.0050	0.0050	0.0040	8039319
Fluoranthene	ug/g	0.0059	0.0050	0.0010	8039319
Fluorene	ug/g	<0.0050	0.0050	0.0010	8039319
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	0.0050	0.0040	8039319
1-Methylnaphthalene	ug/g	<0.0050	0.0050	0.0010	8039319
2-Methylnaphthalene	ug/g	<0.0050	0.0050	0.0010	8039319
Naphthalene	ug/g	<0.0050	0.0050	0.0010	8039319
Phenanthrene	ug/g	<0.0050	0.0050	0.0010	8039319
Pyrene	ug/g	0.0059	0.0050	0.0010	8039319
Surrogate Recovery (%)					
D10-Anthracene	%	110			8039319
D14-Terphenyl (FS)	%	103			8039319
D8-Acenaphthylene	%	89			8039319
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
N/A = Not Applicable					

BUREAU
VERITAS

Bureau Veritas Job #: C2F3335

Report Date: 2022/06/09

Pinchin Ltd

Client Project #: 309491

Site Location: 1995 DIUNDAS ST, MISSISSAUGA

Sampler Initials: SS

O.REG 153 VOCs BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SUT643			
Sampling Date		2022/06/04 09:40			
COC Number		na			
	UNITS	MW3-2	RDL	MDL	QC Batch
Inorganics					
Moisture	%	7.9	1.0	0.50	8037206
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	0.050	0.010	8034894
Volatile Organics					
Acetone (2-Propanone)	ug/g	<0.49	0.49	0.49	8035877
Benzene	ug/g	<0.0060	0.0060	0.0060	8035877
Bromodichloromethane	ug/g	<0.040	0.040	0.040	8035877
Bromoform	ug/g	<0.040	0.040	0.040	8035877
Bromomethane	ug/g	<0.040	0.040	0.040	8035877
Carbon Tetrachloride	ug/g	<0.040	0.040	0.040	8035877
Chlorobenzene	ug/g	<0.040	0.040	0.040	8035877
Chloroform	ug/g	<0.040	0.040	0.040	8035877
Dibromochloromethane	ug/g	<0.040	0.040	0.040	8035877
1,2-Dichlorobenzene	ug/g	<0.040	0.040	0.040	8035877
1,3-Dichlorobenzene	ug/g	<0.040	0.040	0.040	8035877
1,4-Dichlorobenzene	ug/g	<0.040	0.040	0.040	8035877
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	0.040	0.040	8035877
1,1-Dichloroethane	ug/g	<0.040	0.040	0.040	8035877
1,2-Dichloroethane	ug/g	<0.049	0.049	0.049	8035877
1,1-Dichloroethylene	ug/g	<0.040	0.040	0.040	8035877
cis-1,2-Dichloroethylene	ug/g	<0.040	0.040	0.040	8035877
trans-1,2-Dichloroethylene	ug/g	<0.040	0.040	0.040	8035877
1,2-Dichloropropane	ug/g	<0.040	0.040	0.040	8035877
cis-1,3-Dichloropropene	ug/g	<0.030	0.030	0.030	8035877
trans-1,3-Dichloropropene	ug/g	<0.040	0.040	0.040	8035877
Ethylbenzene	ug/g	<0.010	0.010	0.010	8035877
Ethylene Dibromide	ug/g	<0.040	0.040	0.040	8035877
Hexane	ug/g	<0.040	0.040	0.040	8035877
Methylene Chloride(Dichloromethane)	ug/g	<0.049	0.049	0.049	8035877
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	0.40	0.40	8035877
Methyl Isobutyl Ketone	ug/g	<0.40	0.40	0.40	8035877
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					

BUREAU
VERITAS

Bureau Veritas Job #: C2F3335

Report Date: 2022/06/09

Pinchin Ltd

Client Project #: 309491

Site Location: 1995 DIUNDAS ST, MISSISSAUGA

Sampler Initials: SS

O.REG 153 VOCs BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SUT643			
Sampling Date		2022/06/04 09:40			
COC Number		na			
	UNITS	MW3-2	RDL	MDL	QC Batch
Methyl t-butyl ether (MTBE)	ug/g	<0.040	0.040	0.040	8035877
Styrene	ug/g	<0.040	0.040	0.040	8035877
1,1,1,2-Tetrachloroethane	ug/g	<0.040	0.040	0.040	8035877
1,1,2,2-Tetrachloroethane	ug/g	<0.040	0.040	0.040	8035877
Tetrachloroethylene	ug/g	<0.040	0.040	0.040	8035877
Toluene	ug/g	<0.020	0.020	0.020	8035877
1,1,1-Trichloroethane	ug/g	<0.040	0.040	0.040	8035877
1,1,2-Trichloroethane	ug/g	<0.040	0.040	0.040	8035877
Trichloroethylene	ug/g	<0.010	0.010	0.010	8035877
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	0.040	0.040	8035877
Vinyl Chloride	ug/g	<0.019	0.019	0.019	8035877
p+m-Xylene	ug/g	<0.020	0.020	0.020	8035877
o-Xylene	ug/g	<0.020	0.020	0.020	8035877
Total Xylenes	ug/g	<0.020	0.020	0.020	8035877
F1 (C6-C10)	ug/g	<10	10	2.0	8035877
F1 (C6-C10) - BTEX	ug/g	<10	10	2.0	8035877
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	5.0	8039551
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	5.0	8039551
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	10	8039551
Reached Baseline at C50	ug/g	Yes			8039551
Surrogate Recovery (%)					
o-Terphenyl	%	97			8039551
4-Bromofluorobenzene	%	84			8035877
D10-o-Xylene	%	74			8035877
D4-1,2-Dichloroethane	%	109			8035877
D8-Toluene	%	94			8035877
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



BUREAU
VERITAS

Bureau Veritas Job #: C2F3335
Report Date: 2022/06/09

Pinchin Ltd
Client Project #: 309491
Site Location: 1995 DIUNDAS ST, MISSISSAUGA
Sampler Initials: SS

TEST SUMMARY

Bureau Veritas ID: SUT643
Sample ID: MW3-2
Matrix: Soil

Collected: 2022/06/04
Shipped:
Received: 2022/06/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8035398	N/A	2022/06/08	Automated Statchk
1,3-Dichloropropene Sum	CALC	8034894	N/A	2022/06/08	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8039551	2022/06/08	2022/06/08	(Kent) Maolin Li
Moisture	BAL	8037206	N/A	2022/06/07	Min Yang
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8039319	2022/06/07	2022/06/08	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8035877	N/A	2022/06/07	Xueming Jiang



BUREAU
VERITAS

Bureau Veritas Job #: C2F3335
Report Date: 2022/06/09

Pinchin Ltd
Client Project #: 309491
Site Location: 1995 DIUNDAS ST, MISSISSAUGA
Sampler Initials: SS

GENERAL COMMENTS

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

Package 1	5.0°C
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Results relate only to the items tested.



Bureau Veritas Job #: C2F3335

Report Date: 2022/06/09

QUALITY ASSURANCE REPORT

Pinchin Ltd

Client Project #: 309491

Site Location: 1995 DIUNDAS ST, MISSISSAUGA

Sampler Initials: SS

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8035877	4-Bromofluorobenzene	2022/06/07	91	60 - 140	94	60 - 140	85	%		
8035877	D10-o-Xylene	2022/06/07	94	60 - 130	94	60 - 130	74	%		
8035877	D4-1,2-Dichloroethane	2022/06/07	106	60 - 140	104	60 - 140	107	%		
8035877	D8-Toluene	2022/06/07	104	60 - 140	109	60 - 140	95	%		
8039319	D10-Anthracene	2022/06/08	104	50 - 130	98	50 - 130	109	%		
8039319	D14-Terphenyl (FS)	2022/06/08	99	50 - 130	98	50 - 130	99	%		
8039319	D8-Acenaphthylene	2022/06/08	93	50 - 130	95	50 - 130	92	%		
8039551	o-Terphenyl	2022/06/08	98	60 - 130	97	60 - 130	101	%		
8035877	1,1,1,2-Tetrachloroethane	2022/06/07	103	60 - 140	93	60 - 130	<0.040	ug/g		
8035877	1,1,1-Trichloroethane	2022/06/07	102	60 - 140	90	60 - 130	<0.040	ug/g		
8035877	1,1,2,2-Tetrachloroethane	2022/06/07	111	60 - 140	100	60 - 130	<0.040	ug/g		
8035877	1,1,2-Trichloroethane	2022/06/07	113	60 - 140	102	60 - 130	<0.040	ug/g		
8035877	1,1-Dichloroethane	2022/06/07	107	60 - 140	93	60 - 130	<0.040	ug/g		
8035877	1,1-Dichloroethylene	2022/06/07	106	60 - 140	92	60 - 130	<0.040	ug/g		
8035877	1,2-Dichlorobenzene	2022/06/07	102	60 - 140	89	60 - 130	<0.040	ug/g		
8035877	1,2-Dichloroethane	2022/06/07	102	60 - 140	88	60 - 130	<0.049	ug/g		
8035877	1,2-Dichloropropane	2022/06/07	109	60 - 140	94	60 - 130	<0.040	ug/g		
8035877	1,3-Dichlorobenzene	2022/06/07	99	60 - 140	87	60 - 130	<0.040	ug/g		
8035877	1,4-Dichlorobenzene	2022/06/07	115	60 - 140	101	60 - 130	<0.040	ug/g		
8035877	Acetone (2-Propanone)	2022/06/07	109	60 - 140	93	60 - 140	<0.49	ug/g		
8035877	Benzene	2022/06/07	102	60 - 140	88	60 - 130	<0.0060	ug/g	NC	50
8035877	Bromodichloromethane	2022/06/07	107	60 - 140	93	60 - 130	<0.040	ug/g		
8035877	Bromoform	2022/06/07	98	60 - 140	88	60 - 130	<0.040	ug/g		
8035877	Bromomethane	2022/06/07	105	60 - 140	93	60 - 140	<0.040	ug/g		
8035877	Carbon Tetrachloride	2022/06/07	99	60 - 140	87	60 - 130	<0.040	ug/g		
8035877	Chlorobenzene	2022/06/07	102	60 - 140	92	60 - 130	<0.040	ug/g		
8035877	Chloroform	2022/06/07	105	60 - 140	92	60 - 130	<0.040	ug/g		
8035877	cis-1,2-Dichloroethylene	2022/06/07	106	60 - 140	92	60 - 130	<0.040	ug/g		
8035877	cis-1,3-Dichloropropene	2022/06/07	93	60 - 140	80	60 - 130	<0.030	ug/g		
8035877	Dibromochloromethane	2022/06/07	102	60 - 140	92	60 - 130	<0.040	ug/g		
8035877	Dichlorodifluoromethane (FREON 12)	2022/06/07	99	60 - 140	88	60 - 140	<0.040	ug/g		

BUREAU
VERITAS

Bureau Veritas Job #: C2F3335

Report Date: 2022/06/09

QUALITY ASSURANCE REPORT(CONT'D)

Pinchin Ltd

Client Project #: 309491

Site Location: 1995 DIUNDAS ST, MISSISSAUGA

Sampler Initials: SS

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8035877	Ethylbenzene	2022/06/07	90	60 - 140	82	60 - 130	<0.010	ug/g	NC	50
8035877	Ethylene Dibromide	2022/06/07	104	60 - 140	94	60 - 130	<0.040	ug/g		
8035877	F1 (C6-C10) - BTEX	2022/06/07					<10	ug/g	NC	30
8035877	F1 (C6-C10)	2022/06/07	70	60 - 140	98	80 - 120	<10	ug/g	NC	30
8035877	Hexane	2022/06/07	107	60 - 140	98	60 - 130	<0.040	ug/g		
8035877	Methyl Ethyl Ketone (2-Butanone)	2022/06/07	116	60 - 140	99	60 - 140	<0.40	ug/g		
8035877	Methyl Isobutyl Ketone	2022/06/07	100	60 - 140	84	60 - 130	<0.40	ug/g		
8035877	Methyl t-butyl ether (MTBE)	2022/06/07	89	60 - 140	77	60 - 130	<0.040	ug/g		
8035877	Methylene Chloride(Dichloromethane)	2022/06/07	118	60 - 140	103	60 - 130	<0.049	ug/g		
8035877	o-Xylene	2022/06/07	91	60 - 140	83	60 - 130	<0.020	ug/g	NC	50
8035877	p+m-Xylene	2022/06/07	93	60 - 140	84	60 - 130	<0.020	ug/g	NC	50
8035877	Styrene	2022/06/07	100	60 - 140	90	60 - 130	<0.040	ug/g		
8035877	Tetrachloroethylene	2022/06/07	97	60 - 140	89	60 - 130	<0.040	ug/g		
8035877	Toluene	2022/06/07	96	60 - 140	87	60 - 130	<0.020	ug/g	NC	50
8035877	Total Xylenes	2022/06/07					<0.020	ug/g	NC	50
8035877	trans-1,2-Dichloroethylene	2022/06/07	109	60 - 140	95	60 - 130	<0.040	ug/g		
8035877	trans-1,3-Dichloropropene	2022/06/07	106	60 - 140	96	60 - 130	<0.040	ug/g		
8035877	Trichloroethylene	2022/06/07	104	60 - 140	91	60 - 130	<0.010	ug/g		
8035877	Trichlorofluoromethane (FREON 11)	2022/06/07	100	60 - 140	88	60 - 130	<0.040	ug/g		
8035877	Vinyl Chloride	2022/06/07	99	60 - 140	87	60 - 130	<0.019	ug/g		
8037206	Moisture	2022/06/07							2.4	20
8039319	1-Methylnaphthalene	2022/06/08	108	50 - 130	106	50 - 130	<0.0050	ug/g	NC	40
8039319	2-Methylnaphthalene	2022/06/08	100	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
8039319	Acenaphthene	2022/06/08	104	50 - 130	100	50 - 130	<0.0050	ug/g	NC	40
8039319	Acenaphthylene	2022/06/08	105	50 - 130	104	50 - 130	<0.0050	ug/g	NC	40
8039319	Anthracene	2022/06/08	108	50 - 130	107	50 - 130	<0.0050	ug/g	NC	40
8039319	Benzo(a)anthracene	2022/06/08	114	50 - 130	111	50 - 130	<0.0050	ug/g	NC	40
8039319	Benzo(a)pyrene	2022/06/08	95	50 - 130	93	50 - 130	<0.0050	ug/g	NC	40
8039319	Benzo(b,j)fluoranthene	2022/06/08	117	50 - 130	115	50 - 130	<0.0050	ug/g	NC	40
8039319	Benzo(g,h,i)perylene	2022/06/08	102	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
8039319	Benzo(k)fluoranthene	2022/06/08	105	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40



Bureau Veritas Job #: C2F3335

Report Date: 2022/06/09

QUALITY ASSURANCE REPORT(CONT'D)

Pinchin Ltd

Client Project #: 309491

Site Location: 1995 DIUNDAS ST, MISSISSAUGA

Sampler Initials: SS

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8039319	Chrysene	2022/06/08	113	50 - 130	111	50 - 130	<0.0050	ug/g	NC	40
8039319	Dibenzo(a,h)anthracene	2022/06/08	95	50 - 130	92	50 - 130	<0.0050	ug/g	NC	40
8039319	Fluoranthene	2022/06/08	111	50 - 130	108	50 - 130	<0.0050	ug/g	NC	40
8039319	Fluorene	2022/06/08	110	50 - 130	108	50 - 130	<0.0050	ug/g	NC	40
8039319	Indeno(1,2,3-cd)pyrene	2022/06/08	101	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
8039319	Naphthalene	2022/06/08	100	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
8039319	Phenanthrene	2022/06/08	110	50 - 130	103	50 - 130	<0.0050	ug/g	NC	40
8039319	Pyrene	2022/06/08	116	50 - 130	113	50 - 130	<0.0050	ug/g	NC	40
8039551	F2 (C10-C16 Hydrocarbons)	2022/06/08	102	60 - 130	100	80 - 120	<10	ug/g	NC	30
8039551	F3 (C16-C34 Hydrocarbons)	2022/06/08	NC	60 - 130	99	80 - 120	<50	ug/g	5.6	30
8039551	F4 (C34-C50 Hydrocarbons)	2022/06/08	99	60 - 130	98	80 - 120	<50	ug/g	2.8	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.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

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 $\leq 2 \times \text{RDL}$).



BUREAU
VERITAS

Bureau Veritas Job #: C2F3335
Report Date: 2022/06/09

Pinchin Ltd
Client Project #: 309491
Site Location: 1995 DIUNDAS ST, MISSISSAUGA
Sampler Initials: SS

VALIDATION SIGNATURE PAGE

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

Anastassia Hamanov, Scientific Specialist

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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Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266

CHAIN OF CUSTODY RECORD

ENV COC - 00014v3

Page 1 of 1

Invoice Information		Report Information (if differs from invoice)		Project Information	
Company:	Pinchin Ltd.	Company:	Pinchin Hel.	Quotation #:	
Contact Name:		Contact Name:	Lindsay Bell	P.O. #/ A/E#:	
Street Address:		Street Address:		Project #:	309491
City:		City:		Site #:	1995 Dundas st.
Prov:		Prov:		Site Location:	Mississauga
Postal Code:		Postal Code:		Province:	ON
Phone:		Phone:		Sampled By:	Sarah Smith
Email:		Email:	lbell@pinchin.com		
Copies:		Copies:			

Regulatory Criteria		Regular Turnaround Time (TAT)	
☒ Table 1 ☒ Table 2 ☐ Table 3 ☐ Table	☐ Res/Park ☒ Ind/Comm ☐ Agri/other	☒ 5 to 7 Day ☐ 10 Day	☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 4 Day
☐ CMCE ☐ Reg 558* ☐ min 3 day TAT ☐ MISA ☐ PWQO	☐ Reg 406, Table: ☐ Sanitary Sewer Bylaw ☐ Storm Sewer Bylaw ☐ Municipality ☐ Other:	☐ Rush Turnaround Time (TAT) Surcharges apply	
Include Criteria on Certificate of Analysis (check if yes):		☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 4 Day	

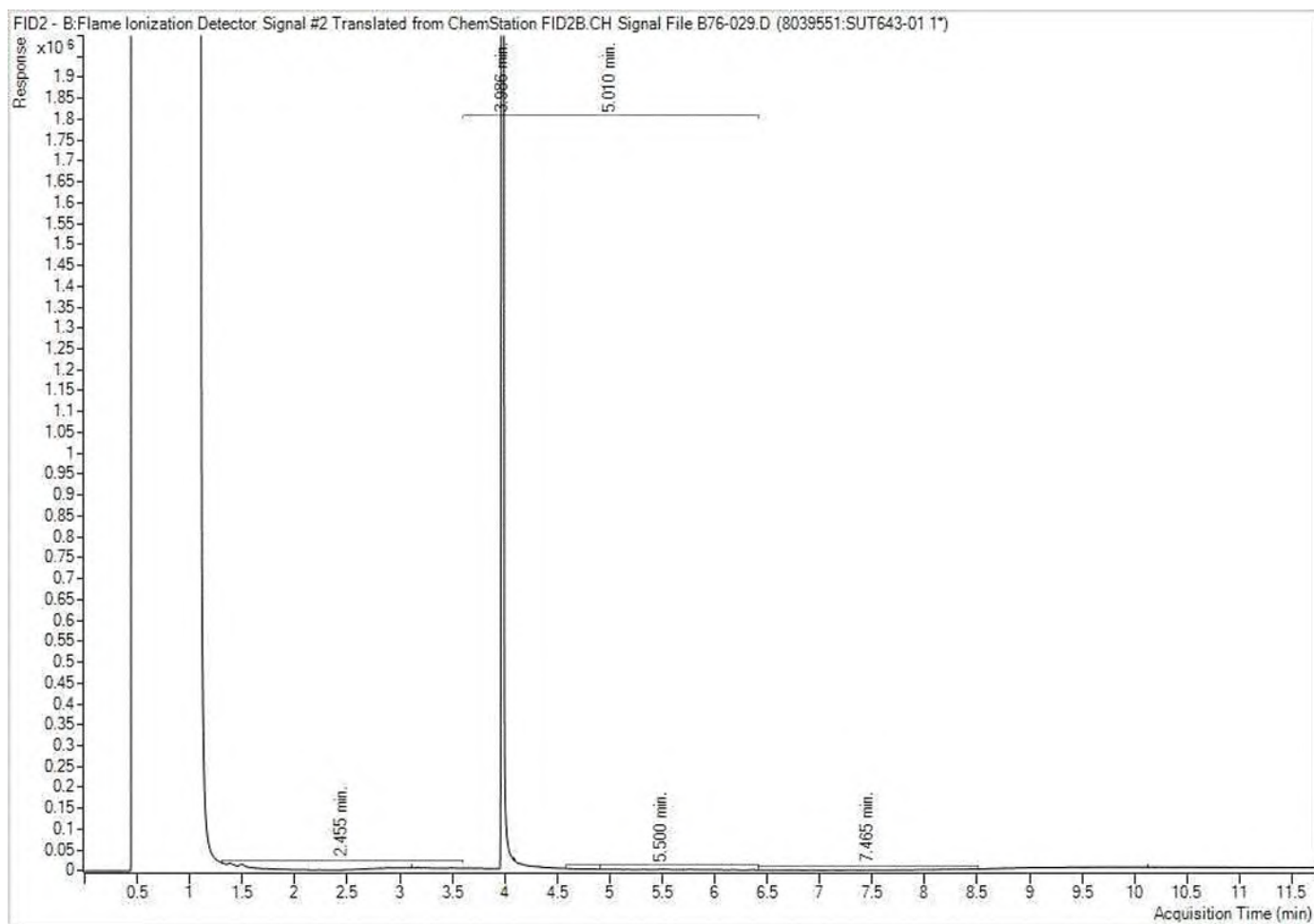
SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

Sample Identification	Date Sampled			Time (24hr)		Matrix	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	# OF CONTAINERS SUBMITTED HOLD - DO NOT ANALYZE	Comments	
	YY	MM	DD	HH	MM																										
MW3-2	22	06	04	9	40	Soil																									

*UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS AND CONDITIONS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS OR BY CALLING THE LABORATORY LISTED ABOVE TO OBTAIN A COPY

LAB USE ONLY		LAB USE ONLY		LAB USE ONLY		LAB USE ONLY	
Seal present	☒	Seal present	☐	Seal present	☐	Seal present	☐
Seal intact	☒	Seal intact	☐	Seal intact	☐	Seal intact	☐
Cooling media present	☒	Cooling media present	☐	Cooling media present	☐	Cooling media present	☐
Relinquished by: (Signature/ Print)	Sarah Smith	Received by: (Signature/ Print)	Raman Ramandee/Ka	Relinquished by: (Signature/ Print)		Received by: (Signature/ Print)	
Date	22 06 06 13 10	Date	2022 06 06 13 10	Date		Date	
Time		Time		Time		Time	
Special Instructions		Special Instructions		Special Instructions		Special Instructions	

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.



Your Project #: 309491
Your C.O.C. #: 879769-02-01

Attention: Lindsay Bell

Pinchin Ltd
2360 Meadowpine Blvd
Unit # 2
Mississauga, ON
CANADA L5N 6S2

Report Date: 2022/06/02
Report #: R7149455
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2D8436

Received: 2022/05/20, 18:50

Sample Matrix: Soil
Samples Received: 1

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Cyanide (WAD) in Leachates	1	N/A	2022/06/01	CAM SOP-00457	OMOE 3015 m
Fluoride by ISE in Leachates	1	2022/06/01	2022/06/01	CAM SOP-00449	SM 23 4500-F- C m
Total Metals in TCLP Leachate by ICPMS	1	2022/06/01	2022/06/01	CAM SOP-00447	EPA 6020B m
Nitrate& Nitrite as Nitrogen in Leachate	1	N/A	2022/06/02	CAM SOP-00440	SM 23 4500-NO3I/NO2B
PAH Compounds in Leachate by GC/MS (SIM)	1	2022/06/01	2022/06/02	CAM SOP-00318	EPA 8270D m
Polychlorinated Biphenyl in Leachate	1	2022/06/01	2022/06/02	CAM SOP-00309	EPA 8082A m
TCLP - % Solids	1	2022/05/31	2022/06/01	CAM SOP-00401	EPA 1311 Update I m
TCLP - Extraction Fluid	1	N/A	2022/06/01	CAM SOP-00401	EPA 1311 Update I m
TCLP - Initial and final pH	1	N/A	2022/06/01	CAM SOP-00401	EPA 1311 Update I m
TCLP Zero Headspace Extraction	1	2022/05/30	2022/05/31	CAM SOP-00430	EPA 1311 m
VOCs in ZHE Leachates	1	2022/05/31	2022/05/31	CAM SOP-00228	EPA 8260C 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.



Your Project #: 309491
Your C.O.C. #: 879769-02-01

Attention: Lindsay Bell

Pinchin Ltd
2360 Meadowpine Blvd
Unit # 2
Mississauga, ON
CANADA L5N 6S2

Report Date: 2022/06/02
Report #: R7149455
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2D8436

Received: 2022/05/20, 18:50

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



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

02 Jun 2022 17:13:35

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

Antonella Brasil, Senior Project Manager

Email: Antonella.Brasil@bureauveritas.com

Phone# (905)817-5817

=====

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BUREAU
VERITAS

Bureau Veritas Job #: C2D8436
Report Date: 2022/06/02

Pinchin Ltd
Client Project #: 309491
Sampler Initials: RM

O.REG 558 TCLP BENZO(A)PYRENE

Bureau Veritas ID		SRL983	SRL983			
Sampling Date		2022/05/20	2022/05/20			
COC Number		879769-02-01	879769-02-01			
	UNITS	TCLP	TCLP Lab-Dup	RDL	MDL	QC Batch
Polyaromatic Hydrocarbons						
Leachable Benzo(a)pyrene	ug/L	<0.10	<0.10	0.10	0.020	8028305
Surrogate Recovery (%)						
Leachable D10-Anthracene	%	99	99			8028305
Leachable D14-Terphenyl (FS)	%	108	106			8028305
Leachable D8-Acenaphthylene	%	103	101			8028305
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate						



BUREAU
VERITAS

Bureau Veritas Job #: C2D8436
Report Date: 2022/06/02

Pinchin Ltd
Client Project #: 309491
Sampler Initials: RM

O.REG 558 TCLP INORGANICS PACKAGE (SOIL)

Bureau Veritas ID		SRL983			
Sampling Date		2022/05/20			
COC Number		879769-02-01			
	UNITS	TCLP	RDL	MDL	QC Batch
Inorganics					
Leachable Fluoride (F-)	mg/L	0.22	0.10	0.020	8027144
Leachable WAD Cyanide (Free)	mg/L	<0.010	0.010	0.0050	8027160
Leachable Nitrite (N)	mg/L	<0.10	0.10	0.050	8027150
Leachable Nitrate (N)	mg/L	<1.0	1.0	0.20	8027150
Leachable Nitrate + Nitrite (N)	mg/L	<1.0	1.0	0.20	8027150
Metals					
Leachable Arsenic (As)	mg/L	<0.2	0.2	0.01	8027052
Leachable Barium (Ba)	mg/L	0.6	0.2	0.01	8027052
Leachable Boron (B)	mg/L	0.2	0.1	0.02	8027052
Leachable Cadmium (Cd)	mg/L	<0.05	0.05	0.0007	8027052
Leachable Chromium (Cr)	mg/L	<0.1	0.1	0.01	8027052
Leachable Lead (Pb)	mg/L	<0.1	0.1	0.001	8027052
Leachable Mercury (Hg)	mg/L	<0.001	0.001	0.0005	8027052
Leachable Selenium (Se)	mg/L	<0.1	0.1	0.01	8027052
Leachable Silver (Ag)	mg/L	<0.01	0.01	0.001	8027052
Leachable Uranium (U)	mg/L	<0.01	0.01	0.001	8027052
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



BUREAU
VERITAS

Bureau Veritas Job #: C2D8436
Report Date: 2022/06/02

Pinchin Ltd
Client Project #: 309491
Sampler Initials: RM

TCLP LEACHATE PREPARATION (SOIL)

Bureau Veritas ID		SRL983			
Sampling Date		2022/05/20			
COC Number		879769-02-01			
	UNITS	TCLP	RDL	MDL	QC Batch
Inorganics					
Final pH	pH	5.65			8027262
Initial pH	pH	9.35			8027262
TCLP - % Solids	%	100	0.2	N/A	8024741
TCLP Extraction Fluid	N/A	FLUID 2			8024776
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable					



BUREAU
VERITAS

Bureau Veritas Job #: C2D8436
Report Date: 2022/06/02

Pinchin Ltd
Client Project #: 309491
Sampler Initials: RM

O.REG 558 TCLP PCBS (SOIL)

Bureau Veritas ID		SRL983			
Sampling Date		2022/05/20			
COC Number		879769-02-01			
	UNITS	TCLP	RDL	MDL	QC Batch
PCBs					
Leachable Aroclor 1016	ug/L	<3.0	3.0	0.20	8028469
Leachable Aroclor 1221	ug/L	<3.0	3.0	0.20	8028469
Leachable Aroclor 1242	ug/L	<3.0	3.0	0.20	8028469
Leachable Aroclor 1248	ug/L	<3.0	3.0	0.20	8028469
Leachable Aroclor 1254	ug/L	<3.0	3.0	0.20	8028469
Leachable Aroclor 1260	ug/L	<3.0	3.0	0.20	8028469
Leachable Total PCB	ug/L	<3.0	3.0	0.20	8028469
Surrogate Recovery (%)					
Leachable Decachlorobiphenyl	%	87			8028469
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					

BUREAU
VERITAS

Bureau Veritas Job #: C2D8436

Report Date: 2022/06/02

Pinchin Ltd

Client Project #: 309491

Sampler Initials: RM

O.REG 558 TCLP VOCs BY HS (SOIL)

Bureau Veritas ID		SRL983			
Sampling Date		2022/05/20			
COC Number		879769-02-01			
	UNITS	TCLP	RDL	MDL	QC Batch
Charge/Prep Analysis					
Amount Extracted (Wet Weight) (g)	N/A	23	N/A	N/A	8022496
Volatile Organics					
Leachable Benzene	mg/L	<0.020	0.020	0.0020	8024287
Leachable Carbon Tetrachloride	mg/L	<0.020	0.020	0.0020	8024287
Leachable Chlorobenzene	mg/L	<0.020	0.020	0.0020	8024287
Leachable Chloroform	mg/L	<0.020	0.020	0.0020	8024287
Leachable 1,2-Dichlorobenzene	mg/L	<0.050	0.050	0.0040	8024287
Leachable 1,4-Dichlorobenzene	mg/L	<0.050	0.050	0.0040	8024287
Leachable 1,2-Dichloroethane	mg/L	<0.050	0.050	0.0040	8024287
Leachable 1,1-Dichloroethylene	mg/L	<0.020	0.020	0.0020	8024287
Leachable Methylene Chloride(Dichloromethane)	mg/L	<0.20	0.20	0.010	8024287
Leachable Methyl Ethyl Ketone (2-Butanone)	mg/L	<1.0	1.0	1.0	8024287
Leachable Tetrachloroethylene	mg/L	<0.020	0.020	0.0020	8024287
Leachable Trichloroethylene	mg/L	<0.020	0.020	0.0020	8024287
Leachable Vinyl Chloride	mg/L	<0.020	0.020	0.0040	8024287
Surrogate Recovery (%)					
Leachable 4-Bromofluorobenzene	%	94			8024287
Leachable D4-1,2-Dichloroethane	%	103			8024287
Leachable D8-Toluene	%	94			8024287
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable					



BUREAU
VERITAS

Bureau Veritas Job #: C2D8436
Report Date: 2022/06/02

Pinchin Ltd
Client Project #: 309491
Sampler Initials: RM

TEST SUMMARY

Bureau Veritas ID: SRL983
Sample ID: TCLP
Matrix: Soil

Collected: 2022/05/20
Shipped:
Received: 2022/05/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Cyanide (WAD) in Leachates	SKAL/CN	8027160	N/A	2022/06/01	Nimarta Singh
Fluoride by ISE in Leachates	ISE	8027144	2022/06/01	2022/06/01	Surinder Rai
Total Metals in TCLP Leachate by ICPMS	ICP1/MS	8027052	2022/06/01	2022/06/01	Arefa Dabhad
Nitrate& Nitrite as Nitrogen in Leachate	LACH	8027150	N/A	2022/06/02	Samuel Law
PAH Compounds in Leachate by GC/MS (SIM)	GC/MS	8028305	2022/06/01	2022/06/02	Jonghan Yoon
Polychlorinated Biphenyl in Leachate	GC/ECD	8028469	2022/06/01	2022/06/02	Svitlana Shaula
TCLP - % Solids	BAL	8024741	2022/05/31	2022/06/01	Eddie On
TCLP - Extraction Fluid		8024776	N/A	2022/06/01	Eddie On
TCLP - Initial and final pH	PH	8027262	N/A	2022/06/01	Jian (Ken) Wang
TCLP Zero Headspace Extraction		8022496	2022/05/30	2022/05/31	Mohammed Abdul Nafay Shoeb
VOCs in ZHE Leachates	GC/MS	8024287	2022/05/31	2022/05/31	Gladys Guerrero

Bureau Veritas ID: SRL983 Dup
Sample ID: TCLP
Matrix: Soil

Collected: 2022/05/20
Shipped:
Received: 2022/05/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PAH Compounds in Leachate by GC/MS (SIM)	GC/MS	8028305	2022/06/01	2022/06/02	Jonghan Yoon



BUREAU
VERITAS

Bureau Veritas Job #: C2D8436
Report Date: 2022/06/02

Pinchin Ltd
Client Project #: 309491
Sampler Initials: RM

GENERAL COMMENTS

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

Package 1	-1.3°C
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Results relate only to the items tested.

BUREAU
VERITAS

Bureau Veritas Job #: C2D8436

Report Date: 2022/06/02

QUALITY ASSURANCE REPORT

Pinchin Ltd

Client Project #: 309491

Sampler Initials: RM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		Leachate Blank	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	Value	UNITS
8024287	Leachable 4-Bromofluorobenzene	2022/05/31	102	70 - 130	102	70 - 130	96	%				
8024287	Leachable D4-1,2-Dichloroethane	2022/05/31	99	70 - 130	98	70 - 130	100	%				
8024287	Leachable D8-Toluene	2022/05/31	105	70 - 130	104	70 - 130	94	%				
8028305	Leachable D10-Anthracene	2022/06/02	118	50 - 130	115	50 - 130	98	%				
8028305	Leachable D14-Terphenyl (FS)	2022/06/02	122	50 - 130	106	50 - 130	114	%				
8028305	Leachable D8-Acenaphthylene	2022/06/02	123	50 - 130	111	50 - 130	105	%				
8028469	Leachable Decachlorobiphenyl	2022/06/01	93	30 - 130	89	30 - 130	87	%				
8024287	Leachable 1,1-Dichloroethylene	2022/05/31	97	70 - 130	100	70 - 130	<0.020	mg/L	NC	30		
8024287	Leachable 1,2-Dichlorobenzene	2022/05/31	95	70 - 130	97	70 - 130	<0.050	mg/L	NC	30		
8024287	Leachable 1,2-Dichloroethane	2022/05/31	93	70 - 130	95	70 - 130	<0.050	mg/L	NC	30		
8024287	Leachable 1,4-Dichlorobenzene	2022/05/31	110	70 - 130	113	70 - 130	<0.050	mg/L	NC	30		
8024287	Leachable Benzene	2022/05/31	90	70 - 130	93	70 - 130	<0.020	mg/L	NC	30		
8024287	Leachable Carbon Tetrachloride	2022/05/31	95	70 - 130	97	70 - 130	<0.020	mg/L	NC	30		
8024287	Leachable Chlorobenzene	2022/05/31	95	70 - 130	97	70 - 130	<0.020	mg/L	NC	30		
8024287	Leachable Chloroform	2022/05/31	94	70 - 130	96	70 - 130	<0.020	mg/L	NC	30		
8024287	Leachable Methyl Ethyl Ketone (2-Butanone)	2022/05/31	103	60 - 140	105	60 - 140	<1.0	mg/L	NC	30		
8024287	Leachable Methylene Chloride (Dichloromethane)	2022/05/31	92	70 - 130	94	70 - 130	<0.20	mg/L	NC	30		
8024287	Leachable Tetrachloroethylene	2022/05/31	89	70 - 130	91	70 - 130	<0.020	mg/L	NC	30		
8024287	Leachable Trichloroethylene	2022/05/31	99	70 - 130	102	70 - 130	<0.020	mg/L	NC	30		
8024287	Leachable Vinyl Chloride	2022/05/31	93	70 - 130	96	70 - 130	<0.020	mg/L	NC	30		
8027052	Leachable Arsenic (As)	2022/06/01	98	80 - 120	99	80 - 120	<0.2	mg/L	NC	35	<0.2	mg/L
8027052	Leachable Barium (Ba)	2022/06/01	99	80 - 120	98	80 - 120	<0.2	mg/L	4.6	35	<0.2	mg/L
8027052	Leachable Boron (B)	2022/06/01	98	80 - 120	93	80 - 120	<0.1	mg/L	5.3	35	<0.1	mg/L
8027052	Leachable Cadmium (Cd)	2022/06/01	97	80 - 120	97	80 - 120	<0.05	mg/L	NC	35	<0.05	mg/L
8027052	Leachable Chromium (Cr)	2022/06/01	91	80 - 120	93	80 - 120	<0.1	mg/L	NC	35	<0.1	mg/L
8027052	Leachable Lead (Pb)	2022/06/01	90	80 - 120	92	80 - 120	<0.1	mg/L	NC	35	<0.1	mg/L
8027052	Leachable Mercury (Hg)	2022/06/01	94	80 - 120	96	80 - 120	<0.001	mg/L	NC	35	<0.001	mg/L
8027052	Leachable Selenium (Se)	2022/06/01	100	80 - 120	101	80 - 120	<0.1	mg/L	NC	35	<0.1	mg/L
8027052	Leachable Silver (Ag)	2022/06/01	93	80 - 120	92	80 - 120	<0.01	mg/L	NC	35	<0.01	mg/L
8027052	Leachable Uranium (U)	2022/06/01	90	80 - 120	89	80 - 120	<0.01	mg/L	NC	35	<0.01	mg/L



BUREAU
VERITAS

Bureau Veritas Job #: C2D8436
Report Date: 2022/06/02

QUALITY ASSURANCE REPORT(CONT'D)

Pinchin Ltd
Client Project #: 309491
Sampler Initials: RM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		Leachate Blank	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	Value	UNITS
8027144	Leachable Fluoride (F-)	2022/06/01	82	80 - 120	103	80 - 120	<0.10	mg/L	3.8	25	<0.10	mg/L
8027150	Leachable Nitrate (N)	2022/06/02	84	80 - 120	96	80 - 120	<1.0	mg/L	NC	25	<1.0	mg/L
8027150	Leachable Nitrate + Nitrite (N)	2022/06/02	86	80 - 120	96	80 - 120	<1.0	mg/L	NC	25	<1.0	mg/L
8027150	Leachable Nitrite (N)	2022/06/02	94	80 - 120	97	80 - 120	<0.10	mg/L	NC	25	<0.10	mg/L
8027160	Leachable WAD Cyanide (Free)	2022/06/01	84	80 - 120	94	80 - 120	<0.0020	mg/L	NC	20	<0.010	mg/L
8028305	Leachable Benzo(a)pyrene	2022/06/02	104	50 - 130	95	50 - 130	<0.10	ug/L	NC	40		
8028469	Leachable Aroclor 1016	2022/06/01					<3.0	ug/L				
8028469	Leachable Aroclor 1221	2022/06/01					<3.0	ug/L				
8028469	Leachable Aroclor 1242	2022/06/01					<3.0	ug/L				
8028469	Leachable Aroclor 1248	2022/06/01					<3.0	ug/L				
8028469	Leachable Aroclor 1254	2022/06/01					<3.0	ug/L				
8028469	Leachable Aroclor 1260	2022/06/01	99	30 - 130	99	30 - 130	<3.0	ug/L				
8028469	Leachable Total PCB	2022/06/02	99	30 - 130	99	30 - 130	<3.0	ug/L	NC	40		

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.

Leachate Blank: A blank matrix containing all reagents used in the leaching procedure. Used to determine any process contamination.

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.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

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 $\leq 2 \times \text{RDL}$).



BUREAU
VERITAS

Bureau Veritas Job #: C2D8436
Report Date: 2022/06/02

Pinchin Ltd
Client Project #: 309491
Sampler Initials: RM

VALIDATION SIGNATURE PAGE

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

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

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.



INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#3103 Pinchin Ltd	Company Name:		Quotation #:	C20345	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Lindsay Bell	P.O. #:			
Address:	2360 Meadowpine Blvd Unit # 2	Address:		Project:	309491		
	Mississauga ON L5N 6S2			Project Name:		COC #:	Project Manager:
Tel:	(905) 363-0678	Tel:	(905) 363-0678 Ext: 1339	Site #:			
Email:	ap@pinchin.com	Email:	lbell@pinchin.com	Sampled By:			

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY				ANALYSIS REQUESTED (PLEASE BE SPECIFIC)				Turnaround Time (TAT) Required:			
Regulation 153 (2011)				Other Regulations				Special Instructions			
☐ Table 1	☐ Res/Park	☐ Medium/Fine	☐ CCME	☐ Sanitary Sewer Bylaw	Not for RSC			Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Clostridia/Furans are > 5 days - contact your Project Manager for details. Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)			
☐ Table 2	☐ Ind/Comm	☐ Coarse	☐ Reg 558	☐ Storm Sewer Bylaw							
☐ Table 3	☐ Agri/Other	☐ For RSC	☐ MISA	☐ Municipality							
☐ Table			☐ PWQO	☐ Reg 406 Table							
Include Criteria on Certificate of Analysis (Y/N)?				Field Filtered (please circle):				Comments			
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals / Hg / Cr VI	TCLP Pb	TCLP Inorganic As	TCLP BLOWP	TCLP PCV	# of Bottles	
1	TCLP					✓	✓	✓	✓	7	
2											
3											
4											
5											
6											
7											
8											
9											
10											

* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# Jars used and not submitted	Laboratory Use Only	
R. Manickas Rishi Manickas		22/05/2018	6:40 PM	C. Manickas, VTDH		22/05/2018	18:50		Time Sensitive	Temperature (°C) on Receipt
										-11-21-1
									Custody Seal Present	Intact
									Yes	No
									White: Bureau Veritas	Yellow: Client

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS.