FINAL

Phase Two Environmental Site Assessment

949, 949A, 949B, 951, 951A, 953, 955B, 957C and 971 Gladstone Avenue and 145 and 155 Loretta Avenue North,
Ottawa, Ontario

Prepared for:

TIP Gladstone Limited Partnership by its General Partner TIP Gladstone GP Inc. c/o CLV Group Developments 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 TIP Gladstone Limited Partnership by its General Partner TIP Gladstone GP Inc. c/o CLV Group Developments Inc. (Client) to conduct a Phase Two Environmental Site Assessment (ESA) of the property located at 949, 949A, 949B, 951, 951A, 953, 955B, 957C and 971 Gladstone Avenue and 145 and 155 Loretta Avenue North, in Ottawa, Ontario (hereafter referred to as the Phase Two Property or Site).

The Phase Two Property is approximately 1.1 hectares (2.6 acre) in size and is located on the northeast corner of the intersection of Gladstone Avenue and Loretta Avenue North in Ottawa, Ontario. The Phase Two Property is occupied by a multi-level commercial building (951 Gladstone Avenue) (Site Building A) and a three-storey commercial building equipped with one level of underground parking (145 Loretta Avenue North) (Site Building B). The Site Buildings are currently utilized for multi-tenant commercial purposes.

The Phase Two ESA was conducted at the request of the Client in relation to the future redevelopment of the Phase Two Property from commercial to mixed residential/commercial land use. A Record of Site Condition (RSC) submittal to the Ontario Ministry of Environment, Conservation and Parks (MECP) is a mandatory requirement when a land use changes to a more sensitive land use and as such, to support the RSC submission, the Phase Two ESA was conducted in accordance with the Province of Ontario's *Ontario Regulation 153/04: Records of Site Condition – Part XV.1 of the Act*, which was last amended by Ontario Regulation 274/20 on July 1, 2020 (O. Reg. 153/04).

The objectives of this Phase Two ESA were to assess the soil and groundwater quality in relation to 17 areas of potential environmental concern (APECs) and related potentially contaminating activities (PCAs) and contaminants of potential concern (COPCs) identified in an Update Phase One ESA completed by Pinchin in accordance with O. Reg. 153/04. The identified APECs, PCAs and COPCs are summarized in Table 1. The Phase Two ESA was completed by Pinchin between April 2021 and November 2021 and consisted of the following:

- Initial investigation of the APECs.
- Lateral and vertical delineation of soil and groundwater impacts identified during the initial APECs investigation.
- Additional sampling and data gathering to support the completion of a Risk Assessment (RA).

The Phase Two ESA was completed at the Site by Pinchin consisted of the advancement of 27 boreholes, 17 of which were completed as groundwater monitoring wells.

Select “worst case” soil samples collected during the borehole drilling program were submitted for laboratory analysis of volatile organic compounds (VOCs), petroleum hydrocarbons (PHCs) fractions 1 through 4 (F1-F4), polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), metals and/or inorganic parameters. Groundwater samples collected from the newly installed and one previously installed monitoring well were submitted for laboratory analysis of VOCs, PHCs, PAHs and metals and/or inorganic parameters.

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 residential/parkland/ institutional land use and coarse-textured soil.

The reported concentrations of PHCs (F1-F4), VOCs, PAHs, PCBs and/or metals/inorganic parameters in the soil samples submitted for analysis met the *Table 3 Standards*, with the following exceptions:

- Soil samples submitted for analysis from boreholes across the Phase Two Property (BH2017-1, BH2017-5, BH2017-7, BH2017-11, BH2017-13, BH2-20, BH3-20, BH4-20, BH101, BH102, BH104, BH105, BH107, BH108, BH110, BH111, BH112, BH113, BH115, BH122, BH124 and BH126) by Pinchin and others had concentrations of one or more PHC (F1-F4), VOC, PAHs, and/or metals/inorganic parameters exceeding their respective *Table 3 Standards.* The reported concentrations in the soil samples submitted for analysis of PHC (F1-F4), VOC, PAHs, PCBs and/or metals/inorganic from the remaining boreholes satisfied their respective *Table 3 Standards.*

The reported concentrations in the groundwater samples submitted for analysis of PHCs (F1-F4), VOCs, PAHs and metals and/or inorganic parameters satisfied their respective *Table 3 Standards,* with the following exceptions:

- Groundwater samples submitted for analysis from newly installed and previously installed monitoring wells across the Phase Two Property (BH2017-2, BH2017-5, BH2017-9, BH1-20, BH2-20, BH4-20, BHMW3, BHMW108, BHMW110, BHMW115, BHMW116, BHMW119, BHMW120, BHMW122 and BHMW124) by Pinchin and others had concentrations of one or more PHC (F1-F4), VOCs and chloride exceeding their respective *Table 3 Standards*. The reported concentrations in the soil samples submitted for analysis of PHC (F1-F4), VOC, PAHs, PCBs and/or metals/inorganic from the remaining boreholes satisfied their respective *Table 3 Standards.*

With respect to the identified soil and groundwater parameter exceedances summarized above, all soil and groundwater impacts have been delineated both laterally and vertically on-Site. It is Pinchin's opinion that the majority of the soil impacts will be removed during Site redevelopment, and the remaining soil and groundwater impacts will be addressed through a Tier 3 Risk Assessment before an RSC can be filed by the Qualified Person for the Phase Two Property.

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 TIP Gladstone Limited Partnership by its General Partner TIP Gladstone GP Inc. c/o CLV Group Developments Inc. (Client) to conduct a Phase Two Environmental Site Assessment (ESA) of the property located at 949, 949A, 949B, 951, 951A, 953, 955B, 957C and 971 Gladstone Avenue and 145 and 155 Loretta Avenue North, in Ottawa, Ontario (hereafter referred to as the Phase Two Property or Site).

The Phase Two Property is approximately 1.1 hectares (2.6 acre) in size and is located on the northeast corner of the intersection of Gladstone Avenue and Loretta Avenue North in Ottawa, Ontario. The Phase Two Property is occupied by a multi-level commercial building (951 Gladstone Avenue) (Site Building A) and a three-storey commercial building equipped with one level of underground parking (145 Loretta Avenue North) (Site Building B). The Site Buildings are currently utilized for multi-tenant commercial purposes.

The Phase Two ESA was conducted at the request of the Client in relation to the future redevelopment of the Phase Two Property from commercial to mixed residential/commercial land use. A Record of Site Condition (RSC) submittal to the Ontario Ministry of Environment, Conservation and Parks (MECP) is a mandatory requirement when a land use changes to a more sensitive land use and as such, to support the RSC submission, the Phase Two ESA was conducted in accordance with the Province of Ontario's *Ontario Regulation 153/04: Records of Site Condition – Part XV.1 of the Act*, which was last amended by Ontario Regulation 274/20 on July 1, 2020 (O. Reg. 153/04).

1.1 Background

Pinchin completed a Phase One ESA of the Site for the Client, the findings of which were provided in the update report entitled "*Phase One Environmental Site Assessment Update, 949, 949A, 949B, 951, 951A, 953, 955B, 957C and 971 Gladstone Avenue and 145 and 155 Loretta Avenue North, Ottawa, Ontario*", dated September 8, 2021. The results of the Phase One ESA Update completed by Pinchin identified the 17 areas of potential environmental concern (APECs) and related potentially contaminating activities (PCAs) and contaminants of potential concern (COPCs). The identified APECs, PCAs and COPCs are summarized in Table 1 and outlined in Section 1.3 below.

1.2 Scope of Work

The scope of work completed by Pinchin, as outlined in the Pinchin proposal entitled "*Proposal for Environmental Site Assessment Risk Assessment and Record of Site Condition, 951 Gladstone Avenue and 145 Loretta Avenue North, Ottawa, Ontario*" submitted to the Client on April 6, 2021, included the following:

- Advancement of eight to twelve boreholes following the clearance of underground services, select holes of which were instrumented with a monitoring well;
- Submission of select "worst case" soil samples for laboratory analysis of volatile organic compounds (VOCs), petroleum hydrocarbons (PHCs) fractions 1 through 4 (F1-F4), polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), metals and/or inorganic parameters;
- Collection of groundwater samples from each of the newly installed monitoring wells and previously installed monitoring wells, following well development and purging, for laboratory analysis of VOCs, PHCs (F1-F4), PAHs and metals and/or inorganic parameters;
- 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 Two ESA and recommendations.

Additional boreholes and monitoring wells were completed by Pinchin as a result of the findings of the Phase One ESA Site inspection and historical information gathered during Pinchin's records review as part of the Phase One ESA Update.

1.3 Areas of Potential Environmental Concern and Potential Contaminants of Concern

The table below summarises the APECs and potential contaminants of concern (PCOCs) that were investigated during the Phase Two ESA.

Area of Potential Environmental Concern[1]	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity[2]	Location of PCA (On-Site or Off-Site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Groundwater, Soil and/or Sediment)
APEC-1 (Fill of unknown quality)	Entire Phase One Property	Item 30 - Importation of Fill Material of Unknown Quality	On-Site	Metals PHCs PAHs	Soil and Groundwater
APEC-2 (Fuel ASTs)	Northeast portion of Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	BTEX PHCs	Soil and Groundwater
APEC-3 (Former On-Site RFO)	Southwest portion of Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	VOCs PHCs PAHs Metals	Soil and Groundwater
APEC-4 (Former On-Site UST)	West-central portion of the Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	BTEX PHCs	Soil and Groundwater
APEC-5 (Former On-Site AST)	Southeast portion of the Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	BTEX PHCs	Soil and Groundwater

APEC-6 (Former Automotive Service Garage)	Central Portion of Phase One Property	Item 27 - Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation	On-Site	VOCs PHCs PAHs	Soil and Groundwater
APEC-7 (Former Printing Facility)	Southeast Portion of Phase One Property	Item 31 - Ink Manufacturing, Processing and Bulk Storage	On-Site	VOCs PHCs PAHs Metals	Soil and Groundwater
APEC-8 (Former Rail Spur)	Southeast Portion of Phase One Property	Item 46 - Rail Yards, Tracks and Spurs	On-Site	BTEX PHCs PAHs Metals	Soil and Groundwater
APEC-9 (Off-Site UST)	North Portion of the Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	BTEX PHCs	Soil and Groundwater
APEC-10 (Off-Site Rail Tracks)	East Portion of Phase One Property	Item 46 - Rail Yards, Tracks and Spurs	Off-Site	BTEX PHCs PAHs Metals	Soil and Groundwater
APEC-11 (Former Off-Site Ordnance Depot)	East Portion of Phase One Property	Item 38 - Ordnance Use	Off-Site	VOCs PHCs PAHs	Soil and Groundwater
APEC-12 (Off-Site Private Fuel Outlet)	Southeast Portion of Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	VOCs PHCs Metals	Soil and Groundwater
APEC-13 (Off-Site Printing Facility)	West Portion of Phase One Property	Item 31 - Ink Manufacturing, Processing and Bulk Storage	Off-Site	VOCs PHCs PAHs Metals	Soil and Groundwater

APEC-14 (Pad Mounted Transformer)	Central West Portion of Phase One Property	Item 55 - Transformer Manufacturing, Processing and Use	On-Site	PHCs PCBs	Soil
APEC-15 (Former On-Site UST)	Northwest of Site Building B	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	BTEX PHCs	Soil and Groundwater
APEC-16 (On-Site Salt Storage)	Northeast Portion of Phase One Property	Item 48 - Salt Manufacturing, Processing and Bulk Storage	On-Site	EC SAR Sodium Chloride	Soil and Groundwater
APEC-17 (Current/Former On-Site UST)	Northeast of Site Building A	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	BTEX PHCs	Soil and Groundwater

2.0 METHODOLOGY

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

In addition, Pinchin's SOP for groundwater sampling using low-flow purging and sampling procedures follows the United States Environmental Protection Agency Region I document entitled *"Low Stress (Low Flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells"* dated January 19, 2010 (Low Flow Sampling Protocol).

2.1 Borehole Investigation

Pinchin retained Strata Drilling Group (Strata) to complete the borehole drilling program at the Site on dates between April 2021 and October 2021 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 20.73 metres below ground surface (mbgs) at BHMW111 using a Geoprobe 7822D™ and Geomachine GM100™ drill rig equipped with air-rotary hammer. Soil samples were collected at continuous intervals using 3.8 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 an (RKI Eagle 2).

The locations of the boreholes are shown on Figure 5 and a description of the subsurface stratigraphy encountered during the drilling program is documented in the borehole logs included in Appendix II.

2.2 Monitoring Well Installation

Groundwater monitoring wells were installed in boreholes BHMW108, BHMW109, BHMW110, BHMW111, BHMW112, BHMW114, BHMW115, BHMW116, BHMW117, BHMW118, BHMW119, BHMW120, BHMW122, BHMW123, BHMW124, BHMW125, and BHMW127 to enable groundwater monitoring and sampling. The monitoring wells were constructed with 5.2 cm inner diameter (ID) flush-threaded Schedule 40 polyvinyl chloride (PVC) risers, followed by a length of 5.2 cm ID No. 10 slot PVC screen that intersected the water table.

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 Schedule 40 PVC outer casing, approximately 15 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 5. The monitoring well construction details are shown on the borehole logs included in Appendix II.

2.3 Groundwater Monitoring Data

The water levels within the monitoring wells were measured on various dates between April and October 2021 using an interface probe. Presence/absence of non-aqueous phase liquid (NAPL) was also assessed during groundwater monitoring using the interface probe, water level tape and/or dedicated bailers. The water level information obtained during groundwater monitoring is presented in Table 5 and on the borehole logs in Appendix II.

2.4 Elevation Surveying

On June 29, 2021, Annis, O'Sullivan, Vollebekk (AOV), an OLS, surveyed the horizontal positioning and the vertical elevation of each of the on-Site monitoring wells' locations relative to the elevation of a local geodetic benchmark. The geodetic elevations were derived by AOV from GPS observations and are referred to the CGVD28 geodetic datum. This geodetic reference was used to establish a local survey benchmark, which was the top spindle of a fire hydrant located on the southeast portion of the Phase Two Property boundary (referenced at 65.35 mamsl).

A summary of the well elevation survey data is provided in Table 6. A plan of survey of the Phase Two Property showing the locations and elevations of each monitoring well and borehole, as provided by AOV, is attached.

2.5 Sampling and Laboratory Analysis

2.5.1 Soil

Most apparent "worst case" soil samples, based on vapour concentrations as well as visual and/or olfactory considerations recovered from each borehole were submitted for laboratory analysis of PHCs (F1-F4), VOCs, PCBs, PAHs and/or metals/inorganics. In addition, additional soil samples were collected to provide vertical delineation where applicable.

Furthermore, 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*).

The borehole locations are shown on Figure 5.

2.5.2 Groundwater

Newly installed groundwater monitoring wells BHMW108, BHMW109, BHMW110, BHMW111, BHMW112, BHMW114, BHMW115, BHMW116, BHMW117, BHMW118, BHMW119, BHMW120, BHMW122, BHMW123, BHMW124, BHMW125, and BHMW127 and monitoring wells previously installed by others were developed by removing three to five well casing volumes, or were purged until dry, in accordance with Pinchin's SOPs.

The newly installed and previously installed groundwater monitoring wells were purged and sampled using Pinchin's SOPs for low flow groundwater sampling and the groundwater samples collected from these monitoring wells were submitted for laboratory analysis of PHCs (F1-F4), VOCs, PAHs and metals/inorganics.

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) was conducted using a peristaltic pump and dedicated polyethylene tubing or Geotech™ submersible bladder pump and Geotech™ controller powered by a 12-Volt battery. Sampling for VOCs, and PHCs (F1) was then conducted using dedicated inertial pumps or Geotech™ submersible bladder pump and Geotech™ controller powered by a 12-Volt battery. A Horiba Water Quality Meter connected to a flow-through cell was used to monitor water quality parameters during groundwater purging to assess whether water quality parameter stabilization was achieved prior to sample collection. The flow rate of the bladder pump was adjusted to minimize drawdown of the water table and the introduction of sediment into the samples. Samples collected for metals analysis were filtered in the field using dedicated 0.45-micron in-line filters prior to preservation.

The monitoring well locations are shown on Figure 5.

2.5.3 Sediment

Sediment sampling was not completed as part of this Phase Two ESA.

2.5.4 Analytical Laboratory

All collected soil and groundwater samples were delivered to Bureau Veritas Laboratories (BV Labs) for analysis. BV Labs is an independent laboratory accredited by the Canadian Association for Laboratory Accreditation. Formal chain of custody records of the sample submissions was maintained between Pinchin and the staff at BV Labs. BV Labs conducted the laboratory analysis in accordance with the MECP document entitled *"Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act"* dated March 9, 2004, and revised on July 1, 2011 (*Analytical Protocol)*.

2.6 QA/QC Protocols

Various quality assurance/quality control (QA/QC) protocols were followed during the Phase Two 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 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 Two ESAs.

2.6.1 Field Duplicate Samples

A total of five field duplicate soil samples were collected by Pinchin during the Phase Two ESA for analysis of one or more of the COPCs. The frequency of field duplicate soil sample analysis complied with the requirement that one field duplicate soil sample is analyzed for every ten regular soil samples submitted for analysis of the COPCs.

Four field duplicate groundwater samples were collected by Pinchin during the Phase Two ESA for analysis of the COPCs. The frequency of field duplicate groundwater sample analysis complied with the requirement that one field duplicate groundwater sample is analyzed for every ten regular groundwater samples submitted for analysis of the COPCs.

Laboratory-prepared trip blanks were analyzed for PHC F1 and VOC parameters to comply with the requirement that one trip blank is analyzed for each submission of groundwater samples for VOC parameter analysis.

The calibrations of the RKI Eagle™ 2 used for field screening and the Horiba Water Quality Meter used for water quality parameter measurements were checked by the equipment supplier (Maxim) prior to use in the field by Pinchin.

Maxim completed calibration checks in accordance with the equipment manufacturers' specifications and/or Maxims SOPs.

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 Phase Two Property is currently a commercial property located within the City of Ottawa and the proposed future land use is residential/commercial. It is Pinchin's understanding that drinking water for the Phase Two Property and surrounding properties within 250 metres of the Phase Two Property is supplied by the City of Ottawa, and there are no known drinking water supply wells within 250 metres of the Phase Two Property. Source water is obtained by the City of Ottawa from the Ottawa River.

The Phase Two Property does not contain a water body nor is it located within 30 metres of a water body and the use of standards for properties situated within 30 metres of a water body is not required.

Section 41 of O. Reg. 153/04 states that a property is classified as an "environmentally sensitive area" if the pH of the surface soil (less than or equal to 1.5 mbgs) is less than 5 or greater than 9, if the pH of the subsurface soil (greater than 1.5 mbgs) is less than 5 or greater than 11, or if the property is an area of natural significance or is adjacent to or contains land within 30 metres of an area of natural significance. A total of 10 representative soil samples collected from the boreholes advanced at the Phase Two Property. The pH analytical results are summarized in Table 2. The pH values measured in the submitted soil samples were within the limits for non-sensitive sites. The Phase Two Property 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 Phase Two Property is not an environmentally sensitive area.

Based on the results of grain size analysis completed on representative soil samples collected during the Phase Two ESA and the observed stratigraphy at the borehole locations at the Phase Two Property, it is the QP's opinion that over two-thirds of the overburden at the Phase Two Property is coarse-textured as defined by O. Reg. 153/04. Therefore, the soil at the Phase Two Property has been considered coarse-textured for the purpose of establishing the applicable MECP Site Condition Standards.

Based on the above, the appropriate Site Condition Standards for the Phase Two Property are the Table 3 Standards for:

- Coarse-textured soils; and
- Residential/parkland/institutional property use.

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

3.0 RESULTS

3.1 Site Geology and Hydrogeology

Based on the soil samples recovered during the borehole drilling program, the soil stratigraphy at the drilling locations below the grassed, gravel, concrete or asphalt surfaces generally consists of fill material comprised of sand and gravel underlain by silty clay, or silty clay and trace gravels to a maximum depth of approximately 7.62 mbgs where a limestone/shale bedrock formation was encountered at varying depths across the Site. Maximum borehole depth was 20.73 mbgs at BHMW111 advanced approximately 14.33 m into the limestone/shale bedrock encountered at the Phase Two Property.

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 5.

3.2 Groundwater Elevations and Flow Direction

The wells screens in each monitoring well installed by Pinchin were of an inconsistent length (i.e., between 1.52 and 3.05 metres). Given that PHCs were a COPC for groundwater at the Phase Two Property the shallow overburden monitoring wells were installed at the Phase Two Property such that the well screens intersected the water table.

The surveyed ground surface elevations adjacent to each well and measured distance between the ground surface elevations and tops of the well riser pipes. The measured depths to groundwater and calculated groundwater elevation measurements, and the results of NAPL monitoring for all monitoring events are summarized in Tables 5 and 6, respectively.

All depth to groundwater measurements in each of the on-Site groundwater monitoring wells were used to calculate the groundwater elevation contours. The calculated groundwater surface elevation contours indicate that groundwater flow across the Phase Two Property is generally to the north in both the unconfined and confined aquifer.

3.3 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 0.0 parts per million by volume (ppm_v) to a maximum of >2,000 ppm_v in soil sample SS-6 collected at borehole BHMW111.

3.4 Field Observations

No odours or staining were observed in the soil samples collected during the borehole drilling program, with the exception of soil samples collected at several boreholes on the south portion of the Phase Two Property, select boreholes on the north-central portion of the Phase Two Property, as well as BH101 and BH122 at varying depths which exhibited PHC-like/odours. In addition, several boreholes across the Phase Two Property were noted to have shallow fill materials at varying depths from ground surface.

No odours or evidence of NAPL were observed during groundwater monitoring and sampling, with the exception of groundwater monitoring well BHMW108 and monitoring wells installed by others including BHMW3, which exhibited PHC-like/VOC-like odours.

3.5 Analytical

3.5.1 Soil

As indicated in Table 2, reported concentrations of PHC (F1-F4), VOCs, PAHs, PCBs and/or metals/inorganics in the soil samples submitted for analysis met the *Table 3 Standards*, with the following exceptions:

- Soil samples submitted for analysis from boreholes across the Phase Two Property (BH2017-1, BH2017-5, BH2017-7, BH2017-11, BH2017-13, BH2-20, BH3-20, BH4-20, BH101, BH102, BH104, BH105, BH107, BH108, BH110, BH111, BH112, BH113, BH115, BH122, BH124 and BH126) by Pinchin and others had concentrations of one or more PHC (F1-F4), VOC, PAHs, and/or metals/inorganic parameters exceeding their respective *Table 3 Standards.* The reported concentrations in the soil samples submitted for analysis of PHC (F1-F4), VOC, PAHs, PCBs and/or metals/inorganic from the remaining boreholes satisfied their respective *Table 3 Standards.*

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

3.5.2 Groundwater

As indicated in Table 7, reported concentrations of PHC (F1-F4), VOCs, PAHs and/or metals/inorganics in the groundwater samples submitted for analysis met the *Table 3 Standards*, with the following exceptions:

- Groundwater samples submitted for analysis from newly installed and previously installed monitoring wells across the Phase Two Property (BH2017-2, BH2017-5, BH2017-9, BH1-20, BH2-20, BH4-20, BHMW3, BHMW108, BHMW110, BHMW115, BHMW116, BHMW119, BHMW120, BHMW122 and BHMW124) by Pinchin and others had concentrations of one or more PHC (F1-F4), VOCs and chloride exceeding their respective *Table 3 Standards*. The reported concentrations in the soil samples submitted for analysis of PHC (F1-F4), VOC, PAHs, PCBs and/or metals/inorganic from the remaining boreholes satisfied their respective *Table 3 Standards.*

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 Two ESA:

- Pinchin retained Strata to advance a total of 27 boreholes at the Site between April and October 2021. The boreholes were advanced to a maximum depth of 20.73 mbgs using a Geoprobe 7822D™ and Geomachine GM100™ drill rig equipped with air-rotary hammer. 17 boreholes were instrumented with a monitoring to enable groundwater monitoring and sampling at the Site. Three boreholes were advanced into the limestone/shale bedrock at the Site to facilitate vertical groundwater delineation;
- Based on Site-specific information, the soil and groundwater quality was assessed based on the *Table 3 Standards* for residential/parkland/institutional property use and coarse-textured soil;
- The reported concentrations of PHCs (F1-F4), VOCs, PAHs, PCBs and/or metals/inorganic parameters in the soil samples submitted for analysis met the *Table 3 Standards*, with the following exceptions:
  - Soil samples submitted for analysis from boreholes across the Phase Two Property (BH2017-1, BH2017-5, BH2017-7, BH2017-11, BH2017-13, BH2-20, BH3-20, BH4-20, BH101, BH102, BH104, BH105, BH107, BH108, BH110, BH111, BH112, BH113, BH115, BH122, BH124 and BH126) by Pinchin and

others had concentrations of one or more PHC (F1-F4), VOC, PAHs, and/or metals/inorganic parameters exceeding their respective *Table 3 Standards.* The reported concentrations in the soil samples submitted for analysis of PHC (F1-F4), VOC, PAHs, PCBs and/or metals/inorganic from the remaining boreholes satisfied their respective *Table 3 Standards*.

- The reported concentrations in the groundwater samples submitted for analysis of PHCs (F1-F4), VOCs, and PAHs satisfied their respective *Table 3 Standards,* with the following exceptions:
  - Groundwater samples submitted for analysis from newly installed and previously installed monitoring wells across the Phase Two Property (BH2017-2, BH2017-5, BH2017-9, BH1-20, BH2-20, BH4-20, BHMW3, BHMW108, BHMW110, BHMW115, BHMW116, BHMW119, BHMW120, BHMW122 and BHMW124) by Pinchin and others had concentrations of one or more PHC (F1-F4), VOCs and chloride exceeding their respective Table 3 Standards. The reported concentrations in the soil samples submitted for analysis of PHC (F1-F4), VOC, PAHs, PCBs and/or metals/inorganic from the remaining boreholes satisfied their respective Table 3 Standards.

With respect to the identified soil and groundwater parameter exceedances summarized above, all soil and groundwater impacts have been delineated both laterally and vertically on-Site. It is Pinchin's opinion that the majority of the soil impacts will be removed during Site redevelopment, and the remaining soil and groundwater impacts will be addressed through a Tier 3 Risk Assessment before an RSC can be filed by the Qualified Person for the Phase Two Property.

This Phase Two ESA was undertaken under the supervision of Scott Mather, P.Eng., QP_{ESA} in accordance with the requirements of O. Reg. 153/04 to support the filing of an RSC for the Phase Two Property.

5.0 TERMS AND LIMITATIONS

This Phase Two ESA was performed for TIP Gladstone Limited Partnership by its General Partner TIP Gladstone GP Inc. c/o CLV Group Developments Inc. (Client) in order to investigate potential environmental impacts at 949, 949A, 949B, 951, 951A, 953, 955B, 957C and 971 Gladstone Avenue and 145 and 155 Loretta Avenue North, in Ottawa, Ontario (Site). The term recognized environmental condition means the presence or likely presence of any hazardous substance on a property under conditions that indicate an existing release, past release, or a material threat of a release of a hazardous substance into structures on the property or into the ground, groundwater, or surface water of the

property. This Phase Two ESA does not quantify the extent of the current and/or recognized environmental condition 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 recognized environmental conditions on a property. Performance of this Phase Two ESA to the standards established by Pinchin is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions on the Site, and recognizes reasonable limits on time and cost.

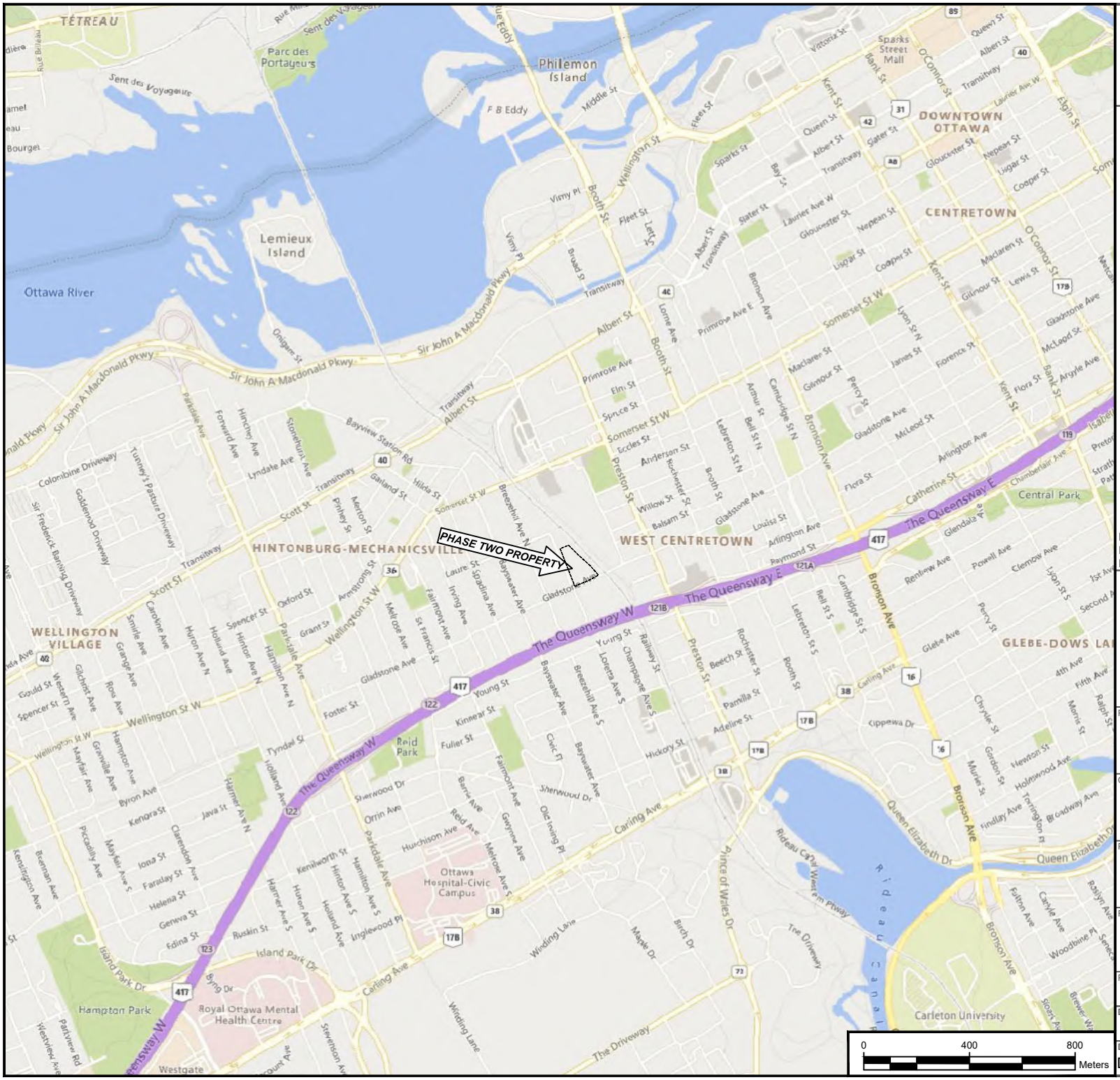
This Phase Two ESA was performed in general compliance with currently acceptable practices for environmental site investigations, and specific Client requests, as applicable to this Site.

This report was prepared for the exclusive use of the Client, 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.

APPENDIX I
Figures



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

PINCHIN

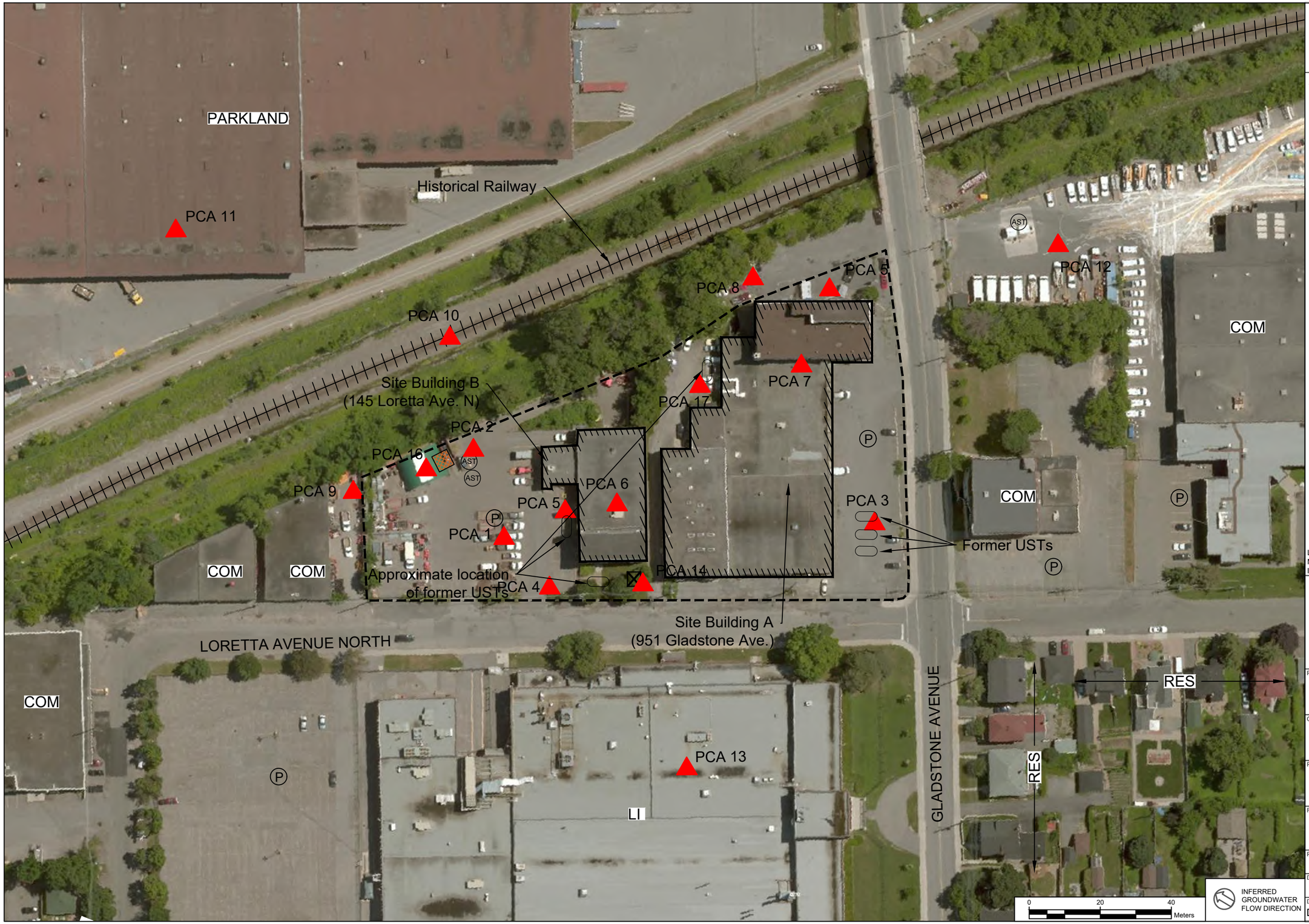
PROJECT NAME:
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME:
TIP GLADSTONE LIMITED PARTNERSHIP

PROJECT LOCATION:
951 GLADSTONE AVENUE AND 145 LORETTA AVENUE NORTH, OTTAWA, ONTARIO

FIGURE NAME:
KEY MAP

PROJECT NUMBER:	SCALE:
285722.003	AS SHOWN
DRAWN BY: DM	REVIEWED BY: CT
DATE: DECEMBER 2021	FIGURE NUMBER: 1



LEGEND

- PHASE ONE PROPERTY BOUNDARY
- SITE BUILDING
- RES RESIDENTIAL
- COM COMMERCIAL
- MTC MULTI-TENANT COMMERCIAL
- LI LIGHT-INDUSTRIAL
- AST ABOVEGROUND STORAGE TANK
- UST UNDERGROUND STORAGE TANK
- (P) PARKING
- HISTORIC RAILWAY LINE
- SALT STORAGE
- TRANSFORMER
- (UST) FORMER UNDERGROUND STORAGE TANK
- POTENTIAL CONTAMINATING ACTIVITY (PCA) (REG 154 ITEM #)

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PINCHIN

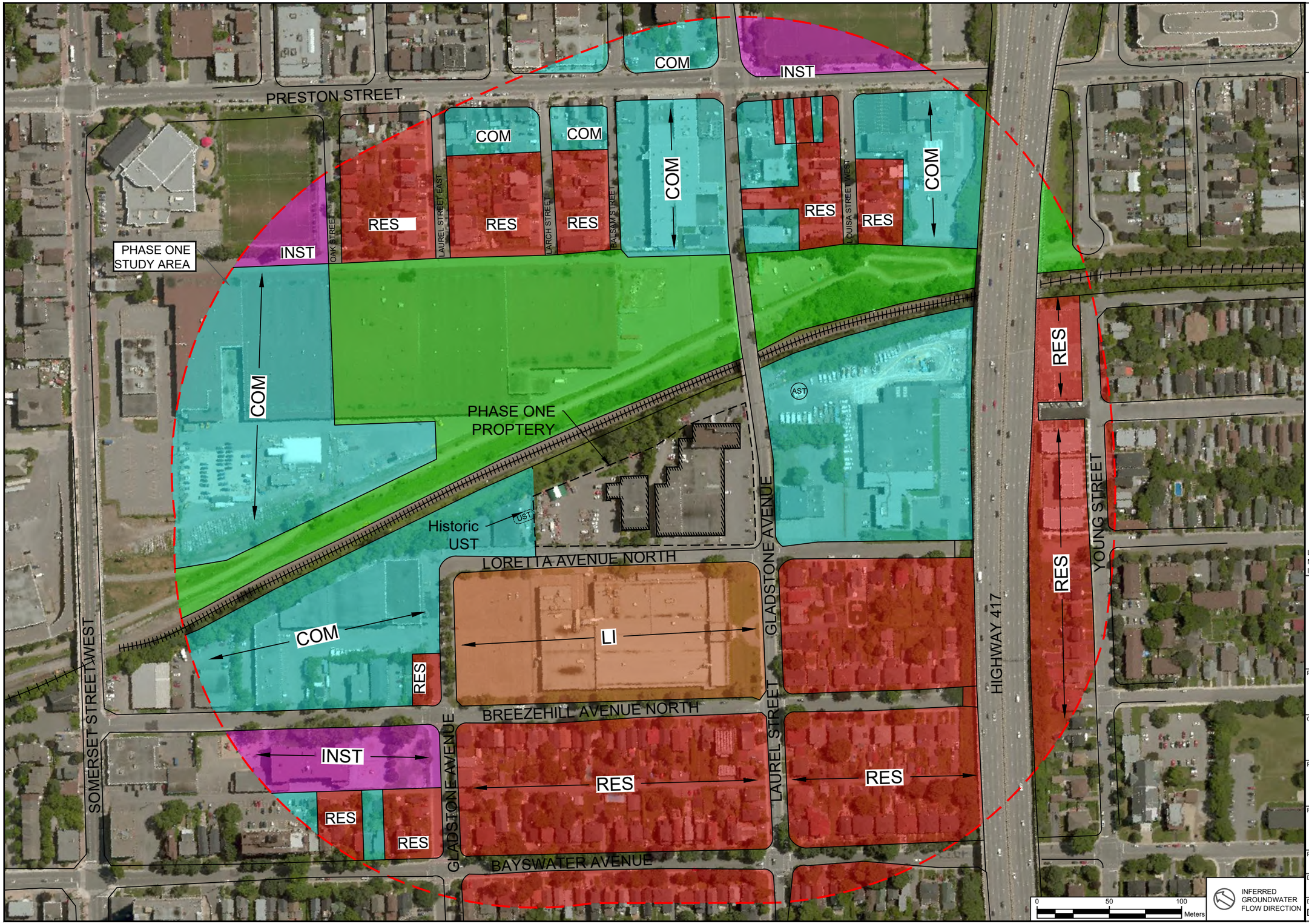
PROJECT NAME:
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME:
TIP GLADSTONE LIMITED PARTNERSHIP

PROJECT LOCATION:
951 GLADSTONE AVENUE AND 145 LORETTA AVENUE NORTH, OTTAWA, ONTARIO

FIGURE NAME:
PHASE ONE PROPERTY

PROJECT NUMBER:	SCALE:
285722.003	AS SHOWN
DRAWN BY:	REVIEWED BY:
DM	CT
DATE:	FIGURE NUMBER:
DECEMBER 2021	2



LEGEND

- PHASE ONE PROPERTY BOUNDARY
- PHASE ONE STUDY AREA
- SITE BUILDING
- RES RESIDENTIAL
- COM COMMERCIAL
- INST INSTITUTIONAL
- LI LIGHT-INDUSTRIAL
- AST ABOVEGROUND STORAGE TANK
- UST UNDERGROUND STORAGE TANK
- HISTORIC RAILWAY LINE
- RESIDENTIAL
- COMMERCIAL
- INSTITUTIONAL
- LIGHT-INDUSTRIAL
- PARKLAND

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PINCHIN

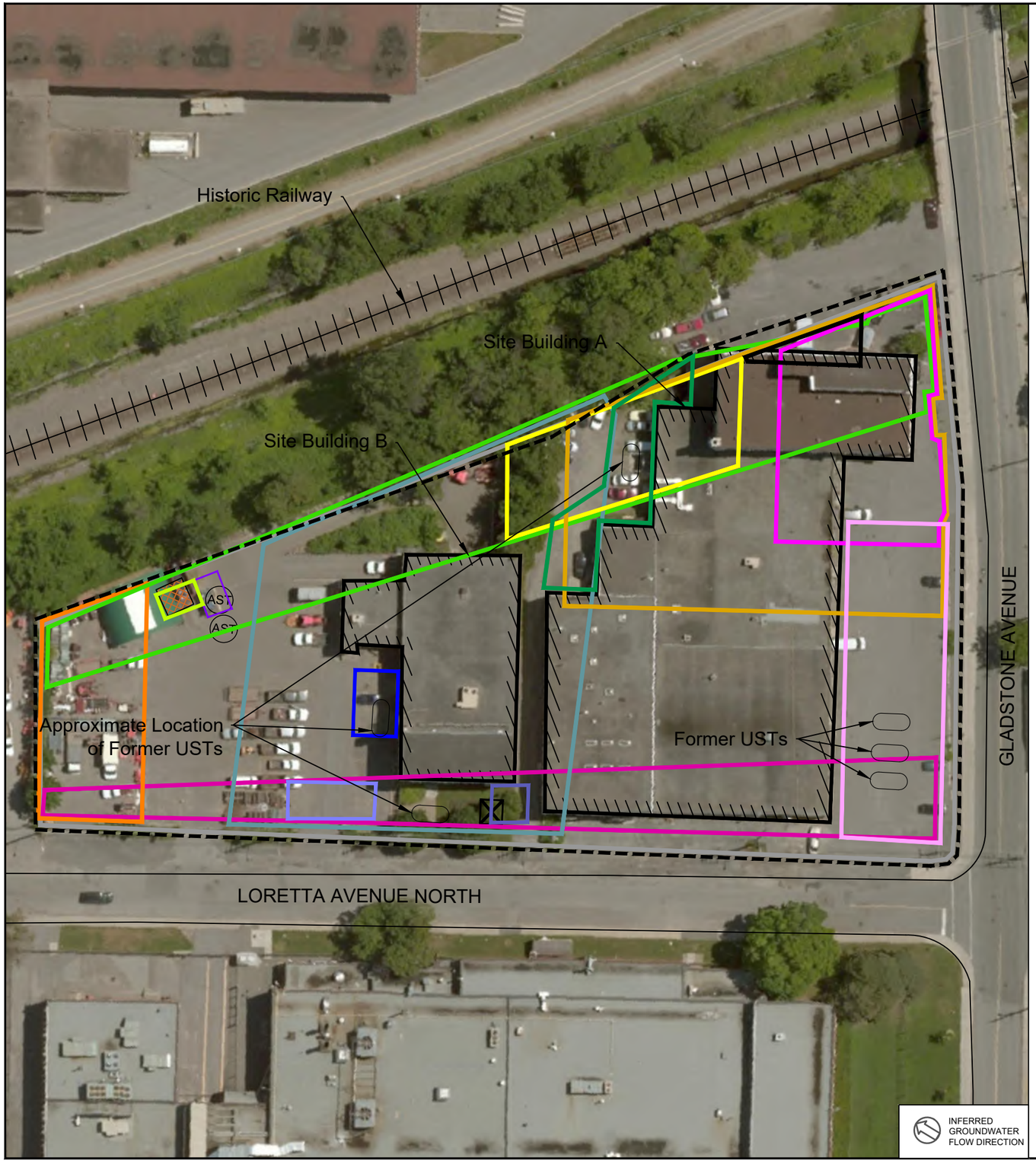
PROJECT NAME: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME: TIP GLADSTONE LIMITED PARTNERSHIP

PROJECT LOCATION: 951 GLADSTONE AVENUE AND 145 LORETTA AVENUE NORTH, OTTAWA, ONTARIO

FIGURE NAME: PHASE ONE STUDY AREA

PROJECT NUMBER:	SCALE:
285722.003	AS SHOWN
DRAWN BY:	REVIEWED BY:
DM	CT
DATE:	FIGURE NUMBER:
DECEMBER 2021	3



Area of Potential Environmental Concern1	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity2	Location of PCA (On-Site or Off-Site)	Contaminants of Potential Concern3	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
APEC-1 (Fill of unknown quality)	Entire Phase One Property	Item 30 - Importation of Fill Material of Unknown Quality	On-Site	Metals PHCs PAHs	Soil and Groundwater
APEC-2 (Fuel ASTs)	Northeast portion of Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	BTEX PHCs	Soil and Groundwater
APEC-3 (Former On-Site RFO)	Southwest portion of Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	VOCs PHCs PAHs Metals	Soil and Groundwater
APEC-4 (Former On-Site UST)	West-central portion of the Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	BTEX PHCs	Soil and Groundwater
APEC-5 (Former On-Site AST)	Southeast portion of the Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	BTEX PHCs	Soil and Groundwater
APEC-6 (Former Automotive Service Garage)	Central Portion of Phase One Property	Item 27 - Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	On-Site	VOCs PHCs PAHs	Soil and Groundwater
APEC-7 (Former Printing Facility)	Southeast Portion of Phase One Property	Item 31 - Ink Manufacturing, Processing and Bulk Storage	On-Site	VOCs PHCs PAHs Metals	Soil and Groundwater
APEC-8 (Former Rail Spur)	Southeast Portion of Phase One Property	Item 46 - Rail Yards, Tracks and Spurs	On-Site	BTEX PHCs PAHs Metals	Soil and Groundwater
APEC-9 (Off-Site UST)	North Portion of the Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	BTEX PHCs	Soil and Groundwater
APEC-10 (Off-Site Rail Tracks)	East Portion of Phase One Property	Item 46 - Rail Yards, Tracks and Spurs	Off-Site	BTEX PHCs PAHs Metals	Soil and Groundwater
APEC-11 (Former Off-Site Ordnance Depot)	East Portion of Phase One Property	Item 38 - Ordnance Use	Off-Site	VOCs PHCs PAHs Metals	Soil and Groundwater
APEC-12 (Off-Site Private Fuel Outlet)	Southeast Portion of Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	VOCs PHCs Metals	Soil and Groundwater
APEC-13 (Off-Site Printing Facility)	West Portion of Phase One Property	Item 31 - Ink Manufacturing, Processing and Bulk Storage	Off-Site	VOCs PHCs PAHs Metals	Soil and Groundwater
APEC-14 (Pad Mounted Transformer)	Central West Portion of Phase One Property	Item 55 - Transformer Manufacturing, Processing and Use	On-Site	PHCs PCBs	Soil
APEC-15 (Former On-Site UST)	Northwest of Site Building B	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	BTEX PHCs	Soil and Groundwater
APEC-16 (On-Site Salt Storage)	Northeast Portion of Phase One Property	Item 48 - Salt Manufacturing, Processing and Bulk Storage	On-Site	EC SAR Sodium Chloride	Soil and Groundwater
APEC-17 (Current/Former On-Site UST)	Northeast Portion of Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	BTEX PHCs	Soil and Groundwater

0 15 30 Meters

LEGEND

- PHASE ONE PROPERTY BOUNDARY
- SITE BUILDING
- (P) PARKING
- HISTORIC RAILWAY LINE
- APEC AREA OF POTENTIALLY ENVIRONMENTAL CONCERN
- APEC-1
- APEC-2
- APEC-3
- APEC-4
- APEC-5
- APEC-6
- APEC-7
- APEC-8
- APEC-9
- APEC-10
- APEC-11
- APEC-12
- APEC-13
- APEC-14
- APEC-15
- APEC-16
- APEC-17

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PINCHIN

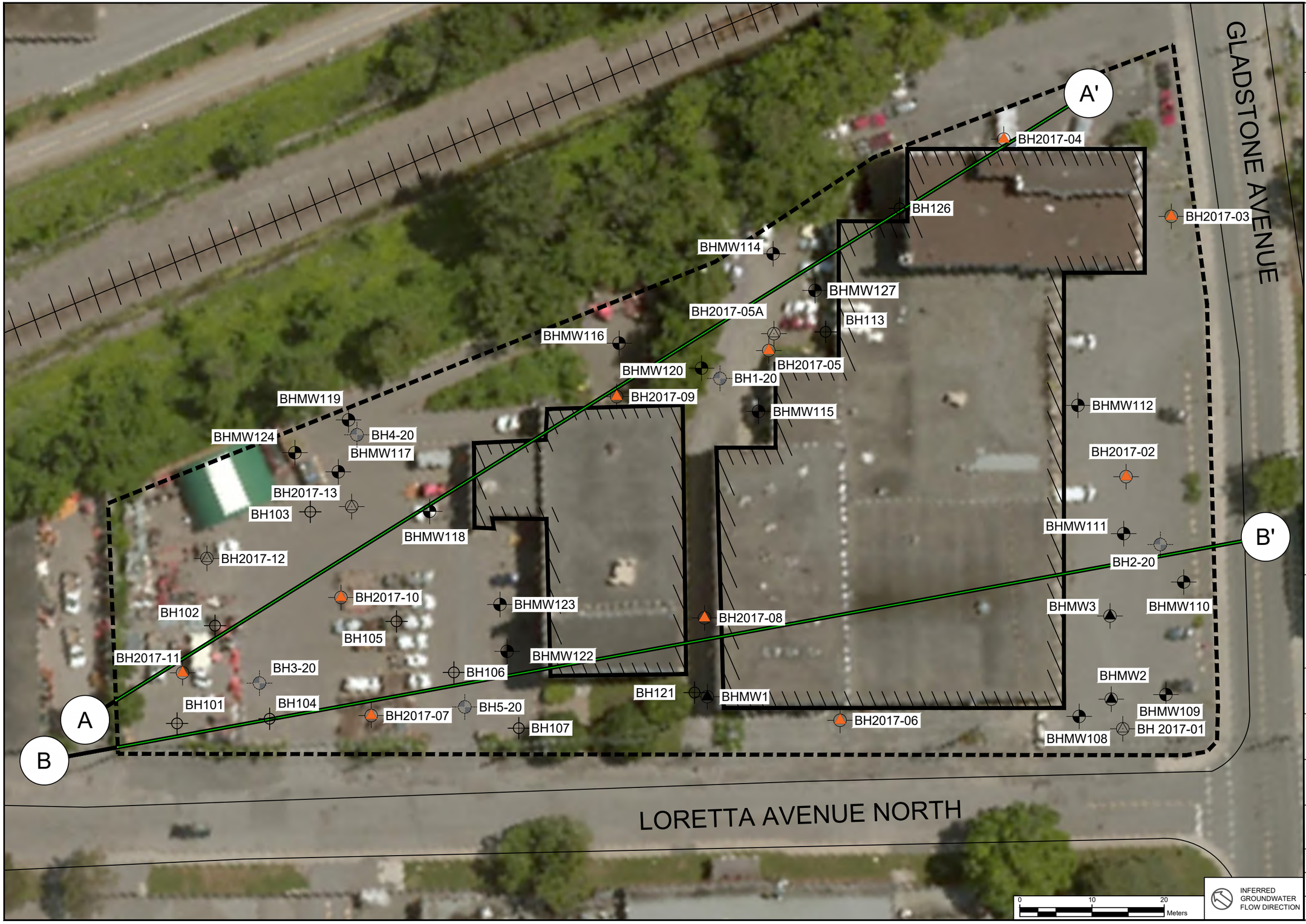
PROJECT NAME: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME: TIP GLADSTONE LIMITED PARTNERSHIP

PROJECT LOCATION: 951 GLADSTONE AVENUE AND 145 LORETTA AVENUE NORTH, OTTAWA, ONTARIO

FIGURE NAME: AREA OF POTENTIAL ENVIRONMENTAL CONCERN

PROJECT NUMBER:	SCALE:
285722.003	AS SHOWN
DRAWN BY: DM	REVIEWED BY: CT
DATE: DECEMBER 2021	FIGURE NUMBER: 4



LEGEND

- PHASE TWO PROPERTY BOUNDARY
- SITE BUILDING
- BOREHOLE (Pinchin 2021)
- MONITORING WELL (Pinchin 2021)
- MONITORING WELL (DST 2009)
- MONITORING WELL (DST 2017)
- BOREHOLE (DST 2017)
- BOREHOLE, MONITORING WELL (Patersongroup 2020)
- CROSS SECTIONS

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PINCHIN

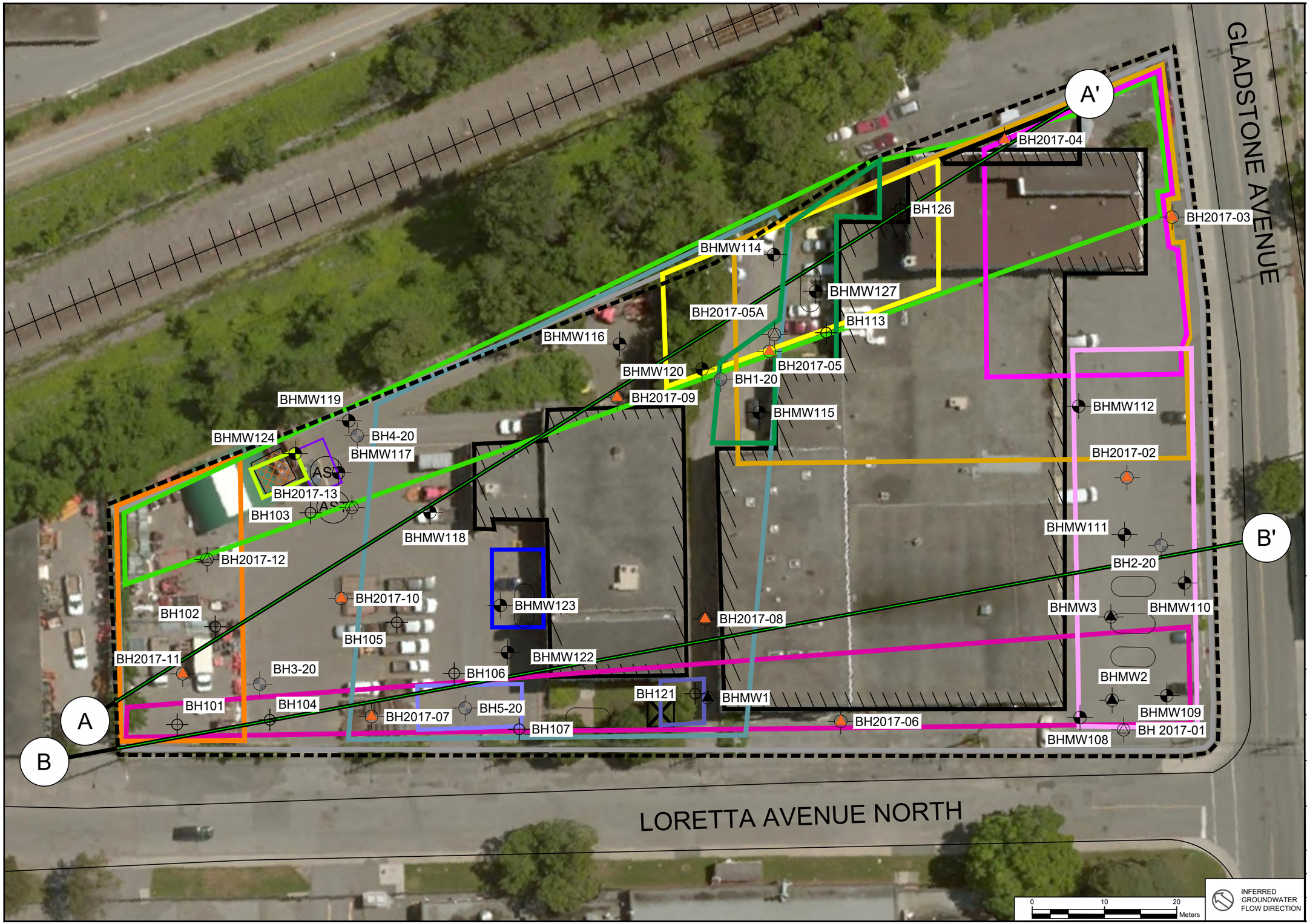
PROJECT NAME: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME: TIP GLADSTONE LIMITED PARTNERSHIP

PROJECT LOCATION: 951 GLADSTONE AVENUE AND 145 LORETTA AVENUE NORTH, OTTAWA, ONTARIO

FIGURE NAME: BOREHOLE AND MONITORING WELL LOCATION PLAN WITH CURRENT LAYOUT

PROJECT NUMBER:	SCALE:
285722.003	AS SHOWN
DRAWN BY:	REVIEWED BY:
DM	CT
DATE:	FIGURE NUMBER:
DECEMBER 2021	5A



LEGEND

- PHASE TWO PROPERTY BOUNDARY
- SITE BUILDING
- BOREHOLE (Pinchin 2021.)
- MONITORING WELL (Pinchin 2021.)
- MONITORING WELL (DST 2009.)
- MONITORING WELL (DST 2017.)
- BOREHOLE (DST 2017.)
- BOREHOLE, MONITORING WELL (Patersongroup 2020.)
- APEC — AREA OF POTENTIALLY ENVIRONMENTAL CONCERN
- CROSS SECTIONS
- APEC-1
- APEC-2
- APEC-3
- APEC-4
- APEC-5
- APEC-6
- APEC-7
- APEC-8
- APEC-9
- APEC-10
- APEC-11
- APEC-12
- APEC-13
- APEC-14
- APEC-15
- APEC-16
- APEC-17

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INFERRED GROUNDWATER FLOW DIRECTION

PINCHIN

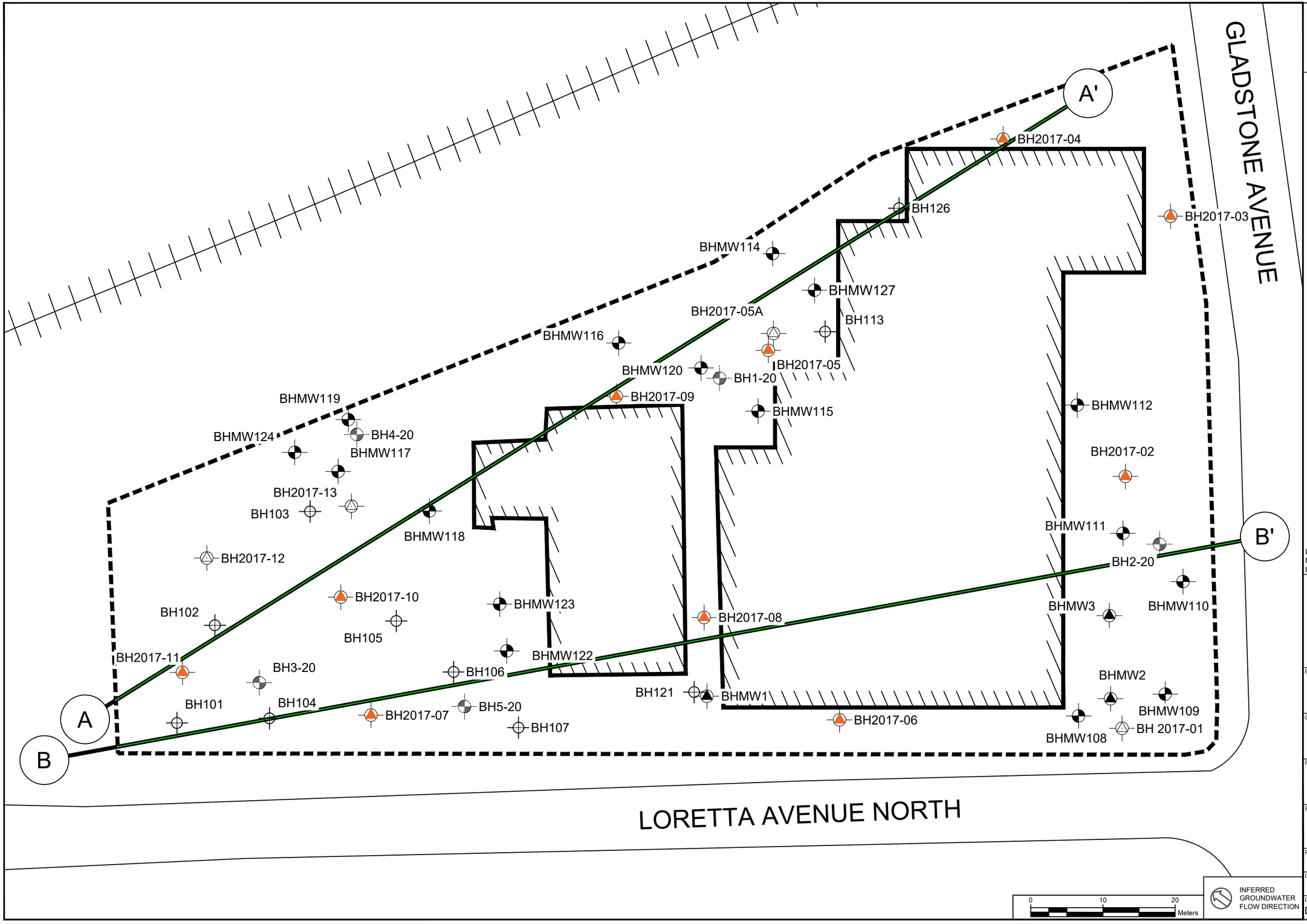
PROJECT NAME: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME: TIP GLADSTONE LIMITED PARTNERSHIP

PROJECT LOCATION: 951 GLADSTONE AVENUE AND 145 LORETTA AVENUE NORTH, OTTAWA, ONTARIO

FIGURE NAME: BOREHOLE AND MONITORING WELL LOCATION PLAN WITH AREAS OF POTENTIAL CONCERN

PROJECT NUMBER:	SCALE:
285722.003	AS SHOWN
DRAWN BY:	REVIEWED BY:
DM	CT
DATE:	FIGURE NUMBER:
DECEMBER 2021	5B



LEGEND

- PHASE TWO PROPERTY BOUNDARY
- SITE BUILDING
- BOREHOLE (Pinchin 2021)
- MONITORING WELL (Pinchin 2021)
- MONITORING WELL (DST 2009)
- MONITORING WELL (DST 2017)
- BOREHOLE (DST 2017)
- BOREHOLE, MONITORING WELL (Patersongroup 2020)
- CROSS SECTIONS

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PINCHIN

PROJECT NAME: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME: TIP GLADSTONE LIMITED PARTNERSHIP

PROJECT LOCATION: 951 GLADSTONE AVENUE AND 145 LORETTA AVENUE NORTH, OTTAWA, ONTARIO

FIGURE NAME: BOREHOLE AND MONITORING WELL LOCATION PLAN

PROJECT NUMBER:	SCALE:
285722.003	AS SHOWN
DRAWN BY: DM	REVIEWED BY: CT
DATE: DECEMBER 2021	FIGURE NUMBER: 5C

APPENDIX II

Borehole Logs

Log of Borehole: BH101

Project #: 285722.003 **Logged By:** MK

Project: Phase Two Environmetal Site Assessment

Client: TIP Gladstone Limited Partnership

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: April 26, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
		Ground Surface	0.00					
		Asphalt ~50mm	0.00 -0.61	No Monitoring Well Installed	45	SS1	0/0	
		Fill Brown sand and gravel with brick and slag, damp, no staining or odours	0.61 -1.22			SS2	5/15	PHCs, BTEX, PAHs, Metals
		Silty Clay Silty clay, damp, no staining, PHC like odour	1.22 -1.68		45	SS3	10/1	
		Sand and Gravel Brown sand and gravel with brick and slag, damp, no staining or odours	1.68 -3.05			SS4	0/0	
		trace silt	3.05		100	SS5	0/0	
		Silty Clay Grey silty clay, moist, no staining or odours				SS6	0/0	PHCs, PAHs
		Moist to wet	-5.18 5.18		90	SS7	0/0	
						SS8	0/0	
		End of Borehole (No Refusal)	-6.10 6.10					

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: N/A

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

Grade Elevation: N/A

Top of Casing Elevation: N/A

Sheet: 1 of 1

Log of Borehole: BH102

Project #: 285722.003 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: TIP Gladstone Limited Partnership

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: April 26, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
		Ground Surface	0.00					
		Asphalt ~50mm	0.00	No Monitoring Well Installed	30	SS1	0/0	PHCs, BTEX, PAHs, and Metals
		Fill Brown sand and gravel, damp, no staining or odours	-0.91 0.91			SS2	0/1	
		Fill Sand and gravel trace silt trace clay, slag and glass, no staining or odours	-1.52 1.52		50	SS3	0/0	
		no glass	-2.44 2.44			SS4	0/0	
		Gravel layer	-3.05					
		Silty Clay Grey silty clay, damp, no staining or odours	3.05		100	SS5	0/0	
						SS6	0/0	PHCs, and PAHs
			-4.57					
		Moist	4.57		100	SS7	0/0	
			-5.79			SS8	0/0	
		Wet	5.79					
		End of Borehole (No Refusal)						

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: N/A

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

Grade Elevation: N/A

Top of Casing Elevation: N/A

Sheet: 1 of 1

Log of Borehole: BH103

Project #: 285722.003 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: TIP Gladstone Limited Partnership

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: April 26, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00					
		Asphalt ~50mm	0.00		15	SS1	0/0	
		Fill Brown sand and gravel, no staining or odours				SS2	0/0	PHCs, BTEX, PAHs, Metals, pH, Grain size
			-1.52					
		Trace silt trace clay	1.52		20	SS3	0/0	
						SS4	0/0	
			-3.05					
		Silty Clay Grey silty clay, moist, no staining or odours	3.05	No Monitoring Well Installed	<5	SS5	0/0	
						SS6	0/0	
			-4.57					
		Wet	4.57		60	SS7	0/0	PHCs, PAHs, pH, Grain size
						SS8	0/0	
			-6.10					
		End of Borehole (No Refusal)	6.10					

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: N/A

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

Grade Elevation: N/A

Top of Casing Elevation: N/A

Sheet: 1 of 1

Log of Borehole: BH104

Project #: 285722.003 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: TIP Gladstone Limited Partnership

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: April 26, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00	No Monitoring Well Installed				
		Asphalt ~50mm	0.00		20	SS1	0/0	
1 / 1		***Fill*** Brown sand and gravel, damp, no staining or odours				SS2	0/0	
2 / 2					20	SS3	0/0	
			-2.74			SS4	0/0	PHCs, BTEX, PAHs, Metals
3 / 3		some slag	2.74					
		Silty Clay Grey silty clay, damp, no staining or odours			100	SS5	0/0	
4 / 4						SS6	0/0	
			-4.57					
5 / 5		Slight PHC like odour	4.57		100	SS7	0/20	PHCs, PAHs
			-5.49			SS8	0/0	
6 / 6		Wet, no odour	5.49					
			-6.10					
7 / 7		End of Borehole (No Refusal)	6.10					

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: N/A

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

Grade Elevation: N/A

Top of Casing Elevation: N/A

Sheet: 1 of 1

Log of Borehole: BH105

Project #: 285722.003 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: TIP Gladstone Limited Partnership

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: April 26, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00					
		Asphalt ~50mm	0.00					
		Fill Brown sand and gravel, damp, no staining or odours			20	SS1	0/0	
						SS2	0/0	PHCs, BTEX, PAHs, Metals
					10	SS3	0/0	
						SS4	0/0	
					5	SS5	0/0	
						SS6	0/0	
			-4.57	No Monitoring Well Installed				
		Silty Clay Silty clay, damp, no staining, slight PHC-like odour	4.57		100	SS7	0/58	PHCs, PAHs
			-5.33					
		No odour, moist to wet	5.33			SS8	0/1	
			-6.10					
		End of Borehole (No Refusal)	6.10					

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: N/A

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

Grade Elevation: N/A

Top of Casing Elevation: N/A

Sheet: 1 of 1

Log of Borehole: BH106

Project #: 285722.003 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: TIP Gladstone Limited Partnership

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: April 26, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00	No Monitoring Well Installed				
		Asphalt ~50mm	0.00		20	SS1	0/0	
		Fill Brown sand and gravel, damp, no staining or odours				SS2	0/0	
					20	SS3	0/0	
						SS4	0/0	PHCs, BTEX, PAHs, Metals
					60	SS5	0/0	
		Moist	-4.11 / 4.11			SS6	0/0	
					100	SS7	0/0	
		Grey silt clay, wet, no staining or odours	-5.33 / 5.33			SS8	0/0	PHCs, PAHs
		End of Borehole (No Refusal)	-6.10 / 6.10					

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: N/A

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

Grade Elevation: N/A

Top of Casing Elevation: N/A

Sheet: 1 of 1

Log of Borehole: BH107

Project #: 285722.003 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: TIP Gladstone Limited Partnership

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: April 26, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00	No Monitoring Well Installed				
		Asphalt ~50mm	0.00		20	SS1	0/0	
1 / 1		***Fill*** Brown/Black sand and gravel, damp, no staining or odours				SS2	0/0	
			-1.52					
5 / 2		***Sand and Gravel*** Brown sand and gravel, damp no staining or odours	1.52		70	SS3	0/0	
						SS4	0/0	PHCs, BTEX, PAHs, Metals
10 / 3					90	SS5	0/0	
			-3.81			SS6	0/0	
13 / 4		***Silty Clay*** Grey silt clay, wet, no staining or odours	3.81					
			-4.88		70	SS7	0/0	
16 / 5		Trace gravel	4.88			SS8	0/0	PHCs, PAHs
			-6.10					
20 / 6		End of Borehole (No Refusal)	6.10					
23 / 7								
26								

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: N/A

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

Grade Elevation: N/A

Top of Casing Elevation: N/A

Sheet: 1 of 1

Log of Borehole: BHMW108

Project #: 285722.003 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: TIP Gladstone Limited Partnership

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: April 26, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00					
		Asphalt ~50mm	0.00		25	SS1	0/0	
1 /		***Fill*** Brown sand and gravel, damp, no staining or odours				SS2	0/0	PAHs, Metals
			-1.52					
		Silty Clay Brown silty clay, damp, no staining or odours	1.52		100	SS3	0/0	
2 /						SS4	0/0	
3 /					100	SS5	0/0	
			-3.81					
4 /		With gravel	3.81			SS6	2300/1513	
			-4.27					
		PHC-like odour	4.27					
5 /		***Silty Clay with Gravel*** Grey silty clay with gravel, no staining, PHC-like odours			100	SS7	895/800	
						SS8	3500/1915	PHCs, VOCs, PAHs
6 /				Groundwater Level = 5.46 mbgs. on June 23, 2021	100	SS9	70/17	
			-6.86					
7 /		Slight PHC-like odours	6.86			SS10	70/6	
			-7.32					
			7.32					
		End of Borehole						
8 /		(Refusal on Inferred Bedrock)						
9 /								

Riser, Bentonite, Screen, Silica Sand

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: 3.8 cm

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

Grade Elevation: 67.05 mamsl

Top of Casing Elevation: 66.98 mamsl

Sheet: 1 of 1

Log of Borehole: BHMW109

Project #: 285722.003 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: TIP Gladstone Limited Partnership

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: April 27, 2021

SUBSURFACE PROFILE

Depth (ft / m)	Description	Measured Depth (m)
0 / 0	Ground Surface	0.00
	Asphalt ~50mm	0.00
	Fill Brown sand and gravel, damp, no staining or odours	
5 / 1		-1.52
	Silty Clay Brown/Grey silty clay, damp, no staining or odours	1.52
10 / 3		-3.05
	With gravel, moist	3.05
12		-3.81
13 / 4	Turning wet	3.81
15		-4.72
16 / 5	Wet	4.72
18		-5.49
	End of Borehole	5.49
20 / 6	(Refusal on inferred Bedrock)	
23 / 7		

Monitoring Well Details: Riser, Bentonite, Screen, Silica Sand

Groundwater Level = 4.98 mbgs. on June 23, 2021

SAMPLE

Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
10	SS1	0/0	
	SS2	0/0	
50	SS3	0/0	
	SS4	0/0	
100	SS5	0/0	
	SS6	0/0	
100	SS7	0/0	PHCs, VOCs, PAHs, pH, Grain Size

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: 5.1 cm

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

Grade Elevation: 67.27 mamsl

Top of Casing Elevation: 67.14 mamsl

Sheet: 1 of 1

Log of Borehole: BHMW110

Project #: 285722.003 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: TIP Gladstone Limited Partnership

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: April 27, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00					
		Asphalt ~50mm	0.00		10	SS1	0/0	
1 / 1		***Fill*** Brown sand and gravel, damp, no staining or odours				SS2	0/0	
			-1.52					
2 / 2		***Silty Clay*** Grey silty clay, damp, no staining or odours	1.52		60	SS3	0/0	
						SS4	0/0	
3 / 3					100	SS5	0/0	
			-4.11			SS6	0/0	
4 / 4		***Silty Clay with Gravel*** Grey silty clay with gravel, moist to wet, no staining, PHC-like odours	4.11		100	SS7	5200/1925	PHCs, VOCs, PAHs
5 / 5						SS8	70/66	
6 / 6			-6.10					
7 / 7		End of Borehole (Refusal on inferred Bedrock)	6.10	Groundwater Level = 4.90 mbgs. on June 23, 2021				

Monitoring Well Details: Riser, Bentonite, Screen, Silica Sand

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

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: 66.97 mamsl

Top of Casing Elevation: 66.88 mamsl

Sheet: 1 of 1

Log of Borehole: BHMW111

Project #: 285722.003 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

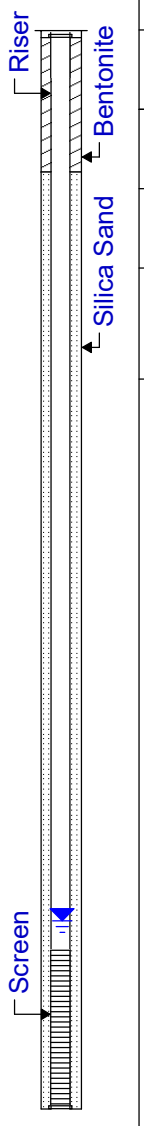
Client: TIP Gladstone Limited Partnership

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: April 30, 2021

SUBSURFACE PROFILE

Depth (ft / m)	Symbol	Description	Measured Depth (m)
0 / 0		Ground Surface	0.00
		Asphalt ~50mm	0.00
1 /			-1.52
		Fill Brown sand and gravel, damp, no staining or odours	1.52
2 /			
3 /			-3.81
4 /		***Silty Clay*** Grey silty clay, damp, no staining or odours	3.81
		PHC like odours	
5 /			
6 /		***Silty Clay with Gravel*** Silty clay with gravel, wet, no staining, PHC like odours	-6.40
			6.40
7 /		End of Borehole	
		(Refusal on inferred Bedrock)	
8 /			
9 /			
10 /			
11 /			
12 /			
13 /			
14 /			
15 /			
16 /			
17 /			
18 /			
19 /			
20 /			
21 /			



SAMPLE

Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
10	SS1	0/0	
	SS2	0/0	
75	SS3	0/0	
	SS4	0/0	
100	SS5	0/2	
	SS6	8000/>2000	PHCs, VOCs, PAHs
100	SS7	3200/1842	
	SS8	115/200	
	SS9	105/90	

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push, Air Rotary

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: 66.55 mamsl

Top of Casing Elevation: 66.45 mamsl

Sheet: 1 of 1

Log of Borehole: BHMW112

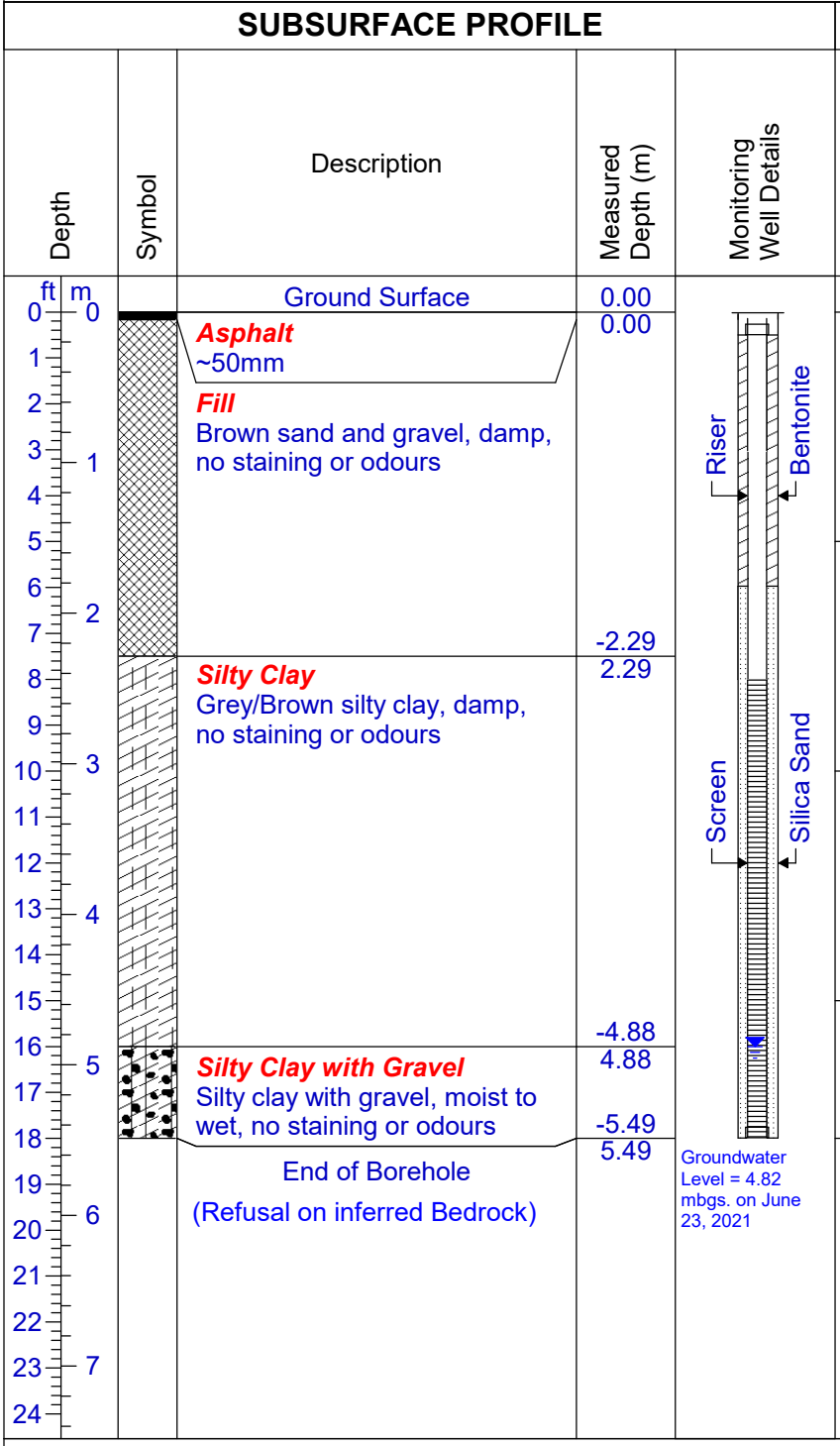
Project #: 285722.003 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: TIP Gladstone Limited Partnership

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: April 27, 2021



SUBSURFACE PROFILE					SAMPLE			
Depth	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
		Ground Surface	0.00					
		Asphalt ~50mm	0.00		15	SS1	0/0	
		Fill Brown sand and gravel, damp, no staining or odours				SS2	0/0	
			-2.29		50	SS3	0/0	PAHs, Metals
		Silty Clay Grey/Brown silty clay, damp, no staining or odours	2.29			SS4	0/0	
					100	SS5	0/0	
						SS6	0/0	
			-4.88					
		Silty Clay with Gravel Silty clay with gravel, moist to wet, no staining or odours	4.88		80	SS7	0/12	PHCs, VOCs, PAHs
			-5.49					
		End of Borehole (Refusal on inferred Bedrock)	5.49	Groundwater Level = 4.82 mbgs. on June 23, 2021				

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

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: 66.23 mamsl

Top of Casing Elevation: 66.32 mamsl

Sheet: 1 of 1

Log of Borehole: BH113

Project #: 285722.003 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: TIP Gladstone Limited Partnership

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: April 28, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00	No Monitoring Well Installed				
0–2 / 0–0.61		***Fill*** Gravel surface, Brown sand and gravel, damp, no staining or odours.	0.00		10	SS1	0/0	
						SS2	0/0	
2 / 0.61			-2.29		75	SS3	0/0	PHCs, VOCs
2–4.42 / 0.61–1.35		***Silty Clay*** Grey silty clay, damp, no staining or odours	2.29			SS4	0/0	
					100	SS5	6/0	
						SS6	0/0	
4.42 / 1.35		Slight PHC-like odour	-4.42 / 4.42			SS7	25/1	PHCs, Metals, PAHs, VOCs
4.42–5.33 / 1.35–1.63		***Silty Clay*** Grey silty clay with gravel, wet, no staining, PHC-like odours	-5.33 / 5.33		-	SS8	0/20	
5.33–6.71 / 1.63–2.05		No odours				SS9	0/0	
6.71 / 2.05		End of Borehole (Refusal on inferred Bedrock)	-6.71 / 6.71					

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: N/A

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

Grade Elevation: N/A

Top of Casing Elevation: N/A

Sheet: 1 of 1

Log of Borehole: BHMW114

Project #: 285722.003 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: TIP Gladstone Limited Partnership

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: April 29, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00					
		Fill Brown sand and gravel, damp, no staining or odours	0.00	Riser, Bentonite	15	SS1	0/0	
						SS2	0/0	
					20	SS3	0/0	PAHs, VOCs
				Silica Sand		SS4	0/0	
					100	SS5	0/0	
				Screen		SS6	0/0	
			-4.57					
		No Recovery	4.57		0	SS7	N/A	
						SS8	N/A	
			-6.10					
		Silty Clay with Sand and Gravel Grey silty clay with sand and gravel, wet, no staining or odours	6.10		100	SS9	0/0	PHCs, Metals
			-7.16					
		End of Borehole (Refusal on inferred Bedrock)	7.16	Groundwater Level = 6.33 mbgs. on June 23, 2021				

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

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: 64.72 mamsl

Top of Casing Elevation: 64.56 mamsl

Sheet: 1 of 1

Log of Borehole: BHMW115

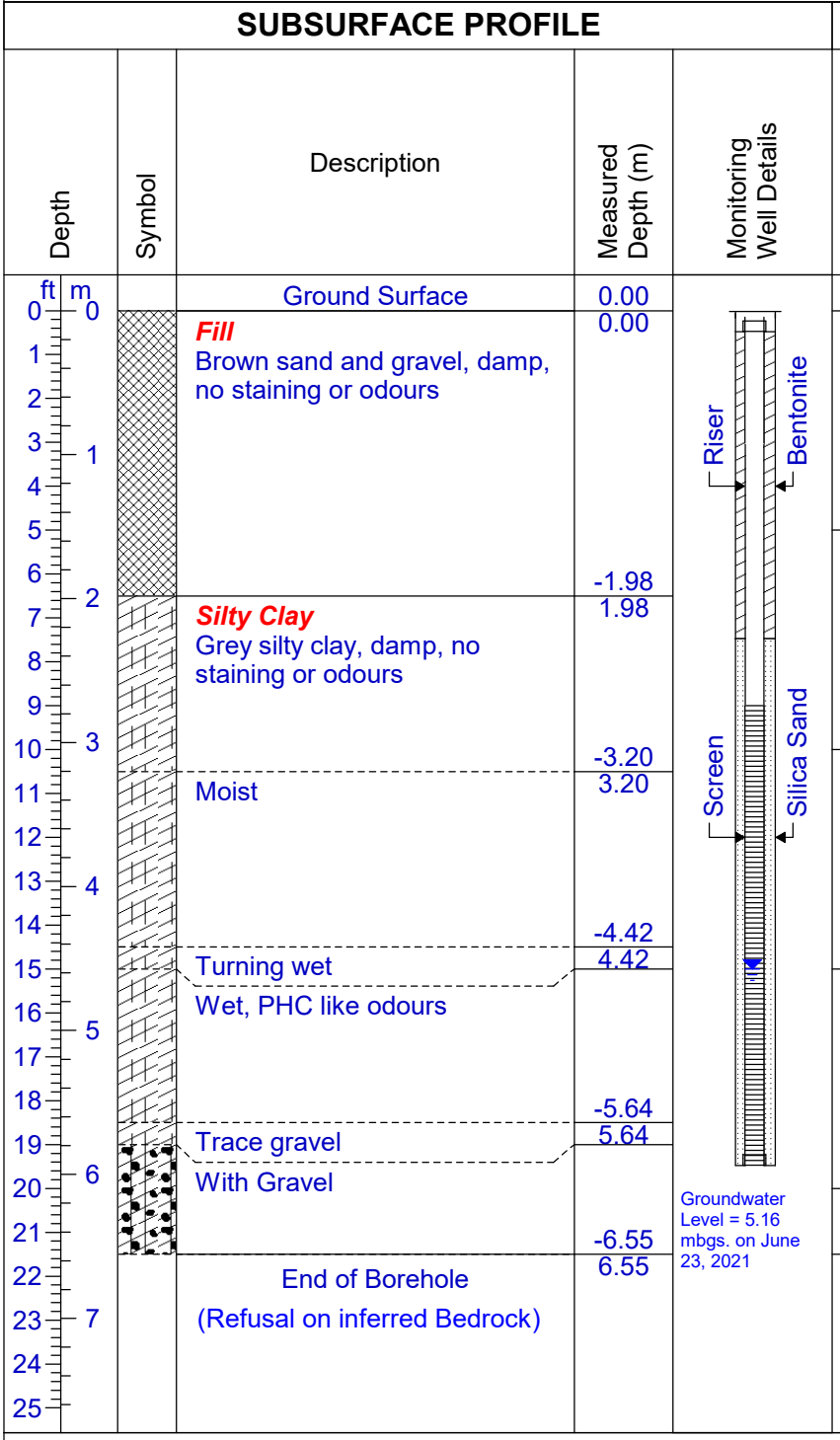
Project #: 285722.003 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: TIP Gladstone Limited Partnership

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: April 28, 2021



Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
10	SS1	0/0	
	SS2	0/0	
100	SS3	0/0	PAHs, VOCs
	SS4	0/0	
100	SS5	0/0	
	SS6	0/2	
100	SS7	65/30	PHCs, VOCs, PAHs, Metals
	SS8	45/5	
100	SS9	0/20	

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

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: 65.25 mamsl

Top of Casing Elevation: 65.16 mamsl

Sheet: 1 of 1

Log of Borehole: BHMW116

Project #: 285722.003 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: TIP Gladstone Limited Partnership

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: April 30, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00					
		Asphalt ~50mm	0.00		50	SS1	0/0	
		Fill Brown sand and gravel, damp, no staining or odours	-1.52			SS2	0/0	
		Silty Clay Grey silty clay, damp, no staining or odours	1.52		100	SS3	0/0	
		PHC-like odours	-2.29 2.29			SS4	0/64	PAHs, VOCs, PAHs
		No odours	-2.90 2.90					
		Silty Clay with Gravel some Sand Grey silty clay with gravel some sand, wet, no staining or odours			100	SS5	0/1	
						SS6	0/0	
			-5.18		60	SS7	0/0	PHCs, Metals
		End of Borehole (Refusal on inferred Bedrock)	5.18					

Riser, Bentonite, Screen, Silica Sand

Groundwater Level = 2.91 mbgs. on June 23, 2021

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

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: 62.28 mamsl

Top of Casing Elevation: 62.14 mamsl

Sheet: 1 of 1

Log of Borehole: BHMW117

Project #: 285722.003 **Logged By:** MK

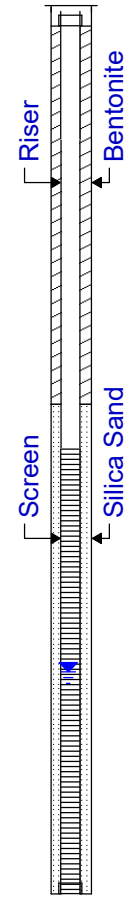
Project: Phase Two Environmental Site Assessment

Client: TIP Gladstone Limited Partnership

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: April 30, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00					
		Asphalt ~50mm	0.00		50	SS1	0/0	
1 / 1		***Fill*** Brown sand and gravel, damp, no staining or odours				SS2	0/0	
			-1.52					
5 / 2		Some clay and cobbles	1.52		48	SS3	0/0	PAHs, VOCs, PAHs, Metals
						SS4	0/0	
10 / 3			-3.05					
		No Recovery	3.05		0	SS5	0/0	
13 / 4						SS6	0/0	
			-4.57					
15 / 5		***Silty Clay with Gravel*** Silty clay with gravel, wet, no staining or odours	4.57		50	SS7	0/0	
18 / 6						SS8	0/0	
			-6.10					
20 / 6		End of Borehole (Refusal on inferred Bedrock)	6.10	Groundwater Level = 5.16 mbgs. on June 23, 2021				
23 / 7								
25								



Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

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: 64.42 mamsl

Top of Casing Elevation: 64.3 mamsl

Sheet: 1 of 1

Log of Borehole: BHMW118

Project #: 285722.003 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: TIP Gladstone Limited Partnership

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: April 30, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00					
		Asphalt ~50mm	0.00		50	SS1	0/0	
			-0.76					
		Fill Brown sand and gravel, damp, no staining or odours	0.76			SS2	10/1	PAHs, VOCs, PAHs, metals
1 / 2		Asphalt layer			15	SS3	0/0	
						SS4	0/0	
2 / 3			-3.05					
		With cobbles, trace clay	3.05		100	SS5	0/0	
						SS6	0/0	
3 / 4			-4.57					
		Silty Clay some Gravel Silty clay some gravel, moist, no staining or odours	4.57		20	SS7	0/0	
			-5.79			SS8	0/0	
4 / 5		Turning wet	5.79					
		No Recovery						
5 / 6			-7.62					
		End of Borehole (Refusal on inferred Bedrock)	7.62	Groundwater Level = 4.69 mbgs. on June 23, 2021				

Riser, Bentonite, Screen, Silica Sand

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

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: 64.83 mamsl

Top of Casing Elevation: 64.66 mamsl

Sheet: 1 of 1

Log of Borehole: BHMW119

Project #: 285722.003 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: TIP Gladstone Limited Partnership

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: April 30, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00					
		No Sample	0.00	Riser; Bentonite		NO SAMPLES		
8 / 2.5			-8.23					
		Bedrock Limestone, shale	8.23	Silica Sand; Screen				
46 / 14			-14.02					
		End of Borehole	14.02	Groundwater Level = 4.22 mbgs. on June 23, 2021				

Contractor: Strata Drilling Group Inc.

Drilling Method: Air Rotary

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: 64.49 mamsl

Top of Casing Elevation: 64.4 mamsl

Sheet: 1 of 1

Log of Borehole: BHMW120

Project #: 285722.003 **Logged By:** MK

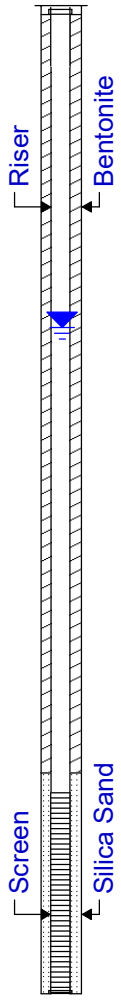
Project: Phase Two Environmental Site Assessment

Client: TIP Gladstone Limited Partnership

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: April 30, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00					
		No Sample	0.00					
23 / 7			-7.32			NO SAMPLES		
		Bedrock Limestone, shale	7.32					
49 / 15		End of Borehole	-14.94 / 14.94					



Groundwater Level = 4.87 mbgs. on June 23, 2021

Contractor: Strata Drilling Group Inc.

Drilling Method: Air Rotary

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: 65.02 mamsl

Top of Casing Elevation: 64.92 mamsl

Sheet: 1 of 1

Log of Borehole: BH121

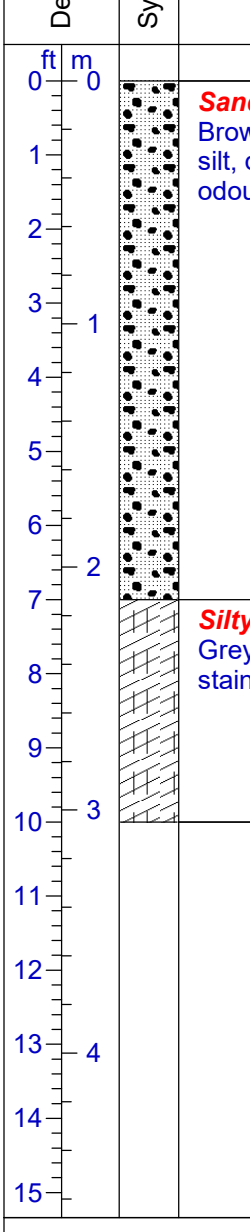
Project #: 285722.003 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: TIP Gladstone Limited Partnership

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: May 25, 2021



SUBSURFACE PROFILE					SAMPLE			
Depth	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
		Ground Surface	0.00					
		Sand and Gravel trace Silt Brown sand and gravel trace silt, damp, no staining or odours	0.00	No Monitoring Well Installed	60	SS1	0/1	PHCs, PAHs,PCBs
						SS2	0/1	
		Silty Clay Grey silty clay, damp, no staining or odours	-2.13 2.13		90	SS3	0/1	
						SS4	0/0	
		End of Borehole (No Refusal)	-3.05 3.05					

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: N/A

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

Grade Elevation: N/A

Top of Casing Elevation: N/A

Sheet: 1 of 1

Log of Borehole: BHMW122

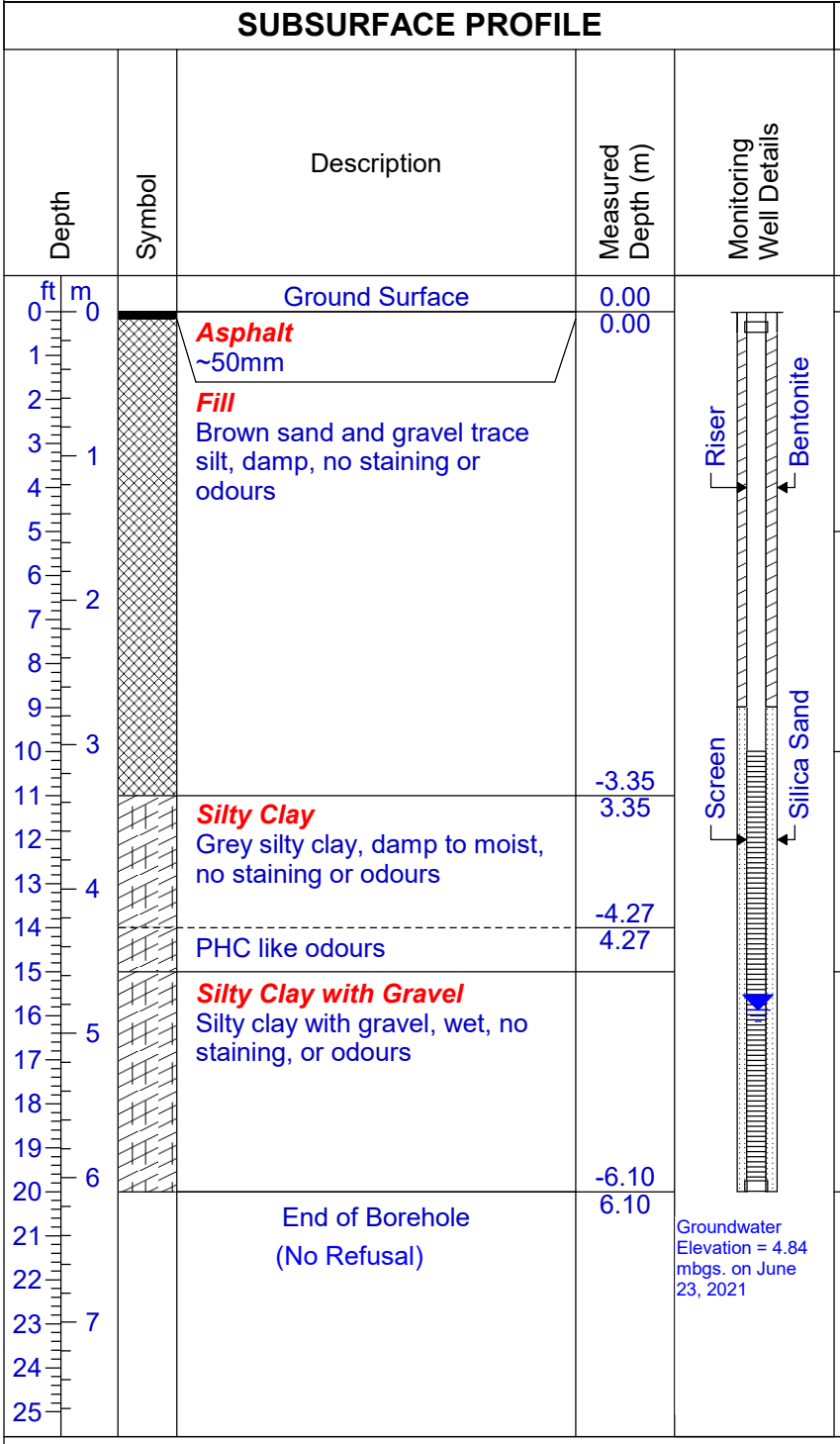
Project #: 285722.003 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: TIP Gladstone Limited Partnership

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: May 25, 2021



SUBSURFACE PROFILE			SAMPLE				
Depth	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
		Ground Surface	0.00					
		Asphalt ~50mm	0.00		35	SS1	0/0	
		Fill: Brown sand and gravel trace silt, damp, no staining or odours		Riser, Bentonite		SS2	0/0	
					40	SS3	0/0	
						SS4	0/0	
			-3.35	Screen, Silica Sand	100	SS5	0/0	
		Silty Clay: Grey silty clay, damp to moist, no staining or odours	3.35			SS6	0/42	PHCs, VOCs,PAHs, Metals
			-4.27					
		PHC like odours	4.27					
		Silty Clay with Gravel: Silty clay with gravel, wet, no staining, or odours			100	SS7	0/0	
						SS8	0/0	PHCs,VOCs, PAHs, Metals
			-6.10					
		End of Borehole (No Refusal)	6.10	Groundwater Elevation = 4.84 mbgs. on June 23, 2021				

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

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: 65.09 mamsl

Top of Casing Elevation: 64.95 mamsl

Sheet: 1 of 1

Log of Borehole: BHMW123

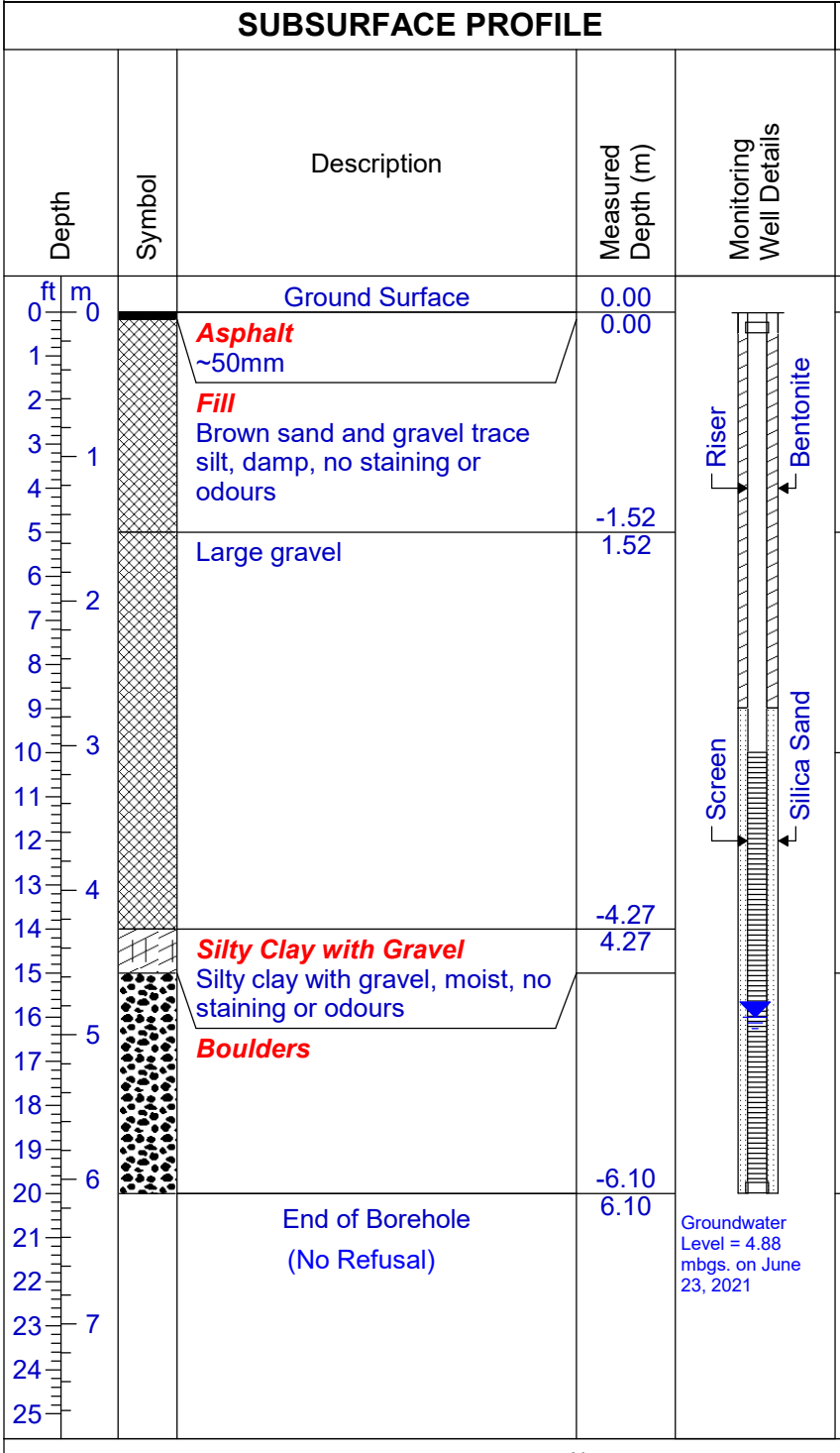
Project #: 285722.003 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: TIP Gladstone Limited Partnership

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: May 25, 2021



Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
25	SS1	0/0	
	SS2	0/0	
100	SS3	0/0	
	SS4	0/0	
30	SS5	0/0	PHCs, VOCs,PAHs, Metals
	SS6	0/0	
N/A	SS7	N/A	
	SS8	N/A	

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

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: 65.11 mamsl

Top of Casing Elevation: 64.98 mamsl

Sheet: 1 of 1

Log of Borehole: BHMW124

Project #: 285722.003 **Logged By:** MK

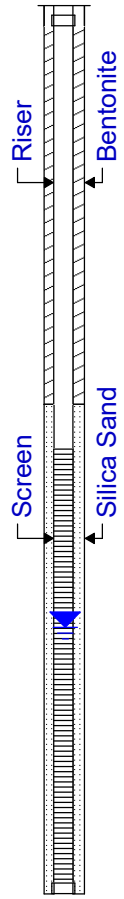
Project: Phase Two Environmental Site Assessment

Client: TIP Gladstone Limited Partnership

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: May 25, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00					
		Asphalt ~50mm	0.00		75	SS1	0/0	PHCs, VOCs, PAHs, Metals, EC, SAR
1 / 0		***Fill*** Brown sand and gravel trace silt, damp, no staining or odours				SS2	0/0	
2 / 1					45	SS3	0/0	
3 / 1						SS4	0/0	
10 / 3			-3.05					
		Silty Clay some Sand and Gravel Brown/Grey silty clay some sand and gravels, moist, no staining or odours	3.05		70	SS5	0/0	
13 / 4						SS6	0/0	
15 / 4			-4.57					
		Silty Clay trace Gravel Grey silty clay trace gravel, moist, no staining or odours	4.57		100	SS7	0/0	
18 / 5						SS8	0/0	PHCs, VOCs, PAHs, Metals, EC, SAR
20 / 6			-6.10					
		End of Borehole (Refusal on inferred Bedrock)	6.10	Groundwater Level = 4.27 mbgs. on June 23, 2021				
23 / 7								



Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

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: 64.38 mamsl

Top of Casing Elevation: 64.3 mamsl

Sheet: 1 of 1

Log of Borehole: BHMW125

Project #: 285722.003 **Logged By:** MK

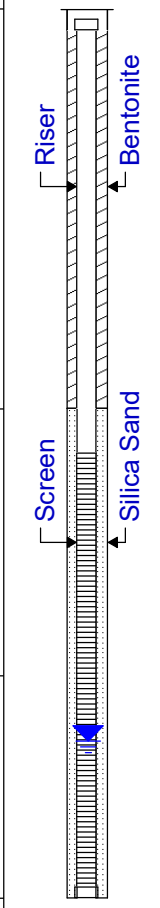
Project: Phase Two Environmental Site Assessment

Client: TIP Gladstone Limited Partnership

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: October 6, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00					
		Topsoil	0.00		50	SS1	0/0	
1 / 0		***Sand and Gravel*** Brown, damp, large stones throughout, no staining or odours				SS2	0/0	
2 / 1					60	SS3	0/0	
						SS4	0/0	
			-2.74					
3 / 2		***Silty Clay*** Grey, damp, no staining or odours	2.74		100	SS5	0/0	
4 / 3						SS6	0/0	
			-4.57					
5 / 4		***Silty Clay with large Gravel*** Grey, wet, no staining or odours	4.57		100	SS7	0/0	PHCs, VOCs, PAHs
6 / 5						SS8	0/0	
			-6.10					
7 / 6		End of Borehole (Refusal on inferred Bedrock)	6.10					



Groundwater Level = 5.02 mbgs. on October 12, 2021

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

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: 65.74 mamsl

Top of Casing Elevation: 65.62 mamsl

Sheet: 1 of 1

Log of Borehole: BH126

Project #: 285722.003 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: TIP Gladstone Limited Partnership

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: May 25, 2021

SUBSURFACE PROFILE					SAMPLE			
Depth (ft / m)	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
0 / 0		Ground Surface	0.00					
		Gravel	0.00					
1		***Fill*** Brownish black sand and gravel, damp, no staining, slight VOC like odours		No Monitoring Well Installed	30	SS1	0/0	PHCs, PAHs,VOCs
2								
3 / 1						SS2	0/0	
4								
5			-1.52					
		End of Borehole (Rig refusal on inferred Concrete)	1.52					
6								
7 / 2								
8								
9								
10 / 3								

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

Well Casing Size: N/A

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

Grade Elevation: N/A

Top of Casing Elevation: N/A

Sheet: 1 of 1

Log of Borehole: BHMW127

Project #: 285722.003 **Logged By:** MK

Project: Phase Two Environmental Site Assessment

Client: TIP Gladstone Limited Partnership C/O

Location: 951 Gladstone Ave. and 145 Loretta Ave. N, Ottawa, Ontario

Drill Date: October 6, 2021

SUBSURFACE PROFILE

Depth (ft)	Depth (m)	Description	Measured Depth (m)
0	0	Ground Surface	0.00
		Gravel	0.00
		Fill Brown sand and gravel, trace bricks, damp, no staining or odours	
			-1.52
		Large gravel stones	1.52
			-3.35
		Silty Clay Grey, damp, no staining or odours	3.35
			-4.57
		Trace gravel	4.57
			-6.86
		End of Borehole (Refusal on inferred Bedrock)	6.86

Monitoring Well Details: Riser, Bentonite, Silica Sand, Screen

Groundwater Level = 5.07 mbgs. on October 12, 2021

SAMPLE

Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
55	SS1	0/0	
	SS2	0/0	
55	SS3	0/0	
	SS4	0/0	
75	SS5	0/0	
	SS6	0/0	PHCs, VOCs, PAHs
100	SS7	0/0	
	SS8	0/0	
100	SS9	0/0	

Contractor: Strata Drilling Group Inc.

Drilling Method: Direct Push

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: 64.92 mamsl

Top of Casing Elevation: 64.82 mamsl

Sheet: 1 of 1

APPENDIX III
Summary Tables

Table 1 - Table of PCAs and APECs

Area of Potential Environmental Concern[1]	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity[2]	Location of PCA (On-Site or Off-Site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground Water, Soil and/or Sediment)
APEC-1 (Fill of unknown quality)	Entire Phase One Property	Item 30 - Importation of Fill Material of Unknown Quality	On-Site	Metals PHCs PAHs	Soil and Groundwater
APEC-2 (Fuel ASTs)	Northeast portion of Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	BTEX PHCs	Soil and Groundwater
APEC-3 (Former On-Site RFO)	Southwest portion of Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	VOCs PHCs PAHs Metals	Soil and Groundwater
APEC-4 (Former On-Site UST)	West-central portion of the Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	BTEX PHCs	Soil and Groundwater
APEC-5 (Former On-Site AST)	Southeast portion of the Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	BTEX PHCs	Soil and Groundwater

APEC-6 (Former Automotive Service Garage)	Central Portion of Phase One Property	Item 27 - Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	On-Site	VOCs PHCs PAHs	Soil and Groundwater
APEC-7 (Former Printing Facility)	Southeast Portion of Phase One Property	Item 31 - Ink Manufacturing, Processing and Bulk Storage	On-Site	VOCs PHCs PAHs Metals	Soil and Groundwater
APEC-8 (Former Rail Spur)	Southeast Portion of Phase One Property	Item 46 - Rail Yards, Tracks and Spurs	On-Site	BTEX PHCs PAHs Metals	Soil and Groundwater
APEC-9 (Off-Site UST)	North Portion of the Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	BTEX PHCs	Soil and Groundwater
APEC-10 (Off-Site Rail Tracks)	East Portion of Phase One Property	Item 46 - Rail Yards, Tracks and Spurs	Off-Site	BTEX PHCs PAHs Metals	Soil and Groundwater
APEC-11 (Former Off-Site Ordnance Depot)	East Portion of Phase One Property	Item 38 - Ordnance Use	Off-Site	VOCs PHCs PAHs Metals	Soil and Groundwater
APEC-12 (Off-Site Private Fuel Outlet)	Southeast Portion of Phase One Property	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	Off-Site	VOCs PHCs Metals	Soil and Groundwater

APEC-13 (Off-Site Printing Facility)	West Portion of Phase One Property	Item 31 - Ink Manufacturing, Processing and Bulk Storage	Off-Site	VOCs PHCs PAHs Metals	Soil and Groundwater
APEC-14 (Pad Mounted Transformer)	Central West Portion of Phase One Property	Item 55 - Transformer Manufacturing, Processing and Use	On-Site	PHCs PCBs	Soil
APEC-15 (Former On-Site UST)	Northwest of Site Building B	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	BTEX PHCs	Soil and Groundwater
APEC-16 (On-Site Salt Storage)	Northeast Portion of Phase One Property	Item 48 - Salt Manufacturing, Processing and Bulk Storage	On-Site	EC SAR Sodium Chloride	Soil and Groundwater
APEC-17 (Current/Former On-Site UST)	Northeast of Site Building A	Item 28 - Gasoline and Associated Products Storage in Fixed Tanks	On-Site	BTEX PHCs	Soil and Groundwater

TABLE 2

SOIL BULK ANALYTICAL RESULTS

CLV Group Developments Inc.

951 Gladstone Ave and 145 Loretta Ave N, Ottawa, ON

Sample Location	MECP Table 3 SCS	BH2017-1	BH2017-1	BH2017-2	BH2017-2	BH2017-3	BH2017-3	BH2017-4	BH2017-4	BH2017-5	BH2017-5	BH2017-5	BH2017-6	BH2017-7	BH2017-7
Sample Designation		BH2017-1 SS7	BH2017-1 SS12	BH2017-2 SS6	BH2017-2 SS9	BH2017-3 SS2	BH2017-3 SS11	BH2017-4 SS4	BH2017-4 SS5	BH2017-5A SS3	BH2017-5 SS7	BH2017-5 SS12	BH2017-6 SS12	BH2017-7 SS5	BH2017-7 SS8
Sample Collection Date (dd/mm/yyyy)		05/07/2017	05/07/2017	06/07/2017	06/07/2017	05/07/2017	05/07/2017	06/07/2017	06/07/2017	07/07/2017	07/07/2017	07/07/2017	07/07/2017	27/06/2017	27/06/2017
Laboratory Certificate No.		B7E2706	B7E2706	B7E2666	B7E2666	B7E2706	B7E2706	B7E2666	B7E2666	B7E5306	B7E5306	B7E5306	B7E5306	B7D5083	B7D5083
Date of Laboratory Analysis (dd/mm/yyyy)		11/07/2017-13/07/2021	11/07/2017-13/07/2021	07/072017-14/07/2017	07/072017-14/07/2017	11/07/2017-13/07/2021	11/07/2017-13/07/2021	07/072017-14/07/2017	07/072017-14/07/2017	13/07/2017-14/07/2017	13/07/2017-14/07/2017	13/07/2017-14/07/2017	13/07/2017-14/07/2017	30/06/2017-17/07/2017	30/06/2017-17/07/2017
Laboratory Sample No.		ERW223	ERW224	ERV883	ERV884	ERW225	ERW226	ERV885	ERV886	ESJ281	ESJ278	ESJ279	ESJ280	EQL314	EQL315
Sample Depth (mbgs)		3.6 - 4.2	6.6 - 7.2	3.0 - 3.6	4.8 - 5.4	0.6 - 1.2	6.0 - 6.4	1.8 - 2.4	2.4 - 3.0	1.2 - 1.8	3.6 - 4.2	6.6 - 7.2	6.6 - 7.2	2.4 - 3.0	4.2 - 4.8
Miscellaneous Parameters															
pH (pH Units)	NV	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons (PHCs)															
PHCs F1 (C_6 - C_{10})	55	**200**	**460**	<10	<10	<10	<10	33	30	<10	**60**	<10	<10	-	<10
PHCs F2 (>C_{10} - C_{16})	98	78	**470**	<10	<10	23	16	55	<10	**260**	**160**	<10	<10	-	**310**
PHCs F3 (>C_{16} - C_{34})	300	<50	<50	<50	<50	170	<50	<50	<50	**2300**	**340**	<50	<50	-	**340**
PHCs F4 (>C_{34} - C_{50})	2800	<50	<50	<50	<50	630	<50	<50	<50	490	79	<50	<50	-	<50
PHCs F4G (>C_{50})	2800	-	-	-	-	2400	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds															
Acetone	16	-	<0.50	-	<0.50	-	-	-	<0.50	<0.50	<0.50	-	<0.50	-	-
Benzene	0.21	<0.020	**0.93**	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.039	<0.020	0.11	<0.020	-	<0.020
Bromodichloromethane	13	-	<0.050	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
Bromoform	0.27	-	<0.050	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
Bromomethane	0.05	-	<0.050	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
Carbon Tetrachloride	0.05	-	<0.050	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
Chlorobenzene	2.4	-	<0.050	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
Chloroform	0.05	-	<0.050	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
Dibromochloromethane	9.4	-	<0.050	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
1,2-Dichlorobenzene	3.4	-	<0.050	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
1,3-Dichlorobenzene	4.8	-	<0.050	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
1,4-Dichlorobenzene	0.083	-	**1.1**	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
Dichlorodifluoromethane	16	-	3.8	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
1,1-Dichloroethane	3.5	-	<0.050	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
1,2-Dichloroethane	0.05	-	<0.050	-	<0.050	-	-	-	<0.050	**0.2**	<0.050	-	<0.050	-	-
1,1-Dichloroethylene	0.05	-	<0.050	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
cis-1,2-Dichloroethylene	3.4	-	<0.050	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
trans-1,2-Dichloroethylene	0.084	-	<0.050	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
1,2-Dichloropropane	0.05	-	<0.050	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
1,3-Dichloropropene (Total)	0.05	-	<0.050	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
Ethylbenzene	2	0.037	**8.1**	<0.020	0.33	<0.020	<0.020	<0.020	0.13	0.056	<0.020	<0.020	<0.020	-	<0.020
Ethylene Dibromide	0.05	-	<0.050	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
Hexane	2.8	-	**11**	-	0.17	-	-	-	0.41	<0.050	<0.050	-	<0.050	-	-
Methyl Ethyl Ketone	16	-	<0.50	-	<0.50	-	-	-	<0.50	<0.50	<0.50	-	<0.50	-	-
Methyl Isobutyl Ketone	1.7	-	<0.50	-	<0.50	-	-	-	<0.50	<0.50	<0.50	-	<0.50	-	-
Methyl t-Butyl Ether (MTBE)	0.75	-	<0.050	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
Methylene Chloride	0.1	-	<0.050	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
Styrene	0.7	-	<0.050	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
1,1,1,2-Tetrachloroethane	0.058	-	<0.050	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
1,1,2,2-Tetrachloroethane	0.05	-	<0.050	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
Tetrachloroethylene	0.28	-	<0.050	-	<0.020	-	-	-	<0.020	<0.050	<0.050	-	<0.020	-	-
Toluene	2.3	0.042	**11**	<0.020	<0.050	<0.020	0.03	<0.020	<0.050	0.32	<0.020	<0.020	<0.050	-	<0.020
1,1,1-Trichloroethane	0.38	-	<0.050	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
1,1,2-Trichloroethane	0.05	-	<0.050	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
Trichloroethylene	0.061	-	<0.050	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
Trichlorofluoromethane	4	-	<0.050	-	<0.050	-	-	-	<0.050	<0.050	<0.050	-	<0.050	-	-
Vinyl Chloride	0.02	-	<0.020	-	<0.020	-	-	-	<0.020	<0.020	<0.020	-	<0.020	-	-
Xylenes (Total)	3.1	**4.9**	**41**	<0.040	0.59	<0.040	0.13	<0.040	<0.020	0.44	<0.020	<0.040	<0.020	-	<0.040
Polycyclic Aromatic Hydrocarbons															
Acenaphthene	7.9	-	-	-	-	-	-	-	<0.0050	-	-	-	-	-	<0.010
Acenaphthylene	0.15	-	-	-	-	-	-	-	<0.0050	-	-	-	-	-	<0.0050
Anthracene	0.67	-	-	-	-	-	-	-	0.014	-	-	-	-	-	<0.0050
Benzo(a)anthracene	0.5	-	-	-	-	-	-	-	<0.0050	-	-	-	-	-	<0.0050
Benzo(a)pyrene	0.3	-	-	-	-	-	-	-	<0.0050	-	-	-	-	-	<0.0050
Benzo(b)fluoranthene	0.78	-	-	-	-	-	-	-	<0.0050	-	-	-	-	-	<0.0050
Benzo(ghi)perylene	6.6	-	-	-	-	-	-	-	<0.0050	-	-	-	-	-	<0.0050
Benzo(k)fluoranthene	0.78	-	-	-	-	-	-	-	<0.0050	-	-	-	-	-	<0.0050
Chrysene	7	-	-	-	-	-	-	-	0.005	-	-	-	-	-	<0.0050
Dibenzo(a,h)anthracene	0.1	-	-	-	-	-	-	-	<0.0050	-	-	-	-	-	<0.0050
Fluoranthene	0.69	-	-	-	-	-	-	-	0.019	-	-	-	-	-	0.01
Fluorene	62	-	-	-	-	-	-	-	0.006	-	-	-	-	-	<0.0050
Indeno(1,2,3-cd)pyrene	0.38	-	-	-	-	-	-	-	<0.0050	-	-	-	-	-	<0.0050
1- & 2-Methylnaphthalene	0.99	-	-	-	-	-	-	-	0.0073	-	-	-	-	-	<0.0071
Naphthalene	0.6	-	-	-	-	-	-	-	<0.0050	-	-	-	-	-	<0.0050
Phenanthrene	6.2	-	-	-	-	-	-	-	0.022	-	-	-	-	-	<0.0050
Pyrene	78	-	-	-	-	-	-	-	0.014	-	-	-	-	-	0.048
Metals															
Antimony	7.5	<0.2	-	-	<0.2	0.45	-	-	<0.2	-	<0.2	-	<0.2	<0.2	-
Arsenic	18	<0.1	-	-	<0.1	3.5	-	-	<1	-	1.4	-	<1	1.8	-
Barium	390	68	-	-	82	160	-	-	110	-	320	-	56	40	-
Beryllium	4	0.25	-	-	0.33	0.56	-	-	0.36	-	0.74	-	0.26	0.22	-
Boron (Total)	120	5.1	-	-	<5	8.1	-	-	5.8	-	8.1	-	6.4	<5	-
Cadmium	1.2	<0.1	-	-	<0.1	0.22	-	-	<0.1	-	<0.1	-	<0.1	<0.1	-
Chromium (Total)	160	14	-	-	18	40	-	-	21	-	100	-	15	14	-
Cobalt	22	6	-	-	6.7	10	-	-	8	-	21	-	5.4	4	-
Copper	140	11	-	-	14	35	-	-	15	-	48	-	11	7.9	-
Lead	120	5	-	-	4.7	38	-	-	4.8	-	13	-	4	7.7	-
Mercury	0.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	6.9	<0.5	-	-	<0.5	0.9	-	-	<0.5	-	0.54	-	0.55	2.3	-
Nickel	100	10	-	-	13	26	-	-	13	-	55	-	9.7	8.5	-
Selenium	2.4	<0.5	-	-	<0.5	<0.5	-	-	<0.5	-	<0.5	-	<0.5	<0.5	-
Silver	20	<0.2	-	-	<0.2	<0.2	-	-	<0.2	-	<0.2	-	<0.2	<0.2	-
Thallium	1	0.1	-	-	0.14	0.23	-	-	0.13	-	0.36	-	0.068	0.087	-
Uranium	23	0.42	-	-	0.53	0.82	-	-	0.57	-	0.66	-	0.9	0.46	-
Vanadium	86	25	-	-	32	56	-	-	34	-	**92**	-	23	18	-
Zinc	340	24	-	-	27	79	-	-	30	-	110	-	19	18	-
Inorganics															
Electrical Conductivity (mS/cm)	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium Adsorption Ratio (No Units)	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls (PCBs)															
PCBs (Total)	0.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sample Location	MECP Table 3 SCS	BH2017-7	BH2017-8	BH2017-8	BH2017-9	BH2017-9	BH2017-10	BH2017-10	BH2017-10	BH2017-11	BH2017-11	BH2017-11	BH2017-13	BH2017-13	BH1-20
Sample Designation		BH2017 -7 SS14	BH2017-8 SS5	BH2017-8 SS12	BH2017-9 SS4	BH2017-9 SS8	BH2017-10 SS10	BH2017-10 SS11	BH2017-10 SS13	BH2017-11 SS3	BH2017-11 SS11	BH2017-11 SS13	BH2017-13 SS3	BH2017-31 SS3	BH1-20-SS2/SS3
Sample Collection Date (dd/mm/yyyy)		27/06/2017	10/07/2017	10/07/2017	06/07/2017	06/07/2017	27/06/2017	27/06/2017	27/06/2017	04/07/2017	04/07/2017	04/07/2017	28/06/2017	28/06/2017	14/09/2020
Laboratory Certificate No.		B7D5083	B7E5306	B7E5306	B7E2666	B7E2666	B7D5076	B7D5076	B7D5076	B7D9999	B7D9999	B7D9999	B7D6393	B7D6393	2038458
Date of Laboratory Analysis (dd/mm/yyyy)		30/06/2017-17/07/2017	13/07/2017-14/07/2017	13/07/2017-14/07/2017	07/072017-14/07/2017	07/072017-14/07/2017	30/06/2017-05/07/2017	30/06/2017-05/07/2017	30/06/2017-05/07/2017	07/07/2017-11/07/2017	07/07/2017-11/07/2017	07/07/2017-11/07/2017	01/07/2017-07/07/2017	01/07/2017-07/07/2017	19/09/2020-22/09/2020
Laboratory Sample No.		EQL313	ESJ282	ESJ283	ERV887	ERV888	EQX158	EQL302	EQL304	ERJ082	ERJ083	ERJ084	EQR287	EQR289	2038458-01
Sample Depth (mbgs)		7.8 - 8.0	2.4 - 3.0	6.6 - 7.2	1.8 - 2.4	4.2 - 4.5	5.4 - 6.0	6.0 - 6.6	7.2 - 7.8	1.2 - 1.8	6.0 - 6.6	7.2 - 7.8	1.2 - 1.8	1.2 - 1.8	0.76 - 2.13
Miscellaneous Parameters															
pH (pH Units)	NV	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons (PHCs)															
PHCs F1 (C_6 - C_{10})	55	<10	<10	<10	<10	14	<10	<10	-	-	<10	<10	<10	<10	-
PHCs F2 (>C_{10} - C_{16})	98	<10	<10	<10	<10	<10	<10	<10	-	-	<10	<10	<10	<10	-
PHCs F3 (>C_{16} - C_{34})	300	<50	<50	<50	170	<50	<50	<50	-	-	<50	170	170	66	-
PHCs F4 (>C_{34} - C_{50})	2800	<50	<50	<50	380	<50	<50	<50	-	-	<50	370	370	180	-
PHCs F4G (>C_{50})	2800	-	-	-	920	-	-	-	-	-	-	-	-	610	-
Volatile Organic Compounds															
Acetone	16	-	-	<0.50	<0.50	-	<0.50	-	-	-	-	-	-	<0.50	-
Benzene	0.21	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	-	-	<0.020	<0.020	<0.020	<0.020	-
Bromodichloromethane	13	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
Bromoform	0.27	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
Bromomethane	0.05	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
Carbon Tetrachloride	0.05	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
Chlorobenzene	2.4	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
Chloroform	0.05	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
Dibromochloromethane	9.4	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
1,2-Dichlorobenzene	3.4	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
1,3-Dichlorobenzene	4.8	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
1,4-Dichlorobenzene	0.083	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
Dichlorodifluoromethane	16	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
1,1-Dichloroethane	3.5	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
1,2-Dichloroethane	0.05	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
1,1-Dichloroethylene	0.05	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
cis-1,2-Dichloroethylene	3.4	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
trans-1,2-Dichloroethylene	0.084	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
1,2-Dichloropropane	0.05	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
1,3-Dichloropropene (Total)	0.05	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
Ethylbenzene	2	<0.020	<0.020	<0.020	<0.020	0.19	<0.020	<0.020	-	-	<0.020	<0.020	<0.020	<0.020	-
Ethylene Dibromide	0.05	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
Hexane	2.8	-	-	0.25	<0.050	-	<0.050	-	-	-	-	-	-	0.084	-
Methyl Ethyl Ketone	16	-	-	<0.50	<0.50	-	<0.50	-	-	-	-	-	-	<0.50	-
Methyl Isobutyl Ketone	1.7	-	-	<0.50	<0.50	-	<0.50	-	-	-	-	-	-	<0.50	-
Methyl t-Butyl Ether (MTBE)	0.75	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
Methylene Chloride	0.1	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
Styrene	0.7	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
1,1,1,2-Tetrachloroethane	0.058	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
1,1,2,2-Tetrachloroethane	0.05	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
Tetrachloroethylene	0.28	-	-	<0.020	<0.020	-	<0.050	-	-	-	-	-	-	<0.050	-
Toluene	2.3	<0.020	<0.020	<0.050	<0.050	0.059	<0.020	<0.020	-	-	<0.020	<0.020	<0.020	0.027	-
1,1,1-Trichloroethane	0.38	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
1,1,2-Trichloroethane	0.05	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
Trichloroethylene	0.061	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
Trichlorofluoromethane	4	-	-	<0.050	<0.050	-	<0.050	-	-	-	-	-	-	<0.050	-
Vinyl Chloride	0.02	-	-	<0.020	<0.020	-	<0.020	-	-	-	-	-	-	<0.020	-
Xylenes (Total)	3.1	0.10	<0.040	0.029	<0.020	0.87	<0.020	<0.040	-	-	<0.040	<0.040	<0.040	0.031	-
Polycyclic Aromatic Hydrocarbons															
Acenaphthene	7.9	-	-	-	<0.050	-	-	-	-	0.26	-	-	-	0.082	0.02
Acenaphthylene	0.15	-	-	-	<0.050	-	-	-	-	**0.84**	-	-	-	0.072	0.07
Anthracene	0.67	-	-	-	<0.050	-	-	-	-	**0.73**	-	-	-	0.13	0.12
Benzo(a)anthracene	0.5	-	-	-	<0.050	-	-	-	-	**3.5**	-	-	-	0.23	0.28
Benzo(a)pyrene	0.3	-	-	-	<0.050	-	-	-	-	**3.2**	-	-	-	0.19	0.28
Benzo(b)fluoranthene	0.78	-	-	-	<0.050	-	-	-	-	**3.9**	-	-	-	0.24	0.34
Benzo(ghi)perylene	6.6	-	-	-	<0.050	-	-	-	-	2.1	-	-	-	0.11	0.18
Benzo(k)fluoranthene	0.78	-	-	-	<0.050	-	-	-	-	**1.4**	-	-	-	0.085	0.18
Chrysene	7	-	-	-	<0.050	-	-	-	-	2.9	-	-	-	0.190	0.26
Dibenzo(a,h)anthracene	0.1	-	-	-	<0.050	-	-	-	-	**0.51**	-	-	-	<0.050	0.05
Fluoranthene	0.69	-	-	-	0.067	-	-	-	-	**7.0**	-	-	-	0.52	0.54
Fluorene	62	-	-	-	<0.050	-	-	-	-	0.46	-	-	-	0.15	0.02
Indeno(1,2,3-cd)pyrene	0.38	-	-	-	<0.050	-	-	-	-	**2.5**	-	-	-	0.11	0.17
1- & 2-Methylnaphthalene	0.99	-	-	-	<0.050	-	-	-	-	0.62	-	-	-	0.30	0.26
Naphthalene	0.6	-	-	-	<0.050	-	-	-	-	0.40	-	-	-	0.18	0.10
Phenanthrene	6.2	-	-	-	0.074	-	-	-	-	2.2	-	-	-	0.49	0.29
Pyrene	78	-	-	-	0.055	-	-	-	-	5.7	-	-	-	0.38	0.48
Metals															
Antimony	7.5	-	0.21	-	<0.2	-	-	-	1.7	3.9	-	-	<0.2	0.34	-
Arsenic	18	-	2	-	<1	-	-	-	4.7	**33**	-	-	2.1	1.7	-
Barium	390	-	370	-	190	-	-	-	170	300	-	-	340	290	-
Beryllium	4	-	0.78	-	0.56	-	-	-	0.46	0.44	-	-	0.74	0.72	-
Boron (Total)	120	-	7.7	-	5.8	-	-	-	7.3	11	-	-	6.6	6.2	-
Cadmium	1.2	-	0.1	-	<0.1	-	-	-	0.24	0.8	-	-	0.14	0.17	-
Chromium (Total)	160	-	120	-	42	-	-	-	36	31	-	-	110	100	-
Cobalt	22	-	22	-	12	-	-	-	9.5	7	-	-	**23**	21	-
Copper	140	-	54	-	24	-	-	-	30	100	-	-	55	50	-
Lead	120	-	10	-	5.9	-	-	-	70	**410**	-	-	18	22	-
Mercury	0.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	6.9	-	0.53	-	<0.5	-	-	-	1.6	6.5	-	-	0.54	0.66	-
Nickel	100	-	64	-	26	-	-	-	25	29	-	-	62	59	-
Selenium	2.4	-	<0.5	-	<0.5	-	-	-	<0.5	1.2	-	-	<0.5	<0.5	-
Silver	20	-	<0.2	-	<0.2	-	-	-	<0.2	0.37	-	-	<0.2	<0.2	-
Thallium	1	-	0.38	-	0.28	-	-	-	0.2	0.19	-	-	0.41	0.36	-
Uranium	23	-	0.57	-	0.58	-	-	-	0.65	1.2	-	-	0.68	0.7	-
Vanadium	86	-	**90**	-	62	-	-	-	40	24	-	-	**100**	**95**	-
Zinc	340	-	110	-	63	-	-	-	90	310	-	-	120	110	-
Inorganics															
Electrical Conductivity (mS/cm)	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium Adsorption Ratio (No Units)	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls (PCBs)															
PCBs (Total)	0.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sample Location	MECP Table 3 SCS	BH2-20	BH2-20	BH3-20	BH3-20	BH3-20	BH4-20	BH5-20	BH5-20	BH101	BH101	BH102	BH102	BH103	BH103	BH104
Sample Designation		BH2-20-SS2	BH2-20-SS7	BH3-20-SS2	BH3-20-SS6	BH3-20-SS11	BH4-20-SS5	BH5-20-SS2	BH5-20-SS10	BH101 SS2	BH101 SS6	BH102 SS2	BH102 SS6	BH103 SS2	BH103 SS7	BH104 SS4
Sample Collection Date (dd/mm/yyyy)		14/09/2020	14/09/2020	22/09/2020	22/09/2020	22/09/2020	22/09/2020	23/09/2020	23/09/2020	26/04/2021	26/04/2021	26/04/2021	26/04/2021	26/04/2021	26/04/2021	26/04/2021
Laboratory Certificate No.		2038458	2038458	2039462	2039462	2039462	2039462	2039597	2039597	C1B6083	C1B6083	C1B6083	C1B6083	C1B6083	C1B6083	C1B6083
Date of Laboratory Analysis (dd/mm/yyyy)		19/09/2020-22/09/2020	19/09/2020-22/09/2020	25/09/2020-28/09/2020	25/09/2020-28/09/2020	25/09/2020-28/09/2020	25/09/2020-28/09/2020	28/09/2020	28/09/2020	30/04/2021-06/05/2021	30/04/2021-06/05/2021	30/04/2021-06/05/2021	30/04/2021-06/05/2021	30/04/2021-06/05/2021	30/04/2021-06/05/2021	30/04/2021-06/05/2021
Laboratory Sample No.		2038458-02	2038458-03	2039462-01	2039462-02	2039462-03	2039462-04	2039597-01	2039597-02	PLN551	PLN552	PLN553	PLN554	PLN555	PLN556	PLN557
Sample Depth (mbgs)		0.76 - 1.37	4.57 - 5.18	0.76 - 1.37	3.81 - 4.41	7.62 - 7.87	3.05 - 3.66	0.76 - 1.37	6.86 - 6.93	0.75 - 1.50	3.81 - 4.57	0.75 - 1.50	3.81 - 4.57	0.75 - 1.50	4.57 - 5.33	2.29 - 3.05
Miscellaneous Parameters																
pH (pH Units)	NV	-	-	-	-	-	-	-	-	-	-	-	-	7.97	7.82	-
Petroleum Hydrocarbons (PHCs)																
PHCs F1 (C_6 - C_{10})	55	-	<7	-	-	-	-	-	-	<10	<10	<10	<10	<10	<10	<10
PHCs F2 (>C_{10} - C_{16})	98	-	<4	-	-	-	-	-	-	**550**	<10	<10	<10	<10	<10	<10
PHCs F3 (>C_{16} - C_{34})	300	-	<8	-	-	-	-	-	-	**690**	<50	82	<50	<50	<50	210
PHCs F4 (>C_{34} - C_{50})	2800	-	<6	-	-	-	-	-	-	110	<50	54	<50	91	<50	170
PHCs F4G (>C_{50})	2800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds																
Acetone	16	-	-	-	-	<0.5	-	-	<0.5	-	-	-	-	-	-	-
Benzene	0.21	-	<0.020	-	-	<0.02	-	-	<0.02	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Bromodichloromethane	13	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
Bromoform	0.27	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
Bromomethane	0.05	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
Carbon Tetrachloride	0.05	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
Chlorobenzene	2.4	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
Chloroform	0.05	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
Dibromochloromethane	9.4	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
1,2-Dichlorobenzene	3.4	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
1,3-Dichlorobenzene	4.8	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
1,4-Dichlorobenzene	0.083	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
Dichlorodifluoromethane	16	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
1,1-Dichloroethane	3.5	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
1,2-Dichloroethane	0.05	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
1,1-Dichloroethylene	0.05	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
cis-1,2-Dichloroethylene	3.4	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
trans-1,2-Dichloroethylene	0.084	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
1,2-Dichloropropane	0.05	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
1,3-Dichloropropene (Total)	0.05	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
Ethylbenzene	2	-	<0.05	-	-	<0.05	-	-	<0.05	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Ethylene Dibromide	0.05	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
Hexane	2.8	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
Methyl Ethyl Ketone	16	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
Methyl Isobutyl Ketone	1.7	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
Methyl t-Butyl Ether (MTBE)	0.75	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
Methylene Chloride	0.1	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
Styrene	0.7	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	0.058	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	0.05	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
Tetrachloroethylene	0.28	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
Toluene	2.3	-	<0.05	-	-	<0.05	-	-	<0.05	0.024	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
1,1,1-Trichloroethane	0.38	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
1,1,2-Trichloroethane	0.05	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
Trichloroethylene	0.061	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
Trichlorofluoromethane	4	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-
Vinyl Chloride	0.02	-	-	-	-	<0.02	-	-	<0.02	-	-	-	-	-	-	-
Xylenes (Total)	3.1	-	<0.05	-	-	<0.05	-	-	<0.05	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Polycyclic Aromatic Hydrocarbons																
Acenaphthene	7.9	0.04	-	0.09	0.02	-	0.02	0.18	-	0.43	<0.0050	0.046	0.018	<0.050	<0.0050	0.052
Acenaphthylene	0.15	**0.20**	-	**0.80**	0.07	-	<0.02	**0.67**	-	**0.18**	<0.0050	0.073	<0.0050	<0.050	<0.0050	**0.16**
Anthracene	0.67	0.21	-	**0.85**	0.09	-	0.05	**1.09**	-	0.43	<0.0050	0.18	0.0085	<0.050	<0.0050	0.21
Benzo(a)anthracene	0.5	0.40	-	**1.77**	0.25	-	0.11	**2.29**	-	**1.2**	<0.0050	0.49	<0.0050	0.081	<0.0050	**0.97**
Benzo(a)pyrene	0.3	**0.57**	-	**1.98**	**0.32**	-	0.12	**2.26**	-	**1.3**	<0.0050	**0.5**	<0.0050	0.081	<0.0050	**1.3**
Benzo(b)fluoranthene	0.78	0.64	-	**2.40**	0.37	-	0.15	**2.25**	-	**1.8**	<0.0050	0.63	<0.0050	0.13	0.0053	**1.8**
Benzo(ghi)perylene	6.6	0.32	-	1.55	0.21	-	0.06	1.13	-	0.96	<0.0050	0.35	<0.0050	0.058	<0.0050	1.1
Benzo(k)fluoranthene	0.78	0.37	-	**1.31**	0.19	-	0.08	**1.09**	-	0.68	<0.0050	0.23	<0.0050	<0.050	<0.0050	0.66
Chrysene	7	0.51	-	1.97	0.26	-	0.11	2.30	-	1	<0.0050	0.43	<0.0050	0.077	<0.0050	0.86
Dibenzo(a,h)anthracene	0.1	0.08	-	**0.41**	0.05	-	<0.02	**0.35**	-	**0.25**	<0.0050	0.089	<0.0050	<0.050	<0.0050	**0.25**
Fluoranthene	0.69	**0.81**	-	**3.90**	0.54	-	0.23	**5.15**	-	**2.6**	<0.0050	**1.1**	<0.0050	0.21	0.0093	**1.7**
Fluorene	62	0.03	-	0.14	0.03	-	<0.02	0.30	-	0.35	<0.0050	0.11	0.031	<0.050	<0.0050	0.066
Indeno(1,2,3-cd)pyrene	0.38	0.29	-	**1.47**	0.20	-	0.07	**1.17**	-	**0.98**	<0.0050	0.35	<0.0050	0.064	<0.0050	**1.1**
1- & 2-Methylnaphthalene	0.99	0.08	-	0.10	0.06	-	<0.04	0.29	-	0.44	<0.0071	0.084	<0.0071	<0.071	<0.0071	<0.071
Naphthalene	0.6	0.03	-	0.05	0.03	-	<0.01	0.32	-	<0.30	<0.0050	0.026	<0.0050	<0.050	<0.0050	0.062
Phenanthrene	6.2	0.39	-	1.44	0.28	-	0.19	3.30	-	1.7	<0.0050	0.75	0.022	0.11	0.0083	0.76
Pyrene	78	0.69	-	3.08	0.45	-	0.19	4.40	-	2.2	<0.0050	1	0.0076	0.17	0.0075	1.4
Metals																
Antimony	7.5	-	-	5.9	-	-	<1	-	-	1	-	1.5	-	0.38	-	3.8
Arsenic	18	-	-	**56.6**	-	-	**20.7**	-	-	12	-	**23**	-	5.1	-	16
Barium	390	-	-	249	-	-	109	-	-	300	-	360	-	40	-	150
Beryllium	4	-	-	0.6	-	-	0.7	-	-	0.71	-	1.3	-	0.33	-	0.33
Boron (Total)	120	-	-	12	-	-	11.9	-	-	7.7	-	11	-	11	-	12
Cadmium	1.2	-	-	1.1	-	-	<0.5	-	-	0.61	-	0.48	-	0.15	-	0.76
Chromium (Total)	160	-	-	84	-	-	30.3	-	-	84	-	77	-	30	-	26
Cobalt	22	-	-	6.4	-	-	9.7	-	-	17	-	16	-	6.8	-	13
Copper	140	-	-	118	-	-	26.1	-	-	120	-	66	-	16	-	130
Lead	120	-	-	**484**	-	-	46.1	-	-	90	-	**150**	-	51	-	**500**
Mercury	0.27	-	-	-	-	-	-	-	-	0.26	-	0.23	-	<0.050	-	0.18
Molybdenum	6.9	-	-	**9**	-	-	<1	-	-	1.6	-	2.4	-	2.8	-	2.2
Nickel	100	-	-	28.2	-	-	20.8	-	-	49	-	48	-	18	-	23
Selenium	2.4	-	-	1.7	-	-	<1	-	-	0.96	-	**2.5**	-	<0.50	-	0.53
Silver	20	-	-	0.8	-	-	<0.3	-	-	<0.20	-	0.2	-	<0.20	-	1.2
Thallium	1	-	-	<1	-	-	<1	-	-	0.36	-	0.53	-	0.33	-	0.11
Uranium	23	-	-	1.4	-	-	<1	-	-	0.82	-	0.99	-	0.58	-	0.46
Vanadium	86	-	-	25.6	-	-	41.2	-	-	79	-	75	-	31	-	25
Zinc	340	-	-	**374**	-	-	77.3	-	-	210	-	280	-	65	-	200
Inorganics																
Electrical Conductivity (mS/cm)	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium Adsorption Ratio (No Units)	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls (PCBs)																
PCBs (Total)	0.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
MECP Table 3 SCS:
Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, for Residential/Parkland/Institutional Property Use and Coarse-Textured Soils

BOLD	Exceeds SCS
BOLD	Reportable Detection Limit Exceeds SCS
Units	All units in micrograms per gram, unless otherwise noted
mbgs	metres below ground surface
mS/cm	milliSiemens per centimetre

Input By: CT [22-Jul-2021]
Checked By: EC [6-Aug-2021]

TABLE 2
SOIL BULK ANALYTICAL RESULTS
CLV Group Developments Inc.
951 Gladstone Ave and 145 Loretta Ave N, Ottawa, ON

Sample Location	MECP Table 3 SCS	BH104	BH105	BH105	BH106	BH106	BH107	BH107	BH107	BH108	BH108	BH109	BH110	BH110
Sample Designation		BH104 SS7	BH105 SS2	BH105 SS7	BH106 SS4	BH106 SS8	BH107 SS3	DUP-1	BH107 SS7	BHMW108 SS2	BHMW108 SS8	BHMW109 SS7	BHMW110 SS7	DUP-2
Sample Collection Date (dd/mm/yyyy)		26/04/2021	26/04/2021	26/04/2021	26/04/2021	26/04/2021	26/04/2021	26/04/2021	26/04/2021	26/04/2021	26/04/2021	27/04/2021	27/04/2021	27/04/2021
Laboratory Certificate No.		C1B6083	C1B6083	C1B6083	C1B6083	C1B6083	C1B6083	C1B6083	C1B6083	C1B6083	C1B6083	C1B6083	C1B6083	C1B6083
Date of Laboratory Analysis (dd/mm/yyyy)		30/04/2021-06/05/2021	30/04/2021-06/05/2021	30/04/2021-06/05/2021	30/04/2021-06/05/2021	30/04/2021-06/05/2021	30/04/2021-06/05/2021	30/04/2021-06/05/2021	30/04/2021-06/05/2021	30/04/2021-06/05/2021	30/04/2021-06/05/2021	30/04/2021-06/05/2021	30/04/2021-06/05/2021	30/04/2021-06/05/2021
Laboratory Sample No.		PLN558	PLN559	PLN560	PLN575	PLN576	PLN577	PLN578	PLN579	PLN580	PLN581	PLN582	PLN583	PLN584
Sample Depth (mbgs)		4.57 - 5.33	0.75 - 1.50	4.57 - 5.33	2.29 - 3.05	5.33 - 6.10	1.52 - 2.29	1.52 - 2.29	4.57 - 5.33	0.75 - 1.50	5.33 - 6.10	4.57 - 5.33	4.57 - 5.33	4.57 - 5.33
Miscellaneous Parameters														
pH (pH Units)	NV	-	7.8	7.42	-	-	-	-	-	8.06	-	7.78	-	-
Petroleum Hydrocarbons (PHCs)														
PHCs F1 (C_6 - C_{10})	55	<10	<10	11	<10	<10	<10	<10	<10	-	**520**	15	**390**	**580**
PHCs F2 (>C_{10} - C_{16})	98	**130**	<10	**280**	<10	<10	<10	<10	<10	-	27	<10	90	39
PHCs F3 (>C_{16} - C_{34})	300	160	190	**340**	<50	<50	130	**320**	<50	-	<50	<50	<50	<50
PHCs F4 (>C_{34} - C_{50})	2800	<100	300	<50	<50	<50	430	1100	<50	-	<50	<50	<50	<50
PHCs F4G (>C_{50})	2800	-	1000	-	-	-	1100	**3100**	-	-	-	-	-	-
Volatile Organic Compounds														
Acetone	16	-	-	-	-	-	-	-	-	-	<0.50	<0.50	<1.0	<1.0
Benzene	0.21	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	-	**0.3**	<0.020	<0.020	<0.020
Bromodichloromethane	13	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
Bromoform	0.27	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
Bromomethane	0.05	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
Carbon Tetrachloride	0.05	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
Chlorobenzene	2.4	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
Chloroform	0.05	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
Dibromochloromethane	9.4	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
1,2-Dichlorobenzene	3.4	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
1,3-Dichlorobenzene	4.8	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	0.083	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
Dichlorodifluoromethane	16	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethane	3.5	-	-	-	-	-	-	-	-	-	<0.080	<0.050	<0.050	<0.050
1,2-Dichloroethane	0.05	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethylene	0.05	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
cis-1,2-Dichloroethylene	3.4	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
trans-1,2-Dichloroethylene	0.084	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
1,2-Dichloropropane	0.05	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
1,3-Dichloropropene (Total)	0.05	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	2	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	-	**9.2**	<0.020	1.8	1.7
Ethylene Dibromide	0.05	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
Hexane	2.8	-	-	-	-	-	-	-	-	-	**24**	1.2	**21**	**16**
Methyl Ethyl Ketone	16	-	-	-	-	-	-	-	-	-	<0.50	<0.50	<0.50	<0.50
Methyl Isobutyl Ketone	1.7	-	-	-	-	-	-	-	-	-	<0.50	<0.50	<0.50	<0.50
Methyl t-Butyl Ether (MTBE)	0.75	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
Methylene Chloride	0.1	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
Styrene	0.7	-	-	-	-	-	-	-	-	-	<0.20	<0.050	<0.050	<0.050
1,1,1,2-Tetrachloroethane	0.058	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
1,1,2,2-Tetrachloroethane	0.05	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
Tetrachloroethylene	0.28	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
Toluene	2.3	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	-	**12**	<0.020	<0.020	<0.020
1,1,1-Trichloroethane	0.38	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	0.05	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
Trichloroethylene	0.061	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
Trichlorofluoromethane	4	-	-	-	-	-	-	-	-	-	<0.050	<0.050	<0.050	<0.050
Vinyl Chloride	0.02	-	-	-	-	-	-	-	-	-	<0.020	<0.020	<0.020	<0.020
Xylenes (Total)	3.1	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	-	**52**	0.093	3	2.5
Polycyclic Aromatic Hydrocarbons														
Acenaphthene	7.9	0.018	0.084	0.065	<0.0050	<0.0050	<0.050	<0.050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Acenaphthylene	0.15	<0.0050	0.076	<0.0050	<0.0050	<0.0050	<0.050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Anthracene	0.67	0.0063	0.29	<0.050	<0.0050	<0.0050	<0.050	<0.050	0.014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benzo(a)anthracene	0.5	<0.0050	**1.2**	<0.0050	<0.0050	<0.0050	<0.050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benzo(a)pyrene	0.3	<0.0050	**1.2**	<0.0050	<0.0050	<0.0050	<0.050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benzo(b)fluoranthene	0.78	<0.0050	**1.4**	<0.0050	<0.0050	<0.0050	<0.050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benzo(ghi)perylene	6.6	<0.0050	0.7	<0.0050	<0.0050	<0.0050	<0.050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benzo(k)fluoranthene	0.78	<0.0050	0.55	<0.0050	<0.0050	<0.0050	<0.050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Chrysene	7	<0.0050	1	<0.0050	<0.0050	<0.0050	<0.050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Dibenzo(a,h)anthracene	0.1	<0.0050	**0.2**	<0.0050	<0.0050	<0.0050	<0.050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Fluoranthene	0.69	0.012	**2**	0.02	<0.0050	<0.0050	<0.050	<0.050	0.01	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Fluorene	62	<0.0050	0.23	<0.020	<0.0050	<0.0050	<0.050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Indeno(1,2,3-cd)pyrene	0.38	<0.0050	**0.7**	<0.0050	<0.0050	<0.0050	<0.050	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
1- & 2-Methylnaphthalene	0.99	<0.0071	0.32	<0.011	<0.0071	<0.0071	<0.071	<0.071	<0.0071	<0.0071	0.17	<0.0071	0.26	0.16
Naphthalene	0.6	<0.0050	0.072	<0.010	<0.0050	<0.0050	<0.050	<0.050	<0.0050	<0.0050	0.23	<0.0050	0.049	0.028
Phenanthrene	6.2	0.031	1.5	<0.0050	<0.0050	<0.0050	<0.050	<0.050	0.0071	<0.0050	<0.0050	0.0056	<0.0050	<0.0050
Pyrene	78	0.025	2.3	0.069	<0.0050	<0.0050	<0.050	<0.050	0.017	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Metals														
Antimony	7.5	-	1.1	-	<0.20	-	<0.20	<0.20	-	<0.20	-	-	-	-
Arsenic	18	-	7.9	-	1.8	-	2	1.5	-	<1.0	-	-	-	-
Barium	390	-	100	-	43	-	43	47	-	31	-	-	-	-
Beryllium	4	-	0.39	-	0.25	-	0.32	0.25	-	0.2	-	-	-	-
Boron (Total)	120	-	9	-	7	-	9.7	7.7	-	5.4	-	-	-	-
Cadmium	1.2	-	0.15	-	<0.10	-	<0.10	<0.10	-	<0.10	-	-	-	-
Chromium (Total)	160	-	19	-	11	-	16	22	-	15	-	-	-	-
Cobalt	22	-	6.6	-	3.6	-	4.8	5.2	-	4.1	-	-	-	-
Copper	140	-	19	-	11	-	14	14	-	6	-	-	-	-
Lead	120	-	45	-	4.3	-	4	4.1	-	3.9	-	-	-	-
Mercury	0.27	-	0.079	-	<0.050	-	<0.050	<0.050	-	<0.050	-	-	-	-
Molybdenum	6.9	-	0.92	-	1.1	-	0.76	1.9	-	<0.50	-	-	-	-
Nickel	100	-	15	-	8.1	-	11	12	-	8.3	-	-	-	-
Selenium	2.4	-	<0.50	-	<0.50	-	<0.50	<0.50	-	<0.50	-	-	-	-
Silver	20	-	<0.20	-	<0.20	-	<0.20	<0.20	-	<0.20	-	-	-	-
Thallium	1	-	0.15	-	0.075	-	0.11	0.096	-	0.081	-	-	-	-
Uranium	23	-	0.51	-	0.5	-	0.39	0.47	-	0.49	-	-	-	-
Vanadium	86	-	28	-	20	-	36	34	-	46	-	-	-	-
Zinc	340	-	56	-	16	-	21	19	-	19	-	-	-	-
Inorganics														
Electrical Conductivity (mS/cm)	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium Adsorption Ratio (No Units)	5	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls (PCBs)														
PCBs (Total)	0.35	-	-	-	-	-	-	-	-	-	-	-	-	-

Sample Location	BH111	BH112	BH112	BH113	BH113	BH114	BH114	BH115	BH115	BH116	BH116	BH117	BH118	BH118
Sample Designation	BHMW111 SS6	BHMW112 SS3	BHMW112 SS7	BH113 SS3	BH113 SS7	BHMW114 SS3	BHMW114 SS9	BHMW115 SS3	BHMW115 SS7	BHMW116 SS4	BHMW116 SS7	BHMW117 SS3	BHMW118 SS2	DUP-3
Sample Collection Date (dd/mm/yyyy)	27/04/2021	27/04/2021	27/04/2021	28/04/2021	28/04/2021	29/04/2021	29/04/2021	28/04/2021	28/04/2021	30/04/2021	30/04/2021	30/04/2021	30/04/2021	30/04/2021
Laboratory Certificate No.	C1B6083	C1B6083	C1B6083	C1B6083	C1B6083	C1B8527	C1B8527	C1B6083	C1B6083	C1B8527	C1B8527	C1B8527	C1B8527	C1B8527
Date of Laboratory Analysis (dd/mm/yyyy)	30/04/2021-06/05/2021	30/04/2021-06/05/2021	30/04/2021-06/05/2021	30/04/2021-06/05/2021	30/04/2021-06/05/2021	05/05/2021-10/05/2021	05/05/2021-10/05/2021	30/04/2021-06/05/2021	30/04/2021-06/05/2021	05/05/2021-10/05/2021	05/05/2021-10/05/2021	05/05/2021-10/05/2021	05/05/2021-10/05/2021	05/05/2021-10/05/2021
Laboratory Sample No.	PLN636	PLN637	PLN638	PLN639	PLN640	PMA916	PMA917	PLN641	PLN642	PMA918	PMA919	PMA920	PMA921	PMA922
Sample Depth (mbgs)	3.81 - 4.57	1.52 - 2.29	4.57 - 5.33	1.52 - 2.29	4.57 - 5.33	1.52 - 2.29	6.10 - 7.01	1.52 - 2.29	4.57 - 5.33	2.29 - 3.05	4.57 - 5.33	1.52 - 2.29	0.75 - 1.52	0.75 - 1.52
Miscellaneous Parameters														
pH (pH Units)	-	8.05	7.73	7.94	7.7	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons (PHCs)														
PHCs F1 (C_6 - C_{10})	**2600**	-	21	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PHCs F2 (>C_{10} - C_{16})	**400**	-	**120**	<10	27	<10	<10	<10	<10	10	<10	<10	<10	<10
PHCs F3 (>C_{16} - C_{34})	<50	-	<50	<50	**1600**	260	<50	<50	**590**	61	<50	<50	<50	<50
PHCs F4 (>C_{34} - C_{50})	<50	-	<50	<50	170	<50	<50	<50	69	<50	<50	<50	<50	250
PHCs F4G (>C_{50})	-	-	-	-	-	-	-	-	-	-	-	-	-	1000
Volatile Organic Compounds														
Acetone	<3.5	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Benzene	<0.020	-	<0.020	<0.020	<0.020	<0.020	0.097	<0.020	0.021	<0.020	<0.020	<0.020	<0.020	<0.020
Bromodichloromethane	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
Bromoform	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
Bromomethane	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
Carbon Tetrachloride	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
Chlorobenzene	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
Chloroform	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
Dibromochloromethane	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
1,2-Dichlorobenzene	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
1,3-Dichlorobenzene	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
Dichlorodifluoromethane	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
1,1-Dichloroethane	<0.10	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
1,2-Dichloroethane	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
1,1-Dichloroethylene	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
cis-1,2-Dichloroethylene	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
trans-1,2-Dichloroethylene	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
1,2-Dichloropropane	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
1,3-Dichloropropene (Total)	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
Ethylbenzene	**49**	-	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Ethylene Dibromide	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
Hexane	**51**	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
Methyl Ethyl Ketone	<0.50	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Methyl Isobutyl Ketone	<0.50	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50
Methyl t-Butyl Ether (MTBE)	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
Methylene Chloride	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
Styrene	<0.40	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
1,1,1,2-Tetrachloroethane	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
1,1,2,2-Tetrachloroethane	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
Tetrachloroethylene	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
Toluene	**2.8**	-	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
1,1,1-Trichloroethane	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050		<0.050	<0.050	<0.050
1,1,2-Trichloroethane	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
Trichloroethylene	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
Trichlorofluoromethane	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050
Vinyl Chloride	<0.020	-	<0.020	<0.020	<0.020	<0.020	-	<0.020	<0.020	<0.020	-	<0.020	<0.020	<0.020
Xylenes (Total)	**280**	-	<0.020	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020	<0.040	<0.020	<0.020	<0.020
Polycyclic Aromatic Hydrocarbons														
Acenaphthene	0.039	<0.0050	<0.0050	-	<0.0050	-	-	-	<0.0050	<0.0050	-	0.007	0.018	<0.050
Acenaphthylene	<0.010	<0.0050	<0.0050	-	<0.0050	-	-	-	<0.0050	<0.0050	-	0.0061	0.019	<0.050
Anthracene	0.011	<0.0050	<0.0050	-	<0.0050	-	-	-	<0.0050	<0.0050	-	0.028	0.079	<0.050
Benzo(a)anthracene	<0.0050	<0.0050	<0.0050	-	<0.0050	-	-	-	<0.0050	<0.0050	-	0.094	0.23	<0.050
Benzo(a)pyrene	<0.0050	<0.0050	<0.0050	-	<0.0050	-	-	-	<0.0050	<0.0050	-	0.092	0.21	<0.050
Benzo(b)fluoranthene	<0.0050	<0.0050	0.0053	-	<0.0050	-	-	-	<0.0050	<0.0050	-	0.12	0.25	<0.050
Benzo(ghi)perylene	<0.0050	<0.0050	<0.0050	-	<0.0050	-	-	-	<0.0050	<0.0050	-	0.055	0.13	<0.050
Benzo(k)fluoranthene	<0.0050	<0.0050	<0.0050	-	<0.0050	-	-	-	<0.0050	<0.0050	-	0.047	0.091	<0.050
Chrysene	<0.0050	<0.0050	<0.0050	-	<0.0050	-	-	-	<0.0050	<0.0050	-	0.083	0.21	<0.050
Dibenzo(a,h)anthracene	<0.0050	<0.0050	<0.0050	-	<0.0050	-	-	-	<0.0050	<0.0050	-	0.014	0.037	<0.050
Fluoranthene	0.0096	<0.0050	0.01	-	<0.0050	-	-	-	<0.0050	<0.0050	-	0.21	0.42	0.059
Fluorene	0.042	<0.0050	<0.0050	-	<0.0050	-	-	-	<0.0050	<0.0050	-	0.008	0.053	<0.050
Indeno(1,2,3-cd)pyrene	<0.0050	<0.0050	<0.0050	-	<0.0050	-	-	-	<0.0050	<0.0050	-	0.056	0.13	<0.050
1- & 2-Methylnaphthalene	**8.4**	0.027	<0.0071	-	<0.0071	-	-	-	<0.0071	<0.0071	-	<0.0071	0.042	<0.071
Naphthalene	**5.3**	0.0057	<0.0050	-	<0.0050	-	-	-	<0.0050	<0.0050	-	<0.0050	0.0053	<0.050
Phenanthrene	0.055	<0.0050	0.0064	-	<0.0050	-	-	-	0.0094	<0.0050	-	0.099	0.36	<0.050
Pyrene	0.013	<0.0050	0.0087	-	<0.0050	-	-	-	0.0093	<0.0050	-	0.17	0.56	0.075
Metals														
Antimony	-	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	1.4	0.28	<0.20
Arsenic	-	1.6	-	-	<1.0	-	<1.0	-	<1.0	-	<1.0	4.5	3.1	1.9
Barium	-	**430**	-	-	140	-	38	-	180	-	41	220	320	240
Beryllium	-	0.92	-	-	0.57	-	<0.20	-	0.57	-	<0.20	0.55	0.66	0.24
Boron (Total)	-	8.8	-	-	6.5	-	<5.0	-	5.5	-	<5.0	6.3	7	7.2
Cadmium	-	0.11	-	-	<0.10	-	<0.10	-	<0.10	-	<0.10	0.13	0.18	<0.10
Chromium (Total)	-	110	-	-	33	-	9.4	-	40	-	9.7	49	72	10
Cobalt	-	**23**	-	-	9.8	-	3.5	-	11	-	3.6	12	16	3.9
Copper	-	50	-	-	25	-	7.1	-	24	-	8.1	31	40	9.2
Lead	-	7.6	-	-	5	-	2	-	6.3	-	2.4	21	90	21
Mercury	-	<0.050	-	-	<0.050	-	<0.050	-	<0.050	-	<0.050	0.054	0.26	<0.050
Molybdenum	-	<0.50	-	-	<0.50	-	0.54	-	<0.50	-	<0.50	0.5	0.88	1.2
Nickel	-	63	-	-	23	-	6.4	-	24	-	7	33	44	11
Selenium	-	<0.50	-	-	<0.50	-	<0.50	-	<0.50	-	<0.50	<0.50	<0.50	<0.50
Silver	-	<0.20	-	-	<0.20	-	<0.20	-	<0.20	-	<0.20	<0.20	<0.20	<0.20
Thallium	-	0.43	-	-	0.23	-	0.055	-	0.26	-	0.062	0.25	0.38	0.14
Uranium	-	0.58	-	-	0.53	-	0.64	-	0.57	-	0.66	0.55	0.64	0.4
Vanadium	-	**97**	-	-	56	-	18	-	64	-	19	56	70	15
Zinc	-	130	-	-	52	-	12	-	66	-	13	84	120	22
Inorganics														
Electrical Conductivity (mS/cm)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium Adsorption Ratio (No Units)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls (PCBs)														
PCBs (Total)	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sample Location	BH121	BH121	BH122	BH122	BH123	BH124	BH124	BH124	BH125	BH126	BH127
Sample Designation	BH121 SS1	DUP101	BHMW122 SS6	BHMW122 SS8	BHMW123 SS5	BHMW124 SS1	DUP102	BHMW124 SS8	BHMW125 SS7	BHMW126 SS1	BHMW127 SS6
Sample Collection Date (dd/mm/yyyy)	25/05/2021	25/05/2021	25/05/2021	25/05/2021	25/05/2021	25/05/2021	25/05/2021	25/05/2021	06/10/2021	06/10/2021	06/10/2021
Laboratory Certificate No.	C1E5924	C1E5924	C1E5924	C1E5924	C1E5924	C1E5924	C1E5924	C1E5924	C1T8290	C1T8290	C1T8290
Date of Laboratory Analysis (dd/mm/yyyy)	31/05/2021-08/06/2021	31/05/2021-08/06/2021	31/05/2021-08/06/2021	31/05/2021-08/06/2021	31/05/2021-08/06/2021	31/05/2021-08/06/2021	31/05/2021-08/06/2021	31/05/2021-08/06/2021	13/10/2021-21/10/2021	13/10/2021-21/10/2021	13/10/2021-21/10/2021
Laboratory Sample No.	PRS144	PRS145	PRS146	PRS147	PRS148	PRS149/PTN419	PRS151	PRS150	QXT935	QXT936	QXT937
Sample Depth (mbgs)	0 - 0.75	0 - 0.75	3.81 - 4.57	5.33 - 6.10	3.05 - 3.81	0 - 0.75	0 - 0.75	5.33 - 6.10	4.57 - 5.33	0 - 0.75	3.81 - 4.57
Miscellaneous Parameters											
pH (pH Units)	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons (PHCs)											
PHCs F1 (C_6 - C_{10})	<10	<10	<10	<10	<10	<10	-	<10	<10	<10	<10
PHCs F2 (>C_{10} - C_{16})	<10	<10	**180**	<10	<10	<10	-	<10	<10	**290**	<10
PHCs F3 (>C_{16} - C_{34})	<50	<50	220	<50	59	150	-	<50	<50	**6200**	<50
PHCs F4 (>C_{34} - C_{50})	<50	<50	<50	<50	<50	100	-	<50	<50	1400	<50
PHCs F4G (>C_{50})	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds											
Acetone	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.49	<0.49	<0.49
Benzene	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	-	<0.020	<0.0060	0.0085	<0.0060
Bromodichloromethane	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.49	<0.49	<0.49
Bromoform	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.0060	0.0085	<0.0060
Bromomethane	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.040	<0.040	<0.040
Carbon Tetrachloride	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.040	<0.040	<0.040
Chlorobenzene	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.040	<0.040	<0.040
Chloroform	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.040	<0.040	<0.040
Dibromochloromethane	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.040	<0.040	<0.040
1,2-Dichlorobenzene	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.040	<0.040	<0.040
1,3-Dichlorobenzene	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.040	<0.040	<0.040
1,4-Dichlorobenzene	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.040	<0.040	<0.040
Dichlorodifluoromethane	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.040	<0.040	<0.040
1,1-Dichloroethane	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.040	<0.040	<0.040
1,2-Dichloroethane	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.040	<0.040	<0.040
1,1-Dichloroethylene	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.049	<0.049	<0.049
cis-1,2-Dichloroethylene	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.040	<0.040	<0.040
trans-1,2-Dichloroethylene	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.040	0.057	<0.040
1,2-Dichloropropane	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.040	<0.040	<0.040
1,3-Dichloropropene (Total)	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	-	<0.020	<0.010	0.017	<0.010
Ethylene Dibromide	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.040	<0.040	<0.040
Hexane	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.040	0.058	<0.040
Methyl Ethyl Ketone	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.40	<0.40	<0.40
Methyl Isobutyl Ketone	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.40	<0.40	<0.40
Methyl t-Butyl Ether (MTBE)	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.040	<0.040	<0.040
Methylene Chloride	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.049	<0.049	<0.049
Styrene	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.040	<0.040	<0.040
1,1,1,2-Tetrachloroethane	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.040	<0.040	<0.040
1,1,2,2-Tetrachloroethane	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.040	<0.040	<0.040
Tetrachloroethylene	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.040	<0.040	<0.040
Toluene	<0.020	<0.020	<0.020	<0.020	<0.020	0.052	-	<0.020	<0.020	0.053	<0.020
1,1,1-Trichloroethane			<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.040	<0.040	<0.040
1,1,2-Trichloroethane	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.040	<0.040	<0.040
Trichloroethylene	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.010	0.023	<0.010
Trichlorofluoromethane	-	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.040	<0.040	<0.040
Vinyl Chloride	-	-	<0.020	<0.020	<0.020	<0.020	-	<0.020	<0.019	<0.019	<0.019
Xylenes (Total)	<0.040	<0.040	<0.020	<0.020	<0.020	0.061	-	<0.020	<0.020	0.14	<0.020
Polycyclic Aromatic Hydrocarbons											
Acenaphthene	<0.0050	<0.0050	0.085	<0.0050	<0.0050	0.042	-	<0.0050	<0.0050	**39**	<0.0050
Acenaphthylene	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.034	-	<0.0050	<0.0050	**1**	<0.0050
Anthracene	0.0051	<0.0050	0.032	<0.0050	<0.0050	0.13	-	<0.0050	<0.0050	**110**	<0.0050
Benzo(a)anthracene	0.029	0.019	<0.0050	<0.0050	<0.0050	0.45	-	<0.0050	<0.0050	**180**	<0.0050
Benzo(a)pyrene	0.029	0.021	<0.0050	<0.0050	<0.0050	**0.42**	-	<0.0050	<0.0050	**120**	<0.0050
Benzo(b)fluoranthene	0.038	0.026	<0.0050	<0.0050	<0.0050	0.56	-	<0.0050	<0.0050	**200**	<0.0050
Benzo(ghi)perylene	0.017	0.013	<0.0050	<0.0050	<0.0050	0.29	-	<0.0050	<0.0050	**57**	<0.0050
Benzo(k)fluoranthene	0.013	0.0091	<0.0050	<0.0050	<0.0050	0.2	-	<0.0050	<0.0050	**65**	<0.0050
Chrysene	0.026	0.017	<0.0050	<0.0050	<0.0050	0.39	-	<0.0050	<0.0050	**140**	<0.0050
Dibenzo(a,h)anthracene	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.071	-	<0.0050	<0.0050	**18**	<0.0050
Fluoranthene	0.058	0.036	0.014	<0.0050	<0.0050	**0.84**	-	<0.0050	<0.0050	**450**	0.0079
Fluorene	<0.0050	<0.0050	<0.030	<0.0050	<0.0050	0.048	-	<0.0050	<0.0050	54	<0.0050
Indeno(1,2,3-cd)pyrene	0.02	0.014	<0.0050	<0.0050	<0.0050	0.32	-	<0.0050	<0.0050	**62**	<0.0050
1- & 2-Methylnaphthalene	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	0.073	-	<0.0071	<0.0071	**17**	<0.0071
Naphthalene	<0.0050	<0.0050	<0.030	<0.0050	<0.0050	0.041	-	<0.0050	<0.0050	**12**	<0.0050
Phenanthrene	0.024	0.015	0.038	<0.0050	<0.0050	0.53	-	<0.0050	<0.0050	**430**	0.0087
Pyrene	0.049	0.035	0.018	<0.0050	<0.0050	0.72	-	<0.0050	<0.0050	**330**	0.0057
Metals											
Antimony	-	-	<0.20	<0.20	<0.20	0.68	-	<0.20	-	-	-
Arsenic	-	-	<1.0	<1.0	<1.0	3.3	-	<1.0	-	-	-
Barium	-	-	290	54	51	85	-	380	-	-	-
Beryllium	-	-	0.8	<0.20	0.21	0.37	-	0.8	-	-	-
Boron (Total)	-	-	7.9	<5.0	<5.0	7.4	-	10	-	-	-
Cadmium	-	-	0.11	<0.10	<0.10	0.61	-	0.18	-	-	-
Chromium (Total)	-	-	57	11	21	21	-	70	-	-	-
Cobalt	-	-	16	4.3	6.6	7.2	-	18	-	-	-
Copper	-	-	33	9.2	13	23	-	38	-	-	-
Lead	-	-	6.5	2.7	2.7	80	-	7.2	-	-	-
Mercury	-	-	<0.050	<0.050	<0.050	0.066	-	<0.050	-	-	-
Molybdenum	-	-	<0.50	<0.50	<0.50	0.86	-	0.79	-	-	-
Nickel	-	-	34	7.2	15	18	-	40	-	-	-
Selenium	-	-	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	-	-
Silver	-	-	<0.20	<0.20	<0.20	<0.20	-	<0.20	-	-	-
Thallium	-	-	0.35	0.064	0.15	0.2	-	0.45	-	-	-
Uranium	-	-	0.63	0.77	0.61	0.54	-	0.97	-	-	-
Vanadium	-	-	81	21	57	37	-	**91**	-	-	-
Zinc	-	-	93	13	40	130	-	110	-	-	-
Inorganics											
Electrical Conductivity (mS/cm)	-	-	-	-	-	0.31	0.35	**2.1**	0.35	**2.1**	**2.1**
Sodium Adsorption Ratio (No Units)	-	-	-	-	-	**5.6**	**6.3**	3.5	**6.3**	3.5	3.5
Polychlorinated Biphenyls (PCBs)											
PCBs (Total)	<0.010	<0.010	-	-	-	-	-	-	-	-	-

Notes:
MECP Table 3 SCS:
Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, for Residential/Parkland/Institutional Property Use and Coarse-Textured Soils

BOLD	Exceeds SCS
BOLD	Reportable Detection Limit Exceeds SCS
Units	All units in micrograms per gram, unless otherwise noted
mbgs	metres below ground surface
mS/cm	milliSiemens per centimetre

Input By: CT [22-Jul-2021]
Checked By: EC [6-Aug-2021]

TABLE 3

MAXIMUM CONCENTRATIONS IN SOIL

CLV Group Developments Inc.

951 Gladstone Ave and 145 Loretta Ave N, Ottawa, ON

Parameter	Maximum Concentration	MECP Table 3 SCS	Sample Designation	Sample Location	Sample Depth (mbgs)
Petroleum Hydrocarbons (PHCs)					
PHCs F1 (C_6 - C_{10})	**2600**	55	BHMW111 SS6	BH111	3.81 - 4.57
PHCs F2 (>C_{10} - C_{16})	**550**	98	BH101 SS2	BH101	0.75 - 1.50
PHCs F3 (>C_{16} - C_{34})	**6200**	300	BHMW126 SS1	BH126	0 - 0.75
PHCs F4 (>C_{34} - C_{50})	1400	2800	BHMW126 SS1	BH126	0 - 0.75
PHCs F4G (>C_{50})	**3100**	2800	DUP-1	BH107	1.52 - 2.29
Volatile Organic Compounds					
Acetone	<3.5	16	BHMW111 SS6	BH111	3.81 - 4.57
Benzene	**0.93**	0.21	BH2017-1 SS12	BH2017-1	6.6 - 7.2
Bromodichloromethane	<0.49	13	V125 SS7, BHMW126 SS1, BHMW12	BH125, BH126, BH127	4.57 - 5.33, 0 - 0.75, 3.81 - 4.57
Bromoform	<0.05	0.27	BH3-20-SS11, BH5-20-SS10	BH3-20, BH5-20	7.62 - 7.87, 6.86 - 6.93
Bromomethane	<0.05	0.05	BH3-20-SS11, BH5-20-SS10	BH3-20, BH5-20	7.62 - 7.87, 6.86 - 6.93
Carbon Tetrachloride	<0.05	0.05	BH3-20-SS11, BH5-20-SS10	BH3-20, BH5-20	7.62 - 7.87, 6.86 - 6.93
Chlorobenzene	<0.05	2.4	BH3-20-SS11, BH5-20-SS10	BH3-20, BH5-20	7.62 - 7.87, 6.86 - 6.93
Chloroform	<0.05	0.05	BH3-20-SS11, BH5-20-SS10	BH3-20, BH5-20	7.62 - 7.87, 6.86 - 6.93
Dibromochloromethane	<0.05	9.4	BH3-20-SS11, BH5-20-SS10	BH3-20, BH5-20	7.62 - 7.87, 6.86 - 6.93
1,2-Dichlorobenzene	<0.05	3.4	BH3-20-SS11, BH5-20-SS10	BH3-20, BH5-20	7.62 - 7.87, 6.86 - 6.93
1,3-Dichlorobenzene	<0.05	4.8	BH3-20-SS11, BH5-20-SS10	BH3-20, BH5-20	7.62 - 7.87, 6.86 - 6.93
1,4-Dichlorobenzene	**1.1**	0.083	BH2017-1 SS12	BH2017-1	6.6 - 7.2
Dichlorodifluoromethane	3.8	16	BH2017-1 SS12	BH2017-1	6.6 - 7.2
1,1-Dichloroethane	<0.1	3.5	Several	Several	Several
1,2-Dichloroethane	**0.2**	0.05	BH2017-5A SS3	BH2017-5	1.2 - 1.8
1,1-Dichloroethylene	<0.05	0.05	BH3-20-SS11, BH5-20-SS10	BH3-20, BH5-20	7.62 - 7.87, 6.86 - 6.93
cis-1,2-Dichloroethylene	<0.05	3.4	BH3-20-SS11, BH5-20-SS10	BH3-20, BH5-20	7.62 - 7.87, 6.86 - 6.93
trans-1,2-Dichloroethylene	0.057	0.084	BHMW126 SS1	BH126	0 - 0.75
1,2-Dichloropropane	<0.05	0.05	BH3-20-SS11, BH5-20-SS10	BH3-20, BH5-20	7.62 - 7.87, 6.86 - 6.93
1,3-Dichloropropene (Total)	<0.05	0.05	BH3-20-SS11, BH5-20-SS10	BH3-20, BH5-20	7.62 - 7.87, 6.86 - 6.93
Ethylbenzene	**49**	2	BHMW111 SS6	BH111	3.81 - 4.57
Ethylene Dibromide	<0.05	0.05	BH3-20-SS11, BH5-20-SS10	BH3-20, BH5-20	7.62 - 7.87, 6.86 - 6.93
Hexane	**51**	2.8	BHMW111 SS6	BH111	3.81 - 4.57
Methyl Ethyl Ketone	<0.5	16	Several	Several	Several
Methyl Isobutyl Ketone	<0.5	1.7	Several	Several	Several
Methyl t-Butyl Ether (MTBE)	<0.05	0.75	BH3-20-SS11, BH5-20-SS10	BH3-20, BH5-20	7.62 - 7.87, 6.86 - 6.93
Methylene Chloride	<0.05	0.1	BH3-20-SS11, BH5-20-SS10	BH3-20, BH5-20	7.62 - 7.87, 6.86 - 6.93
Styrene	<0.4	0.7			
1,1,1,2-Tetrachloroethane	<0.05	0.058	BH3-20-SS11, BH5-20-SS10	BH3-20, BH5-20	7.62 - 7.87, 6.86 - 6.93
1,1,2,2-Tetrachloroethane	<0.05	0.05	BH3-20-SS11, BH5-20-SS10	BH3-20, BH5-20	7.62 - 7.87, 6.86 - 6.93
Tetrachloroethylene	<0.05	0.28	BH3-20-SS11, BH5-20-SS10	BH3-20, BH5-20	7.62 - 7.87, 6.86 - 6.93
Toluene	**12**	2.3	BHMW108 SS8	BH108	5.33 - 6.10
1,1,1-Trichloroethane	<0.05	0.38	BH3-20-SS11, BH5-20-SS10	BH3-20, BH5-20	7.62 - 7.87, 6.86 - 6.93
1,1,2-Trichloroethane	<0.05	0.05	BH3-20-SS11, BH5-20-SS10	BH3-20, BH5-20	7.62 - 7.87, 6.86 - 6.93
Trichloroethylene	<0.05	0.061	BH3-20-SS11, BH5-20-SS10	BH3-20, BH5-20	7.62 - 7.87, 6.86 - 6.93
Trichlorofluoromethane	<0.05	4	BH3-20-SS11, BH5-20-SS10	BH3-20, BH5-20	7.62 - 7.87, 6.86 - 6.93
Vinyl Chloride	<0.02	0.02	BH3-20-SS11, BH5-20-SS10	BH3-20, BH5-20	7.62 - 7.87, 6.86 - 6.93
Xylenes (Total)	**280**	3.1	BHMW111 SS6	BH111	3.81 - 4.57
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	**39**	7.9	BHMW126 SS1	BH126	0 - 0.75
Acenaphthylene	**0.84**	0.15	BH2017-11 SS3	BH2017-11	1.2 - 1.8
Anthracene	**110**	0.67	BHMW126 SS1	BH126	0 - 0.75
Benzo(a)anthracene	**180**	0.5	BHMW126 SS1	BH126	0 - 0.75
Benzo(a)pyrene	**120**	0.3	BHMW126 SS1	BH126	0 - 0.75
Benzo(b)fluoranthene	**200**	0.78	BHMW126 SS1	BH126	0 - 0.75
Benzo(ghi)perylene	**57**	6.6	BHMW126 SS1	BH126	0 - 0.75
Benzo(k)fluoranthene	**65**	0.78	BHMW126 SS1	BH126	0 - 0.75
Chrysene	**140**	7	BHMW126 SS1	BH126	0 - 0.75
Dibenzo(a,h)anthracene	**18**	0.1	BHMW126 SS1	BH126	0 - 0.75
Fluoranthene	**450**	0.69	BHMW126 SS1	BH126	0 - 0.75
Fluorene	54	62	BHMW126 SS1	BH126	0 - 0.75
Indeno(1,2,3-cd)pyrene	**62**	0.38	BHMW126 SS1	BH126	0 - 0.75
1- & 2-Methylnaphthalene	**17**	0.99	BHMW126 SS1	BH126	0 - 0.75
Naphthalene	**12**	0.6	BHMW126 SS1	BH126	0 - 0.75
Phenanthrene	**430**	6.2	BHMW126 SS1	BH126	0 - 0.75
Pyrene	**330**	78	BHMW126 SS1	BH126	0 - 0.75
Metals					
Antimony	5.9	7.5	BH3-20-SS2	BH3-20	0.76 - 1.37
Arsenic	**56.6**	18	BH3-20-SS2	BH3-20	0.76 - 1.37
Barium	**430**	390	BHMW112 SS3	BH112	1.52 - 2.29
Beryllium	1.3	4	BH102 SS2	BH102	0.75 - 1.50
Boron (Total)	12	120	BH3-20-SS2, BH104 SS4	BH3-20, BH104	0.76 - 1.37, 2.29 - 3.05
Cadmium	1.1	1.2	BH3-20-SS2	BH3-20	0.76 - 1.37
Chromium (Total)	120	160	BH2017-8 SS5	BH2017-8	2.4 - 3.0
Cobalt	**23**	22	BH2017-13 SS3, BHMW112 SS3	BH2017-13, BH112	1.2 - 1.8, 1.52 - 2.29
Copper	130	140	BH104 SS4	BH104	2.29 - 3.05
Lead	**500**	120	BH104 SS4	BH104	2.29 - 3.05
Molybdenum	**9**	6.9	BH3-20-SS2	BH3-20	0.76 - 1.37
Nickel	64	100	BH2017-8 SS5	BH2017-8	2.4 - 3.0
Selenium	**2.5**	2.4	BH102 SS2	BH102	0.75 - 1.50
Silver	1.2	20	BH104 SS4	BH104	2.29 - 3.05
Thallium	<1	1	BH3-20-SS2, BH4-20-SS5	BH3-20, BH4-20	0.76 - 1.37, 3.05 - 3.66
Uranium	1.4	23	BH3-20-SS2	BH3-20	0.76 - 1.37
Vanadium	**100**	86	BH2017-13 SS3	BH2017-13	1.2 - 1.8
Zinc	**374**	340	BH3-20-SS2	BH3-20	0.76 - 1.37
Inorganics					
Electrical Conductivity (mS/cm)	**2.1**	0.7	V124 SS8, BHMW126 SS1, BHMW12	BH124, BH126, BH127	5.33 - 6.10, 0 - 0.75, 3.81 - 4.57
Sodium Adsorption Ratio (No Units)	**6.3**	5	DUP102, BHMW125 SS7	BH124, BH125	0 - 0.75, 4.57 - 5.33
Polychlorinated Biphenyls (PCBs)					
PCBs (Total)	<0.01	0.35	Several	Several	Several

Notes:

Units	All units in micrograms per gram, unless otherwise noted
mbgs	metres below ground surface
mS/cm	milliSiemens per centimetre
BOLD	Exceeds SCS

Input By: CT [22-Jul-2021]

Checked By: EC [6-Aug-2021]

TABLE 4

GROUNDWATER MONITORING WELL CONSTRUCTION DETAILS

CLV Group Developments Inc.

951 Gladstone Ave and 145 Loretta Ave N, Ottawa, ON

Monitoring Well	Top of Pipe Elevation (mamsl)	Ground Surface Elevation (mamsl)	Well Construction Details						
			Total Well Depth (mbgs)	Stick-Up Height (metres)	Well Diameter (centimetres)	Screen Slot Size	Monitoring Well Screen Interval (mbgs)	Screen length (metres)	Sealant thickness (metres)
BH2017-02	-	66.43	6.5	-	5.1	010	3.4 - 6.5	3.1	0 - 3.0
BH2017-03	-	65.63	10.3	-	5.1	010	7.3 - 10.3	3.1	0 - 7.0
BH2017-04	-	62.93	4.6	-	5.1	010	2.2 - 4.6	2.4	0 - 1.8
BH2017-05	-	64.93	10.8	-	5.1	010	7.8 - 10.8	3.1	0 - 7.5
BH2017-06	-	66.53	7.8	-	5.1	010	4.7 - 7.8	3.1	0 - 4.4
BH2017-07	-	64.63	8.0	-	5.1	010	4.9 - 8.0	3.1	0 - 4.6
BH2017-08	-	66.13	10.7	-	5.1	010	7.8 - 10.7	3.1	0 - 7.2
BH2017-09	-	61.83	4.5	-	5.1	010	1.8 - 4.5	2.7	0 - 1.5
BH2017-10	64.46	64.53	13.1	-0.07	5.1	010	10.0 - 13.1	3.1	0 - 9.6
BH2017-11	-	64.33	8.4	-	5.1	010	5.3 - 8.4	3.1	0 - 5.0
BHMW3	66.65	66.77	-	-0.12	3.8	-	-	-	-
BH1-20	64.88	64.96	11.07	-0.08	3.2	010	8.1 - 11.1	3.1	0.2 - 6.4
BH2-20	66.69	66.78	6.17	-0.09	3.2	010	3.2 - 6.2	3.1	0.2 - 2.4
BH3-20	64.14	64.21	12.24	-0.07	3.2	010	9.2 - 12.2	3.1	0.2 - 9.0
BH4-20	64.34	64.46	10.67	-0.12	3.2	010	7.7 - 10.7	3.1	0.2 - 7.3
BH5-20	64.86	64.92	11.91	-0.06	3.2	010	10.4 - 11.9	3.1	0.2 - 10.1
BHMW108	66.98	67.05	6.1	-0.07	5.1	010	3.0 - 6.1	3.1	0 - 2.0
BHMW109	67.14	67.27	5.5	-0.13	5.1	010	2.4 - 5.5	3.1	0 - 1.8
BHMW110	66.88	66.97	6.1	-0.09	5.1	010	3.0 - 6.1	3.10	0 - 2.4
BHMW111	66.45	66.55	20.7	-0.10	5.1	010	17.6 - 20.7	3.10	0 - 17.6
BHMW112	66.23	66.32	5.5	-0.09	5.1	010	2.4 - 5.5	3.10	0 - 1.8
BHMW115	65.16	65.25	5.9	-0.09	5.1	010	2.8 - 5.9	3.10	0 - 2.2
BHMW116	62.14	62.28	4.9	-0.14	5.1	010	1.8 - 4.9	3.1	0 - 1.2
BHMW117	64.30	64.42	6.1	-0.12	5.1	010	3.0 - 6.1	3.1	0 - 2.0
BHMW118	64.66	64.83	7.6	-0.17	5.1	010	4.5 - 7.6	3.1	0 - 3.9
BHMW119	64.40	64.49	14.0	-0.09	5.1	010	12.5 - 14.0	1.5	0 - 11.5
BHMW120	64.92	65.02	14.9	-0.10	5.1	010	11.8 - 14.9	3.1	0 - 11.5
BHMW122	64.95	65.06	6.1	-0.11	5.1	010	3.0 - 6.1	3.1	0 - 2.4
BHMW123	64.98	65.11	6.10	-0.13	5.1	010	3.0 - 6.1	3.1	0 - 2.4
BHMW124	64.30	64.38	6.10	-0.08	5.1	010	3.0 - 6.1	3.1	0 - 2.4
BHMW125	65.62	65.74	6.10	-0.12	5.1	010	3.8 - 6.9	3.1	0 - 3.5
BHMW127	64.82	64.92	6.10	-0.10	5.1	010	3.0 - 6.1	3.1	0 - 2.4

Notes:

mamsl metres above mean sea level
mbgs metres below ground surface

Input By: CT [22-Jul-2021]
Checked By: EC [6-Aug-2021]

TABLE 5
GROUNDWATER MONITORING DATA
CLV Group Developments Inc.
951 Gladstone Ave and 145 Loretta Ave N, Ottawa, ON

					July 17, 2017			September 30, 2020		April 21-22, 2021				June 9-15, 2021				12-Oct-21			
Monitoring Well	Monitoring Well Screen Interval (mbgs)	Top of Pipe Elevation (mamsl)	Ground Surface Elevation (mamsl)	Stick-Up Height (metres)	Calculated Depth to Groundwater from Surface (mbgs)	Groundwater Elevation (mags)	Visual / Olfactory Observations	Calculated Depth to Groundwater from Surface (mbgs)	Groundwater Elevation (mags)	Measured Depth to Groundwater from Top of Pipe (mbtop)	Calculated Depth to Groundwater from Surface (mbgs)	Groundwater Elevation (mamsl)	Visual / Olfactory Observations	Measured Depth to Groundwater from Top of Pipe (mbtop)	Calculated Depth to Groundwater from Surface (mbgs)	Groundwater Elevation (mamsl)	Visual / Olfactory Observations	Measured Depth to Groundwater from Top of Pipe (mbtop)	Calculated Depth to Groundwater from Surface (mbgs)	Groundwater Elevation (mamsl)	Visual / Olfactory Observations
BH2017-02	3.4 - 6.5	-	66.43	-	4.4	62.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH2017-03	7.3 - 10.3	-	65.63	-	5.0	60.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH2017-04	2.2 - 4.6	-	62.93	-	2.2	60.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH2017-05	7.8 - 10.8	-	64.93	-	3.3	61.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH2017-06	4.7 - 7.8	-	66.53	-	6.0	60.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH2017-07	4.9 - 8.0	-	64.63	-	4.1	60.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH2017-08	7.8 - 10.7	-	66.13	-	5.6	60.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH2017-09	1.8 - 4.5	-	61.83	-	1.7	60.1	Petroleum odours	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH2017-10	10.0 - 13.1	64.46	64.53	-0.07	4.1	60.4	-	-	-	4.20	4.27	60.26	Cloudy, slight organic odours	-	-	-	-	-	-	-	-
BH2017-11	5.3 - 8.4	-	64.33	-	3.9	60.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHMW3	-	66.65	66.77	-0.12	-	-	-	-	-	3.29	3.41	63.36	Cloudy, slight PHC odours	-	-	-	-	-	-	-	-
BH1-20	8.1 - 11.1	64.88	64.96	-0.08	-	-	-	5.03	59.93	4.71	4.79	60.17	Cloudy, slight organic odours	-	-	-	-	-	-	-	-
BH2-20	3.2 - 6.2	66.69	66.78	-0.09	-	-	-	5.05	61.73	3.52	3.61	63.17	Clear, no odours	-	-	-	-	-	-	-	-
BH3-20	9.2 - 12.2	64.14	64.21	-0.07	-	-	-	4.18	60.03	3.85	3.92	60.29	Clear, slight organic odours	-	-	-	-	-	-	-	-
BH4-20	7.7 - 10.7	64.34	64.46	-0.12	-	-	-	4.60	59.86	4.39	4.51	59.95	Cloudy, no odours	-	-	-	-	-	-	-	-
BH5-20	10.4 - 11.9	64.86	64.92	-0.06	-	-	-	4.82	60.10	4.67	4.73	60.19	Clear, slight organic odours	-	-	-	-	-	-	-	-
BHMW108	3.0 - 6.1	66.98	67.05	-0.07	-	-	-	-	-	-	-	-	-	5.47	5.54	61.51	Cloudy, slight PHC odours	-	-	-	-
BHMW109	2.4 - 5.5	67.14	67.27	-0.13	-	-	-	-	-	-	-	-	-	5.23	5.36	61.91	Cloudy, no odours	-	-	-	-
BHMW110	3.0 - 6.1	66.88	66.97	-0.09	-	-	-	-	-	-	-	-	-	4.79	4.88	62.09	Cloudy, no odours	-	-	-	-
BHMW111	17.6 - 20.7	66.45	66.55	-0.1	-	-	-	-	-	-	-	-	-	17.00	17.10	49.45	Cloudy, no odours	-	-	-	-
BHMW112	2.4 - 5.5	66.23	66.32	-0.09	-	-	-	-	-	-	-	-	-	4.63	4.72	61.60	Cloudy, no odours	-	-	-	-
BHMW115	2.8 - 5.9	65.16	65.25	-0.09	-	-	-	-	-	-	-	-	-	5.02	5.11	60.14	Cloudy, no odours	-	-	-	-
BHMW116	1.8 - 4.9	62.14	62.28	-0.14	-	-	-	-	-	-	-	-	-	2.88	3.02	59.26	Cloudy, no odours	-	-	-	-
BHMW117	3.0 - 6.1	64.3	64.42	-0.12	-	-	-	-	-	-	-	-	-	4.12	4.24	60.18	Clear, no odours	-	-	-	-
BHMW118	4.5 - 7.6	64.66	64.83	-0.17	-	-	-	-	-	-	-	-	-	4.63	4.80	60.03	Clear, no odours	-	-	-	-
BHMW119	12.5 - 14.0	64.4	64.49	-0.09	-	-	-	-	-	-	-	-	-	7.75	7.84	56.65	Clear, no odours	-	-	-	-
BHMW120	11.8 - 14.9	64.92	65.02	-0.1	-	-	-	-	-	-	-	-	-	4.88	4.98	60.04	Clear, no odours	-	-	-	-
BHMW122	3.0 - 6.1	64.95	65.06	-0.11	-	-	-	-	-	-	-	-	-	4.70	4.81	60.25	Cloudy, no odours	-	-	-	-
BHMW125	3.8 - 6.9	65.62	65.74	-0.12	-	-	-	-	-	-	-	-	-	4.77	4.89	60.85	Cloudy, no odours	-	-	-	-
BHMW124	3.0 - 6.1	64.3	64.38	-0.1	-	-	-	-	-	-	-	-	-	4.60	4.68	59.70	Clear, no odours	-	-	-	-
BHMW125	3.8 - 6.9	65.62	65.74	-0.12	-	-	-	-	-	-	-	-	-	-	-	-	-	4.90	5.02	60.72	Clear, no odours
BHMW127	3.0 - 6.1	64.82	64.92	-0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	4.97	5.07	59.85	Clear, no odours
				Minimum =	1.7	60.1		4.18	59.86	Minimum =	3.41	59.95		Minimum =	3.02	49.45		Minimum =	5.02	59.85	
				Maximum =	6.0	62.0		5.05	61.73	Maximum =	4.79	63.36		Maximum =	17.10	62.09		Maximum =	5.07	60.72	

Notes:

mamsl metres above mean sea level
mbgs metres below ground surface
mbtop metres below top of pipe
NM Not Measured

Input By: CT [22-Jul-2021]
Checked By: EC [6-Aug-2021]

TABLE 6

GROUNDWATER ANALYTICAL RESULTS

CLV Group Developments Inc.

951 Gladstone Ave and 145 Loretta Ave N, Ottawa, ON

Sample Location	MECP Table 3 SCS	BH2017-02	BH2017-04	BH2017-05	BH2017-05	BH2017-06	BH2017-06	BH2017-07	BH2017-09	BH2017-10
Sample Designation		BH2017-02	BH2017-04	BH2017-05	BHMW-D	BH2017-06	BH2017-14	BH2017-07	BH2017-09	BH2017-10
Sample Collection Date (dd/mm/yyyy)		18/07/2017	18/07/2017	18/07/2017	18/07/2017	18/07/2017	26/07/2017	18/07/2017	18/07/2017	22/04/2021
Laboratory Certificate No.		B7F4125	B7F4125	DST Report	B7F4125	DST Report	DST Report	B7F4125	B7F4125	C1A7975
Date of Laboratory Analysis (dd/mm/yyyy)		25/07/2017-26/07/2017	25/07/2017-26/07/2017	Unknown	25/07/2017-26/07/2017	Unknown	Unknown	25/07/2017-26/07/2017	25/07/2017-26/07/2017	23/04/2021-26/04/2021
Laboratory Sample No.		EUA319	EUA317	Unknown	EUA322	Unknown	Unknown	EUA321	EUA316	PJV381
Well Screen Depth Interval (mbgs)		4.36 - 6.50	4.58 - 4.60	7.80 - 10.80	7.80 - 10.80	5.96 - 7.80	5.96 - 7.80	7.58 - 8.00	4.43 - 4.50	10.1 - 13.1
Petroleum Hydrocarbons (PHCs)										
PHCs F1 (C_6 - C_{10})	750	**12000**	<25	<25	<25	<25	<25	<25	28	<25
PHCs F2 (>C_{10} - C_{16})	150	**6100**	<100	-	-	<100	<100	<100	<100	<100
PHCs F3 (>C_{16} - C_{34})	500	<200	<200	-	-	<200	<200	<200	<200	<200
PHCs F4 (>C_{34} - C_{50})	500	<200	<200	-	-	<200	<200	<200	<200	<200
PHCs F4G (>C_{50})	500	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds										
Acetone	130000	<500	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	44	11	0.23	0.34	0.25	<0.20	<0.20	<0.20	<0.20	<0.20
Bromodichloromethane	85000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	380	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	0.79	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	630	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	2.4	<0.20	<0.20	0.7	0.6	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	82000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	4600	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	9600	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	4400	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	320	<0.20	<0.20	0.24	0.23	<0.20	<0.20	<0.20	0.49	<0.20
1,2-Dichloroethane	1.6	<0.50	<0.50	**6.6**	**7**	<0.50	<0.50	<0.50	**20**	<0.50
1,1-Dichloroethylene	1.6	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
cis-1,2-Dichloroethylene	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethylene	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	16	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,3-Dichloropropene (Total)	5.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	2300	1500	0.25	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylene Dibromide	0.25	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane	51	**280**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone	470000	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone	140000	<250	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-Butyl Ether (MTBE)	190	<0.50	24	**240**	**240**	<0.50	<0.50	<2.5	110	3.7
Methylene Chloride	610	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	1300	<2.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	3.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	3.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	1.6	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	18000	41	<0.20	<0.20	<0.20	<0.20	<0.20	0.53	<0.20	<0.20
1,1,1-Trichloroethane	640	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,2-Trichloroethane	4.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	1.6	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane	2500	<25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Vinyl Chloride	0.5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes (Total)	4200	**6600**	0.22	<0.20	<0.20	<0.20	<0.20	0.49	0.22	<0.20
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	600	-	-	-	-	-	-	-	-	<0.050
Acenaphthylene	1.8	-	-	-	-	-	-	-	-	<0.050
Anthracene	2.4	-	-	-	-	-	-	-	-	<0.050
Benzo(a)anthracene	4.7	-	-	-	-	-	-	-	-	<0.050
Benzo(a)pyrene	0.81	-	-	-	-	-	-	-	-	<0.0090
Benzo(b)fluoranthene	0.75	-	-	-	-	-	-	-	-	<0.050
Benzo(ghi)perylene	0.2	-	-	-	-	-	-	-	-	<0.050
Benzo(k)fluoranthene	0.4	-	-	-	-	-	-	-	-	<0.050
Chrysene	1	-	-	-	-	-	-	-	-	<0.050
Dibenzo(a,h)anthracene	0.52	-	-	-	-	-	-	-	-	<0.050
Fluoranthene	130	-	-	-	-	-	-	-	-	<0.050
Fluorene	400	-	-	-	-	-	-	-	-	<0.050
Indeno(1,2,3-cd)pyrene	0.2	-	-	-	-	-	-	-	-	<0.050
1- & 2-Methylnaphthalene	1800	-	-	-	-	-	-	-	-	<0.071
Naphthalene	1400	-	-	-	-	-	-	-	-	<0.050
Phenanthrene	580	-	-	-	-	-	-	-	-	<0.030
Pyrene	68	-	-	-	-	-	-	-	-	<0.050
Metals										
Antimony	20000	<0.50	<0.50	0.71	0.67	<0.50	<0.50	<0.50	<0.50	-
Arsenic	1900	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-
Barium	29000	3800	130	370	370	98	97	110	140	-
Beryllium	67	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-
Boron (Total)	45000	74	69	180	180	67	67	76	150	-
Cadmium	2.7	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	-
Chromium (Total)	810	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	-
Chromium (Hexavalent)	140	-	-	-	-	-	-	-	-	-
Cobalt	66	6.6	1.4	<0.50	<0.50	2.5	2.6	0.59	0.78	-
Copper	87	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.3	-
Lead	25	13	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.52	-
Mercury	0.29	-	-	-	-	-	-	-	-	-
Molybdenum	9200	0.56	1.6	4.5	4.4	1	1	9.6	1.1	-
Nickel	490	11	4.9	4.4	4.2	6.9	6.9	3.1	11	-
Selenium	63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-
Silver	1.5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	-
Thallium	510	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-
Uranium	420	1.2	3.9	0.38	0.37	6.9	6.8	1.5	0.44	-
Vanadium	250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-
Zinc	1100	<5.0	<5.0	<5.0	<5.0	5.2	5.2	<5.0	6	-
Inorganics										
Chloride	2300000	-	-	-	-	-	-	-	-	-
Sodium	2300000	680000	250000	98000	97000	120000	120000	460000	500000	-

Notes:

MECP Table 3 SCS:

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

BOLD	Exceeds SCS
BOLD	Reportable Detection Limit Exceeds SCS
Units	All units in micrograms per litre, unless otherwise noted
mbgs	metres below ground surface
NA	Not Applicable
NV	No Value
TEQ	Toxic Equivalency Quotient

Input By: CT [22-Jul-2021]

Checked By: EC [6-Aug-2021]

TABLE 6

GROUNDWATER ANALYTICAL RESULTS

CLV Group Developments Inc.

951 Gladstone Ave and 145 Loretta Ave N, Ottawa, ON

Sample Location	MECP Table 3 SCS	BH2017-11	BH1-20	BH1-20	BH2-20	BH2-20	BH3-20	BH3-20	BH4-20	BH4-20
Sample Designation		BH2017-11	BH1-20-GW1	BH1-20	BH2-20-GW1	BH2-20	BH3-20-GW1	BH3-20	BH4-20-GW1	DUP
Sample Collection Date (dd/mm/yyyy)		18/07/2017	30/09/2020	22/04/2021	30/09/2020	22/04/2021	30/09/2020	22/04/2021	30/09/2020	30/09/2020
Laboratory Certificate No.		B7F4125	2040558	C1A7975	2040558	C1A7975	2040558	C1A7975	2040558	2040558
Date of Laboratory Analysis (dd/mm/yyyy)		25/07/2017-26/07/2017	02/10/2020-06/10/2020	23/04/2021-26/04/2021	02/10/2020-06/10/2020	23/04/2021-26/04/2021	02/10/2020-06/10/2020	23/04/2021-26/04/2021	02/10/2020-06/10/2020	02/10/2020-06/10/2020
Laboratory Sample No.		EUA320	2040558-01	PJV377	2040558-02	PJV374	2040558-03	PJV378	2040558-04	2040558-06
Well Screen Depth Interval (mbgs)		5.40 - 8.40	8.07 - 11.07	8.07 - 11.07	3.17 - 6.17	3.17 - 6.17	9.24 - 12.24	9.24 - 12.24	7.67 - 10.67	7.67 - 10.67
Petroleum Hydrocarbons (PHCs)										
PHCs F1 (C_6 - C_{10})	750	<25	-	<25	**1940**	<25	<25	<25	<25	-
PHCs F2 (>C_{10} - C_{16})	150	<100	-	<100	<100	<100	<100	<100	<100	-
PHCs F3 (>C_{16} - C_{34})	500	<200	-	<200	<100	<200	<100	<200	<100	-
PHCs F4 (>C_{34} - C_{50})	500	<200	-	<200	<100	<200	<100	<200	<100	-
PHCs F4G (>C_{50})	500	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds										
Acetone	130000	<10	<5.0	<10	<5.0	<10	<5.0	<10	<5.0	<5.0
Benzene	44	<0.20	16.1	<0.20	<0.5	<0.20	<0.5	<0.20	<0.5	<0.5
Bromodichloromethane	85000	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.5
Bromoform	380	<1.0	<0.5	<1.0	<0.5	<1.0	<0.5	<1.0	<0.5	<0.5
Bromomethane	5.6	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.5
Carbon Tetrachloride	0.79	<0.20	<0.2	<0.20	<0.2	<0.20	<0.2	<0.20	<0.2	<0.2
Chlorobenzene	630	<0.20	<0.5	<0.20	<0.5	<0.20	<0.5	<0.20	<0.5	<0.5
Chloroform	2.4	<0.20	<0.5	<0.20	<0.5	<0.20	1.8	<0.20	<0.5	<0.5
Dibromochloromethane	82000	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.5
1,2-Dichlorobenzene	4600	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.5
1,3-Dichlorobenzene	9600	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.5
1,4-Dichlorobenzene	8	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.5
Dichlorodifluoromethane	4400	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	320	<0.20	<0.5	<0.20	<0.5	<0.20	<0.5	<0.20	<0.5	<0.5
1,2-Dichloroethane	1.6	1.3	**4.5**	**3.8**	<0.5	<0.50	<0.5	<0.50	**2.7**	**2.7**
1,1-Dichloroethylene	1.6	<0.20	<0.5	<0.20	<0.5	<0.20	<0.5	<0.20	<0.5	<0.5
cis-1,2-Dichloroethylene	1.6	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.5
trans-1,2-Dichloroethylene	1.6	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.5
1,2-Dichloropropane	16	<0.20	<0.5	<0.20	<0.5	<0.20	<0.5	<0.20	<0.5	<0.5
1,3-Dichloropropene (Total)	5.2	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.5
Ethylbenzene	2300	<0.20	<0.5	<0.20	325	<0.20	<0.5	<0.20	<0.5	<0.5
Ethylene Dibromide	0.25	<0.20	<0.2	<0.20	<0.2	<0.20	<0.2	<0.20	<0.2	<0.2
Hexane	51	<1.0	2	<1.0	**52**	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone	470000	<10	<5.0	<10	<5.0	<10	<5.0	<10	<5.0	<5.0
Methyl Isobutyl Ketone	140000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-Butyl Ether (MTBE)	190	16	44.3	44	<2.0	<0.50	5.5	3.1	15.7	15.6
Methylene Chloride	610	<2.0	<5.0	<2.0	<5.0	<2.0	<5.0	<2.0	<5.0	<5.0
Styrene	1300	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.5
1,1,1,2-Tetrachloroethane	3.3	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.5
1,1,2,2-Tetrachloroethane	3.2	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.5
Tetrachloroethylene	1.6	<0.20	<0.5	<0.20	<0.5	<0.20	<0.5	<0.20	<0.5	<0.5
Toluene	18000	<0.20	<0.5	<0.20	8.8	<0.20	<0.5	<0.20	<0.5	<0.5
1,1,1-Trichloroethane	640	<0.20	<0.5	<0.20	<0.5	<0.20	<0.5	<0.20	<0.5	<0.5
1,1,2-Trichloroethane	4.7	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.50	<0.5	<0.5
Trichloroethylene	1.6	<0.20	<0.5	<0.20	<0.5	<0.20	<0.5	<0.20	<0.5	<0.5
Trichlorofluoromethane	2500	<0.50	<1	<0.50	<1	<0.50	<1	<0.50	<1	<1
Vinyl Chloride	0.5	<0.20	<0.5	<0.20	<0.5	<0.20	<0.5	<0.20	<0.5	<0.5
Xylenes (Total)	4200	<0.20	<0.5	<0.20	90.7	<0.20	<0.5	0.47	<0.5	<0.5
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	600	-	-	<0.050	-	<0.050	-	<0.050	-	-
Acenaphthylene	1.8	-	-	<0.050	-	<0.050	-	<0.050	-	-
Anthracene	2.4	-	-	<0.050	-	<0.050	-	<0.050	-	-
Benzo(a)anthracene	4.7	-	-	0.054	-	<0.050	-	<0.050	-	-
Benzo(a)pyrene	0.81	-	-	0.055	-	<0.0090	-	<0.0090	-	-
Benzo(b)fluoranthene	0.75	-	-	0.076	-	<0.050	-	<0.050	-	-
Benzo(ghi)perylene	0.2	-	-	<0.050	-	<0.050	-	<0.050	-	-
Benzo(k)fluoranthene	0.4	-	-	<0.050	-	<0.050	-	<0.050	-	-
Chrysene	1	-	-	0.055	-	<0.050	-	<0.050	-	-
Dibenzo(a,h)anthracene	0.52	-	-	<0.050	-	<0.050	-	<0.050	-	-
Fluoranthene	130	-	-	0.11	-	<0.050	-	<0.050	-	-
Fluorene	400	-	-	<0.050	-	<0.050	-	<0.050	-	-
Indeno(1,2,3-cd)pyrene	0.2	-	-	<0.050	-	<0.050	-	<0.050	-	-
1- & 2-Methylnaphthalene	1800	-	-	<0.1	-	0.13	-	<0.071	-	-
Naphthalene	1400	-	-	<0.050	-	0.095	-	<0.050	-	-
Phenanthrene	580	-	-	0.055	-	<0.030	-	<0.030	-	-
Pyrene	68	-	-	0.096	-	<0.050	-	<0.050	-	-
Metals										
Antimony	20000	-	-	-	-	-	-	-	-	-
Arsenic	1900	-	-	-	-	-	-	-	-	-
Barium	29000	-	-	-	-	-	-	-	-	-
Beryllium	67	-	-	-	-	-	-	-	-	-
Boron (Total)	45000	-	-	-	-	-	-	-	-	-
Cadmium	2.7	-	-	-	-	-	-	-	-	-
Chromium (Total)	810	-	-	-	-	-	-	-	-	-
Chromium (Hexavalent)	140	-	-	-	-	-	-	-	-	-
Cobalt	66	-	-	-	-	-	-	-	-	-
Copper	87	-	-	-	-	-	-	-	-	-
Lead	25	-	-	-	-	-	-	-	-	-
Mercury	0.29	-	-	-	-	-	-	-	-	-
Molybdenum	9200	-	-	-	-	-	-	-	-	-
Nickel	490	-	-	-	-	-	-	-	-	-
Selenium	63	-	-	-	-	-	-	-	-	-
Silver	1.5	-	-	-	-	-	-	-	-	-
Thallium	510	-	-	-	-	-	-	-	-	-
Uranium	420	-	-	-	-	-	-	-	-	-
Vanadium	250	-	-	-	-	-	-	-	-	-
Zinc	1100	-	-	-	-	-	-	-	-	-
Inorganics										
Chloride	2300000	-	-	-	-	-	-	-	-	-
Sodium	2300000	-	-	-	-	-	-	-	-	-

Notes:

MECP Table 3 SCS:

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

BOLD	Exceeds SCS
BOLD	Reportable Detection Limit Exceeds SCS
Units	All units in micrograms per litre, unless otherwise noted
mbgs	metres below ground surface
NA	Not Applicable
NV	No Value
TEQ	Toxic Equivalency Quotient

Input By: CT [22-Jul-2021]

Checked By: EC [6-Aug-2021]

TABLE 6

GROUNDWATER ANALYTICAL RESULTS

CLV Group Developments Inc.

951 Gladstone Ave and 145 Loretta Ave N, Ottawa, ON

Sample Location	MECP Table 3 SCS	BH4-20	BH5-20	BH5-20	BHMW3	BHMW3	BHMW108	BHMW109	BHMW110	BHMW111
Sample Designation		BH4-20	BH5-20-GW1	BH5-20	BHMW3	DUP-1	BHMW108	BHMW109	BHMW110	BHMW111
Sample Collection Date (dd/mm/yyyy)		22/04/2021	30/09/2020	22/04/2021	22/04/2021	22/04/2021	9/6/2021	9/6/2021	9/6/2021	15/06/2021
Laboratory Certificate No.		C1A7975	2040558	C1A7975	C1A7975	C1A7975	C1G1158	C1G1158	C1G1158	C1G6182
Date of Laboratory Analysis (dd/mm/yyyy)		23/04/2021-26/04/2021	02/10/2020-06/10/2020	23/04/2021-26/04/2021	23/04/2021-26/04/2021	23/04/2021-26/04/2021	15/06/2021-18/06/2021	15/06/2021-18/06/2021	15/06/2021-18/06/2021	22/06/2021-23/06/2021
Laboratory Sample No.		PJV379	2040558-05	PJV380	PJV375	PJV376	PUW561	PUW562	PUW563	PVY848
Well Screen Depth Interval (mbgs)		7.67 - 10.67	10.42 - 11.91	10.42 - 11.91	Unknown	Unknown	5.53 - 6.10	5.34 - 5.49	4.88 - 6.10	17.68 - 20.73
Petroleum Hydrocarbons (PHCs)										
PHCs F1 (C_6 - C_{10})	750	<25	-	<25	31	27	630	<25	470	<25
PHCs F2 (>C_{10} - C_{16})	150	<100	-	<100	<100	<100	**410**	<100	**380**	<100
PHCs F3 (>C_{16} - C_{34})	500	<200	-	<200	390	**550**	250	<200	<200	<200
PHCs F4 (>C_{34} - C_{50})	500	<200	-	<200	460	**740**	<200	<200	<200	<200
PHCs F4G (>C_{50})	500	-	-	-	-	**4900**	-	-	-	-
Volatile Organic Compounds										
Acetone	130000	<10	<5.0	<10	<10	<10	160	28	59	<10
Benzene	44	<0.20	<0.5	<0.20	1.1	1.1	37	<0.20	0.24	<0.20
Bromodichloromethane	85000	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	380	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5.6	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	0.79	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	630	<0.20	<0.5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	2.4	<0.20	**3.4**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	82000	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	4600	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	9600	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	8	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	4400	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	320	<0.20	<0.5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	1.6	**2.3**	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	0.55	<0.50
1,1-Dichloroethylene	1.6	<0.20	<0.5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
cis-1,2-Dichloroethylene	1.6	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethylene	1.6	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	16	<0.20	<0.5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,3-Dichloropropene (Total)	5.2	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	2300	<0.20	<0.5	<0.20	0.34	0.36	16	<0.20	12	<0.20
Ethylene Dibromide	0.25	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane	51	<1.0	<1.0	<1.0	1.1	1.1	3.6	<1.0	<1.0	<1.0
Methyl Ethyl Ketone	470000	<10	<5.0	<10	<10	<10	24	<10	<10	<10
Methyl Isobutyl Ketone	140000	<5.0	<5.0	<5.0	<5.0	<5.0	7.8	<5.0	10	<5.0
Methyl t-Butyl Ether (MTBE)	190	19	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.64
Methylene Chloride	610	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	1300	<0.50	<0.5	<0.50	<0.50	<0.50	<2.0	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	3.3	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	3.2	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	1.6	<0.20	<0.5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	18000	<0.20	<0.5	<0.20	<0.20	<0.20	250	<0.20	<0.20	0.29
1,1,1-Trichloroethane	640	<0.20	<0.5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,2-Trichloroethane	4.7	<0.50	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	1.6	<0.20	<0.5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane	2500	<0.50	<1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Vinyl Chloride	0.5	<0.20	<0.5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes (Total)	4200	<0.20	<0.5	<0.20	0.41	0.44	280	<0.20	13	0.6
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	600	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050
Acenaphthylene	1.8	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050
Anthracene	2.4	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050
Benzo(a)anthracene	4.7	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050
Benzo(a)pyrene	0.81	<0.0090	-	0.014	0.043	0.058	0.011	-	<0.0090	<0.0090
Benzo(b)fluoranthene	0.75	<0.050	-	<0.050	0.064	0.088	<0.050	-	<0.050	<0.050
Benzo(ghi)perylene	0.2	<0.050	-	<0.050	0.052	0.075	<0.050	-	<0.050	<0.050
Benzo(k)fluoranthene	0.4	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050
Chrysene	1	<0.050	-	<0.050	<0.050	0.057	<0.050	-	<0.050	<0.050
Dibenzo(a,h)anthracene	0.52	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050
Fluoranthene	130	<0.050	-	<0.050	0.11	0.14	<0.050	-	<0.050	<0.050
Fluorene	400	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050
Indeno(1,2,3-cd)pyrene	0.2	<0.050	-	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050
1- & 2-Methylnaphthalene	1800	<0.071	-	<0.071	0.19	0.18	2.3	-	1.8	<0.071
Naphthalene	1400	<0.050	-	<0.050	0.14	0.14	5.5	-	1.2	<0.050
Phenanthrene	580	<0.030	-	<0.030	0.099	0.12	<0.030	-	<0.030	<0.030
Pyrene	68	<0.050	-	<0.050	0.12	0.15	<0.050	-	<0.050	<0.050
Metals										
Antimony	20000	-	-	-	-	-	-	-	-	-
Arsenic	1900	-	-	-	-	-	-	-	-	-
Barium	29000	-	-	-	-	-	-	-	-	-
Beryllium	67	-	-	-	-	-	-	-	-	-
Boron (Total)	45000	-	-	-	-	-	-	-	-	-
Cadmium	2.7	-	-	-	-	-	-	-	-	-
Chromium (Total)	810	-	-	-	-	-	-	-	-	-
Chromium (Hexavalent)	140	-	-	-	-	-	-	-	-	-
Cobalt	66	-	-	-	-	-	-	-	-	-
Copper	87	-	-	-	-	-	-	-	-	-
Lead	25	-	-	-	-	-	-	-	-	-
Mercury	0.29	-	-	-	-	-	-	-	-	-
Molybdenum	9200	-	-	-	-	-	-	-	-	-
Nickel	490	-	-	-	-	-	-	-	-	-
Selenium	63	-	-	-	-	-	-	-	-	-
Silver	1.5	-	-	-	-	-	-	-	-	-
Thallium	510	-	-	-	-	-	-	-	-	-
Uranium	420	-	-	-	-	-	-	-	-	-
Vanadium	250	-	-	-	-	-	-	-	-	-
Zinc	1100	-	-	-	-	-	-	-	-	-
Inorganics										
Chloride	2300000	-	-	-	-	-	-	-	-	-
Sodium	2300000	-	-	-	-	-	-	-	-	-

Notes:

MECP Table 3 SCS:

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

BOLD	Exceeds SCS
BOLD	Reportable Detection Limit Exceeds SCS
Units	All units in micrograms per litre, unless otherwise noted
mbgs	metres below ground surface
NA	Not Applicable
NV	No Value
TEQ	Toxic Equivalency Quotient

Input By: CT [22-Jul-2021]

Checked By: EC [6-Aug-2021]

TABLE 6

GROUNDWATER ANALYTICAL RESULTS

CLV Group Developments Inc.

951 Gladstone Ave and 145 Loretta Ave N, Ottawa, ON

Sample Location	MECP Table 3 SCS	BHMW112	BHMW115	BHMW116	BHMW117	BHMW118	BHMW119	BHMW120	BHMW120	BHMW122
Sample Designation		BHMW112	BHMW115	BHMW116	BHMW117	BHMW118	BHMW119	BHMW120	GWDUP-1	BHMW122
Sample Collection Date (dd/mm/yyyy)		9/6/2021	9/6/2021	9/6/2021	9/6/2021	9/6/2021	15/06/2021	9/6/2021	9/6/2021	9/6/2021
Laboratory Certificate No.		C1G1158	C1G1158	C1G1158	C1G1158	C1G1158	C1G6182	C1G1158	C1G1158	C1G1158
Date of Laboratory Analysis (dd/mm/yyyy)		15/06/2021-18/06/2021	15/06/2021-18/06/2021	15/06/2021-18/06/2021	15/06/2021-18/06/2021	15/06/2021-18/06/2021	22/06/2021-23/06/2021	15/06/2021-18/06/2021	15/06/2021-18/06/2021	15/06/2021-18/06/2021
Laboratory Sample No.		PUW564	PUW565	PUW566	PUW567	PUW568	PVY849	PUW569	PUW570	PUW584
Well Screen Depth Interval (mbgs)		4.73 - 5.49	5.15 - 5.94	3.03 - 4.88	4.24 - 6.10	4.78 - 7.62	12.50 - 14.02	11.89 - 14.94	11.89 - 14.94	4.85 - 6.10
Petroleum Hydrocarbons (PHCs)										
PHCs F1 (C_6 - C_{10})	750	<25	42	<25	<25	<25	<25	34	<25	<25
PHCs F2 (>C_{10} - C_{16})	150	<100	**240**	120	<100	<100	<100	<100	<100	**170**
PHCs F3 (>C_{16} - C_{34})	500	<200	**740**	320	<200	220	<200	<200	220	<200
PHCs F4 (>C_{34} - C_{50})	500	<200	<200	240	<200	<200	<200	<200	<200	<200
PHCs F4G (>C_{50})	500	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds										
Acetone	130000	<10	<10	<10	<10	<10	<15	<10	<10	<10
Benzene	44	<0.20	8.1	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromodichloromethane	85000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	380	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	0.79	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	630	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	2.4	<0.20	<0.20	<0.20	<0.20	<0.20	0.78	<0.20	<0.20	<0.20
Dibromochloromethane	82000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	4600	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	9600	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	4400	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	320	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	1.6	<0.50	<0.50	**8.1**	<0.50	<0.50	**1.9**	**5.2**	**5**	<0.50
1,1-Dichloroethylene	1.6	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
cis-1,2-Dichloroethylene	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethylene	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	16	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,3-Dichloropropene (Total)	5.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	2300	<0.20	0.26	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylene Dibromide	0.25	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane	51	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone	470000	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone	140000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-Butyl Ether (MTBE)	190	<0.50	5.8	140	<0.50	2.4	15	39	37	<0.50
Methylene Chloride	610	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	1300	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	3.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	3.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	1.6	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	18000	<0.20	0.43	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	640	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,2-Trichloroethane	4.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	1.6	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane	2500	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Vinyl Chloride	0.5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes (Total)	4200	<0.20	<0.20	<0.20	<0.20	<0.20	0.78	0.22	0.22	0.86
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	600	<0.050	<0.20	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.14
Acenaphthylene	1.8	<0.050	0.13	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	2.4	<0.050	0.067	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)anthracene	4.7	<0.050	0.14	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	0.81	<0.0090	0.12	<0.0090	0.013	0.01	<0.0090	<0.0090	<0.0090	<0.0090
Benzo(b)fluoranthene	0.75	<0.050	0.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(ghi)perylene	0.2	<0.050	0.076	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	0.4	<0.050	0.06	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	1	<0.050	0.13	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibenzo(a,h)anthracene	0.52	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	130	<0.050	0.37	0.08	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	400	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-cd)pyrene	0.2	<0.050	0.071	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1- & 2-Methylnaphthalene	1800	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	0.084
Naphthalene	1400	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.072
Phenanthrene	580	<0.030	0.27	0.16	0.054	0.031	<0.030	<0.030	<0.030	<0.030
Pyrene	68	<0.050	0.29	0.058	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Metals										
Antimony	20000	-	-	-	-	-	-	-	-	-
Arsenic	1900	-	-	-	-	-	-	-	-	-
Barium	29000	-	-	-	-	-	-	-	-	-
Beryllium	67	-	-	-	-	-	-	-	-	-
Boron (Total)	45000	-	-	-	-	-	-	-	-	-
Cadmium	2.7	-	-	-	-	-	-	-	-	-
Chromium (Total)	810	-	-	-	-	-	-	-	-	-
Chromium (Hexavalent)	140	-	-	-	-	-	-	-	-	-
Cobalt	66	-	-	-	-	-	-	-	-	-
Copper	87	-	-	-	-	-	-	-	-	-
Lead	25	-	-	-	-	-	-	-	-	-
Mercury	0.29	-	-	-	-	-	-	-	-	-
Molybdenum	9200	-	-	-	-	-	-	-	-	-
Nickel	490	-	-	-	-	-	-	-	-	-
Selenium	63	-	-	-	-	-	-	-	-	-
Silver	1.5	-	-	-	-	-	-	-	-	-
Thallium	510	-	-	-	-	-	-	-	-	-
Uranium	420	-	-	-	-	-	-	-	-	-
Vanadium	250	-	-	-	-	-	-	-	-	-
Zinc	1100	-	-	-	-	-	-	-	-	-
Inorganics										
Chloride	2300000	-	-	-	-	-	-	-	-	-
Sodium	2300000	-	-	-	-	-	-	-	-	-

Notes:

MECP Table 3 SCS:

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

BOLD	Exceeds SCS
BOLD	Reportable Detection Limit Exceeds SCS
Units	All units in micrograms per litre, unless otherwise noted
mbgs	metres below ground surface
NA	Not Applicable
NV	No Value
TEQ	Toxic Equivalency Quotient

Input By: CT [22-Jul-2021]

Checked By: EC [6-Aug-2021]

TABLE 6

GROUNDWATER ANALYTICAL RESULTS

CLV Group Developments Inc.

951 Gladstone Ave and 145 Loretta Ave N, Ottawa, ON

Sample Location	MECP Table 3 SCS	BHMW123	BHMW124	BHMW124	BHMW125	BHMW127
Sample Designation		BHMW123	BHMW124	GWDUP-2	BHMW125	BHMW125
Sample Collection Date (dd/mm/yyyy)		9/6/2021	9/6/2021	9/6/2021	12/10/2021	12/10/2021
Laboratory Certificate No.		C1G1158	C1G1158	C1G1158	C1T8290	C1T8290
Date of Laboratory Analysis (dd/mm/yyyy)		15/06/2021-18/06/2021	15/06/2021-18/06/2021	15/06/2021-18/06/2021	15/06/2021-18/06/2021	15/06/2021-18/06/2021
Laboratory Sample No.		PUW585	PUW586	PUW587	QXT938	QXT939
Well Screen Depth Interval (mbgs)		4.89 - 6.10	4.70 - 6.10	4.70 - 6.10	4.70 - 6.10	4.70 - 6.9
Petroleum Hydrocarbons (PHCs)						
PHCs F1 (C_6 - C_{10})	750	<25	<25	<25	<25	<25
PHCs F2 (>C_{10} - C_{16})	150	120	<100	130	<100	<100
PHCs F3 (>C_{16} - C_{34})	500	250	<200	240	<200	<200
PHCs F4 (>C_{34} - C_{50})	500	<200	<200	<200	<200	<200
PHCs F4G (>C_{50})	500	-	-	-	-	-
Volatile Organic Compounds						
Acetone	130000	<10	<10	<10	<10	<10
Benzene	44	<0.20	<0.20	<0.20	<0.17	0.47
Bromodichloromethane	85000	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	380	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	5.6	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	0.79	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	630	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	2.4	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	82000	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	4600	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	9600	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	8	<0.50	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	4400	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	320	<0.20	<0.20	<0.20	<0.20	0.48
1,2-Dichloroethane	1.6	<0.50	<0.50	<0.50	<0.50	1.1
1,1-Dichloroethylene	1.6	<0.20	<0.20	<0.20	<0.20	<0.20
cis-1,2-Dichloroethylene	1.6	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethylene	1.6	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	16	<0.20	<0.20	<0.20	<0.20	<0.20
1,3-Dichloropropene (Total)	5.2	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	2300	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylene Dibromide	0.25	<0.20	<0.20	<0.20	<0.20	<0.20
Hexane	51	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone	470000	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone	140000	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-Butyl Ether (MTBE)	190	<0.50	<0.50	<0.50	<0.50	46
Methylene Chloride	610	<2.0	<2.0	<2.0	<2.0	<2.0
Styrene	1300	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	3.3	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	3.2	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethylene	1.6	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	18000	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	640	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,2-Trichloroethane	4.7	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	1.6	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane	2500	<0.50	<0.50	<0.50	<0.50	<0.50
Vinyl Chloride	0.5	<0.20	<0.20	<0.20	<0.20	<0.20
Xylenes (Total)	4200	<0.20	<0.20	<0.20	<0.20	<0.20
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	600	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	1.8	<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	2.4	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)anthracene	4.7	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	0.81	<0.0090	<0.0090	<0.0090	<0.0090	0.04
Benzo(b)fluoranthene	0.75	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(ghi)perylene	0.2	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	0.4	<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	1	<0.050	<0.050	<0.050	<0.050	0.057
Dibenzo(a,h)anthracene	0.52	<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	130	<0.050	<0.050	<0.050	<0.050	0.14
Fluorene	400	<0.050	<0.050	<0.050	<0.050	0.076
Indeno(1,2,3-cd)pyrene	0.2	<0.050	<0.050	<0.050	<0.050	<0.050
1- & 2-Methylnaphthalene	1800	<0.071	<0.071	<0.071	<0.071	<0.071
Naphthalene	1400	<0.050	<0.050	<0.050	<0.050	0.053
Phenanthrene	580	<0.030	<0.030	<0.030	<0.030	0.25
Pyrene	68	<0.050	<0.050	<0.050	<0.050	0.11
Metals						
Antimony	20000	-	<2.5	<2.5	-	-
Arsenic	1900	-	<5.0	<5.0	-	-
Barium	29000	-	310	320	-	-
Beryllium	67	-	<2.0	<2.0	-	-
Boron (Total)	45000	-	82	82	-	-
Cadmium	2.7	-	<0.45	<0.45	-	-
Chromium (Total)	810	-	<25	<25	-	-
Chromium (Hexavalent)	140	-			-	-
Cobalt	66	-	<2.5	<2.5	-	-
Copper	87	-	<4.5	<4.5	-	-
Lead	25	-	<2.5	<2.5	-	-
Mercury	0.29	-			-	-
Molybdenum	9200	-	7.1	6.9	-	-
Nickel	490	-	14	13	-	-
Selenium	63	-	<10	<10	-	-
Silver	1.5	-	<0.45	<0.45	-	-
Thallium	510	-	<0.25	<0.25	-	-
Uranium	420	-	8.9	9.1	-	-
Vanadium	250	-	<2.5	<2.5	-	-
Zinc	1100	-	<25	<25	-	-
Inorganics						
Chloride	2300000	-	**3500000**	**3700000**	**3700000**	**3700000**
Sodium	2300000	-	1300000	1400000	1400000	1400000

Notes:

MECP Table 3 SCS:

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

BOLD	Exceeds SCS
BOLD	Reportable Detection Limit Exceeds SCS
Units	All units in micrograms per litre, unless otherwise noted
mbgs	metres below ground surface
NA	Not Applicable
NV	No Value
TEQ	Toxic Equivalency Quotient

Input By: CT [22-Jul-2021]

Checked By: EC [6-Aug-2021]

TABLE 7

MAXIMUM CONCENTRATIONS IN GROUNDWATER

CLV Group Developments Inc.

951 Gladstone Ave and 145 Loretta Ave N, Ottawa, ON

Parameter	Maximum Concentration	MECP Table 3 SCS	Sample Designation	Sample Location	Sample Depth (mbgs)
Petroleum Hydrocarbons (PHCs)					
PHCs F1 (C_6 - C_{10})	**12000**	750	BH2017-02	BH2017-02	4.36 - 6.50
PHCs F2 (>C_{10} - C_{16})	**6100**	150	BH2017-02	BH2017-02	4.36 - 6.50
PHCs F3 (>C_{16} - C_{34})	**740**	500	BHMW115	BHMW115	5.15 - 5.94
PHCs F4 (>C_{34} - C_{50})	**740**	500	DUP-1	BHMW3	Unknown
PHCs F4G (>C_{50})	**4900**	500	DUP-1	BHMW3	Unknown
Volatile Organic Compounds					
Acetone	<500	130000	BH2017-02	BH2017-02	4.36 - 6.50
Benzene	37	44	BHMW108	BHMW108	5.53 - 6.10
Bromodichloromethane	<0.5	85000	Several	Several	Several
Bromoform	<1	380	Several	Several	Several
Bromomethane	<0.5	5.6	Several	Several	Several
Carbon Tetrachloride	<0.2	0.79	Several	Several	Several
Chlorobenzene	<0.5	630	Several	Several	Several
Chloroform	**3.4**	2.4	BH5-20-GW1	BH5-20	10.42 - 11.91
Dibromochloromethane	<0.5	82000	Several	Several	Several
1,2-Dichlorobenzene	<0.5	4600	Several	Several	Several
1,3-Dichlorobenzene	<0.5	9600	Several	Several	Several
1,4-Dichlorobenzene	<0.5	8	Several	Several	Several
Dichlorodifluoromethane	<50	4400	Several	Several	Several
1,1-Dichloroethane	<0.5	320	Several	Several	Several
1,2-Dichloroethane	**20**	1.6	BH2017-09	BH2017-09	4.43 - 4.50
1,1-Dichloroethylene	<0.5	1.6	Several	Several	Several
cis-1,2-Dichloroethylene	<0.5	1.6	Several	Several	Several
trans-1,2-Dichloroethylene	<0.5	1.6	Several	Several	Several
1,2-Dichloropropane	<0.5	16	Several	Several	Several
1,3-Dichloropropene (Total)	<0.5	5.2	Several	Several	Several
Ethylbenzene	1500	2300	BH2017-02	BH2017-02	4.36 - 6.50
Ethylene Dibromide	<0.2	0.25	Several	Several	Several
Hexane	**280**	51	BH2017-02	BH2017-02	4.36 - 6.50
Methyl Ethyl Ketone	24	470000	BHMW108	BHMW108	5.53 - 6.10
Methyl Isobutyl Ketone	<250	140000	BH2017-02	BH2017-02	4.36 - 6.50
Methyl t-Butyl Ether (MTBE)	**240**	190	BH2017-05, BHMW-D	BH2017-05, BH2017-05	7.80 - 10.80, 7.80 - 10.80
Methylene Chloride	<5	610	Several	Several	Several
Styrene	<2.1	1300	Several	Several	Several
1,1,1,2-Tetrachloroethane	<0.5	3.3	Several	Several	Several
1,1,2,2-Tetrachloroethane	<0.5	3.2	Several	Several	Several
Tetrachloroethylene	<0.5	1.6	Several	Several	Several
Toluene	250	18000	BHMW108	BHMW108	5.53 - 6.10
1,1,1-Trichloroethane	<0.5	640	Several	Several	Several
1,1,2-Trichloroethane	<0.5	4.7	Several	Several	Several
Trichloroethylene	<0.5	1.6	Several	Several	Several
Trichlorofluoromethane	<25	2500	Several	Several	Several
Vinyl Chloride	<0.5	0.5	Several	Several	Several
Xylenes (Total)	**6600**	4200	BH2017-02	BH2017-02	4.36 - 6.50
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	<0.2	600	Several	Several	Several
Acenaphthylene	0.13	1.8	BHMW115	BHMW115	5.15 - 5.94
Anthracene	0.067	2.4	BHMW115	BHMW115	5.15 - 5.94
Benzo(a)anthracene	0.14	4.7	BHMW115	BHMW115	5.15 - 5.94
Benzo(a)pyrene	0.12	0.81	BHMW115	BHMW115	5.15 - 5.94
Benzo(b)fluoranthene	0.2	0.75	BHMW115	BHMW115	5.15 - 5.94
Benzo(ghi)perylene	0.076	0.2	BHMW115	BHMW115	5.15 - 5.94
Benzo(k)fluoranthene	0.06	0.4	BHMW115	BHMW115	5.15 - 5.94
Chrysene	0.13	1	BHMW115	BHMW115	5.15 - 5.94
Dibenzo(a,h)anthracene	<0.05	0.52	Several	Several	Several
Fluoranthene	0.37	130	BHMW115	BHMW115	5.15 - 5.94
Fluorene	0.076	400	Several	Several	Several
Indeno(1,2,3-cd)pyrene	0.071	0.2	BHMW115	BHMW115	5.15 - 5.94
Methylnaphthalene 2-(1-)	2.3	1800	BHMW108	BHMW108	5.53 - 6.10
Naphthalene	5.5	1400	BHMW108	BHMW108	5.53 - 6.10
Phenanthrene	0.27	580	BHMW115	BHMW115	5.15 - 5.94
Pyrene	0.29	68	BHMW115	BHMW115	5.15 - 5.94
Metals					
Antimony	<2.5	20000	BHMW124, GWDUP-2	BHMW124, BHMW124	4.70 - 6.10, 4.70 - 6.10
Arsenic	<5	1900	Several	Several	Several
Barium	3800	29000	BH2017-02	BH2017-02	4.36 - 6.50
Beryllium	<2	67	Several	Several	Several
Boron	180	45000	BH2017-05, BHMW-D	BH2017-05, BH2017-05	7.80 - 10.80, 7.80 - 10.80
Cadmium	<0.45	2.7	BHMW124, GWDUP-2	BHMW124, BHMW124	4.70 - 6.10, 4.70 - 6.10
Chromium (Total)	<25	810	BHMW124, GWDUP-2	BHMW124, BHMW124	4.70 - 6.10, 4.70 - 6.10
Cobalt	6.6	66	BH2017-02	BH2017-02	4.36 - 6.50
Copper	<4.5	87	BHMW124, GWDUP-2	BHMW124, BHMW124	4.70 - 6.10, 4.70 - 6.10
Lead	13	25	BH2017-02	BH2017-02	4.36 - 6.50
Molybdenum	9.6	9200	BH2017-07	BH2017-07	7.58 - 8.00
Nickel	14	490	BHMW124	BHMW124	4.70 - 6.10
Selenium	<10	63	BHMW124, GWDUP-2	BHMW124, BHMW124	4.70 - 6.10, 4.70 - 6.10
Silver	<0.45	1.5	BHMW124, GWDUP-2	BHMW124, BHMW124	4.70 - 6.10, 4.70 - 6.10
Thallium	<0.25	510	BHMW124, GWDUP-2	BHMW124, BHMW124	4.70 - 6.10, 4.70 - 6.10
Uranium	9.1	420	GWDUP-2	BHMW124	4.70 - 6.10
Vanadium	<2.5	250	BHMW124, GWDUP-2	BHMW124, BHMW124	4.70 - 6.10, 4.70 - 6.10
Zinc	<25	1100	BHMW124, GWDUP-2	BHMW124, BHMW124	4.70 - 6.10, 4.70 - 6.10
Inorganics					
Chloride	**3700000**	2300000	GWDUP-2, BHMW125, BHMW125	MW124, BHMW125, BHMW	4.70 - 6.10, 4.70 - 6.10, 4.70 - 6.9
Sodium	1400000	2300000	GWDUP-2, BHMW125, BHMW125	MW124, BHMW125, BHMW	4.70 - 6.10, 4.70 - 6.10, 4.70 - 6.9

Notes:

Units — All units in micrograms per litre, unless otherwise noted

mbgs — metres below ground surface

Input By: CT [22-Jul-2021]

Checked By: EC [6-Aug-2021]

APPENDIX IV

Laboratory Certificates of Analysis

Your Project #: 285722.003
Your C.O.C. #: 791448-01-01, C#831272-01-01

Attention: Matt, Ryan, Mike

Pinchin Ltd
Ottawa
1 Hines Road
Suite 200
Kanata, ON
CANADA K2K 3C7

Report Date: 2021/06/18
Report #: R6682264
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1G1158
Received: 2021/06/10, 14:20

Sample Matrix: Ground Water
Samples Received: 15

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum (1)	13	N/A	2021/06/16	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum (1)	7	N/A	2021/06/17		EPA 8260C m
1,3-Dichloropropene Sum (1)	8	N/A	2021/06/18		EPA 8260C m
Chloride by Automated Colourimetry (1)	2	N/A	2021/06/15	CAM SOP-00463	SM 23 4500-Cl E m
Petroleum Hydrocarbons F2-F4 in Water (1, 2)	13	2021/06/15	2021/06/15	CAM SOP-00316	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 2)	1	2021/06/16	2021/06/16	CAM SOP-00316	CCME PHC-CWS m
Dissolved Metals by ICPMS (1)	2	N/A	2021/06/17	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM) (1)	9	2021/06/15	2021/06/15	CAM SOP-00318	EPA 8270D m
PAH Compounds in Water by GC/MS (SIM) (1)	4	2021/06/15	2021/06/16	CAM SOP-00318	EPA 8270D m
Volatile Organic Compounds and F1 PHCs (1)	15	N/A	2021/06/17	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.

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.

Your Project #: 285722.003
Your C.O.C. #: 791448-01-01, C#831272-01-01

Attention: Matt, Ryan, Mike

Pinchin Ltd
Ottawa
1 Hines Road
Suite 200
Kanata, ON
CANADA K2K 3C7

Report Date: 2021/06/18
Report #: R6682264
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1G1158
Received: 2021/06/10, 14:20

(1) This test was performed by Bureau Veritas Mississauga
(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas Laboratories 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

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

==========

BV Labs 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.

BV Labs Job #: C1G1158
Report Date: 2021/06/18

Pinchin Ltd
Client Project #: 285722.003
Sampler Initials: MK

RESULTS OF ANALYSES OF GROUND WATER

BV Labs ID		PUW586	PUW587		
Sampling Date		2021/06/09	2021/06/09		
COC Number		C#831272-01-01	C#831272-01-01		
	UNITS	BHMW124	GWDUP-2	RDL	QC Batch
Inorganics					
Dissolved Chloride (Cl-)	mg/L	3500	3700	40	7408977

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (GROUND WATER)

BV Labs ID		PUW588		
Sampling Date		2021/06/09		
COC Number		C#831272-01-01		
	UNITS	TRIP BLANK LOT # 3700	RDL	QC Batch
Calculated Parameters				
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	0.50	7405641
Volatile Organics				
Acetone (2-Propanone)	ug/L	<10	10	7406720
Benzene	ug/L	<0.20	0.20	7406720
Bromodichloromethane	ug/L	<0.50	0.50	7406720
Bromoform	ug/L	<1.0	1.0	7406720
Bromomethane	ug/L	<0.50	0.50	7406720
Carbon Tetrachloride	ug/L	<0.20	0.20	7406720
Chlorobenzene	ug/L	<0.20	0.20	7406720
Chloroform	ug/L	<0.20	0.20	7406720
Dibromochloromethane	ug/L	<0.50	0.50	7406720
1,2-Dichlorobenzene	ug/L	<0.50	0.50	7406720
1,3-Dichlorobenzene	ug/L	<0.50	0.50	7406720
1,4-Dichlorobenzene	ug/L	<0.50	0.50	7406720
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	7406720
1,1-Dichloroethane	ug/L	<0.20	0.20	7406720
1,2-Dichloroethane	ug/L	<0.50	0.50	7406720
1,1-Dichloroethylene	ug/L	<0.20	0.20	7406720
cis-1,2-Dichloroethylene	ug/L	<0.50	0.50	7406720
trans-1,2-Dichloroethylene	ug/L	<0.50	0.50	7406720
1,2-Dichloropropane	ug/L	<0.20	0.20	7406720
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	7406720
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	7406720
Ethylbenzene	ug/L	<0.20	0.20	7406720
Ethylene Dibromide	ug/L	<0.20	0.20	7406720
Hexane	ug/L	<1.0	1.0	7406720
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	7406720
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	7406720
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	7406720
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	7406720
Styrene	ug/L	<0.50	0.50	7406720
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	7406720
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	7406720
Tetrachloroethylene	ug/L	<0.20	0.20	7406720
Toluene	ug/L	<0.20	0.20	7406720

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (GROUND WATER)

BV Labs ID		PUW588		
Sampling Date		2021/06/09		
COC Number		C#831272-01-01		
	UNITS	TRIP BLANK LOT # 3700	RDL	QC Batch
1,1,1-Trichloroethane	ug/L	<0.20	0.20	7406720
1,1,2-Trichloroethane	ug/L	<0.50	0.50	7406720
Trichloroethylene	ug/L	<0.20	0.20	7406720
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	7406720
Vinyl Chloride	ug/L	<0.20	0.20	7406720
p+m-Xylene	ug/L	<0.20	0.20	7406720
o-Xylene	ug/L	<0.20	0.20	7406720
Total Xylenes	ug/L	<0.20	0.20	7406720
F1 (C6-C10)	ug/L	<25	25	7406720
F1 (C6-C10) - BTEX	ug/L	<25	25	7406720
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	89		7406720
D4-1,2-Dichloroethane	%	114		7406720
D8-Toluene	%	90		7406720

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 DISSOLVED ICPMS METALS (WATER)

BV Labs ID		PUW586	PUW587		
Sampling Date		2021/06/09	2021/06/09		
COC Number		C#831272-01-01	C#831272-01-01		
	UNITS	BHMW124	GWDUP-2	RDL	QC Batch
Metals					
Dissolved Antimony (Sb)	ug/L	<2.5	<2.5	2.5	7407329
Dissolved Arsenic (As)	ug/L	<5.0	<5.0	5.0	7407329
Dissolved Barium (Ba)	ug/L	310	320	10	7407329
Dissolved Beryllium (Be)	ug/L	<2.0	<2.0	2.0	7407329
Dissolved Boron (B)	ug/L	82	82	50	7407329
Dissolved Cadmium (Cd)	ug/L	<0.45	<0.45	0.45	7407329
Dissolved Chromium (Cr)	ug/L	<25	<25	25	7407329
Dissolved Cobalt (Co)	ug/L	<2.5	<2.5	2.5	7407329
Dissolved Copper (Cu)	ug/L	<4.5	<4.5	4.5	7407329
Dissolved Lead (Pb)	ug/L	<2.5	<2.5	2.5	7407329
Dissolved Molybdenum (Mo)	ug/L	7.1	6.9	2.5	7407329
Dissolved Nickel (Ni)	ug/L	14	13	5.0	7407329
Dissolved Selenium (Se)	ug/L	<10	<10	10	7407329
Dissolved Silver (Ag)	ug/L	<0.45	<0.45	0.45	7407329
Dissolved Sodium (Na)	ug/L	1300000	1400000	500	7407329
Dissolved Thallium (Tl)	ug/L	<0.25	<0.25	0.25	7407329
Dissolved Uranium (U)	ug/L	8.9	9.1	0.50	7407329
Dissolved Vanadium (V)	ug/L	<2.5	<2.5	2.5	7407329
Dissolved Zinc (Zn)	ug/L	<25	<25	25	7407329

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

BV Labs Job #: C1G1158
Report Date: 2021/06/18

Pinchin Ltd
Client Project #: 285722.003
Sampler Initials: MK

O.REG 153 PAHS (GROUND WATER)

BV Labs ID		PUW561	PUW563	PUW564		PUW565		PUW566		
Sampling Date		2021/06/09	2021/06/09	2021/06/09		2021/06/09		2021/06/09		
COC Number		791448-01-01	791448-01-01	791448-01-01		791448-01-01		791448-01-01		
	UNITS	BHMW108	BHMW110	BHMW112	RDL	BHMW115	RDL	BHMW116	RDL	QC Batch
Calculated Parameters										
Methylnaphthalene, 2-(1-)	ug/L	2.3	1.8	<0.071	0.071	<0.071	0.071	<0.071	0.071	7405979
Polyaromatic Hydrocarbons										
Acenaphthene	ug/L	<0.050	<0.050	<0.050	0.050	<0.20 (1)	0.20	<0.050	0.050	7407914
Acenaphthylene	ug/L	<0.050	<0.050	<0.050	0.050	0.13	0.050	<0.050	0.050	7407914
Anthracene	ug/L	<0.050	<0.050	<0.050	0.050	0.067	0.050	<0.050	0.050	7407914
Benzo(a)anthracene	ug/L	<0.050	<0.050	<0.050	0.050	0.14	0.050	<0.050	0.050	7407914
Benzo(a)pyrene	ug/L	0.011	<0.0090	<0.0090	0.0090	0.12	0.0090	<0.0090	0.0090	7407914
Benzo(b/j)fluoranthene	ug/L	<0.050	<0.050	<0.050	0.050	0.20	0.050	<0.050	0.050	7407914
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	<0.050	0.050	0.076	0.050	<0.050	0.050	7407914
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	<0.050	0.050	0.060	0.050	<0.050	0.050	7407914
Chrysene	ug/L	<0.050	<0.050	<0.050	0.050	0.13	0.050	<0.050	0.050	7407914
Dibenzo(a,h)anthracene	ug/L	<0.050	<0.050	<0.050	0.050	<0.050	0.050	<0.050	0.050	7407914
Fluoranthene	ug/L	<0.050	<0.050	<0.050	0.050	0.37	0.050	0.080	0.050	7407914
Fluorene	ug/L	<0.050	<0.050	<0.050	0.050	<0.050	0.050	<0.050	0.050	7407914
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	<0.050	0.050	0.071	0.050	<0.050	0.050	7407914
1-Methylnaphthalene	ug/L	0.97	1.2	<0.050	0.050	<0.050	0.050	<0.050	0.050	7407914
2-Methylnaphthalene	ug/L	1.3	0.60	<0.050	0.050	<0.050	0.050	<0.050	0.050	7407914
Naphthalene	ug/L	5.5	1.2	<0.050	0.050	<0.050	0.050	<0.050	0.050	7407914
Phenanthrene	ug/L	<0.030	<0.030	<0.030	0.030	0.27	0.030	0.16	0.030	7407914
Pyrene	ug/L	<0.050	<0.050	<0.050	0.050	0.29	0.050	0.058	0.050	7407914
Surrogate Recovery (%)										
D10-Anthracene	%	101	101	108		108		106		7407914
D14-Terphenyl (FS)	%	67	82	84		76		66		7407914
D8-Acenaphthylene	%	104	96	93		101		101		7407914

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Detection Limit was raised due to matrix interferences.

O.REG 153 PAHS (GROUND WATER)

BV Labs ID		PUW567			PUW567			PUW568		
Sampling Date		2021/06/09			2021/06/09			2021/06/09		
COC Number		791448-01-01			791448-01-01			791448-01-01		
	UNITS	BHMW117	RDL	QC Batch	BHMW117 Lab-Dup	RDL	QC Batch	BHMW118	RDL	QC Batch
Calculated Parameters										
Methylnaphthalene, 2-(1-)	ug/L	<0.071	0.071	7405979				<0.071	0.071	7405979
Polyaromatic Hydrocarbons										
Acenaphthene	ug/L	<0.050	0.050	7407914	<0.050	0.050	7407914	<0.050	0.050	7407914
Acenaphthylene	ug/L	<0.050	0.050	7407914	<0.050	0.050	7407914	<0.050	0.050	7407914
Anthracene	ug/L	<0.050	0.050	7407914	<0.050	0.050	7407914	<0.050	0.050	7407914
Benzo(a)anthracene	ug/L	<0.050	0.050	7407914	<0.050	0.050	7407914	<0.050	0.050	7407914
Benzo(a)pyrene	ug/L	0.013	0.0090	7407914	<0.0090	0.0090	7407914	0.010	0.0090	7407914
Benzo(b/j)fluoranthene	ug/L	<0.050	0.050	7407914	<0.050	0.050	7407914	<0.050	0.050	7407914
Benzo(g,h,i)perylene	ug/L	<0.050	0.050	7407914	<0.050	0.050	7407914	<0.050	0.050	7407914
Benzo(k)fluoranthene	ug/L	<0.050	0.050	7407914	<0.050	0.050	7407914	<0.050	0.050	7407914
Chrysene	ug/L	<0.050	0.050	7407914	<0.050	0.050	7407914	<0.050	0.050	7407914
Dibenzo(a,h)anthracene	ug/L	<0.050	0.050	7407914	<0.050	0.050	7407914	<0.050	0.050	7407914
Fluoranthene	ug/L	<0.050	0.050	7407914	<0.050	0.050	7407914	<0.050	0.050	7407914
Fluorene	ug/L	<0.050	0.050	7407914	<0.050	0.050	7407914	<0.050	0.050	7407914
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	0.050	7407914	<0.050	0.050	7407914	<0.050	0.050	7407914
1-Methylnaphthalene	ug/L	<0.050	0.050	7407914	<0.050	0.050	7407914	<0.050	0.050	7407914
2-Methylnaphthalene	ug/L	<0.050	0.050	7407914	<0.050	0.050	7407914	<0.050	0.050	7407914
Naphthalene	ug/L	<0.050	0.050	7407914	<0.050	0.050	7407914	<0.050	0.050	7407914
Phenanthrene	ug/L	0.054	0.030	7407914	0.046	0.030	7407914	0.031	0.030	7407914
Pyrene	ug/L	<0.050	0.050	7407914	<0.050	0.050	7407914	<0.050	0.050	7407914
Surrogate Recovery (%)										
D10-Anthracene	%	113		7407914	102		7407914	101		7407914
D14-Terphenyl (FS)	%	94		7407914	88		7407914	77		7407914
D8-Acenaphthylene	%	102		7407914	90		7407914	86		7407914

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

BV Labs Job #: C1G1158
Report Date: 2021/06/18

Pinchin Ltd
Client Project #: 285722.003
Sampler Initials: MK

O.REG 153 PAHS (GROUND WATER)

BV Labs ID		PUW569	PUW570	PUW584	PUW585	PUW586		
Sampling Date		2021/06/09	2021/06/09	2021/06/09	2021/06/09	2021/06/09		
COC Number		791448-01-01	791448-01-01	C#831272-01-01	C#831272-01-01	C#831272-01-01		
	UNITS	BHMW120	GWDUP-1	BHMW122	BHMW123	BHMW124	RDL	QC Batch
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/L	<0.071	<0.071	0.084	<0.071	<0.071	0.071	7405979
Polyaromatic Hydrocarbons								
Acenaphthene	ug/L	<0.050	<0.050	0.14	<0.050	<0.050	0.050	7407914
Acenaphthylene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7407914
Anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7407914
Benzo(a)anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7407914
Benzo(a)pyrene	ug/L	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	0.0090	7407914
Benzo(b/j)fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7407914
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7407914
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7407914
Chrysene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7407914
Dibenzo(a,h)anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7407914
Fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7407914
Fluorene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7407914
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7407914
1-Methylnaphthalene	ug/L	<0.050	<0.050	0.084	<0.050	<0.050	0.050	7407914
2-Methylnaphthalene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7407914
Naphthalene	ug/L	<0.050	<0.050	0.072	<0.050	<0.050	0.050	7407914
Phenanthrene	ug/L	<0.030	<0.030	<0.030	<0.030	<0.030	0.030	7407914
Pyrene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7407914
Surrogate Recovery (%)								
D10-Anthracene	%	115	104	111	98	112		7407914
D14-Terphenyl (FS)	%	97	87	89	69	86		7407914
D8-Acenaphthylene	%	99	89	104	87	100		7407914

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 PAHS (GROUND WATER)

BV Labs ID		PUW587		
Sampling Date		2021/06/09		
COC Number		C#831272-01-01		
	UNITS	GWDUP-2	RDL	QC Batch
Calculated Parameters				
Methylnaphthalene, 2-(1-)	ug/L	<0.071	0.071	7405979
Polyaromatic Hydrocarbons				
Acenaphthene	ug/L	<0.050	0.050	7407914
Acenaphthylene	ug/L	<0.050	0.050	7407914
Anthracene	ug/L	<0.050	0.050	7407914
Benzo(a)anthracene	ug/L	<0.050	0.050	7407914
Benzo(a)pyrene	ug/L	<0.0090	0.0090	7407914
Benzo(b/j)fluoranthene	ug/L	<0.050	0.050	7407914
Benzo(g,h,i)perylene	ug/L	<0.050	0.050	7407914
Benzo(k)fluoranthene	ug/L	<0.050	0.050	7407914
Chrysene	ug/L	<0.050	0.050	7407914
Dibenzo(a,h)anthracene	ug/L	<0.050	0.050	7407914
Fluoranthene	ug/L	<0.050	0.050	7407914
Fluorene	ug/L	<0.050	0.050	7407914
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	0.050	7407914
1-Methylnaphthalene	ug/L	<0.050	0.050	7407914
2-Methylnaphthalene	ug/L	<0.050	0.050	7407914
Naphthalene	ug/L	<0.050	0.050	7407914
Phenanthrene	ug/L	<0.030	0.030	7407914
Pyrene	ug/L	<0.050	0.050	7407914
Surrogate Recovery (%)				
D10-Anthracene	%	101		7407914
D14-Terphenyl (FS)	%	79		7407914
D8-Acenaphthylene	%	89		7407914

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

BV Labs ID		PUW561			PUW562		PUW563	PUW564		
Sampling Date		2021/06/09			2021/06/09		2021/06/09	2021/06/09		
COC Number		791448-01-01			791448-01-01		791448-01-01	791448-01-01		
	UNITS	BHMW108	RDL	QC Batch	BHMW109	QC Batch	BHMW110	BHMW112	RDL	QC Batch
Calculated Parameters										
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	0.50	7405641	<0.50	7405641	<0.50	<0.50	0.50	7405641
Volatile Organics										
Acetone (2-Propanone)	ug/L	160	10	7406720	28	7406720	59	<10	10	7406720
Benzene	ug/L	37	0.20	7406720	<0.20	7406720	0.24	<0.20	0.20	7406720
Bromodichloromethane	ug/L	<0.50	0.50	7406720	<0.50	7406720	<0.50	<0.50	0.50	7406720
Bromoform	ug/L	<1.0	1.0	7406720	<1.0	7406720	<1.0	<1.0	1.0	7406720
Bromomethane	ug/L	<0.50	0.50	7406720	<0.50	7406720	<0.50	<0.50	0.50	7406720
Carbon Tetrachloride	ug/L	<0.20	0.20	7406720	<0.20	7406720	<0.20	<0.20	0.20	7406720
Chlorobenzene	ug/L	<0.20	0.20	7406720	<0.20	7406720	<0.20	<0.20	0.20	7406720
Chloroform	ug/L	<0.20	0.20	7406720	<0.20	7406720	<0.20	<0.20	0.20	7406720
Dibromochloromethane	ug/L	<0.50	0.50	7406720	<0.50	7406720	<0.50	<0.50	0.50	7406720
1,2-Dichlorobenzene	ug/L	<0.50	0.50	7406720	<0.50	7406720	<0.50	<0.50	0.50	7406720
1,3-Dichlorobenzene	ug/L	<0.50	0.50	7406720	<0.50	7406720	<0.50	<0.50	0.50	7406720
1,4-Dichlorobenzene	ug/L	<0.50	0.50	7406720	<0.50	7406720	<0.50	<0.50	0.50	7406720
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	7406720	<1.0	7406720	<1.0	<1.0	1.0	7406720
1,1-Dichloroethane	ug/L	<0.20	0.20	7406720	<0.20	7406720	<0.20	<0.20	0.20	7406720
1,2-Dichloroethane	ug/L	<0.50	0.50	7406720	<0.50	7406720	0.55	<0.50	0.50	7406720
1,1-Dichloroethylene	ug/L	<0.20	0.20	7406720	<0.20	7406720	<0.20	<0.20	0.20	7406720
cis-1,2-Dichloroethylene	ug/L	<0.50	0.50	7406720	<0.50	7406720	<0.50	<0.50	0.50	7406720
trans-1,2-Dichloroethylene	ug/L	<0.50	0.50	7406720	<0.50	7406720	<0.50	<0.50	0.50	7406720
1,2-Dichloropropane	ug/L	<0.20	0.20	7406720	<0.20	7406720	<0.20	<0.20	0.20	7406720
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	7406720	<0.30	7406720	<0.30	<0.30	0.30	7406720
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	7406720	<0.40	7406720	<0.40	<0.40	0.40	7406720
Ethylbenzene	ug/L	16	0.20	7406720	<0.20	7406720	12	<0.20	0.20	7406720
Ethylene Dibromide	ug/L	<0.20	0.20	7406720	<0.20	7406720	<0.20	<0.20	0.20	7406720
Hexane	ug/L	3.6	1.0	7406720	<1.0	7406720	<1.0	<1.0	1.0	7406720
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	7406720	<2.0	7406720	<2.0	<2.0	2.0	7406720
Methyl Ethyl Ketone (2-Butanone)	ug/L	24	10	7406720	<10	7406720	<10	<10	10	7406720
Methyl Isobutyl Ketone	ug/L	7.8	5.0	7406720	<5.0	7406720	10	<5.0	5.0	7406720
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	7406720	<0.50	7406720	<0.50	<0.50	0.50	7406720
Styrene	ug/L	<2.0 (1)	2.0	7406720	<0.50	7406720	<0.50	<0.50	0.50	7406720
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	7406720	<0.50	7406720	<0.50	<0.50	0.50	7406720
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	7406720	<0.50	7406720	<0.50	<0.50	0.50	7406720
Tetrachloroethylene	ug/L	<0.20	0.20	7406720	<0.20	7406720	<0.20	<0.20	0.20	7406720
Toluene	ug/L	250	0.50	7406720	<0.20	7406720	<0.20	<0.20	0.20	7406720

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) The detection limit was raised due to interference from coeluting o-xylene.

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

BV Labs ID		PUW561			PUW562		PUW563	PUW564		
Sampling Date		2021/06/09			2021/06/09		2021/06/09	2021/06/09		
COC Number		791448-01-01			791448-01-01		791448-01-01	791448-01-01		
	UNITS	BHMW108	RDL	QC Batch	BHMW109	QC Batch	BHMW110	BHMW112	RDL	QC Batch
1,1,1-Trichloroethane	ug/L	<0.20	0.20	7406720	<0.20	7406720	<0.20	<0.20	0.20	7406720
1,1,2-Trichloroethane	ug/L	<0.50	0.50	7406720	<0.50	7406720	<0.50	<0.50	0.50	7406720
Trichloroethylene	ug/L	<0.20	0.20	7406720	<0.20	7406720	<0.20	<0.20	0.20	7406720
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	7406720	<0.50	7406720	<0.50	<0.50	0.50	7406720
Vinyl Chloride	ug/L	<0.20	0.20	7406720	<0.20	7406720	<0.20	<0.20	0.20	7406720
p+m-Xylene	ug/L	150	0.20	7406720	<0.20	7406720	11	<0.20	0.20	7406720
o-Xylene	ug/L	130	0.20	7406720	<0.20	7406720	1.8	<0.20	0.20	7406720
Total Xylenes	ug/L	280	0.20	7406720	<0.20	7406720	13	<0.20	0.20	7406720
F1 (C6-C10)	ug/L	1200	63	7406720	<25	7406720	490	<25	25	7406720
F1 (C6-C10) - BTEX	ug/L	630	63	7406720	<25	7406720	470	<25	25	7406720
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/L	410	100	7407924	<100	7410416	380	<100	100	7407924
F3 (C16-C34 Hydrocarbons)	ug/L	250	200	7407924	<200	7410416	<200	<200	200	7407924
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	7407924	<200	7410416	<200	<200	200	7407924
Reached Baseline at C50	ug/L	Yes		7407924	Yes	7410416	Yes	Yes		7407924
Surrogate Recovery (%)										
o-Terphenyl	%	94		7407924	96	7410416	97	96		7407924
4-Bromofluorobenzene	%	87		7406720	79	7406720	90	77		7406720
D4-1,2-Dichloroethane	%	105		7406720	122	7406720	103	123		7406720
D8-Toluene	%	110		7406720	86	7406720	94	90		7406720

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

BV Labs ID		PUW565	PUW566	PUW567			PUW567		
Sampling Date		2021/06/09	2021/06/09	2021/06/09			2021/06/09		
COC Number		791448-01-01	791448-01-01	791448-01-01			791448-01-01		
	UNITS	BHMW115	BHMW116	BHMW117	RDL	QC Batch	BHMW117 Lab-Dup	RDL	QC Batch
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	0.50	7405641			
Volatile Organics									
Acetone (2-Propanone)	ug/L	<10	<10	<10	10	7406720			
Benzene	ug/L	8.1	<0.20	<0.20	0.20	7406720			
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	0.50	7406720			
Bromoform	ug/L	<1.0	<1.0	<1.0	1.0	7406720			
Bromomethane	ug/L	<0.50	<0.50	<0.50	0.50	7406720			
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	0.20	7406720			
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	0.20	7406720			
Chloroform	ug/L	<0.20	<0.20	<0.20	0.20	7406720			
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	0.50	7406720			
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7406720			
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7406720			
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7406720			
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	1.0	7406720			
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	7406720			
1,2-Dichloroethane	ug/L	<0.50	8.1	<0.50	0.50	7406720			
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	7406720			
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	7406720			
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	7406720			
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	0.20	7406720			
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	0.30	7406720			
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	0.40	7406720			
Ethylbenzene	ug/L	0.26	<0.20	<0.20	0.20	7406720			
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	0.20	7406720			
Hexane	ug/L	<1.0	<1.0	<1.0	1.0	7406720			
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	2.0	7406720			
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	10	7406720			
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	5.0	7406720			
Methyl t-butyl ether (MTBE)	ug/L	5.8	140	<0.50	0.50	7406720			
Styrene	ug/L	<0.50	<0.50	<0.50	0.50	7406720			
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	7406720			
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	7406720			
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	7406720			
Toluene	ug/L	0.43	<0.20	<0.20	0.20	7406720			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

BV Labs ID		PUW565	PUW566	PUW567			PUW567		
Sampling Date		2021/06/09	2021/06/09	2021/06/09			2021/06/09		
COC Number		791448-01-01	791448-01-01	791448-01-01			791448-01-01		
	UNITS	BHMW115	BHMW116	BHMW117	RDL	QC Batch	BHMW117 Lab-Dup	RDL	QC Batch
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	7406720			
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	7406720			
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	7406720			
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	0.50	7406720			
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	0.20	7406720			
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	7406720			
o-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	7406720			
Total Xylenes	ug/L	<0.20	<0.20	<0.20	0.20	7406720			
F1 (C6-C10)	ug/L	51	<25	<25	25	7406720			
F1 (C6-C10) - BTEX	ug/L	42	<25	<25	25	7406720			
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/L	240	120	<100	100	7407924	<100	100	7407924
F3 (C16-C34 Hydrocarbons)	ug/L	740	320	<200	200	7407924	<200	200	7407924
F4 (C34-C50 Hydrocarbons)	ug/L	<200	240	<200	200	7407924	<200	200	7407924
Reached Baseline at C50	ug/L	Yes	Yes	Yes		7407924	Yes		7407924
Surrogate Recovery (%)									
o-Terphenyl	%	95	97	93		7407924	96		7407924
4-Bromofluorobenzene	%	95	94	92		7406720			
D4-1,2-Dichloroethane	%	110	109	114		7406720			
D8-Toluene	%	90	91	89		7406720			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

BV Labs ID		PUW568	PUW569	PUW570	PUW584	PUW585		
Sampling Date		2021/06/09	2021/06/09	2021/06/09	2021/06/09	2021/06/09		
COC Number		791448-01-01	791448-01-01	791448-01-01	C#831272-01-01	C#831272-01-01		
	UNITS	BHMW118	BHMW120	GWDUP-1	BHMW122	BHMW123	RDL	QC Batch
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7405641
Volatile Organics								
Acetone (2-Propanone)	ug/L	<10	<10	<10	<10	<10	10	7406720
Benzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7406720
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7406720
Bromoform	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7406720
Bromomethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7406720
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7406720
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7406720
Chloroform	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7406720
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7406720
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7406720
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7406720
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7406720
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7406720
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7406720
1,2-Dichloroethane	ug/L	<0.50	5.2	5.0	<0.50	<0.50	0.50	7406720
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7406720
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7406720
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7406720
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7406720
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	7406720
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	7406720
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7406720
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7406720
Hexane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7406720
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7406720
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	<10	<10	10	7406720
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	7406720
Methyl t-butyl ether (MTBE)	ug/L	2.4	39	37	<0.50	<0.50	0.50	7406720
Styrene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7406720
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7406720
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7406720
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7406720
Toluene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7406720
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7406720

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

BV Labs ID		PUW568	PUW569	PUW570	PUW584	PUW585		
Sampling Date		2021/06/09	2021/06/09	2021/06/09	2021/06/09	2021/06/09		
COC Number		791448-01-01	791448-01-01	791448-01-01	C#831272-01-01	C#831272-01-01		
	UNITS	BHMW118	BHMW120	GWDUP-1	BHMW122	BHMW123	RDL	QC Batch
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7406720
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7406720
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7406720
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7406720
p+m-Xylene	ug/L	<0.20	0.22	0.22	<0.20	<0.20	0.20	7406720
o-Xylene	ug/L	<0.20	<0.20	<0.20	0.86	<0.20	0.20	7406720
Total Xylenes	ug/L	<0.20	0.22	0.22	0.86	<0.20	0.20	7406720
F1 (C6-C10)	ug/L	<25	34	<25	<25	<25	25	7406720
F1 (C6-C10) - BTEX	ug/L	<25	34	<25	<25	<25	25	7406720
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	170	120	100	7407924
F3 (C16-C34 Hydrocarbons)	ug/L	220	<200	220	<200	250	200	7407924
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	<200	<200	200	7407924
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes	Yes		7407924
Surrogate Recovery (%)								
o-Terphenyl	%	94	94	92	94	94		7407924
4-Bromofluorobenzene	%	93	77	78	78	93		7406720
D4-1,2-Dichloroethane	%	115	126	126	127	114		7406720
D8-Toluene	%	87	90	89	90	88		7406720

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

BV Labs ID		PUW586	PUW587		
Sampling Date		2021/06/09	2021/06/09		
COC Number		C#831272-01-01	C#831272-01-01		
	UNITS	BHMW124	GWDUP-2	RDL	QC Batch
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	0.50	7405641
Volatile Organics					
Acetone (2-Propanone)	ug/L	<10	<10	10	7406720
Benzene	ug/L	<0.20	<0.20	0.20	7406720
Bromodichloromethane	ug/L	<0.50	<0.50	0.50	7406720
Bromoform	ug/L	<1.0	<1.0	1.0	7406720
Bromomethane	ug/L	<0.50	<0.50	0.50	7406720
Carbon Tetrachloride	ug/L	<0.20	<0.20	0.20	7406720
Chlorobenzene	ug/L	<0.20	<0.20	0.20	7406720
Chloroform	ug/L	<0.20	<0.20	0.20	7406720
Dibromochloromethane	ug/L	<0.50	<0.50	0.50	7406720
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	7406720
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	7406720
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	7406720
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	1.0	7406720
1,1-Dichloroethane	ug/L	<0.20	<0.20	0.20	7406720
1,2-Dichloroethane	ug/L	<0.50	<0.50	0.50	7406720
1,1-Dichloroethylene	ug/L	<0.20	<0.20	0.20	7406720
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	7406720
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	7406720
1,2-Dichloropropane	ug/L	<0.20	<0.20	0.20	7406720
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	0.30	7406720
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	0.40	7406720
Ethylbenzene	ug/L	<0.20	<0.20	0.20	7406720
Ethylene Dibromide	ug/L	<0.20	<0.20	0.20	7406720
Hexane	ug/L	<1.0	<1.0	1.0	7406720
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	2.0	7406720
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	10	7406720
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	5.0	7406720
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	0.50	7406720
Styrene	ug/L	<0.50	<0.50	0.50	7406720
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	7406720
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	7406720
Tetrachloroethylene	ug/L	<0.20	<0.20	0.20	7406720
Toluene	ug/L	<0.20	<0.20	0.20	7406720
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	0.20	7406720

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

BV Labs ID		PUW586	PUW587		
Sampling Date		2021/06/09	2021/06/09		
COC Number		C#831272-01-01	C#831272-01-01		
	UNITS	BHMW124	GWDUP-2	RDL	QC Batch
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	0.50	7406720
Trichloroethylene	ug/L	<0.20	<0.20	0.20	7406720
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	0.50	7406720
Vinyl Chloride	ug/L	<0.20	<0.20	0.20	7406720
p+m-Xylene	ug/L	<0.20	<0.20	0.20	7406720
o-Xylene	ug/L	<0.20	<0.20	0.20	7406720
Total Xylenes	ug/L	<0.20	<0.20	0.20	7406720
F1 (C6-C10)	ug/L	<25	<25	25	7406720
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	7406720
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	<100	130	100	7407924
F3 (C16-C34 Hydrocarbons)	ug/L	<200	240	200	7407924
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	7407924
Reached Baseline at C50	ug/L	Yes	Yes		7407924
Surrogate Recovery (%)					
o-Terphenyl	%	93	93		7407924
4-Bromofluorobenzene	%	89	90		7406720
D4-1,2-Dichloroethane	%	113	116		7406720
D8-Toluene	%	90	90		7406720

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

TEST SUMMARY

BV Labs ID: PUW561 **Collected:** 2021/06/09
Sample ID: BHMW108 **Shipped:**
Matrix: Ground Water **Received:** 2021/06/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7405979	N/A	2021/06/16	Automated Statchk
1,3-Dichloropropene Sum	CALC	7405641	N/A	2021/06/17	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7407924	2021/06/15	2021/06/15	Ravinder Gaidhu
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7407914	2021/06/15	2021/06/15	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7406720	N/A	2021/06/17	Yang (Philip) Yu

BV Labs ID: PUW562 **Collected:** 2021/06/09
Sample ID: BHMW109 **Shipped:**
Matrix: Ground Water **Received:** 2021/06/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7405641	N/A	2021/06/17	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7410416	2021/06/16	2021/06/16	Jeevaraj Jeevaratrnam
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7406720	N/A	2021/06/17	Yang (Philip) Yu

BV Labs ID: PUW563 **Collected:** 2021/06/09
Sample ID: BHMW110 **Shipped:**
Matrix: Ground Water **Received:** 2021/06/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7405979	N/A	2021/06/16	Automated Statchk
1,3-Dichloropropene Sum	CALC	7405641	N/A	2021/06/17	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7407924	2021/06/15	2021/06/15	Ravinder Gaidhu
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7407914	2021/06/15	2021/06/15	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7406720	N/A	2021/06/17	Yang (Philip) Yu

BV Labs ID: PUW564 **Collected:** 2021/06/09
Sample ID: BHMW112 **Shipped:**
Matrix: Ground Water **Received:** 2021/06/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7405979	N/A	2021/06/16	Automated Statchk
1,3-Dichloropropene Sum	CALC	7405641	N/A	2021/06/17	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7407924	2021/06/15	2021/06/15	Ravinder Gaidhu
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7407914	2021/06/15	2021/06/15	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7406720	N/A	2021/06/17	Yang (Philip) Yu

BV Labs ID: PUW565 **Collected:** 2021/06/09
Sample ID: BHMW115 **Shipped:**
Matrix: Ground Water **Received:** 2021/06/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7405979	N/A	2021/06/16	Automated Statchk
1,3-Dichloropropene Sum	CALC	7405641	N/A	2021/06/18	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7407924	2021/06/15	2021/06/15	Ravinder Gaidhu
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7407914	2021/06/15	2021/06/15	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7406720	N/A	2021/06/17	Yang (Philip) Yu

TEST SUMMARY

BV Labs ID: PUW566 **Collected:** 2021/06/09
Sample ID: BHMW116 **Shipped:**
Matrix: Ground Water **Received:** 2021/06/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7405979	N/A	2021/06/16	Automated Statchk
1,3-Dichloropropene Sum	CALC	7405641	N/A	2021/06/18	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7407924	2021/06/15	2021/06/15	Ravinder Gaidhu
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7407914	2021/06/15	2021/06/15	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7406720	N/A	2021/06/17	Yang (Philip) Yu

BV Labs ID: PUW567 **Collected:** 2021/06/09
Sample ID: BHMW117 **Shipped:**
Matrix: Ground Water **Received:** 2021/06/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7405979	N/A	2021/06/16	Automated Statchk
1,3-Dichloropropene Sum	CALC	7405641	N/A	2021/06/18	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7407924	2021/06/15	2021/06/15	Ravinder Gaidhu
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7407914	2021/06/15	2021/06/15	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7406720	N/A	2021/06/17	Yang (Philip) Yu

BV Labs ID: PUW567 Dup **Collected:** 2021/06/09
Sample ID: BHMW117 **Shipped:**
Matrix: Ground Water **Received:** 2021/06/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7407924	2021/06/15	2021/06/15	Ravinder Gaidhu
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7407914	2021/06/15	2021/06/15	Jonghan Yoon

BV Labs ID: PUW568 **Collected:** 2021/06/09
Sample ID: BHMW118 **Shipped:**
Matrix: Ground Water **Received:** 2021/06/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7405979	N/A	2021/06/16	Automated Statchk
1,3-Dichloropropene Sum	CALC	7405641	N/A	2021/06/18	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7407924	2021/06/15	2021/06/15	Ravinder Gaidhu
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7407914	2021/06/15	2021/06/15	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7406720	N/A	2021/06/17	Yang (Philip) Yu

BV Labs ID: PUW569 **Collected:** 2021/06/09
Sample ID: BHMW120 **Shipped:**
Matrix: Ground Water **Received:** 2021/06/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7405979	N/A	2021/06/16	Automated Statchk
1,3-Dichloropropene Sum	CALC	7405641	N/A	2021/06/17	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7407924	2021/06/15	2021/06/15	Ravinder Gaidhu
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7407914	2021/06/15	2021/06/15	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7406720	N/A	2021/06/17	Yang (Philip) Yu

TEST SUMMARY

BV Labs ID: PUW570 **Collected:** 2021/06/09
Sample ID: GWDUP-1 **Shipped:**
Matrix: Ground Water **Received:** 2021/06/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7405979	N/A	2021/06/16	Automated Statchk
1,3-Dichloropropene Sum	CALC	7405641	N/A	2021/06/17	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7407924	2021/06/15	2021/06/15	Ravinder Gaidhu
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7407914	2021/06/15	2021/06/15	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7406720	N/A	2021/06/17	Yang (Philip) Yu

BV Labs ID: PUW584 **Collected:** 2021/06/09
Sample ID: BHMW122 **Shipped:**
Matrix: Ground Water **Received:** 2021/06/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7405979	N/A	2021/06/16	Automated Statchk
1,3-Dichloropropene Sum	CALC	7405641	N/A	2021/06/17	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7407924	2021/06/15	2021/06/15	Ravinder Gaidhu
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7407914	2021/06/15	2021/06/16	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7406720	N/A	2021/06/17	Yang (Philip) Yu

BV Labs ID: PUW585 **Collected:** 2021/06/09
Sample ID: BHMW123 **Shipped:**
Matrix: Ground Water **Received:** 2021/06/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7405979	N/A	2021/06/16	Automated Statchk
1,3-Dichloropropene Sum	CALC	7405641	N/A	2021/06/18	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7407924	2021/06/15	2021/06/15	Ravinder Gaidhu
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7407914	2021/06/15	2021/06/16	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7406720	N/A	2021/06/17	Yang (Philip) Yu

BV Labs ID: PUW586 **Collected:** 2021/06/09
Sample ID: BHMW124 **Shipped:**
Matrix: Ground Water **Received:** 2021/06/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7405979	N/A	2021/06/16	Automated Statchk
1,3-Dichloropropene Sum	CALC	7405641	N/A	2021/06/18	Automated Statchk
Chloride by Automated Colourimetry	KONE	7408977	N/A	2021/06/15	Avneet Kour Sudan
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7407924	2021/06/15	2021/06/15	Ravinder Gaidhu
Dissolved Metals by ICPMS	ICP/MS	7407329	N/A	2021/06/17	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7407914	2021/06/15	2021/06/16	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7406720	N/A	2021/06/17	Yang (Philip) Yu

BV Labs ID: PUW587 **Collected:** 2021/06/09
Sample ID: GWDUP-2 **Shipped:**
Matrix: Ground Water **Received:** 2021/06/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7405979	N/A	2021/06/16	Automated Statchk

BV Labs Job #: C1G1158
Report Date: 2021/06/18

Pinchin Ltd
Client Project #: 285722.003
Sampler Initials: MK

TEST SUMMARY

BV Labs ID: PUW587
Sample ID: GWDUP-2
Matrix: Ground Water

Collected: 2021/06/09
Shipped:
Received: 2021/06/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7405641	N/A	2021/06/18	Automated Statchk
Chloride by Automated Colourimetry	KONE	7408977	N/A	2021/06/15	Avneet Kour Sudan
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7407924	2021/06/15	2021/06/15	Ravinder Gaidhu
Dissolved Metals by ICPMS	ICP/MS	7407329	N/A	2021/06/17	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7407914	2021/06/15	2021/06/16	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7406720	N/A	2021/06/17	Yang (Philip) Yu

BV Labs ID: PUW588
Sample ID: TRIP BLANK LOT # 3700
Matrix: Ground Water

Collected: 2021/06/09
Shipped:
Received: 2021/06/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7405641	N/A	2021/06/18	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7406720	N/A	2021/06/17	Yang (Philip) Yu

GENERAL COMMENTS

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

Package 1	7.0°C

Cooler custody seal was present and intact.

All 40 ml vials for F1BTEX and VOC analyses contained visible sediment, except for the Trip Blank .
All 100 ml amber glass bottles for F2-F4 and PAH analyses contained visible sediment, which was included in the extraction.
All 250mL plastic General bottles contained visible sediment.

Sample PUW561 [BHMW108] : VOCF1 Analysis: Due to high concentrations of target analytes, the sample required dilution. The detection limits were adjusted accordingly. In order to meet required regulatory criteria, results for selected compounds (obtained by a separate analysis using an appropriate low dilution) are included in the report.

Sample PUW586 [BHMW124] : Metals Analysis: Due to the sample matrix, the sample required dilution. Detection limits were adjusted accordingly.

Sample PUW587 [GWDUP-2] : Metals Analysis: Due to the sample matrix, the sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7406720	YY	Matrix Spike	4-Bromofluorobenzene	2021/06/16		99	%	70 - 130
			D4-1,2-Dichloroethane	2021/06/16		109	%	70 - 130
			D8-Toluene	2021/06/16		106	%	70 - 130
			Acetone (2-Propanone)	2021/06/16		81	%	60 - 140
			Benzene	2021/06/16		77	%	70 - 130
			Bromodichloromethane	2021/06/16		91	%	70 - 130
			Bromoform	2021/06/16		82	%	70 - 130
			Bromomethane	2021/06/16		73	%	60 - 140
			Carbon Tetrachloride	2021/06/16		85	%	70 - 130
			Chlorobenzene	2021/06/16		80	%	70 - 130
			Chloroform	2021/06/16		85	%	70 - 130
			Dibromochloromethane	2021/06/16		76	%	70 - 130
			1,2-Dichlorobenzene	2021/06/16		77	%	70 - 130
			1,3-Dichlorobenzene	2021/06/16		75	%	70 - 130
			1,4-Dichlorobenzene	2021/06/16		89	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2021/06/16		52 (1)	%	60 - 140
			1,1-Dichloroethane	2021/06/16		84	%	70 - 130
			1,2-Dichloroethane	2021/06/16		84	%	70 - 130
			1,1-Dichloroethylene	2021/06/16		80	%	70 - 130
			cis-1,2-Dichloroethylene	2021/06/16		72	%	70 - 130
			trans-1,2-Dichloroethylene	2021/06/16		80	%	70 - 130
			1,2-Dichloropropane	2021/06/16		85	%	70 - 130
			cis-1,3-Dichloropropene	2021/06/16		75	%	70 - 130
			trans-1,3-Dichloropropene	2021/06/16		80	%	70 - 130
			Ethylbenzene	2021/06/16		74	%	70 - 130
			Ethylene Dibromide	2021/06/16		82	%	70 - 130
			Hexane	2021/06/16		86	%	70 - 130
			Methylene Chloride(Dichloromethane)	2021/06/16		100	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2021/06/16		80	%	60 - 140
			Methyl Isobutyl Ketone	2021/06/16		86	%	70 - 130
			Methyl t-butyl ether (MTBE)	2021/06/16		71	%	70 - 130
			Styrene	2021/06/16		87	%	70 - 130
			1,1,1,2-Tetrachloroethane	2021/06/16		87	%	70 - 130
			1,1,2,2-Tetrachloroethane	2021/06/16		89	%	70 - 130
			Tetrachloroethylene	2021/06/16		71	%	70 - 130
			Toluene	2021/06/16		81	%	70 - 130
			1,1,1-Trichloroethane	2021/06/16		89	%	70 - 130
			1,1,2-Trichloroethane	2021/06/16		87	%	70 - 130
			Trichloroethylene	2021/06/16		81	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2021/06/16		80	%	70 - 130
			Vinyl Chloride	2021/06/16		69 (1)	%	70 - 130
			p+m-Xylene	2021/06/16		76	%	70 - 130
			o-Xylene	2021/06/16		79	%	70 - 130
			F1 (C6-C10)	2021/06/16		90	%	60 - 140
7406720	YY	Spiked Blank	4-Bromofluorobenzene	2021/06/16		95	%	70 - 130
			D4-1,2-Dichloroethane	2021/06/16		107	%	70 - 130
			D8-Toluene	2021/06/16		117	%	70 - 130
			Acetone (2-Propanone)	2021/06/16		92	%	60 - 140
			Benzene	2021/06/16		92	%	70 - 130
			Bromodichloromethane	2021/06/16		105	%	70 - 130
			Bromoform	2021/06/16		89	%	70 - 130
			Bromomethane	2021/06/16		86	%	60 - 140
			Carbon Tetrachloride	2021/06/16		102	%	70 - 130
			Chlorobenzene	2021/06/16		95	%	70 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Chloroform	2021/06/16		102	%	70 - 130
			Dibromochloromethane	2021/06/16		86	%	70 - 130
			1,2-Dichlorobenzene	2021/06/16		94	%	70 - 130
			1,3-Dichlorobenzene	2021/06/16		91	%	70 - 130
			1,4-Dichlorobenzene	2021/06/16		110	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2021/06/16		59 (1)	%	60 - 140
			1,1-Dichloroethane	2021/06/16		96	%	70 - 130
			1,2-Dichloroethane	2021/06/16		98	%	70 - 130
			1,1-Dichloroethylene	2021/06/16		95	%	70 - 130
			cis-1,2-Dichloroethylene	2021/06/16		101	%	70 - 130
			trans-1,2-Dichloroethylene	2021/06/16		95	%	70 - 130
			1,2-Dichloropropane	2021/06/16		99	%	70 - 130
			cis-1,3-Dichloropropene	2021/06/16		91	%	70 - 130
			trans-1,3-Dichloropropene	2021/06/16		107	%	70 - 130
			Ethylbenzene	2021/06/16		92	%	70 - 130
			Ethylene Dibromide	2021/06/16		93	%	70 - 130
			Hexane	2021/06/16		102	%	70 - 130
			Methylene Chloride(Dichloromethane)	2021/06/16		115	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2021/06/16		102	%	60 - 140
			Methyl Isobutyl Ketone	2021/06/16		101	%	70 - 130
			Methyl t-butyl ether (MTBE)	2021/06/16		81	%	70 - 130
			Styrene	2021/06/16		108	%	70 - 130
			1,1,1,2-Tetrachloroethane	2021/06/16		102	%	70 - 130
			1,1,2,2-Tetrachloroethane	2021/06/16		102	%	70 - 130
			Tetrachloroethylene	2021/06/16		79	%	70 - 130
			Toluene	2021/06/16		105	%	70 - 130
			1,1,1-Trichloroethane	2021/06/16		106	%	70 - 130
			1,1,2-Trichloroethane	2021/06/16		99	%	70 - 130
			Trichloroethylene	2021/06/16		97	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2021/06/16		93	%	70 - 130
			Vinyl Chloride	2021/06/16		82	%	70 - 130
			p+m-Xylene	2021/06/16		95	%	70 - 130
			o-Xylene	2021/06/16		97	%	70 - 130
			F1 (C6-C10)	2021/06/16		90	%	60 - 140
7406720	YY	Method Blank	4-Bromofluorobenzene	2021/06/16		86	%	70 - 130
			D4-1,2-Dichloroethane	2021/06/16		117	%	70 - 130
			D8-Toluene	2021/06/16		88	%	70 - 130
			Acetone (2-Propanone)	2021/06/16	<10		ug/L	
			Benzene	2021/06/16	<0.20		ug/L	
			Bromodichloromethane	2021/06/16	<0.50		ug/L	
			Bromoform	2021/06/16	<1.0		ug/L	
			Bromomethane	2021/06/16	<0.50		ug/L	
			Carbon Tetrachloride	2021/06/16	<0.20		ug/L	
			Chlorobenzene	2021/06/16	<0.20		ug/L	
			Chloroform	2021/06/16	<0.20		ug/L	
			Dibromochloromethane	2021/06/16	<0.50		ug/L	
			1,2-Dichlorobenzene	2021/06/16	<0.50		ug/L	
			1,3-Dichlorobenzene	2021/06/16	<0.50		ug/L	
			1,4-Dichlorobenzene	2021/06/16	<0.50		ug/L	
			Dichlorodifluoromethane (FREON 12)	2021/06/16	<1.0		ug/L	
			1,1-Dichloroethane	2021/06/16	<0.20		ug/L	
			1,2-Dichloroethane	2021/06/16	<0.50		ug/L	
			1,1-Dichloroethylene	2021/06/16	<0.20		ug/L	
			cis-1,2-Dichloroethylene	2021/06/16	<0.50		ug/L	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			trans-1,2-Dichloroethylene	2021/06/16	<0.50		ug/L	
			1,2-Dichloropropane	2021/06/16	<0.20		ug/L	
			cis-1,3-Dichloropropene	2021/06/16	<0.30		ug/L	
			trans-1,3-Dichloropropene	2021/06/16	<0.40		ug/L	
			Ethylbenzene	2021/06/16	<0.20		ug/L	
			Ethylene Dibromide	2021/06/16	<0.20		ug/L	
			Hexane	2021/06/16	<1.0		ug/L	
			Methylene Chloride(Dichloromethane)	2021/06/16	<2.0		ug/L	
			Methyl Ethyl Ketone (2-Butanone)	2021/06/16	<10		ug/L	
			Methyl Isobutyl Ketone	2021/06/16	<5.0		ug/L	
			Methyl t-butyl ether (MTBE)	2021/06/16	<0.50		ug/L	
			Styrene	2021/06/16	<0.50		ug/L	
			1,1,1,2-Tetrachloroethane	2021/06/16	<0.50		ug/L	
			1,1,2,2-Tetrachloroethane	2021/06/16	<0.50		ug/L	
			Tetrachloroethylene	2021/06/16	<0.20		ug/L	
			Toluene	2021/06/16	<0.20		ug/L	
			1,1,1-Trichloroethane	2021/06/16	<0.20		ug/L	
			1,1,2-Trichloroethane	2021/06/16	<0.50		ug/L	
			Trichloroethylene	2021/06/16	<0.20		ug/L	
			Trichlorofluoromethane (FREON 11)	2021/06/16	<0.50		ug/L	
			Vinyl Chloride	2021/06/16	<0.20		ug/L	
			p+m-Xylene	2021/06/16	<0.20		ug/L	
			o-Xylene	2021/06/16	<0.20		ug/L	
			Total Xylenes	2021/06/16	<0.20		ug/L	
			F1 (C6-C10)	2021/06/16	<25		ug/L	
			F1 (C6-C10) - BTEX	2021/06/16	<25		ug/L	
7406720	YY	RPD	Acetone (2-Propanone)	2021/06/16	NC		%	30
			Benzene	2021/06/16	NC		%	30
			Bromodichloromethane	2021/06/16	NC		%	30
			Bromoform	2021/06/16	NC		%	30
			Bromomethane	2021/06/16	NC		%	30
			Carbon Tetrachloride	2021/06/16	NC		%	30
			Chlorobenzene	2021/06/16	NC		%	30
			Chloroform	2021/06/16	NC		%	30
			Dibromochloromethane	2021/06/16	NC		%	30
			1,2-Dichlorobenzene	2021/06/16	NC		%	30
			1,3-Dichlorobenzene	2021/06/16	NC		%	30
			1,4-Dichlorobenzene	2021/06/16	NC		%	30
			Dichlorodifluoromethane (FREON 12)	2021/06/16	NC		%	30
			1,1-Dichloroethane	2021/06/16	NC		%	30
			1,2-Dichloroethane	2021/06/16	NC		%	30
			1,1-Dichloroethylene	2021/06/16	NC		%	30
			cis-1,2-Dichloroethylene	2021/06/16	NC		%	30
			trans-1,2-Dichloroethylene	2021/06/16	NC		%	30
			1,2-Dichloropropane	2021/06/16	NC		%	30
			cis-1,3-Dichloropropene	2021/06/16	NC		%	30
			trans-1,3-Dichloropropene	2021/06/16	NC		%	30
			Ethylbenzene	2021/06/16	NC		%	30
			Ethylene Dibromide	2021/06/16	NC		%	30
			Hexane	2021/06/16	NC		%	30
			Methylene Chloride(Dichloromethane)	2021/06/16	NC		%	30
			Methyl Ethyl Ketone (2-Butanone)	2021/06/16	NC		%	30
			Methyl Isobutyl Ketone	2021/06/16	NC		%	30
			Methyl t-butyl ether (MTBE)	2021/06/16	NC		%	30

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Styrene	2021/06/16	NC		%	30
			1,1,1,2-Tetrachloroethane	2021/06/16	NC		%	30
			1,1,2,2-Tetrachloroethane	2021/06/16	NC		%	30
			Tetrachloroethylene	2021/06/16	NC		%	30
			Toluene	2021/06/16	NC		%	30
			1,1,1-Trichloroethane	2021/06/16	NC		%	30
			1,1,2-Trichloroethane	2021/06/16	NC		%	30
			Trichloroethylene	2021/06/16	NC		%	30
			Trichlorofluoromethane (FREON 11)	2021/06/16	NC		%	30
			Vinyl Chloride	2021/06/16	NC		%	30
			p+m-Xylene	2021/06/16	NC		%	30
			o-Xylene	2021/06/16	NC		%	30
			Total Xylenes	2021/06/16	NC		%	30
			F1 (C6-C10)	2021/06/16	NC		%	30
			F1 (C6-C10) - BTEX	2021/06/16	NC		%	30
7407329	PBA	Matrix Spike	Dissolved Antimony (Sb)	2021/06/17		111	%	80 - 120
			Dissolved Arsenic (As)	2021/06/17		104	%	80 - 120
			Dissolved Barium (Ba)	2021/06/17		103	%	80 - 120
			Dissolved Beryllium (Be)	2021/06/17		105	%	80 - 120
			Dissolved Boron (B)	2021/06/17		95	%	80 - 120
			Dissolved Cadmium (Cd)	2021/06/17		101	%	80 - 120
			Dissolved Chromium (Cr)	2021/06/17		104	%	80 - 120
			Dissolved Cobalt (Co)	2021/06/17		103	%	80 - 120
			Dissolved Copper (Cu)	2021/06/17		110	%	80 - 120
			Dissolved Lead (Pb)	2021/06/17		94	%	80 - 120
			Dissolved Molybdenum (Mo)	2021/06/17		115	%	80 - 120
			Dissolved Nickel (Ni)	2021/06/17		98	%	80 - 120
			Dissolved Selenium (Se)	2021/06/17		99	%	80 - 120
			Dissolved Silver (Ag)	2021/06/17		97	%	80 - 120
			Dissolved Sodium (Na)	2021/06/17		NC	%	80 - 120
			Dissolved Thallium (Tl)	2021/06/17		95	%	80 - 120
			Dissolved Uranium (U)	2021/06/17		101	%	80 - 120
			Dissolved Vanadium (V)	2021/06/17		108	%	80 - 120
			Dissolved Zinc (Zn)	2021/06/17		95	%	80 - 120
7407329	PBA	Spiked Blank	Dissolved Antimony (Sb)	2021/06/17		103	%	80 - 120
			Dissolved Arsenic (As)	2021/06/17		100	%	80 - 120
			Dissolved Barium (Ba)	2021/06/17		101	%	80 - 120
			Dissolved Beryllium (Be)	2021/06/17		99	%	80 - 120
			Dissolved Boron (B)	2021/06/17		91	%	80 - 120
			Dissolved Cadmium (Cd)	2021/06/17		100	%	80 - 120
			Dissolved Chromium (Cr)	2021/06/17		99	%	80 - 120
			Dissolved Cobalt (Co)	2021/06/17		102	%	80 - 120
			Dissolved Copper (Cu)	2021/06/17		105	%	80 - 120
			Dissolved Lead (Pb)	2021/06/17		98	%	80 - 120
			Dissolved Molybdenum (Mo)	2021/06/17		104	%	80 - 120
			Dissolved Nickel (Ni)	2021/06/17		100	%	80 - 120
			Dissolved Selenium (Se)	2021/06/17		99	%	80 - 120
			Dissolved Silver (Ag)	2021/06/17		101	%	80 - 120
			Dissolved Sodium (Na)	2021/06/17		101	%	80 - 120
			Dissolved Thallium (Tl)	2021/06/17		97	%	80 - 120
			Dissolved Uranium (U)	2021/06/17		99	%	80 - 120
			Dissolved Vanadium (V)	2021/06/17		100	%	80 - 120
			Dissolved Zinc (Zn)	2021/06/17		101	%	80 - 120
7407329	PBA	Method Blank	Dissolved Antimony (Sb)	2021/06/17	<0.50		ug/L	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Arsenic (As)	2021/06/17	<1.0		ug/L	
			Dissolved Barium (Ba)	2021/06/17	<2.0		ug/L	
			Dissolved Beryllium (Be)	2021/06/17	<0.40		ug/L	
			Dissolved Boron (B)	2021/06/17	<10		ug/L	
			Dissolved Cadmium (Cd)	2021/06/17	<0.090		ug/L	
			Dissolved Chromium (Cr)	2021/06/17	<5.0		ug/L	
			Dissolved Cobalt (Co)	2021/06/17	<0.50		ug/L	
			Dissolved Copper (Cu)	2021/06/17	<0.90		ug/L	
			Dissolved Lead (Pb)	2021/06/17	<0.50		ug/L	
			Dissolved Molybdenum (Mo)	2021/06/17	<0.50		ug/L	
			Dissolved Nickel (Ni)	2021/06/17	<1.0		ug/L	
			Dissolved Selenium (Se)	2021/06/17	<2.0		ug/L	
			Dissolved Silver (Ag)	2021/06/17	<0.090		ug/L	
			Dissolved Sodium (Na)	2021/06/17	<100		ug/L	
			Dissolved Thallium (Tl)	2021/06/17	<0.050		ug/L	
			Dissolved Uranium (U)	2021/06/17	<0.10		ug/L	
			Dissolved Vanadium (V)	2021/06/17	<0.50		ug/L	
			Dissolved Zinc (Zn)	2021/06/17	<5.0		ug/L	
7407329	PBA	RPD	Dissolved Lead (Pb)	2021/06/17	NC		%	20
7407914	JYO	Matrix Spike [PUW565-02]	D10-Anthracene	2021/06/15		101	%	50 - 130
			D14-Terphenyl (FS)	2021/06/15		69	%	50 - 130
			D8-Acenaphthylene	2021/06/15		102	%	50 - 130
			Acenaphthene	2021/06/15		105	%	50 - 130
			Acenaphthylene	2021/06/15		100	%	50 - 130
			Anthracene	2021/06/15		101	%	50 - 130
			Benzo(a)anthracene	2021/06/15		104	%	50 - 130
			Benzo(a)pyrene	2021/06/15		87	%	50 - 130
			Benzo(b/j)fluoranthene	2021/06/15		106	%	50 - 130
			Benzo(g,h,i)perylene	2021/06/15		97	%	50 - 130
			Benzo(k)fluoranthene	2021/06/15		98	%	50 - 130
			Chrysene	2021/06/15		105	%	50 - 130
			Dibenzo(a,h)anthracene	2021/06/15		90	%	50 - 130
			Fluoranthene	2021/06/15		109	%	50 - 130
			Fluorene	2021/06/15		108	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/06/15		96	%	50 - 130
			1-Methylnaphthalene	2021/06/15		108	%	50 - 130
			2-Methylnaphthalene	2021/06/15		111	%	50 - 130
			Naphthalene	2021/06/15		96	%	50 - 130
			Phenanthrene	2021/06/15		109	%	50 - 130
			Pyrene	2021/06/15		106	%	50 - 130
7407914	JYO	Spiked Blank	D10-Anthracene	2021/06/15		109	%	50 - 130
			D14-Terphenyl (FS)	2021/06/15		92	%	50 - 130
			D8-Acenaphthylene	2021/06/15		102	%	50 - 130
			Acenaphthene	2021/06/15		101	%	50 - 130
			Acenaphthylene	2021/06/15		97	%	50 - 130
			Anthracene	2021/06/15		102	%	50 - 130
			Benzo(a)anthracene	2021/06/15		102	%	50 - 130
			Benzo(a)pyrene	2021/06/15		87	%	50 - 130
			Benzo(b/j)fluoranthene	2021/06/15		110	%	50 - 130
			Benzo(g,h,i)perylene	2021/06/15		99	%	50 - 130
			Benzo(k)fluoranthene	2021/06/15		97	%	50 - 130
			Chrysene	2021/06/15		106	%	50 - 130
			Dibenzo(a,h)anthracene	2021/06/15		84	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Fluoranthene	2021/06/15		104	%	50 - 130
			Fluorene	2021/06/15		102	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/06/15		96	%	50 - 130
			1-Methylnaphthalene	2021/06/15		107	%	50 - 130
			2-Methylnaphthalene	2021/06/15		102	%	50 - 130
			Naphthalene	2021/06/15		95	%	50 - 130
			Phenanthrene	2021/06/15		102	%	50 - 130
			Pyrene	2021/06/15		105	%	50 - 130
7407914	JYO	Method Blank	D10-Anthracene	2021/06/16		110	%	50 - 130
			D14-Terphenyl (FS)	2021/06/16		96	%	50 - 130
			D8-Acenaphthylene	2021/06/16		89	%	50 - 130
			Acenaphthene	2021/06/16	<0.050		ug/L	
			Acenaphthylene	2021/06/16	<0.050		ug/L	
			Anthracene	2021/06/16	<0.050		ug/L	
			Benzo(a)anthracene	2021/06/16	<0.050		ug/L	
			Benzo(a)pyrene	2021/06/16	<0.0090		ug/L	
			Benzo(b/j)fluoranthene	2021/06/16	<0.050		ug/L	
			Benzo(g,h,i)perylene	2021/06/16	<0.050		ug/L	
			Benzo(k)fluoranthene	2021/06/16	<0.050		ug/L	
			Chrysene	2021/06/16	<0.050		ug/L	
			Dibenzo(a,h)anthracene	2021/06/16	<0.050		ug/L	
			Fluoranthene	2021/06/16	<0.050		ug/L	
			Fluorene	2021/06/16	<0.050		ug/L	
			Indeno(1,2,3-cd)pyrene	2021/06/16	<0.050		ug/L	
			1-Methylnaphthalene	2021/06/16	<0.050		ug/L	
			2-Methylnaphthalene	2021/06/16	<0.050		ug/L	
			Naphthalene	2021/06/16	<0.050		ug/L	
			Phenanthrene	2021/06/16	<0.030		ug/L	
			Pyrene	2021/06/16	<0.050		ug/L	
7407914	JYO	RPD [PUW567-02]	Acenaphthene	2021/06/15	NC		%	30
			Acenaphthylene	2021/06/15	NC		%	30
			Anthracene	2021/06/15	NC		%	30
			Benzo(a)anthracene	2021/06/15	NC		%	30
			Benzo(a)pyrene	2021/06/15	NC		%	30
			Benzo(b/j)fluoranthene	2021/06/15	NC		%	30
			Benzo(g,h,i)perylene	2021/06/15	NC		%	30
			Benzo(k)fluoranthene	2021/06/15	NC		%	30
			Chrysene	2021/06/15	NC		%	30
			Dibenzo(a,h)anthracene	2021/06/15	NC		%	30
			Fluoranthene	2021/06/15	NC		%	30
			Fluorene	2021/06/15	NC		%	30
			Indeno(1,2,3-cd)pyrene	2021/06/15	NC		%	30
			1-Methylnaphthalene	2021/06/15	NC		%	30
			2-Methylnaphthalene	2021/06/15	NC		%	30
			Naphthalene	2021/06/15	NC		%	30
			Phenanthrene	2021/06/15	16		%	30
			Pyrene	2021/06/15	NC		%	30
7407924	RGA	Matrix Spike [PUW566-02]	o-Terphenyl	2021/06/15		95	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/06/15		78	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2021/06/15		76	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2021/06/15		77	%	60 - 130
7407924	RGA	Spiked Blank	o-Terphenyl	2021/06/15		95	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/06/15		99	%	60 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			F3 (C16-C34 Hydrocarbons)	2021/06/15		97	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2021/06/15		98	%	60 - 130
7407924	RGA	Method Blank	o-Terphenyl	2021/06/15		97	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/06/15	<100		ug/L	
			F3 (C16-C34 Hydrocarbons)	2021/06/15	<200		ug/L	
			F4 (C34-C50 Hydrocarbons)	2021/06/15	<200		ug/L	
7407924	RGA	RPD [PUW567-02]	F2 (C10-C16 Hydrocarbons)	2021/06/15	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2021/06/15	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2021/06/15	NC		%	30
7408977	AKD	Matrix Spike	Dissolved Chloride (Cl-)	2021/06/15		NC	%	80 - 120
7408977	AKD	Spiked Blank	Dissolved Chloride (Cl-)	2021/06/15		103	%	80 - 120
7408977	AKD	Method Blank	Dissolved Chloride (Cl-)	2021/06/15	<1.0		mg/L	
7408977	AKD	RPD	Dissolved Chloride (Cl-)	2021/06/15	0.67		%	20
7410416	JJE	Matrix Spike	o-Terphenyl	2021/06/16		95	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/06/16		101	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2021/06/16		99	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2021/06/16		103	%	60 - 130
7410416	JJE	Spiked Blank	o-Terphenyl	2021/06/16		96	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/06/16		100	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2021/06/16		100	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2021/06/16		102	%	60 - 130
7410416	JJE	Method Blank	o-Terphenyl	2021/06/16		96	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/06/16	<100		ug/L	
			F3 (C16-C34 Hydrocarbons)	2021/06/16	<200		ug/L	
			F4 (C34-C50 Hydrocarbons)	2021/06/16	<200		ug/L	
7410416	JJE	RPD	F2 (C10-C16 Hydrocarbons)	2021/06/16	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2021/06/16	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2021/06/16	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.

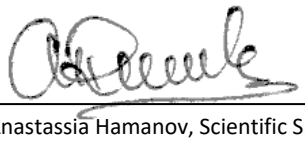
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

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 <= 2x RDL).

(1) The recovery was below the lower control limit. This may represent a low bias in some results for this specific analyte.

VALIDATION SIGNATURE PAGE

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



Anastassia Hamanov, Scientific Specialist

BV Labs 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 Laboratories 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvlabs.com

10-Jun-21 14:20
Antonella Brasil
C1G1158

URE ENV-589

Presence of Visible Particulate/Sediment

Maxxam Analytics
CAM FCD-01013/5

When there is >1cm of visible particulate/sediment, the amount will be recorded in the field below

Bottle Types

			Inorganics					Organics											Hydrocarbons							Volatiles				Other
	Sample ID	All	CrVI	CN	General	Hg	Metals (Diss.)	Organic 1 of 2	Organic 2 of 2	PCB 1 of 2	PCB 2 of 2	Pest/ Herb 1 of 2	Pest/ Herb 2 of 2	SVOC/ ABN 1 of 2	SVOC/ ABN 2 of 2	PAH 1 of 2	PAH 2 of 2	Dioxin /Furan	F1 Vial 1	F1 Vial 2	F1 Vial 3	F1 Vial 4	F2-F4 1 of 2	F2-F4 2 of 2	F4G	VOC Vial 1	VOC Vial 2	VOC Vial 3	VOC Vial 4	
1	BHMW108	S																											
2	BHMW110	TS																											
3	BHMW112	TS																											
4	BHMW115	S																											
5	BHMW116	TS																											
6	BHMW117	TS																											
7	BHMW118	TS																											
8	BHMW122	TS																											
9	BHMW123	TS																											
10	BHMW124	TS																											
11	BH GW Dup-2	TS																											

Comments: except NISM.

Legend:	
P	Suspended Particulate
TS	Trace Settled Sediment (just covers bottom of container or less)
S	Sediment greater than (>) Trace, but less than (<) 1 cm

Recorded By: (signature/print) Jaspreet Kaur Bhullar

Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvlabs.com

10-Jun-21 14:20
Antonella Brasil
C1G1158

Page 1 of 2

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#982 Pinchin Ltd	Company Name:		Quotation #:	A70927
Attention:	Accounts Payable	Attention:	Matt, Mike	P.O. #:	
Address:	1 Hines Road Suite 200	Address:		Project:	285722-003
	Kanata ON K2K 3C7			Project Name:	
Tel:	(613) 592-3387 Fax: (613) 592-5897	Tel:	Fax:	Site #:	
Email:	ap@pinchin.com	Email:		Sampled By:	M. Kosiw

Bottle Order #: 791448
COC #: C#791448-01-01
Project Manager: Antonella Brasil

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
- [ ] Table 1 [X] Res/Park [X] Medium/Fine
- [ ] Table 2 [ ] Ind/Comm [ ] Coarse
- [X] Table 3 [ ] Agri/Other [ ] For RSC
- [ ] Table ___

Other Regulations
- [ ] CCME [ ] Sanitary Sewer Bylaw
- [ ] Reg 558 [ ] Storm Sewer Bylaw
- [ ] MISA Municipality ___
- [ ] PWQO [ ] Reg 406 Table ___
- [ ] Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? N

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: [X]
(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 Dioxins/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 #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	ANALYSIS REQUESTED (PLEASE BE SPECIFIC): (Reg 153 Metals Package (Water)) FCPMs	Soil Texture	PHCs F1-F4	VOCs	PAHs	# of Bottles	Comments
1		BHMW108	June 9 2021	AM	GW				X	X	X	5	
2		BHMW109							X	X		4	*(Low volume)
3		BHMW110							X	X	X	5	
4		BHMW112							X	X	X	5	
5		BHMW115							X	X	X	5	
6		BHMW116		PM					X	X	X	5	RECEIVED IN OTTAWA
7		BHMW117							X	X	X	5	
8		BHMW118							X	X	X	5	
9		BHMW120							X	X	X	5	
10		GW Dup-1							X	X	X	5	ON Jar

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Mike Kosiw	June 10 2021	2:00 PM		2021/06/10	14:20	
				21/06/11	08:00	

Laboratory Use Only
Time Sensitive
Temperature (°C) on Recei: 8, 7, 6
Custody Seal Present: Yes 2 / No
Intact

1/4/4°C

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

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

White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvlabs.com

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#982 Pinchin Ltd	Company Name:		Quotation #:	A70927	BV Labs Job #:	Bottle Order #: 831272
Attention:	Accounts Payable	Attention:	Matt, Ryan, Mike	P.O. #:			
Address:	1 Hines Road Suite 200 Kanata ON K2K 3C7	Address:		Project:	285722.003	COC #: C#831272-01-01	Project Manager: Antonella Brasil
Tel:	(613) 592-3387 Fax: (613) 592-5897	Tel:	Fax:	Project Name:			
Email:	ap@pinchin.com	Email:	mkosiw@Pinchin.com, rlaronde@pinchin.com; mryan@	Site #:			
				Sampled By:	M. Kosiw		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
- [ ] Table 1 [X] Res/Park [X] Medium/Fine
- [ ] Table 2 [ ] Ind/Comm [ ] Coarse
- [X] Table 3 [ ] Agr/Other [X] For RSC
- [ ] Table ___

Other Regulations
- [ ] CCME [ ] Sanitary Sewer Bylaw
- [ ] Reg 558. [ ] Storm Sewer Bylaw
- [ ] MISA Municipality ___
- [ ] PWQO [ ] Reg 406 Table ___
- [ ] Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? N

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: [X]
(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 Dioxins/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 #)*

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): (Metals / Hg / Cr VI)	Chloride by Automated Colourimetry	PHCs (F1-F4)	VOCs	PAHs	Metals (12 items)	Sodium	# of Bottles	Comments
1		BHMW122	June 9 2021	PM	GW			X	X	X			5	
2		BHMW123	↓	↓	↓			X	X	X			5	
3		BHMW124				X	X	X	X	X	X	X	7	
4		GWDup-2				X	X	X	X	X	X	X	7	
5		Trip Blank							X				2	VOCs / F1 for Trip Blank
6														
7														
8														RECEIVED IN OTTAWA
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: Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes	No
Mike Kosiw	June 9 2021	2:00 pm	See Page 1						Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

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

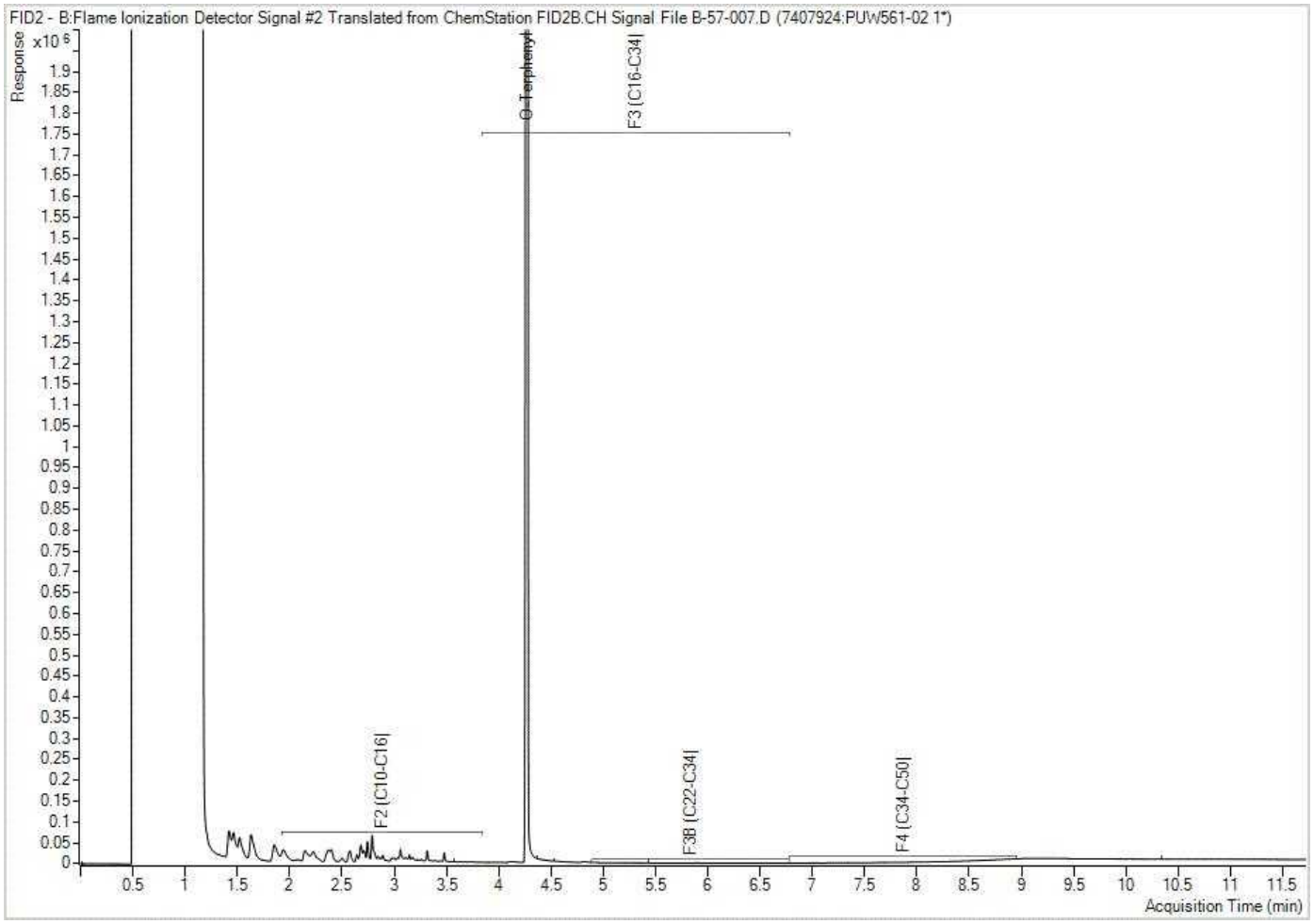
White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

BV Labs Job #: C1G1158
Report Date: 2021/06/18
BV Labs Sample: PUW561

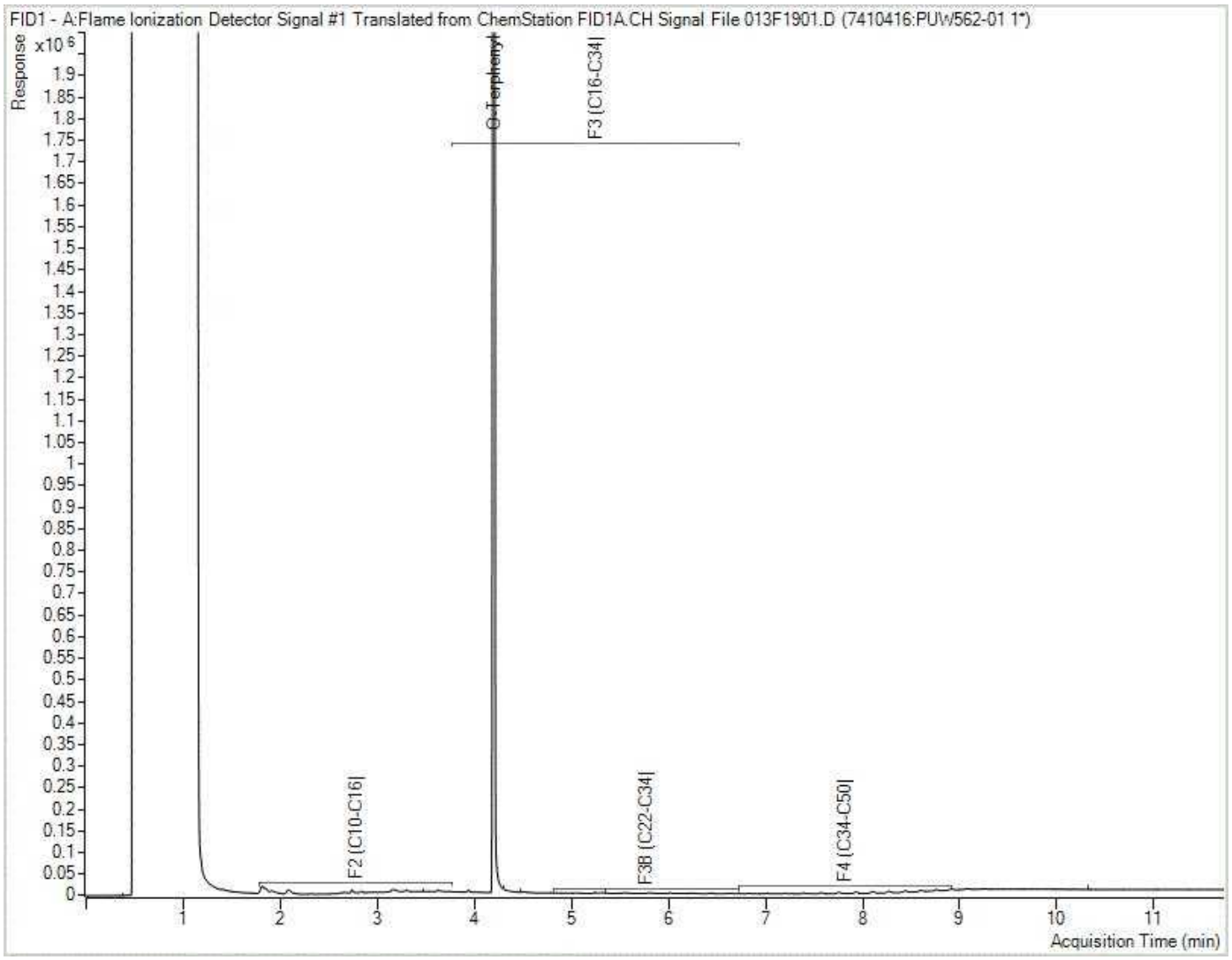
Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW108

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

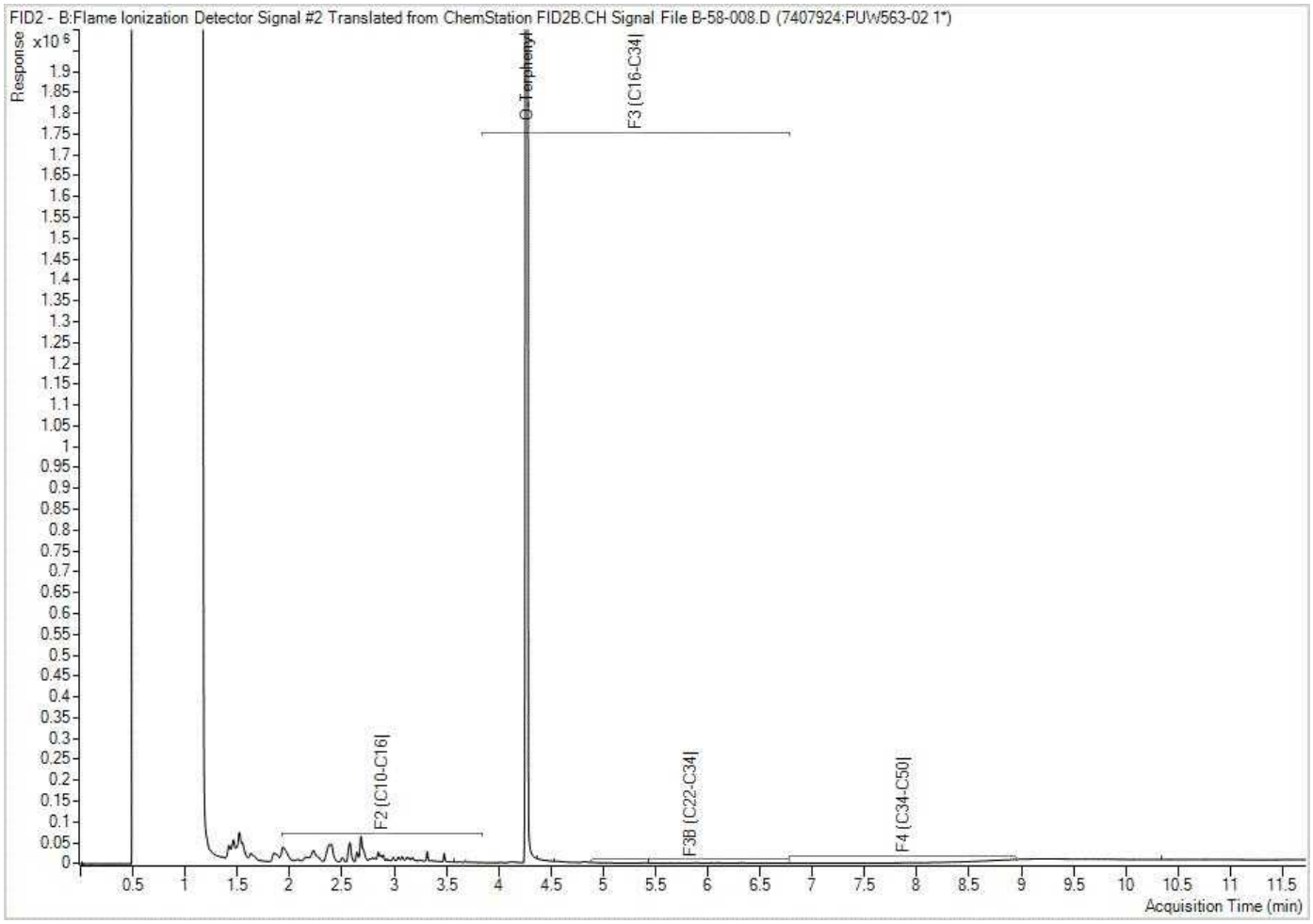


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1G1158
Report Date: 2021/06/18
BV Labs Sample: PUW563

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW110

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

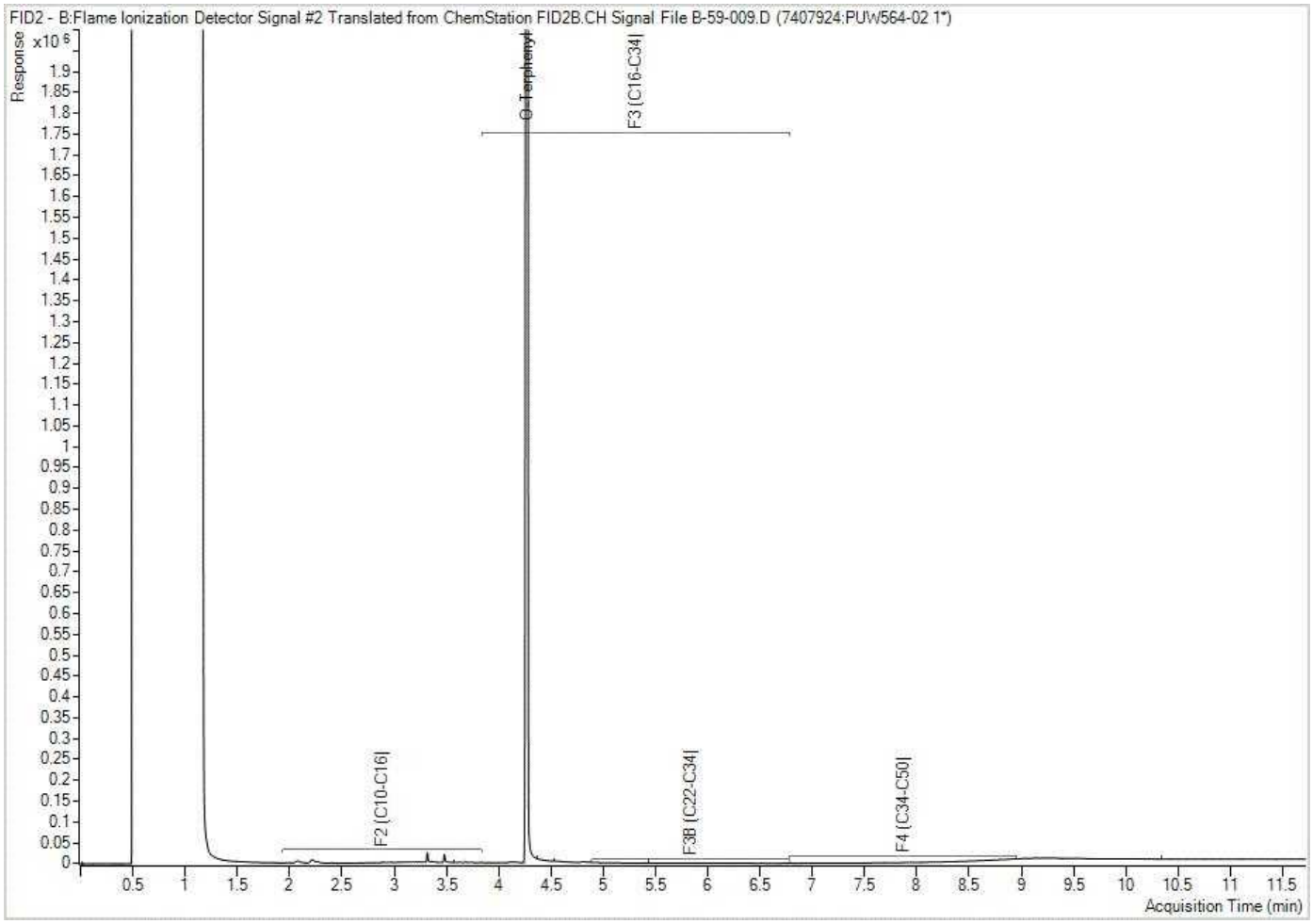


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1G1158
Report Date: 2021/06/18
BV Labs Sample: PUW564

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW112

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

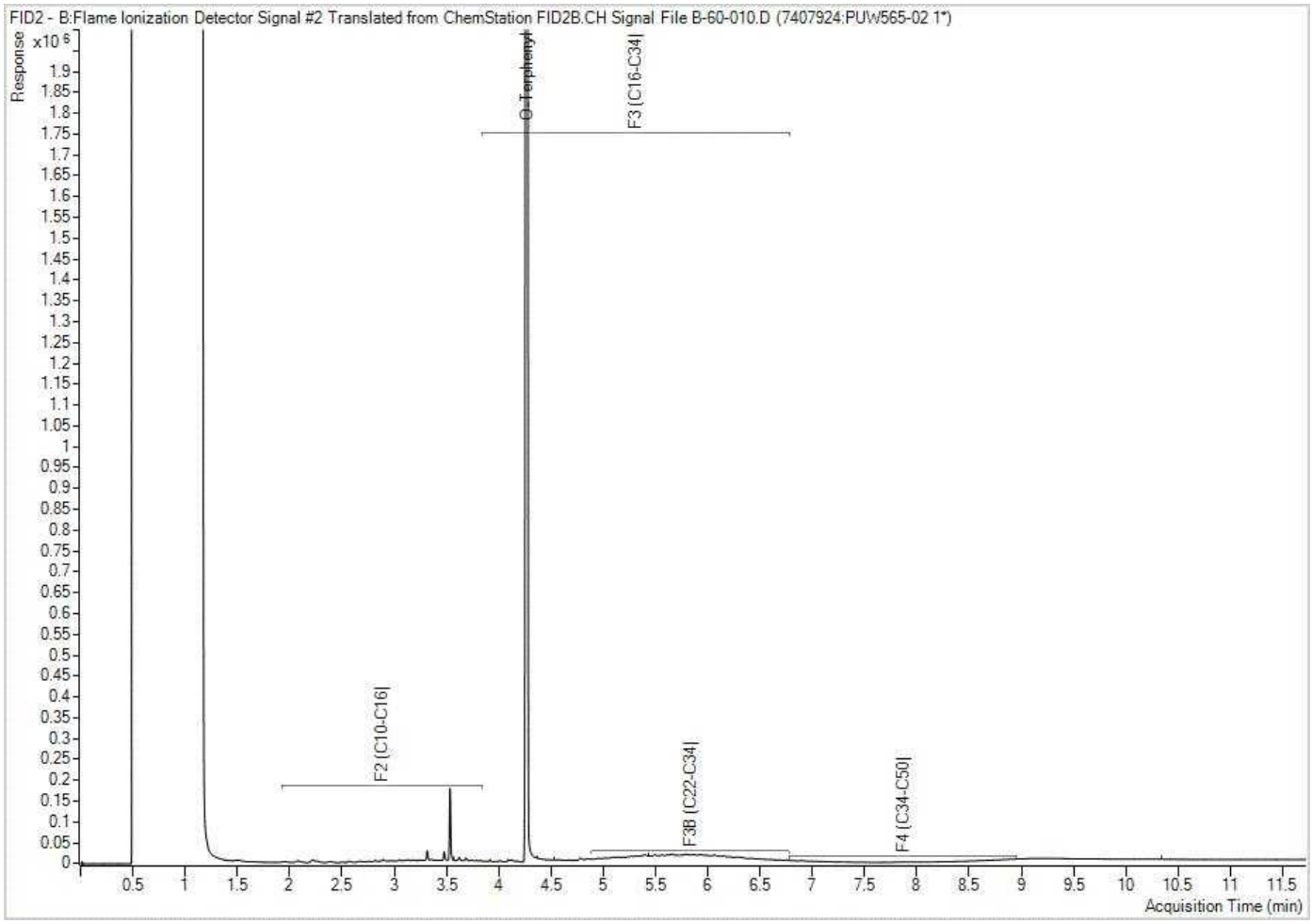


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1G1158
Report Date: 2021/06/18
BV Labs Sample: PUW565

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW115

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

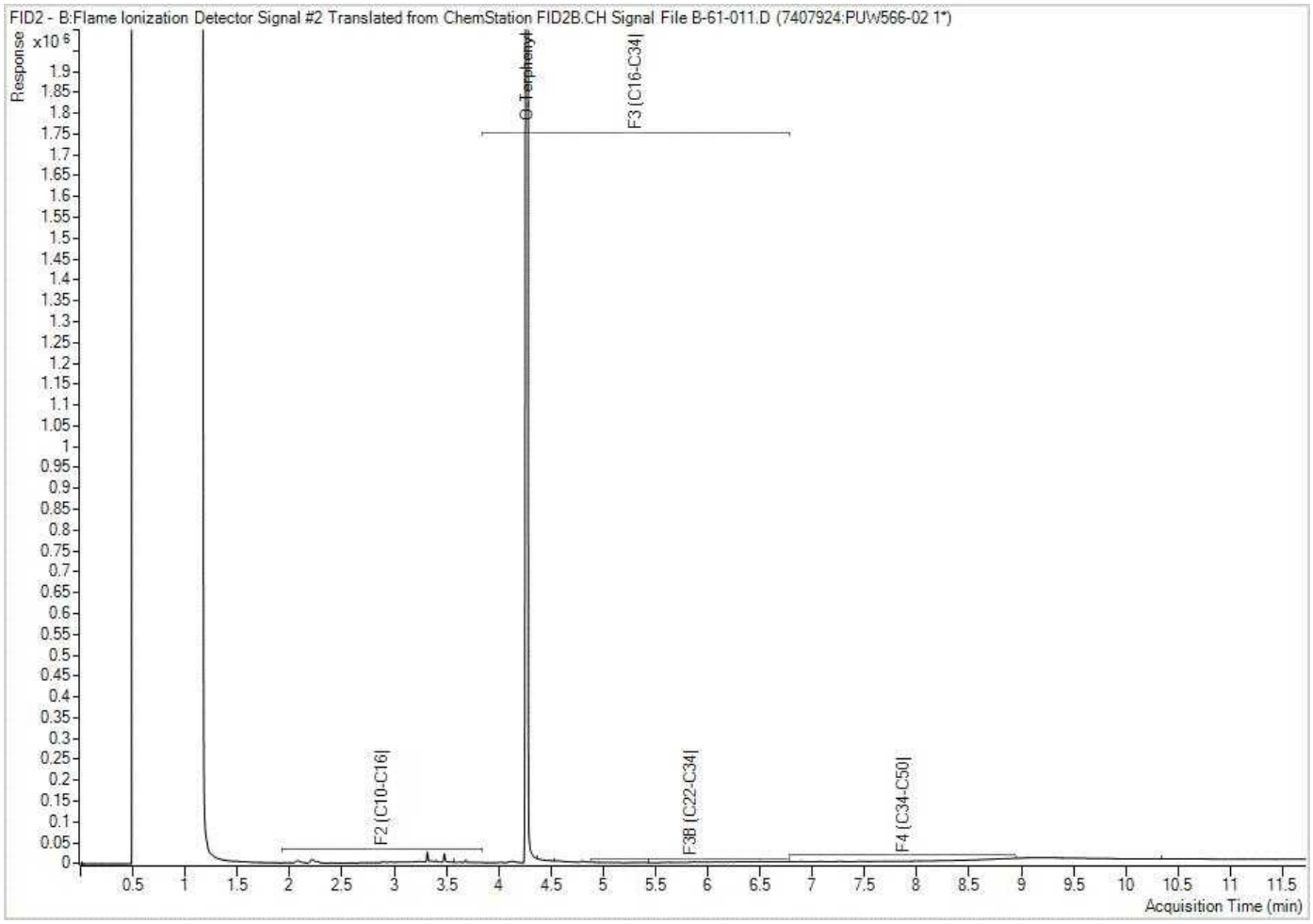


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1G1158
Report Date: 2021/06/18
BV Labs Sample: PUW566

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW116

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

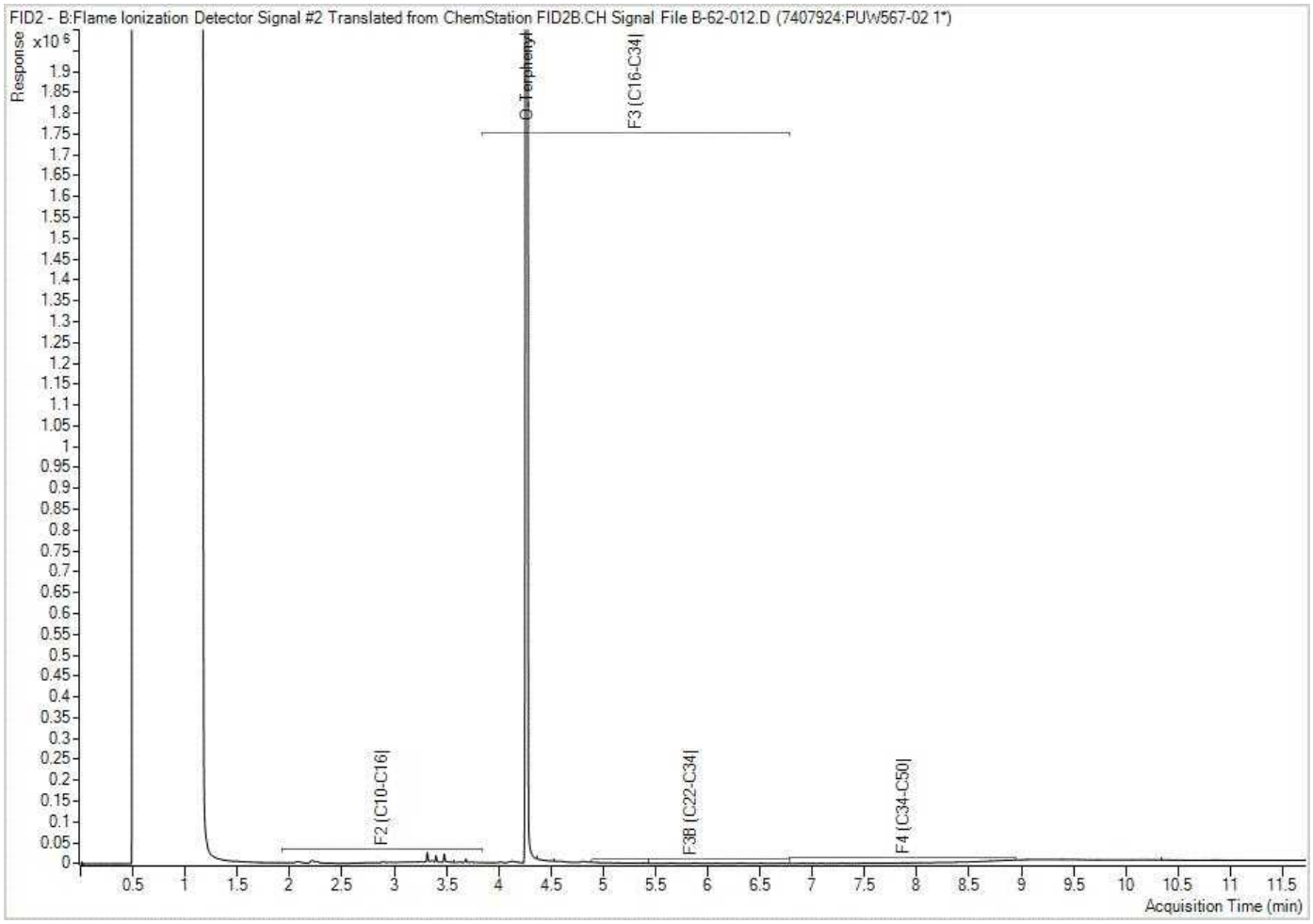


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1G1158
Report Date: 2021/06/18
BV Labs Sample: PUW567

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW117

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

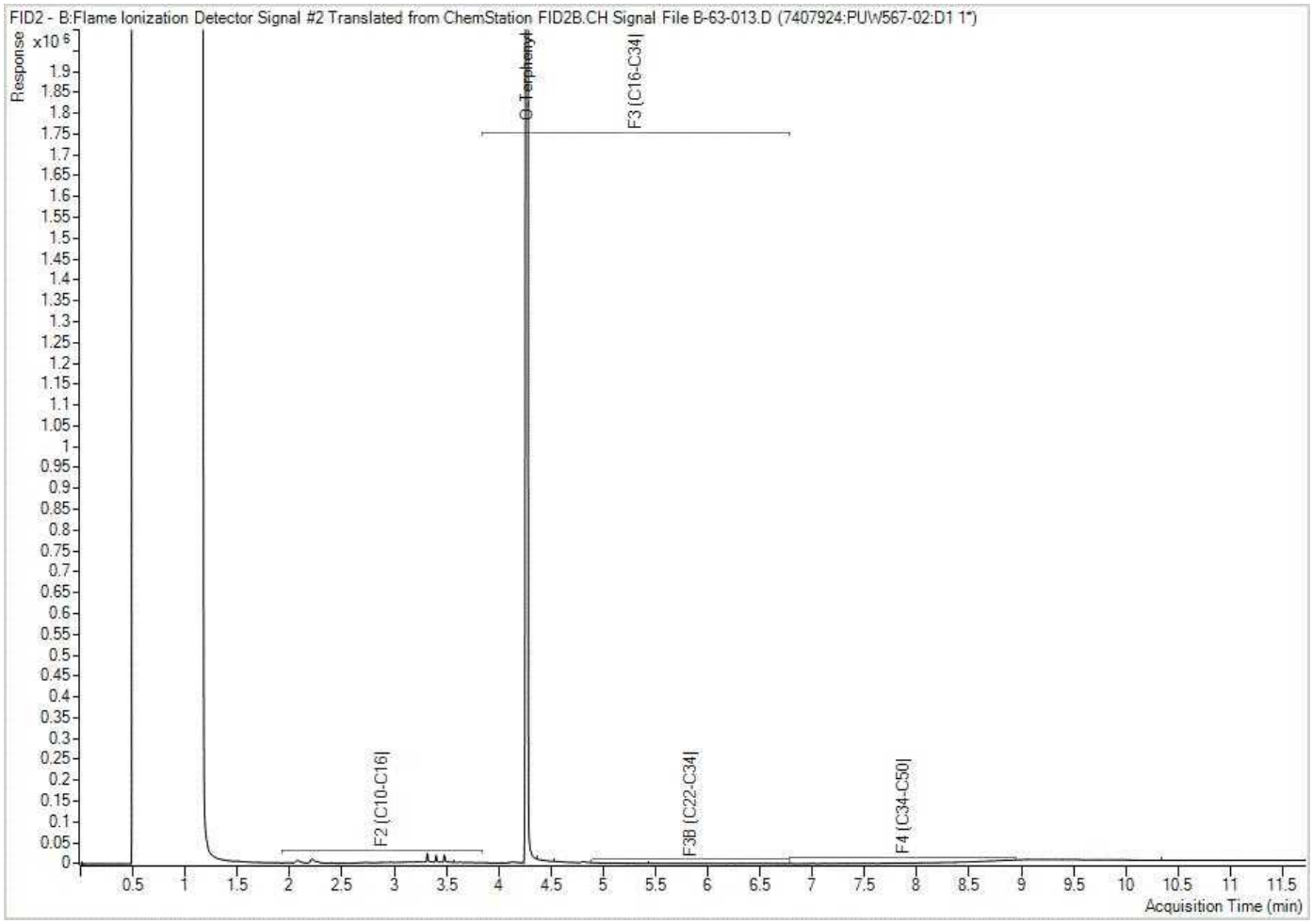


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1G1158
Report Date: 2021/06/18
BV Labs Sample: PUW567 Lab-Dup

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW117

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

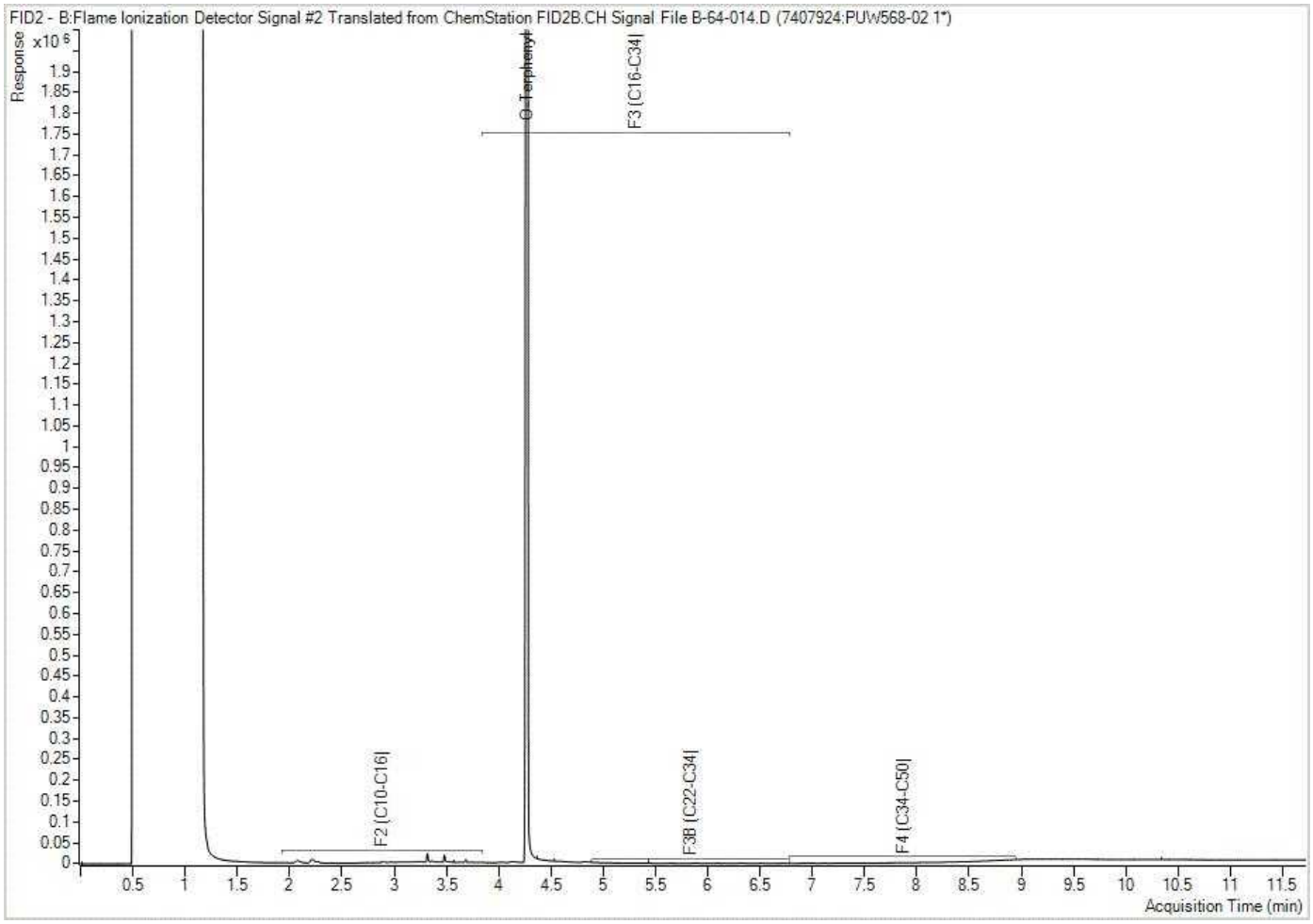


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1G1158
Report Date: 2021/06/18
BV Labs Sample: PUW568

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW118

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

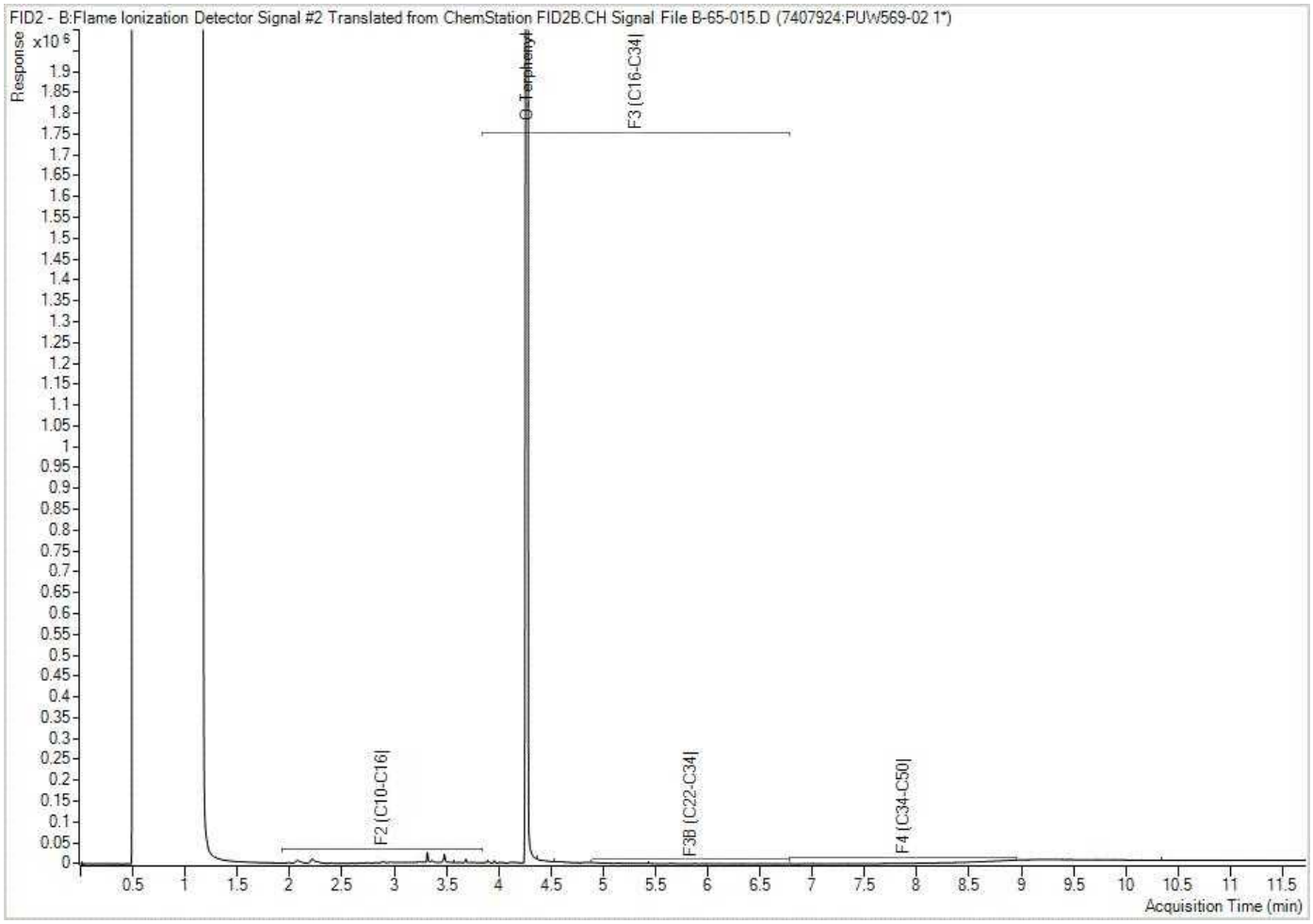


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1G1158
Report Date: 2021/06/18
BV Labs Sample: PUW569

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW120

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

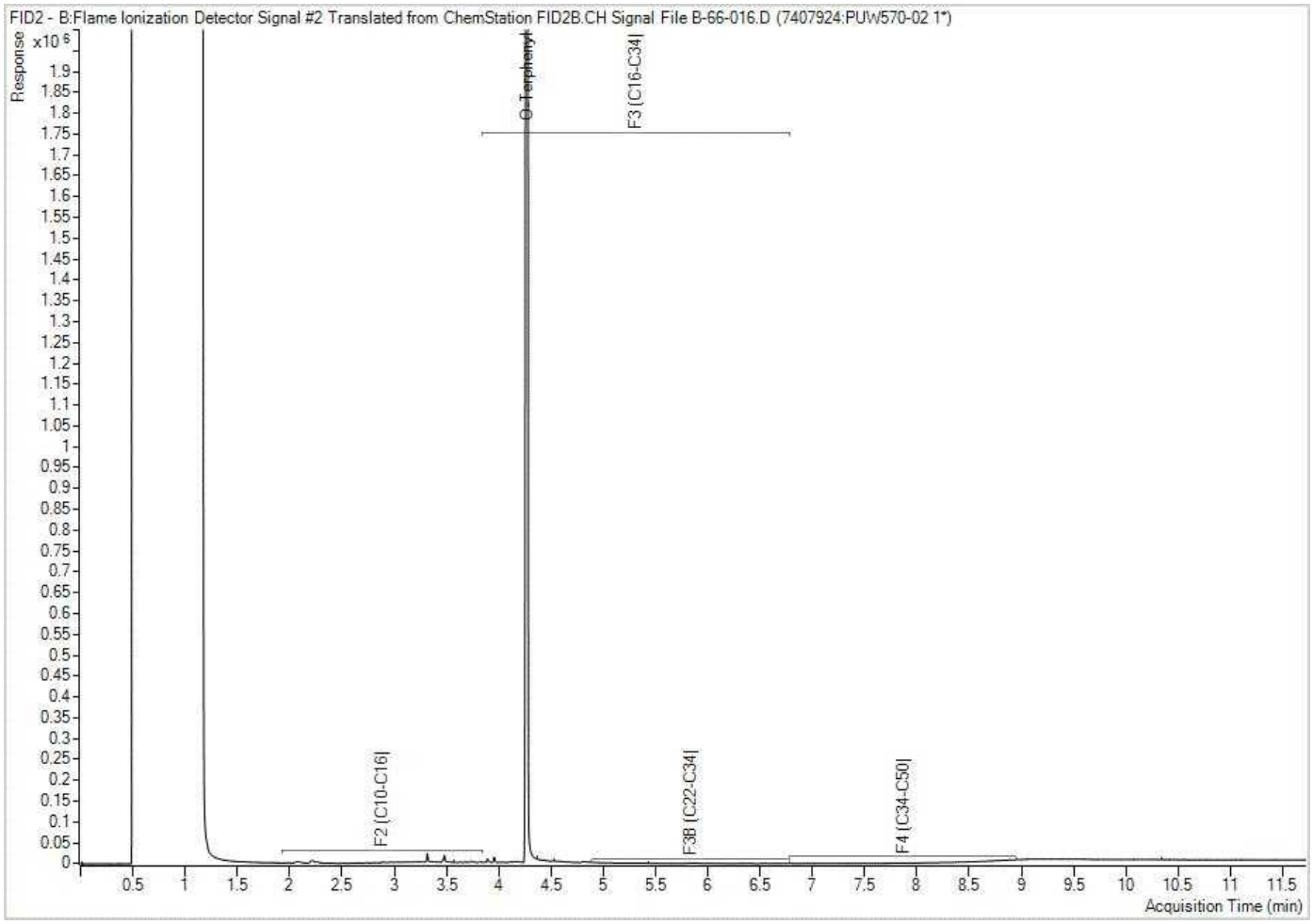


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1G1158
Report Date: 2021/06/18
BV Labs Sample: PUW570

Pinchin Ltd
Client Project #: 285722.003
Client ID: GWDUP-1

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

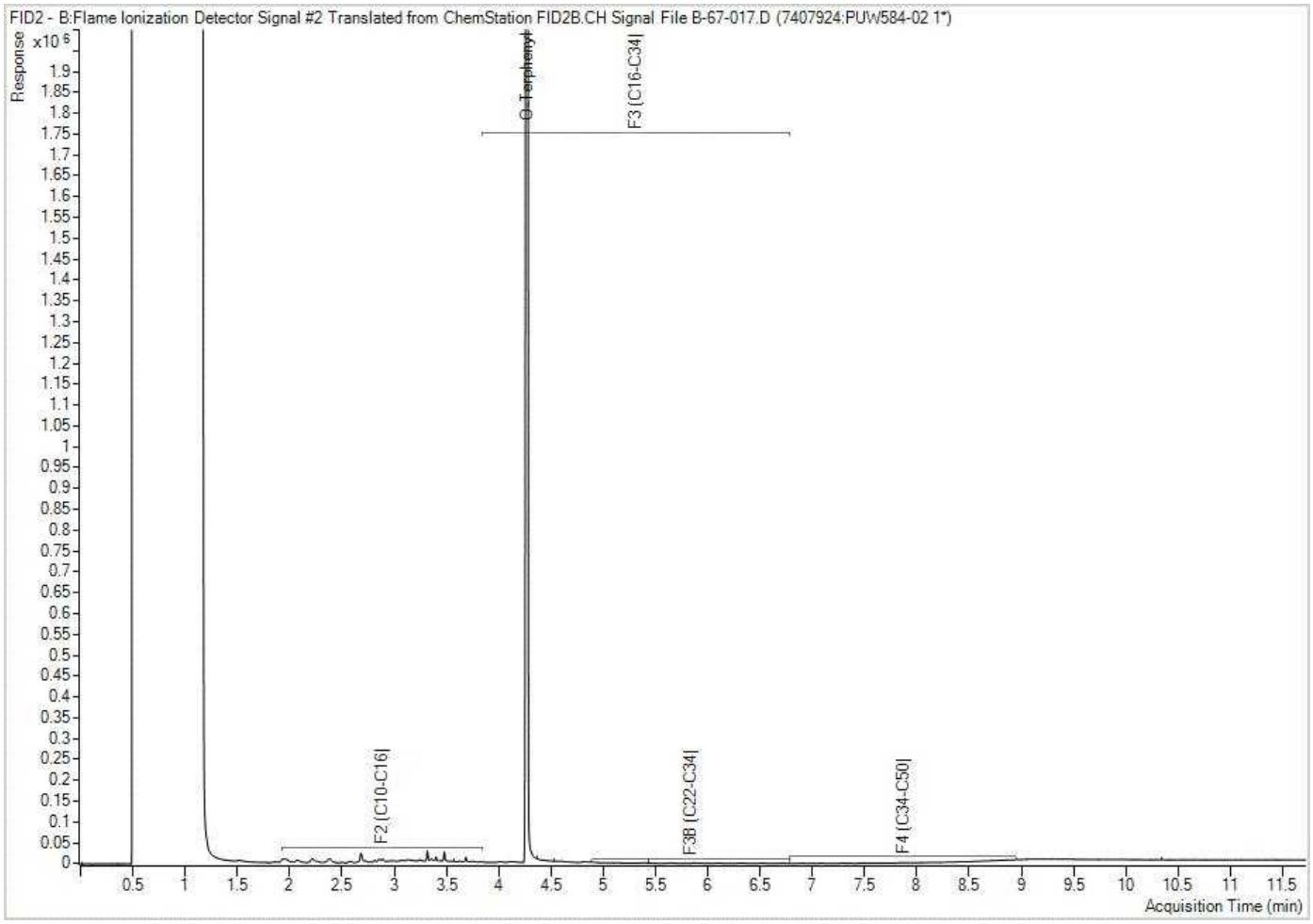


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1G1158
Report Date: 2021/06/18
BV Labs Sample: PUW584

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW122

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

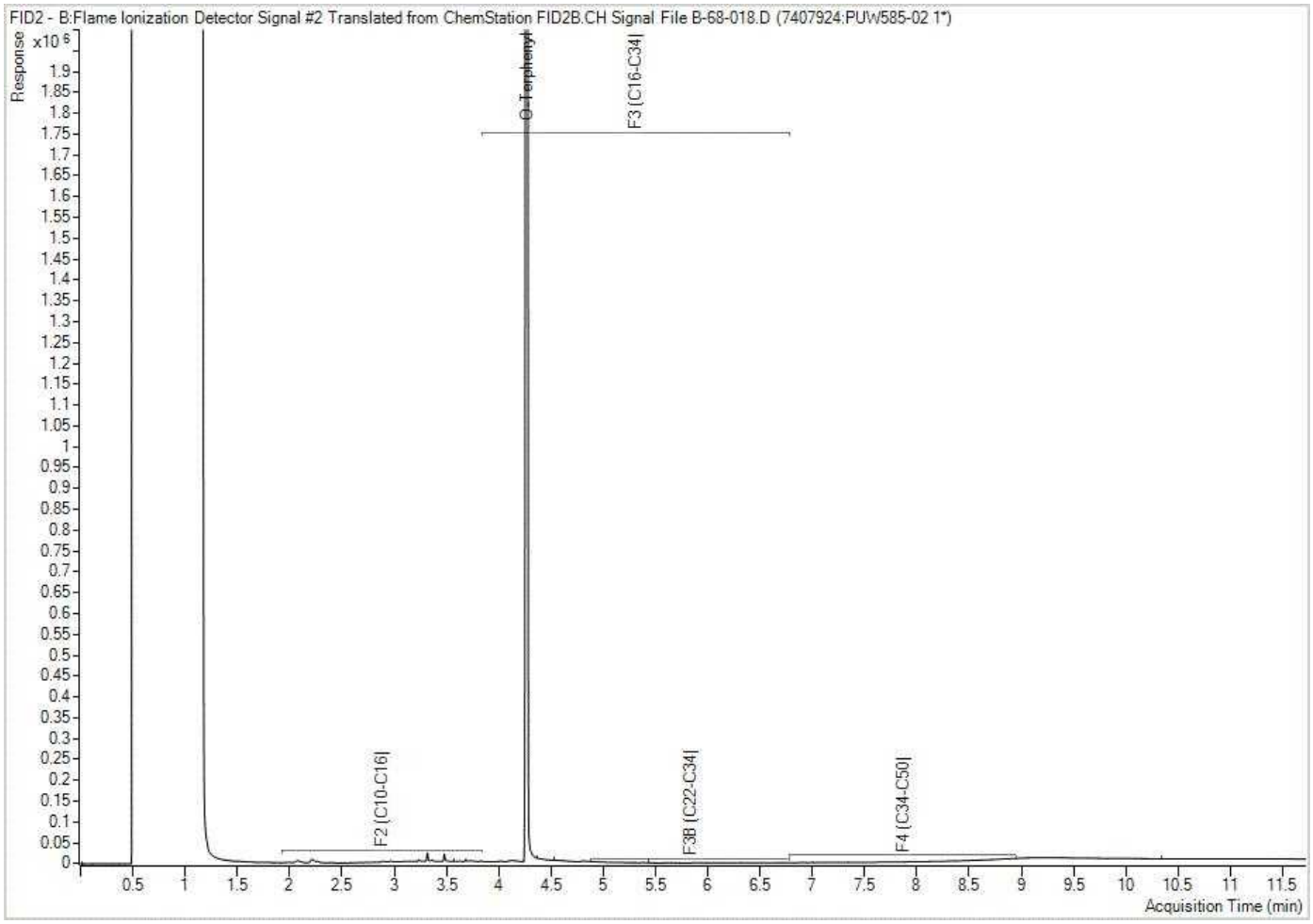


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1G1158
Report Date: 2021/06/18
BV Labs Sample: PUW585

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW123

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

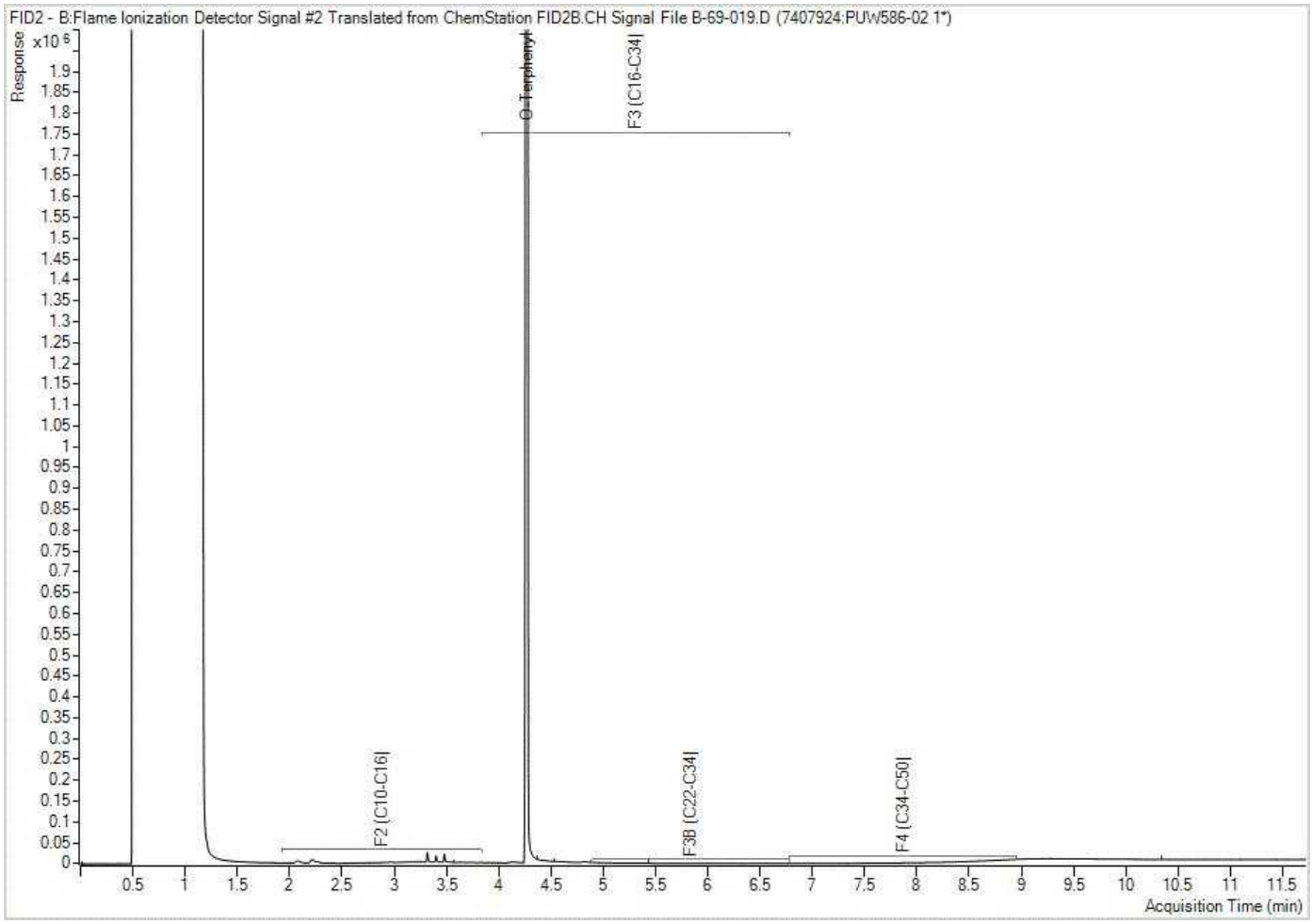


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1G1158
Report Date: 2021/06/18
BV Labs Sample: PUW586

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW124

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

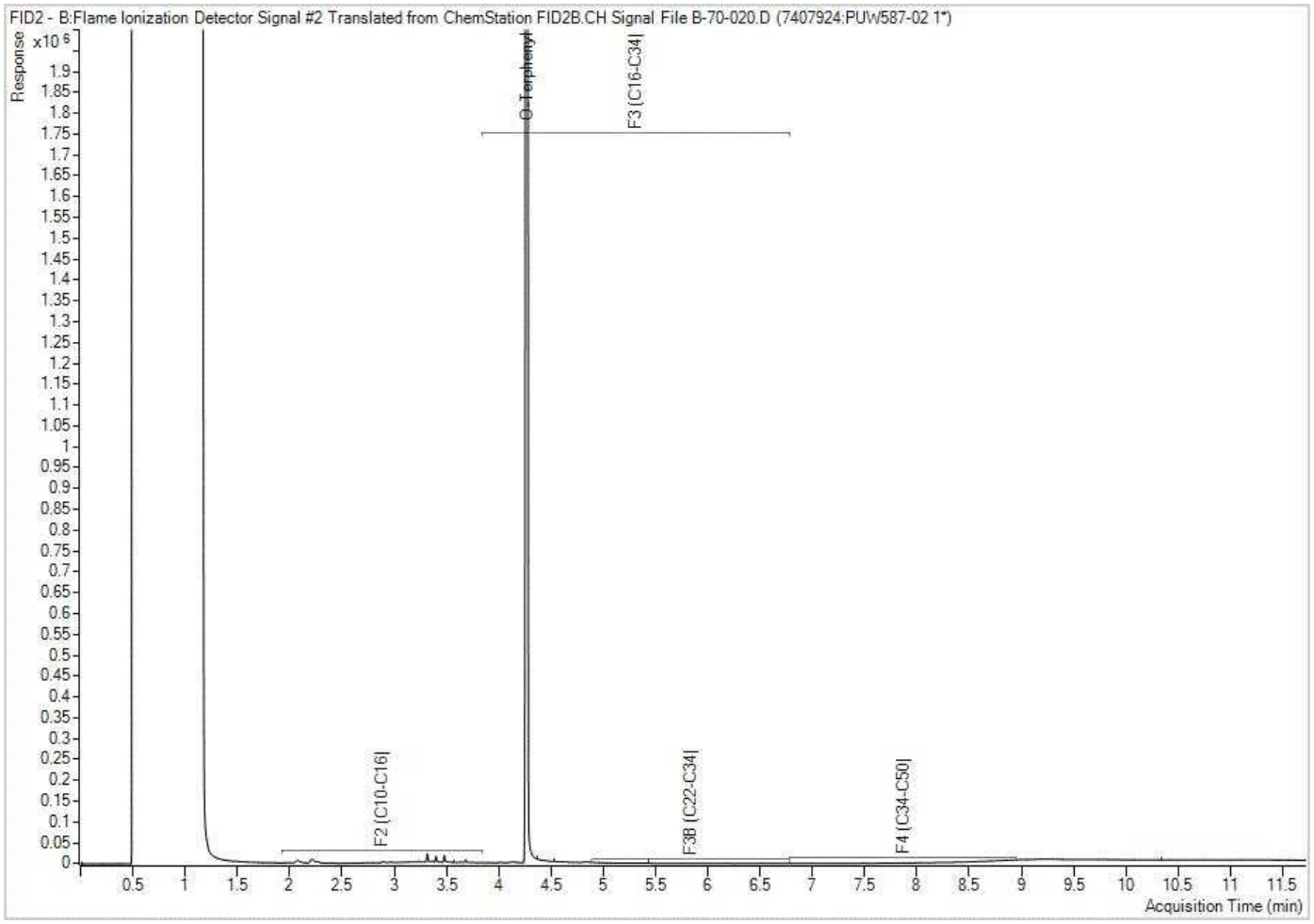


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1G1158
Report Date: 2021/06/18
BV Labs Sample: PUW587

Pinchin Ltd
Client Project #: 285722.003
Client ID: GWDUP-2

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 #: 285722.003
Your C.O.C. #: 832329-02-01

Attention: Matt, Ryan, Mike

Pinchin Ltd
Ottawa
1 Hines Road
Suite 200
Kanata, ON
CANADA K2K 3C7

Report Date: 2021/06/24
Report #: R6690670
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1G6182
Received: 2021/06/16, 14:25

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum (1)	2	N/A	2021/06/23	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum (1)	2	N/A	2021/06/23		EPA 8260C m
Petroleum Hydrocarbons F2-F4 in Water (1, 2)	2	2021/06/21	2021/06/22	CAM SOP-00316	CCME PHC-CWS m
PAH Compounds in Water by GC/MS (SIM) (1)	2	2021/06/21	2021/06/22	CAM SOP-00318	EPA 8270D m
Volatile Organic Compounds and F1 PHCs (1)	2	N/A	2021/06/22	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.

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) This test was performed by Bureau Veritas Mississauga
(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas Laboratories 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.

Your Project #: 285722.003
Your C.O.C. #: 832329-02-01

Attention: Matt, Ryan, Mike

Pinchin Ltd
Ottawa
1 Hines Road
Suite 200
Kanata, ON
CANADA K2K 3C7

Report Date: 2021/06/24
Report #: R6690670
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1G6182
Received: 2021/06/16, 14:25

Encryption Key

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
==========
BV Labs 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.

O.REG 153 PAHS (WATER)

BV Labs ID		PVY848	PVY849		
Sampling Date		2021/06/15	2021/06/15		
COC Number		832329-02-01	832329-02-01		
	UNITS	BHMW111	BHMW119	RDL	QC Batch
Calculated Parameters					
Methylnaphthalene, 2-(1-)	ug/L	<0.071	<0.071	0.071	7413210
Polyaromatic Hydrocarbons					
Acenaphthene	ug/L	<0.050	<0.050	0.050	7420170
Acenaphthylene	ug/L	<0.050	<0.050	0.050	7420170
Anthracene	ug/L	<0.050	<0.050	0.050	7420170
Benzo(a)anthracene	ug/L	<0.050	<0.050	0.050	7420170
Benzo(a)pyrene	ug/L	<0.0090	<0.0090	0.0090	7420170
Benzo(b/j)fluoranthene	ug/L	<0.050	<0.050	0.050	7420170
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	0.050	7420170
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	0.050	7420170
Chrysene	ug/L	<0.050	<0.050	0.050	7420170
Dibenzo(a,h)anthracene	ug/L	<0.050	<0.050	0.050	7420170
Fluoranthene	ug/L	<0.050	<0.050	0.050	7420170
Fluorene	ug/L	<0.050	<0.050	0.050	7420170
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	0.050	7420170
1-Methylnaphthalene	ug/L	<0.050	<0.050	0.050	7420170
2-Methylnaphthalene	ug/L	<0.050	<0.050	0.050	7420170
Naphthalene	ug/L	<0.050	<0.050	0.050	7420170
Phenanthrene	ug/L	<0.030	<0.030	0.030	7420170
Pyrene	ug/L	<0.050	<0.050	0.050	7420170
Surrogate Recovery (%)					
D10-Anthracene	%	128	111		7420170
D14-Terphenyl (FS)	%	121	119		7420170
D8-Acenaphthylene	%	102	101		7420170

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

BV Labs ID		PVY848		PVY849		
Sampling Date		2021/06/15		2021/06/15		
COC Number		832329-02-01		832329-02-01		
	UNITS	BHMW111	RDL	BHMW119	RDL	QC Batch
Calculated Parameters						
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	0.50	<0.50	0.50	7413211
Volatile Organics						
Acetone (2-Propanone)	ug/L	<10	10	<15 (1)	15	7414719
Benzene	ug/L	<0.20	0.20	<0.20	0.20	7414719
Bromodichloromethane	ug/L	<0.50	0.50	<0.50	0.50	7414719
Bromoform	ug/L	<1.0	1.0	<1.0	1.0	7414719
Bromomethane	ug/L	<0.50	0.50	<0.50	0.50	7414719
Carbon Tetrachloride	ug/L	<0.20	0.20	<0.20	0.20	7414719
Chlorobenzene	ug/L	<0.20	0.20	<0.20	0.20	7414719
Chloroform	ug/L	<0.20	0.20	0.78	0.20	7414719
Dibromochloromethane	ug/L	<0.50	0.50	<0.50	0.50	7414719
1,2-Dichlorobenzene	ug/L	<0.50	0.50	<0.50	0.50	7414719
1,3-Dichlorobenzene	ug/L	<0.50	0.50	<0.50	0.50	7414719
1,4-Dichlorobenzene	ug/L	<0.50	0.50	<0.50	0.50	7414719
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	<1.0	1.0	7414719
1,1-Dichloroethane	ug/L	<0.20	0.20	<0.20	0.20	7414719
1,2-Dichloroethane	ug/L	<0.50	0.50	1.9	0.50	7414719
1,1-Dichloroethylene	ug/L	<0.20	0.20	<0.20	0.20	7414719
cis-1,2-Dichloroethylene	ug/L	<0.50	0.50	<0.50	0.50	7414719
trans-1,2-Dichloroethylene	ug/L	<0.50	0.50	<0.50	0.50	7414719
1,2-Dichloropropane	ug/L	<0.20	0.20	<0.20	0.20	7414719
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	<0.30	0.30	7414719
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	<0.40	0.40	7414719
Ethylbenzene	ug/L	<0.20	0.20	<0.20	0.20	7414719
Ethylene Dibromide	ug/L	<0.20	0.20	<0.20	0.20	7414719
Hexane	ug/L	<1.0	1.0	<1.0	1.0	7414719
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	<2.0	2.0	7414719
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	<10	10	7414719
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	<5.0	5.0	7414719
Methyl t-butyl ether (MTBE)	ug/L	0.64	0.50	15	0.50	7414719
Styrene	ug/L	<0.50	0.50	<0.50	0.50	7414719
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	<0.50	0.50	7414719
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	<0.50	0.50	7414719
Tetrachloroethylene	ug/L	<0.20	0.20	<0.20	0.20	7414719
Toluene	ug/L	0.29	0.20	<0.20	0.20	7414719

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) The detection limit was raised due to matrix interference.

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

BV Labs ID		PVY848		PVY849		
Sampling Date		2021/06/15		2021/06/15		
COC Number		832329-02-01		832329-02-01		
	UNITS	BHMW111	RDL	BHMW119	RDL	QC Batch
1,1,1-Trichloroethane	ug/L	<0.20	0.20	<0.20	0.20	7414719
1,1,2-Trichloroethane	ug/L	<0.50	0.50	<0.50	0.50	7414719
Trichloroethylene	ug/L	<0.20	0.20	<0.20	0.20	7414719
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	<0.50	0.50	7414719
Vinyl Chloride	ug/L	<0.20	0.20	<0.20	0.20	7414719
p+m-Xylene	ug/L	0.38	0.20	0.35	0.20	7414719
o-Xylene	ug/L	0.22	0.20	0.42	0.20	7414719
Total Xylenes	ug/L	0.60	0.20	0.78	0.20	7414719
F1 (C6-C10)	ug/L	<25	25	<25	25	7414719
F1 (C6-C10) - BTEX	ug/L	<25	25	<25	25	7414719
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	<100	100	7420177
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	<200	200	7420177
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	<200	200	7420177
Reached Baseline at C50	ug/L	Yes		Yes		7420177
Surrogate Recovery (%)						
o-Terphenyl	%	102		98		7420177
4-Bromofluorobenzene	%	93		94		7414719
D4-1,2-Dichloroethane	%	110		108		7414719
D8-Toluene	%	87		88		7414719

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

BV Labs Job #: C1G6182
Report Date: 2021/06/24

Pinchin Ltd
Client Project #: 285722.003
Sampler Initials: MR

TEST SUMMARY

BV Labs ID: PVY848
Sample ID: BHMW111
Matrix: Water

Collected: 2021/06/15
Shipped:
Received: 2021/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7413210	N/A	2021/06/23	Automated Statchk
1,3-Dichloropropene Sum	CALC	7413211	N/A	2021/06/23	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7420177	2021/06/21	2021/06/22	Dennis Ngondu
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7420170	2021/06/21	2021/06/22	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7414719	N/A	2021/06/22	Yang (Philip) Yu

BV Labs ID: PVY849
Sample ID: BHMW119
Matrix: Water

Collected: 2021/06/15
Shipped:
Received: 2021/06/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7413210	N/A	2021/06/23	Automated Statchk
1,3-Dichloropropene Sum	CALC	7413211	N/A	2021/06/23	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7420177	2021/06/21	2021/06/22	Dennis Ngondu
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7420170	2021/06/21	2021/06/22	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7414719	N/A	2021/06/22	Yang (Philip) Yu

GENERAL COMMENTS

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

Package 1	9.0°C

Cooler custody seal was present and intact.

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 Laboratories 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvlabs.com

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7414719	YY	Matrix Spike	4-Bromofluorobenzene	2021/06/22		112	%	70 - 130
			D4-1,2-Dichloroethane	2021/06/22		98	%	70 - 130
			D8-Toluene	2021/06/22		105	%	70 - 130
			Acetone (2-Propanone)	2021/06/22		98	%	60 - 140
			Benzene	2021/06/22		89	%	70 - 130
			Bromodichloromethane	2021/06/22		100	%	70 - 130
			Bromoform	2021/06/22		107	%	70 - 130
			Bromomethane	2021/06/22		100	%	60 - 140
			Carbon Tetrachloride	2021/06/22		98	%	70 - 130
			Chlorobenzene	2021/06/22		99	%	70 - 130
			Chloroform	2021/06/22		95	%	70 - 130
			Dibromochloromethane	2021/06/22		100	%	70 - 130
			1,2-Dichlorobenzene	2021/06/22		100	%	70 - 130
			1,3-Dichlorobenzene	2021/06/22		98	%	70 - 130
			1,4-Dichlorobenzene	2021/06/22		102	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2021/06/22		106	%	60 - 140
			1,1-Dichloroethane	2021/06/22		88	%	70 - 130
			1,2-Dichloroethane	2021/06/22		94	%	70 - 130
			1,1-Dichloroethylene	2021/06/22		93	%	70 - 130
			cis-1,2-Dichloroethylene	2021/06/22		90	%	70 - 130
			trans-1,2-Dichloroethylene	2021/06/22		96	%	70 - 130
			1,2-Dichloropropane	2021/06/22		92	%	70 - 130
			cis-1,3-Dichloropropene	2021/06/22		95	%	70 - 130
			trans-1,3-Dichloropropene	2021/06/22		100	%	70 - 130
			Ethylbenzene	2021/06/22		89	%	70 - 130
			Ethylene Dibromide	2021/06/22		98	%	70 - 130
			Hexane	2021/06/22		91	%	70 - 130
			Methylene Chloride(Dichloromethane)	2021/06/22		111	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2021/06/22		106	%	60 - 140
			Methyl Isobutyl Ketone	2021/06/22		106	%	70 - 130
			Methyl t-butyl ether (MTBE)	2021/06/22		92	%	70 - 130
			Styrene	2021/06/22		87	%	70 - 130
			1,1,1,2-Tetrachloroethane	2021/06/22		100	%	70 - 130
			1,1,2,2-Tetrachloroethane	2021/06/22		97	%	70 - 130
			Tetrachloroethylene	2021/06/22		94	%	70 - 130
			Toluene	2021/06/22		93	%	70 - 130
			1,1,1-Trichloroethane	2021/06/22		99	%	70 - 130
			1,1,2-Trichloroethane	2021/06/22		99	%	70 - 130
			Trichloroethylene	2021/06/22		104	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2021/06/22		98	%	70 - 130
			Vinyl Chloride	2021/06/22		100	%	70 - 130
			p+m-Xylene	2021/06/22		74	%	70 - 130
			o-Xylene	2021/06/22		92	%	70 - 130
			F1 (C6-C10)	2021/06/22		103	%	60 - 140
7414719	YY	Spiked Blank	4-Bromofluorobenzene	2021/06/22		113	%	70 - 130
			D4-1,2-Dichloroethane	2021/06/22		99	%	70 - 130
			D8-Toluene	2021/06/22		104	%	70 - 130
			Acetone (2-Propanone)	2021/06/22		110	%	60 - 140
			Benzene	2021/06/22		88	%	70 - 130
			Bromodichloromethane	2021/06/22		98	%	70 - 130
			Bromoform	2021/06/22		102	%	70 - 130
			Bromomethane	2021/06/22		100	%	60 - 140
			Carbon Tetrachloride	2021/06/22		98	%	70 - 130
			Chlorobenzene	2021/06/22		97	%	70 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Chloroform	2021/06/22		94	%	70 - 130
			Dibromochloromethane	2021/06/22		95	%	70 - 130
			1,2-Dichlorobenzene	2021/06/22		95	%	70 - 130
			1,3-Dichlorobenzene	2021/06/22		95	%	70 - 130
			1,4-Dichlorobenzene	2021/06/22		98	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2021/06/22		112	%	60 - 140
			1,1-Dichloroethane	2021/06/22		88	%	70 - 130
			1,2-Dichloroethane	2021/06/22		92	%	70 - 130
			1,1-Dichloroethylene	2021/06/22		95	%	70 - 130
			cis-1,2-Dichloroethylene	2021/06/22		101	%	70 - 130
			trans-1,2-Dichloroethylene	2021/06/22		96	%	70 - 130
			1,2-Dichloropropane	2021/06/22		92	%	70 - 130
			cis-1,3-Dichloropropene	2021/06/22		90	%	70 - 130
			trans-1,3-Dichloropropene	2021/06/22		92	%	70 - 130
			Ethylbenzene	2021/06/22		88	%	70 - 130
			Ethylene Dibromide	2021/06/22		95	%	70 - 130
			Hexane	2021/06/22		95	%	70 - 130
			Methylene Chloride(Dichloromethane)	2021/06/22		111	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2021/06/22		115	%	60 - 140
			Methyl Isobutyl Ketone	2021/06/22		110	%	70 - 130
			Methyl t-butyl ether (MTBE)	2021/06/22		91	%	70 - 130
			Styrene	2021/06/22		86	%	70 - 130
			1,1,1,2-Tetrachloroethane	2021/06/22		96	%	70 - 130
			1,1,2,2-Tetrachloroethane	2021/06/22		94	%	70 - 130
			Tetrachloroethylene	2021/06/22		93	%	70 - 130
			Toluene	2021/06/22		92	%	70 - 130
			1,1,1-Trichloroethane	2021/06/22		99	%	70 - 130
			1,1,2-Trichloroethane	2021/06/22		96	%	70 - 130
			Trichloroethylene	2021/06/22		105	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2021/06/22		100	%	70 - 130
			Vinyl Chloride	2021/06/22		101	%	70 - 130
			p+m-Xylene	2021/06/22		74	%	70 - 130
			o-Xylene	2021/06/22		91	%	70 - 130
			F1 (C6-C10)	2021/06/22		91	%	60 - 140
7414719	YY	Method Blank	4-Bromofluorobenzene	2021/06/22		94	%	70 - 130
			D4-1,2-Dichloroethane	2021/06/22		105	%	70 - 130
			D8-Toluene	2021/06/22		89	%	70 - 130
			Acetone (2-Propanone)	2021/06/22	<10		ug/L	
			Benzene	2021/06/22	<0.20		ug/L	
			Bromodichloromethane	2021/06/22	<0.50		ug/L	
			Bromoform	2021/06/22	<1.0		ug/L	
			Bromomethane	2021/06/22	<0.50		ug/L	
			Carbon Tetrachloride	2021/06/22	<0.20		ug/L	
			Chlorobenzene	2021/06/22	<0.20		ug/L	
			Chloroform	2021/06/22	<0.20		ug/L	
			Dibromochloromethane	2021/06/22	<0.50		ug/L	
			1,2-Dichlorobenzene	2021/06/22	<0.50		ug/L	
			1,3-Dichlorobenzene	2021/06/22	<0.50		ug/L	
			1,4-Dichlorobenzene	2021/06/22	<0.50		ug/L	
			Dichlorodifluoromethane (FREON 12)	2021/06/22	<1.0		ug/L	
			1,1-Dichloroethane	2021/06/22	<0.20		ug/L	
			1,2-Dichloroethane	2021/06/22	<0.50		ug/L	
			1,1-Dichloroethylene	2021/06/22	<0.20		ug/L	
			cis-1,2-Dichloroethylene	2021/06/22	<0.50		ug/L	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			trans-1,2-Dichloroethylene	2021/06/22	<0.50		ug/L	
			1,2-Dichloropropane	2021/06/22	<0.20		ug/L	
			cis-1,3-Dichloropropene	2021/06/22	<0.30		ug/L	
			trans-1,3-Dichloropropene	2021/06/22	<0.40		ug/L	
			Ethylbenzene	2021/06/22	<0.20		ug/L	
			Ethylene Dibromide	2021/06/22	<0.20		ug/L	
			Hexane	2021/06/22	<1.0		ug/L	
			Methylene Chloride(Dichloromethane)	2021/06/22	<2.0		ug/L	
			Methyl Ethyl Ketone (2-Butanone)	2021/06/22	<10		ug/L	
			Methyl Isobutyl Ketone	2021/06/22	<5.0		ug/L	
			Methyl t-butyl ether (MTBE)	2021/06/22	<0.50		ug/L	
			Styrene	2021/06/22	<0.50		ug/L	
			1,1,1,2-Tetrachloroethane	2021/06/22	<0.50		ug/L	
			1,1,2,2-Tetrachloroethane	2021/06/22	<0.50		ug/L	
			Tetrachloroethylene	2021/06/22	<0.20		ug/L	
			Toluene	2021/06/22	<0.20		ug/L	
			1,1,1-Trichloroethane	2021/06/22	<0.20		ug/L	
			1,1,2-Trichloroethane	2021/06/22	<0.50		ug/L	
			Trichloroethylene	2021/06/22	<0.20		ug/L	
			Trichlorofluoromethane (FREON 11)	2021/06/22	<0.50		ug/L	
			Vinyl Chloride	2021/06/22	<0.20		ug/L	
			p+m-Xylene	2021/06/22	<0.20		ug/L	
			o-Xylene	2021/06/22	<0.20		ug/L	
			Total Xylenes	2021/06/22	<0.20		ug/L	
			F1 (C6-C10)	2021/06/22	<25		ug/L	
			F1 (C6-C10) - BTEX	2021/06/22	<25		ug/L	
7414719	YY	RPD	1,1-Dichloroethylene	2021/06/22	NC		%	30
			cis-1,2-Dichloroethylene	2021/06/22	9.6		%	30
			Tetrachloroethylene	2021/06/22	9.1		%	30
			Trichloroethylene	2021/06/22	7.4		%	30
			Vinyl Chloride	2021/06/22	NC		%	30
			F1 (C6-C10)	2021/06/22	NC		%	30
7420170	RAJ	Matrix Spike	D10-Anthracene	2021/06/22		85	%	50 - 130
			D14-Terphenyl (FS)	2021/06/22		116	%	50 - 130
			D8-Acenaphthylene	2021/06/22		100	%	50 - 130
			Acenaphthene	2021/06/22		87	%	50 - 130
			Acenaphthylene	2021/06/22		97	%	50 - 130
			Anthracene	2021/06/22		80	%	50 - 130
			Benzo(a)anthracene	2021/06/22		99	%	50 - 130
			Benzo(a)pyrene	2021/06/22		81	%	50 - 130
			Benzo(b/j)fluoranthene	2021/06/22		98	%	50 - 130
			Benzo(g,h,i)perylene	2021/06/22		96	%	50 - 130
			Benzo(k)fluoranthene	2021/06/22		92	%	50 - 130
			Chrysene	2021/06/22		103	%	50 - 130
			Dibenzo(a,h)anthracene	2021/06/22		100	%	50 - 130
			Fluoranthene	2021/06/22		121	%	50 - 130
			Fluorene	2021/06/22		99	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/06/22		109	%	50 - 130
			1-Methylnaphthalene	2021/06/22		88	%	50 - 130
			2-Methylnaphthalene	2021/06/22		84	%	50 - 130
			Naphthalene	2021/06/22		92	%	50 - 130
			Phenanthrene	2021/06/22		102	%	50 - 130
			Pyrene	2021/06/22		112	%	50 - 130
7420170	RAJ	Spiked Blank	D10-Anthracene	2021/06/22		122	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			D14-Terphenyl (FS)	2021/06/22		113	%	50 - 130
			D8-Acenaphthylene	2021/06/22		102	%	50 - 130
			Acenaphthene	2021/06/22		102	%	50 - 130
			Acenaphthylene	2021/06/22		99	%	50 - 130
			Anthracene	2021/06/22		108	%	50 - 130
			Benzo(a)anthracene	2021/06/22		102	%	50 - 130
			Benzo(a)pyrene	2021/06/22		85	%	50 - 130
			Benzo(b/j)fluoranthene	2021/06/22		101	%	50 - 130
			Benzo(g,h,i)perylene	2021/06/22		98	%	50 - 130
			Benzo(k)fluoranthene	2021/06/22		87	%	50 - 130
			Chrysene	2021/06/22		104	%	50 - 130
			Dibenzo(a,h)anthracene	2021/06/22		82	%	50 - 130
			Fluoranthene	2021/06/22		124	%	50 - 130
			Fluorene	2021/06/22		102	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/06/22		111	%	50 - 130
			1-Methylnaphthalene	2021/06/22		89	%	50 - 130
			2-Methylnaphthalene	2021/06/22		85	%	50 - 130
			Naphthalene	2021/06/22		94	%	50 - 130
			Phenanthrene	2021/06/22		106	%	50 - 130
			Pyrene	2021/06/22		122	%	50 - 130
7420170	RAJ	Method Blank	D10-Anthracene	2021/06/22		111	%	50 - 130
			D14-Terphenyl (FS)	2021/06/22		116	%	50 - 130
			D8-Acenaphthylene	2021/06/22		99	%	50 - 130
			Acenaphthene	2021/06/22	<0.050		ug/L	
			Acenaphthylene	2021/06/22	<0.050		ug/L	
			Anthracene	2021/06/22	<0.050		ug/L	
			Benzo(a)anthracene	2021/06/22	<0.050		ug/L	
			Benzo(a)pyrene	2021/06/22	<0.0090		ug/L	
			Benzo(b/j)fluoranthene	2021/06/22	<0.050		ug/L	
			Benzo(g,h,i)perylene	2021/06/22	<0.050		ug/L	
			Benzo(k)fluoranthene	2021/06/22	<0.050		ug/L	
			Chrysene	2021/06/22	<0.050		ug/L	
			Dibenzo(a,h)anthracene	2021/06/22	<0.050		ug/L	
			Fluoranthene	2021/06/22	<0.050		ug/L	
			Fluorene	2021/06/22	<0.050		ug/L	
			Indeno(1,2,3-cd)pyrene	2021/06/22	<0.050		ug/L	
			1-Methylnaphthalene	2021/06/22	<0.050		ug/L	
			2-Methylnaphthalene	2021/06/22	<0.050		ug/L	
			Naphthalene	2021/06/22	<0.050		ug/L	
			Phenanthrene	2021/06/22	<0.030		ug/L	
			Pyrene	2021/06/22	<0.050		ug/L	
7420170	RAJ	RPD	Naphthalene	2021/06/22	NC		%	30
7420177	DN0	Matrix Spike	o-Terphenyl	2021/06/22		100	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/06/22		NC	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2021/06/22		NC	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2021/06/22		90	%	60 - 130
7420177	DN0	Spiked Blank	o-Terphenyl	2021/06/22		101	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/06/22		96	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2021/06/22		98	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2021/06/22		102	%	60 - 130
7420177	DN0	Method Blank	o-Terphenyl	2021/06/22		99	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/06/22	<100		ug/L	
			F3 (C16-C34 Hydrocarbons)	2021/06/22	<200		ug/L	
			F4 (C34-C50 Hydrocarbons)	2021/06/22	<200		ug/L	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7420177	DN0	RPD	F2 (C10-C16 Hydrocarbons)	2021/06/22	20		%	30
			F3 (C16-C34 Hydrocarbons)	2021/06/22	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2021/06/22	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.

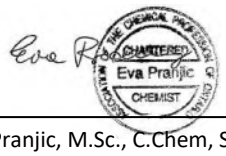
Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

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 <= 2x RDL).

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

BV Labs 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 Laboratories 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvlabs.com

16-Jun-21-14:25

Antonella Brasil

C1G6182

J_L ENV-960

Presence of Visible Particulate/Sediment

Maxxam Analytics
CAM FCD-01013/5

When there is >1cm of visible particulate/sediment, the amount will be recorded in the field below

		Bottle Types																														
			Inorganics					Organics											Hydrocarbons							Volatiles				Other
	Sample ID	All	CrVI	CN	General	Hg	Metals (Diss.)	Organic 1 of 2	Organic 2 of 2	PCB 1 of 2	PCB 2 of 2	Pest/ Herb 1 of 2	Pest/ Herb 2 of 2	SVOC/ ABN 1 of 2	SVOC/ ABN 2 of 2	PAH 1 of 2	PAH 2 of 2	Dioxin /Furan	F1 Vial 1	F1 Vial 2	F1 Vial 3	F1 Vial 4	F2-F4 1 of 2	F2-F4 2 of 2	F4G	VOC Vial 1	VOC Vial 2	VOC Vial 3	VOC Vial 4	
1	BH/MW111	TS																														
2																																
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																

Comments:

Legend:	
P	Suspended Particulate
TS	Trace Settled Sediment (just covers bottom of container or less)
S	Sediment greater than (>) Trace, but less than (<) 1 cm

Recorded By: (signature/print)

Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free 800-563-6266 Fax (905) 817-5777 www.bvlabs.com

16-Jun-21 14:25
Antonella Brasil
C1G6182

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INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#982 Pinchin Ltd	Company Name:		Quotation #:	A70927
Attention:	Accounts Payable	Attention:	Matt, Ryan, Mike	P.O. #:	
Address:	1 Hines Road Suite 200 Kanata ON K2K 3C7	Address:		Project:	285722.003
Tel:	(613) 592-3387 Fax: (613) 592-5897	Tel:	Fax:	Project Name:	
Email:	ap@pinchin.com	Email:	mkosiw@Pinchin.com, rlaronde@pinchin.com; mryan@	Site #:	
				Sampled By:	M. Kosiw

J_L ENV-960

ottle Order #: 832329

COC #: C#832329-02-01

Project Manager: Antonella Brasil

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☒ Res/Park ☒ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☒ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___	☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ___ ☐ PWQO ☐ Reg 406 Table ___ ☐ Other ___	

Include Criteria on Certificate of Analysis (Y/N)? ___

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	O Reg 153 Metals & Inorganics Pkg (Soil)	O Reg 153 VOCs by HS & F1-F4 (Soil)	O Reg 153 PCBs (Soil)	O Reg 153 PAHs (Soil)	O Reg 153 Semivolatiles Package (Soil)	Acid Extractables by GC/MS	O Reg 153 OC Pesticides (Soil)	# of Bottles	Comments
1		BHMW111	June 15 2021	PM	GW			X		X				5	
2		BHMW119	〃	〃	〃			X		X				5	
3															
4															
5															
6															
7															
8															
9															
10															

RECEIVED IN OTTAWA

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

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 Dioxins/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 #)*

ON Jar

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Mike Kosiw	June 16 2021	11:30 AM		2021/06/16 2021/06/17	14:25 08:30	

Laboratory Use Only				
Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	9 8 10	Present		
		Intact	☑	

3/3/3

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

White: BV Labs Yellow: Client

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.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.

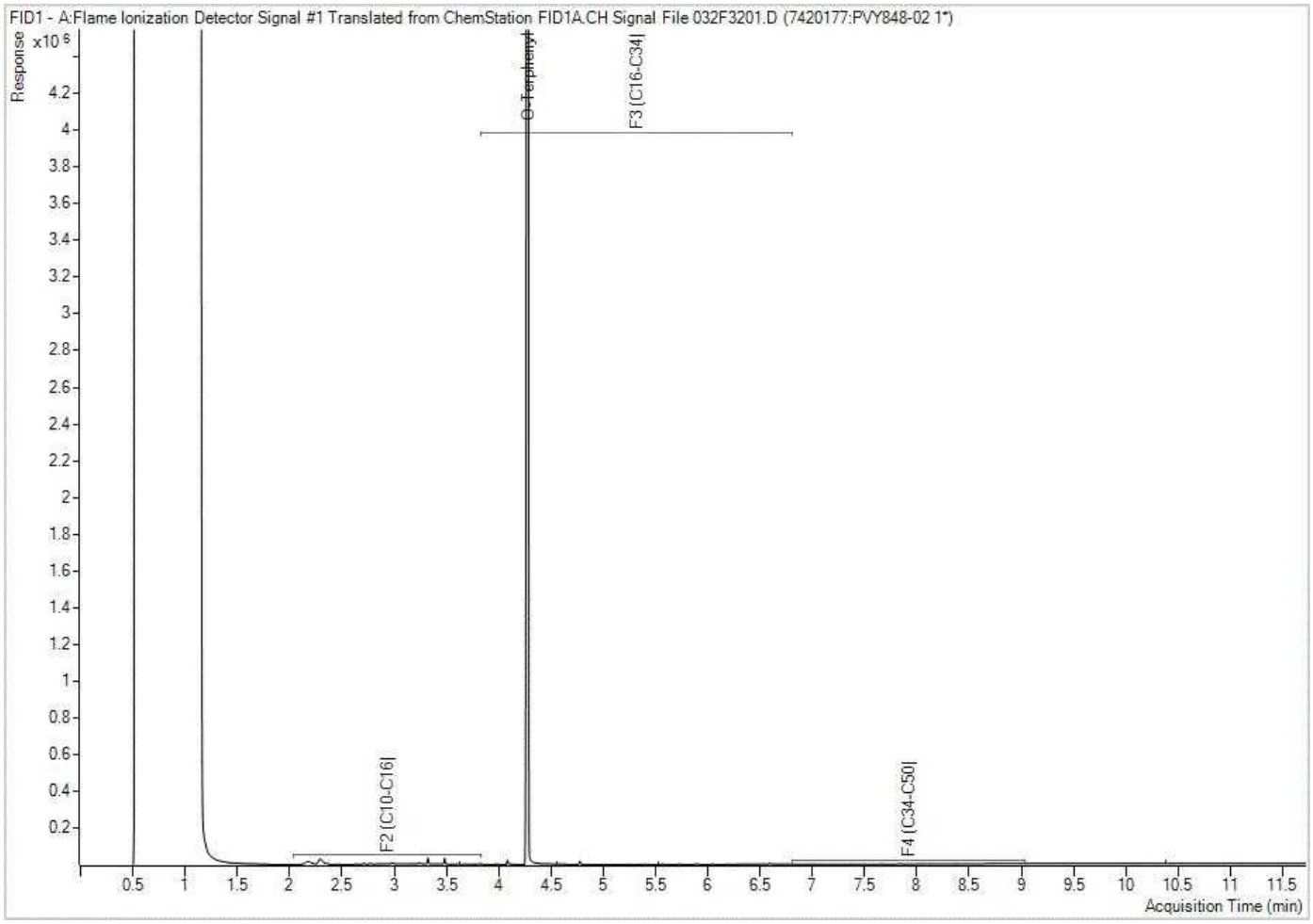
** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

Bureau Veritas Canada (2019) Inc.

BV Labs Job #: C1G6182
Report Date: 2021/06/24
BV Labs Sample: PVY848

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW111

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

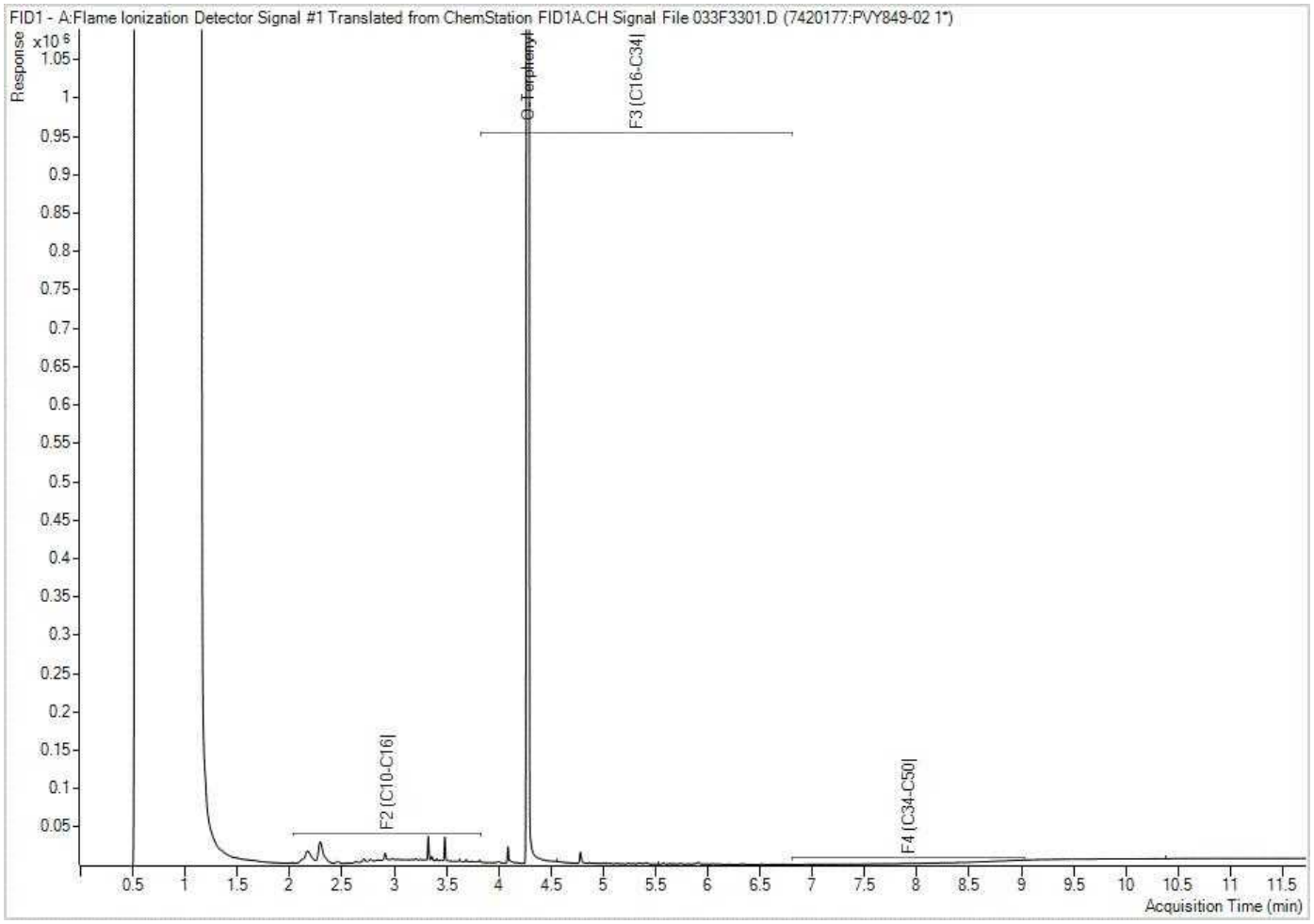


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1G6182
Report Date: 2021/06/24
BV Labs Sample: PVY849

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW119

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 #: 285722.003
Your C.O.C. #: 832329-06-01

Attention: Matt, Ryan, Mike

Pinchin Ltd
Ottawa
1 Hines Road
Suite 200
Kanata, ON
CANADA K2K 3C7

Report Date: 2021/10/21
Report #: R6862370
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1T8290
Received: 2021/10/13, 16:20

Sample Matrix: Soil
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum (1)	3	N/A	2021/10/20	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum (1)	3	N/A	2021/10/20		EPA 8260C m
Petroleum Hydrocarbons F2-F4 in Soil (1, 2)	3	2021/10/18	2021/10/19	CAM SOP-00316	CCME CWS m
Moisture (1)	3	N/A	2021/10/15	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM) (1)	3	2021/10/19	2021/10/20	CAM SOP-00318	EPA 8270D m
Volatile Organic Compounds and F1 PHCs (1)	3	N/A	2021/10/19	CAM SOP-00230	EPA 8260C m

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum (1)	2	N/A	2021/10/19	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum (1)	2	N/A	2021/10/20		EPA 8260C m
Petroleum Hydrocarbons F2-F4 in Water (1, 2)	2	2021/10/18	2021/10/19	CAM SOP-00316	CCME PHC-CWS m
PAH Compounds in Water by GC/MS (SIM) (1)	2	2021/10/18	2021/10/19	CAM SOP-00318	EPA 8270D m
Volatile Organic Compounds and F1 PHCs (1)	3	N/A	2021/10/20	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.

Your Project #: 285722.003
Your C.O.C. #: 832329-06-01

Attention: Matt, Ryan, Mike

Pinchin Ltd
Ottawa
1 Hines Road
Suite 200
Kanata, ON
CANADA K2K 3C7

Report Date: 2021/10/21
Report #: R6862370
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1T8290
Received: 2021/10/13, 16:20

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.

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) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8

(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas Laboratories 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

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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BV Labs 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.

O.REG 153 PAHS (SOIL)

Bureau Veritas ID		QXT935		QXT936		QXT937		
Sampling Date		2021/10/06		2021/10/06		2021/10/06		
COC Number		832329-06-01		832329-06-01		832329-06-01		
	UNITS	BHMW125 SS-7	RDL	BHMW126 SS-1	RDL	BHMW127 SS-6	RDL	QC Batch
Inorganics								
Moisture	%	10	1.0	8.9	1.0	15	1.0	7639393
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	0.0071	17	0.071	<0.0071	0.0071	7637968
Polyaromatic Hydrocarbons								
Acenaphthene	ug/g	<0.0050	0.0050	39	0.050	<0.0050	0.0050	7646770
Acenaphthylene	ug/g	<0.0050	0.0050	0.77	0.050	<0.0050	0.0050	7646770
Anthracene	ug/g	<0.0050	0.0050	110	0.050	<0.0050	0.0050	7646770
Benzo(a)anthracene	ug/g	<0.0050	0.0050	180	0.050	<0.0050	0.0050	7646770
Benzo(a)pyrene	ug/g	<0.0050	0.0050	120	0.050	<0.0050	0.0050	7646770
Benzo(b/j)fluoranthene	ug/g	<0.0050	0.0050	200	0.050	<0.0050	0.0050	7646770
Benzo(g,h,i)perylene	ug/g	<0.0050	0.0050	57	0.050	<0.0050	0.0050	7646770
Benzo(k)fluoranthene	ug/g	<0.0050	0.0050	65	0.050	<0.0050	0.0050	7646770
Chrysene	ug/g	<0.0050	0.0050	140	0.050	<0.0050	0.0050	7646770
Dibenzo(a,h)anthracene	ug/g	<0.0050	0.0050	18	0.050	<0.0050	0.0050	7646770
Fluoranthene	ug/g	<0.0050	0.0050	450	0.050	0.0079	0.0050	7646770
Fluorene	ug/g	<0.0050	0.0050	54	0.050	<0.0050	0.0050	7646770
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	0.0050	62	0.050	<0.0050	0.0050	7646770
1-Methylnaphthalene	ug/g	<0.0050	0.0050	7.2	0.050	<0.0050	0.0050	7646770
2-Methylnaphthalene	ug/g	<0.0050	0.0050	9.3	0.050	<0.0050	0.0050	7646770
Naphthalene	ug/g	<0.0050	0.0050	12	0.050	<0.0050	0.0050	7646770
Phenanthrene	ug/g	<0.0050	0.0050	430	0.050	0.0087	0.0050	7646770
Pyrene	ug/g	<0.0050	0.0050	330	0.050	0.0057	0.0050	7646770
Surrogate Recovery (%)								
D10-Anthracene	%	94		120		99		7646770
D14-Terphenyl (FS)	%	90		313 (1)		96		7646770
D8-Acenaphthylene	%	56		120		68		7646770

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

(1) Surrogate recovery was above the upper control limit due to matrix interference. This may represent a high bias in some results.

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

Bureau Veritas ID		QXT935	QXT936	QXT937		
Sampling Date		2021/10/06	2021/10/06	2021/10/06		
COC Number		832329-06-01	832329-06-01	832329-06-01		
	UNITS	BHMW125 SS-7	BHMW126 SS-1	BHMW127 SS-6	RDL	QC Batch
Calculated Parameters						
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	<0.050	0.050	7638071
Volatile Organics						
Acetone (2-Propanone)	ug/g	<0.49	<0.49	<0.49	0.49	7642664
Benzene	ug/g	<0.0060	0.0085	<0.0060	0.0060	7642664
Bromodichloromethane	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Bromoform	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Bromomethane	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Carbon Tetrachloride	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Chlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Chloroform	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Dibromochloromethane	ug/g	<0.040	<0.040	<0.040	0.040	7642664
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	7642664
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	7642664
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	<0.040	0.040	7642664
1,1-Dichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	7642664
1,2-Dichloroethane	ug/g	<0.049	<0.049	<0.049	0.049	7642664
1,1-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	7642664
cis-1,2-Dichloroethylene	ug/g	<0.040	0.057	<0.040	0.040	7642664
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	7642664
1,2-Dichloropropane	ug/g	<0.040	<0.040	<0.040	0.040	7642664
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	<0.030	0.030	7642664
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Ethylbenzene	ug/g	<0.010	0.017	<0.010	0.010	7642664
Ethylene Dibromide	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Hexane	ug/g	<0.040	0.058	<0.040	0.040	7642664
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	<0.049	0.049	7642664
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	<0.40	0.40	7642664
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	<0.40	0.40	7642664
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Styrene	ug/g	<0.040	<0.040	<0.040	0.040	7642664
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	0.040	7642664
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Tetrachloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Toluene	ug/g	<0.020	0.053	<0.020	0.020	7642664
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	7642664

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Bureau Veritas ID		QXT935	QXT936	QXT937		
Sampling Date		2021/10/06	2021/10/06	2021/10/06		
COC Number		832329-06-01	832329-06-01	832329-06-01		
	UNITS	BHMW125 SS-7	BHMW126 SS-1	BHMW127 SS-6	RDL	QC Batch
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Trichloroethylene	ug/g	<0.010	0.023	<0.010	0.010	7642664
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Vinyl Chloride	ug/g	<0.019	<0.019	<0.019	0.019	7642664
p+m-Xylene	ug/g	<0.020	0.088	<0.020	0.020	7642664
o-Xylene	ug/g	<0.020	0.053	<0.020	0.020	7642664
Total Xylenes	ug/g	<0.020	0.14	<0.020	0.020	7642664
F1 (C6-C10)	ug/g	<10	<10	<10	10	7642664
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	10	7642664
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/g	<10	290	<10	10	7644377
F3 (C16-C34 Hydrocarbons)	ug/g	<50	6200	<50	50	7644377
F4 (C34-C50 Hydrocarbons)	ug/g	<50	1400	<50	50	7644377
Reached Baseline at C50	ug/g	Yes	Yes	Yes		7644377
Surrogate Recovery (%)						
o-Terphenyl	%	86	99	84		7644377
4-Bromofluorobenzene	%	98	99	98		7642664
D10-o-Xylene	%	100	106	109		7642664
D4-1,2-Dichloroethane	%	89	89	88		7642664
D8-Toluene	%	97	97	97		7642664

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		QXT940		
Sampling Date		2021/10/12		
COC Number		832329-06-01		
	UNITS	TRIP BLANK	RDL	QC Batch
Volatile Organics				
Acetone (2-Propanone)	ug/L	<10	10	7640033
Benzene	ug/L	<0.17	0.17	7640033
Bromodichloromethane	ug/L	<0.50	0.50	7640033
Bromoform	ug/L	<1.0	1.0	7640033
Bromomethane	ug/L	<0.50	0.50	7640033
Carbon Tetrachloride	ug/L	<0.20	0.20	7640033
Chlorobenzene	ug/L	<0.20	0.20	7640033
Chloroform	ug/L	<0.20	0.20	7640033
Dibromochloromethane	ug/L	<0.50	0.50	7640033
1,2-Dichlorobenzene	ug/L	<0.50	0.50	7640033
1,3-Dichlorobenzene	ug/L	<0.50	0.50	7640033
1,4-Dichlorobenzene	ug/L	<0.50	0.50	7640033
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	7640033
1,1-Dichloroethane	ug/L	<0.20	0.20	7640033
1,2-Dichloroethane	ug/L	<0.50	0.50	7640033
1,1-Dichloroethylene	ug/L	<0.20	0.20	7640033
cis-1,2-Dichloroethylene	ug/L	<0.50	0.50	7640033
trans-1,2-Dichloroethylene	ug/L	<0.50	0.50	7640033
1,2-Dichloropropane	ug/L	<0.20	0.20	7640033
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	7640033
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	7640033
Ethylbenzene	ug/L	<0.20	0.20	7640033
Ethylene Dibromide	ug/L	<0.20	0.20	7640033
Hexane	ug/L	<1.0	1.0	7640033
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	7640033
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	7640033
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	7640033
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	7640033
Styrene	ug/L	<0.50	0.50	7640033
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	7640033
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	7640033
Tetrachloroethylene	ug/L	<0.20	0.20	7640033
Toluene	ug/L	<0.20	0.20	7640033
1,1,1-Trichloroethane	ug/L	<0.20	0.20	7640033
1,1,2-Trichloroethane	ug/L	<0.50	0.50	7640033
Trichloroethylene	ug/L	<0.20	0.20	7640033

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		QXT940		
Sampling Date		2021/10/12		
COC Number		832329-06-01		
	UNITS	**TRIP BLANK**	**RDL**	**QC Batch**
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	7640033
Vinyl Chloride	ug/L	<0.20	0.20	7640033
p+m-Xylene	ug/L	<0.20	0.20	7640033
o-Xylene	ug/L	<0.20	0.20	7640033
Total Xylenes	ug/L	<0.20	0.20	7640033
F1 (C6-C10)	ug/L	<25	25	7640033
F1 (C6-C10) - BTEX	ug/L	<25	25	7640033
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	87		7640033
D4-1,2-Dichloroethane	%	98		7640033
D8-Toluene	%	106		7640033

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 PAHS (WATER)

Bureau Veritas ID		QXT938	QXT939		
Sampling Date		2021/10/12	2021/10/12		
COC Number		832329-06-01	832329-06-01		
	UNITS	BHMW125	BHM127	RDL	QC Batch
Calculated Parameters					
Methylnaphthalene, 2-(1-)	ug/L	<0.071	<0.071	0.071	7637229
Polyaromatic Hydrocarbons					
Acenaphthene	ug/L	<0.050	0.10	0.050	7643885
Acenaphthylene	ug/L	<0.050	<0.050	0.050	7643885
Anthracene	ug/L	<0.050	<0.050	0.050	7643885
Benzo(a)anthracene	ug/L	<0.050	<0.050	0.050	7643885
Benzo(a)pyrene	ug/L	<0.0090	0.040	0.0090	7643885
Benzo(b/j)fluoranthene	ug/L	<0.050	<0.050	0.050	7643885
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	0.050	7643885
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	0.050	7643885
Chrysene	ug/L	<0.050	0.057	0.050	7643885
Dibenzo(a,h)anthracene	ug/L	<0.050	<0.050	0.050	7643885
Fluoranthene	ug/L	<0.050	0.14	0.050	7643885
Fluorene	ug/L	<0.050	0.076	0.050	7643885
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	0.050	7643885
1-Methylnaphthalene	ug/L	<0.050	<0.050	0.050	7643885
2-Methylnaphthalene	ug/L	<0.050	<0.050	0.050	7643885
Naphthalene	ug/L	<0.050	0.053	0.050	7643885
Phenanthrene	ug/L	<0.030	0.25	0.030	7643885
Pyrene	ug/L	<0.050	0.11	0.050	7643885
Surrogate Recovery (%)					
D10-Anthracene	%	109	115		7643885
D14-Terphenyl (FS)	%	103	110		7643885
D8-Acenaphthylene	%	85	94		7643885

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Bureau Veritas ID		QXT938			QXT938			QXT939		
Sampling Date		2021/10/12			2021/10/12			2021/10/12		
COC Number		832329-06-01			832329-06-01			832329-06-01		
	UNITS	BHMW125	RDL	QC Batch	BHMW125 Lab-Dup	RDL	QC Batch	BHM127	RDL	QC Batch
Calculated Parameters										
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	0.50	7637343				<0.50	0.50	7637343
Volatile Organics										
Acetone (2-Propanone)	ug/L	<10	10	7640033	<10	10	7640033	<10	10	7640033
Benzene	ug/L	<0.17	0.17	7640033	<0.17	0.17	7640033	0.47	0.17	7640033
Bromodichloromethane	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	<0.50	0.50	7640033
Bromoform	ug/L	<1.0	1.0	7640033	<1.0	1.0	7640033	<1.0	1.0	7640033
Bromomethane	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	<0.50	0.50	7640033
Carbon Tetrachloride	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
Chlorobenzene	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
Chloroform	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
Dibromochloromethane	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	<0.50	0.50	7640033
1,2-Dichlorobenzene	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	<0.50	0.50	7640033
1,3-Dichlorobenzene	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	<0.50	0.50	7640033
1,4-Dichlorobenzene	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	<0.50	0.50	7640033
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	7640033	<1.0	1.0	7640033	<1.0	1.0	7640033
1,1-Dichloroethane	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	0.48	0.20	7640033
1,2-Dichloroethane	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	1.1	0.50	7640033
1,1-Dichloroethylene	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
cis-1,2-Dichloroethylene	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	<0.50	0.50	7640033
trans-1,2-Dichloroethylene	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	<0.50	0.50	7640033
1,2-Dichloropropane	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	7640033	<0.30	0.30	7640033	<0.30	0.30	7640033
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	7640033	<0.40	0.40	7640033	<0.40	0.40	7640033
Ethylbenzene	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
Ethylene Dibromide	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
Hexane	ug/L	<1.0	1.0	7640033	<1.0	1.0	7640033	<1.0	1.0	7640033
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	7640033	<2.0	2.0	7640033	<2.0	2.0	7640033
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	7640033	<10	10	7640033	<10	10	7640033
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	7640033	<5.0	5.0	7640033	<5.0	5.0	7640033
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	46	0.50	7640033
Styrene	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	<0.50	0.50	7640033
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	<0.50	0.50	7640033
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	<0.50	0.50	7640033
Tetrachloroethylene	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
Toluene	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

Bureau Veritas ID		QXT938			QXT938			QXT939		
Sampling Date		2021/10/12			2021/10/12			2021/10/12		
COC Number		832329-06-01			832329-06-01			832329-06-01		
	UNITS	BHMW125	RDL	QC Batch	BHMW125 Lab-Dup	RDL	QC Batch	BHM127	RDL	QC Batch
1,1,1-Trichloroethane	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
1,1,2-Trichloroethane	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	<0.50	0.50	7640033
Trichloroethylene	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	<0.50	0.50	7640033
Vinyl Chloride	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
p+m-Xylene	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
o-Xylene	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
Total Xylenes	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
F1 (C6-C10)	ug/L	<25	25	7640033	<25	25	7640033	<25	25	7640033
F1 (C6-C10) - BTEX	ug/L	<25	25	7640033	<25	25	7640033	<25	25	7640033
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	7643884				<100	100	7643884
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	7643884				<200	200	7643884
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	7643884				<200	200	7643884
Reached Baseline at C50	ug/L	Yes		7643884				Yes		7643884
Surrogate Recovery (%)										
o-Terphenyl	%	89		7643884				92		7643884
4-Bromofluorobenzene	%	85		7640033	84		7640033	87		7640033
D4-1,2-Dichloroethane	%	94		7640033	91		7640033	98		7640033
D8-Toluene	%	108		7640033	110		7640033	106		7640033

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

TEST SUMMARY

Bureau Veritas ID: QXT935 **Collected:** 2021/10/06
Sample ID: BHMW125 SS-7 **Shipped:**
Matrix: Soil **Received:** 2021/10/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7637968	N/A	2021/10/20	Automated Statchk
1,3-Dichloropropene Sum	CALC	7638071	N/A	2021/10/20	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7644377	2021/10/18	2021/10/19	Ravinder Gaidhu
Moisture	BAL	7639393	N/A	2021/10/15	Muhammad Chhaidan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7646770	2021/10/19	2021/10/20	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7642664	N/A	2021/10/19	Anna Gabrielyan

Bureau Veritas ID: QXT936 **Collected:** 2021/10/06
Sample ID: BHMW126 SS-1 **Shipped:**
Matrix: Soil **Received:** 2021/10/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7637968	N/A	2021/10/20	Automated Statchk
1,3-Dichloropropene Sum	CALC	7638071	N/A	2021/10/20	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7644377	2021/10/18	2021/10/19	Ravinder Gaidhu
Moisture	BAL	7639393	N/A	2021/10/15	Muhammad Chhaidan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7646770	2021/10/19	2021/10/20	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7642664	N/A	2021/10/19	Anna Gabrielyan

Bureau Veritas ID: QXT937 **Collected:** 2021/10/06
Sample ID: BHMW127 SS-6 **Shipped:**
Matrix: Soil **Received:** 2021/10/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7637968	N/A	2021/10/20	Automated Statchk
1,3-Dichloropropene Sum	CALC	7638071	N/A	2021/10/20	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7644377	2021/10/18	2021/10/19	Ravinder Gaidhu
Moisture	BAL	7639393	N/A	2021/10/15	Muhammad Chhaidan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7646770	2021/10/19	2021/10/20	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7642664	N/A	2021/10/19	Anna Gabrielyan

Bureau Veritas ID: QXT938 **Collected:** 2021/10/12
Sample ID: BHMW125 **Shipped:**
Matrix: Water **Received:** 2021/10/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7637229	N/A	2021/10/19	Automated Statchk
1,3-Dichloropropene Sum	CALC	7637343	N/A	2021/10/20	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7643884	2021/10/18	2021/10/19	Ravinder Gaidhu
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7643885	2021/10/18	2021/10/19	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7640033	N/A	2021/10/20	Blair Gannon

TEST SUMMARY

Bureau Veritas ID: QXT938 Dup
Sample ID: BHMW125
Matrix: Water

Collected: 2021/10/12
Shipped:
Received: 2021/10/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7640033	N/A	2021/10/20	Blair Gannon

Bureau Veritas ID: QXT939
Sample ID: BHM127
Matrix: Water

Collected: 2021/10/12
Shipped:
Received: 2021/10/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7637229	N/A	2021/10/19	Automated Statchk
1,3-Dichloropropene Sum	CALC	7637343	N/A	2021/10/20	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7643884	2021/10/18	2021/10/19	Ravinder Gaidhu
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7643885	2021/10/18	2021/10/19	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7640033	N/A	2021/10/20	Blair Gannon

Bureau Veritas ID: QXT940
Sample ID: TRIP BLANK
Matrix: Water

Collected: 2021/10/12
Shipped:
Received: 2021/10/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7640033	N/A	2021/10/20	Blair Gannon

GENERAL COMMENTS

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

Package 1	6.0°C

Cooler custody seal was present and intact.

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.

Sample QXT936 [BHMW126 SS-1] : PAH ANALYSIS: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7639393	MBW	RPD	Moisture	2021/10/15	15		%	20
7640033	BG1	Matrix Spike [QXT938-03]	4-Bromofluorobenzene	2021/10/19		98	%	70 - 130
			D4-1,2-Dichloroethane	2021/10/19		94	%	70 - 130
			D8-Toluene	2021/10/19		106	%	70 - 130
			Acetone (2-Propanone)	2021/10/19		86	%	60 - 140
			Benzene	2021/10/19		91	%	70 - 130
			Bromodichloromethane	2021/10/19		94	%	70 - 130
			Bromoform	2021/10/19		87	%	70 - 130
			Bromomethane	2021/10/19		95	%	60 - 140
			Carbon Tetrachloride	2021/10/19		101	%	70 - 130
			Chlorobenzene	2021/10/19		97	%	70 - 130
			Chloroform	2021/10/19		97	%	70 - 130
			Dibromochloromethane	2021/10/19		90	%	70 - 130
			1,2-Dichlorobenzene	2021/10/19		97	%	70 - 130
			1,3-Dichlorobenzene	2021/10/19		108	%	70 - 130
			1,4-Dichlorobenzene	2021/10/19		96	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2021/10/19		91	%	60 - 140
			1,1-Dichloroethane	2021/10/19		94	%	70 - 130
			1,2-Dichloroethane	2021/10/19		87	%	70 - 130
			1,1-Dichloroethylene	2021/10/19		102	%	70 - 130
			cis-1,2-Dichloroethylene	2021/10/19		97	%	70 - 130
			trans-1,2-Dichloroethylene	2021/10/19		99	%	70 - 130
			1,2-Dichloropropane	2021/10/19		92	%	70 - 130
			cis-1,3-Dichloropropene	2021/10/19		83	%	70 - 130
			trans-1,3-Dichloropropene	2021/10/19		90	%	70 - 130
			Ethylbenzene	2021/10/19		95	%	70 - 130
			Ethylene Dibromide	2021/10/19		91	%	70 - 130
			Hexane	2021/10/19		103	%	70 - 130
			Methylene Chloride(Dichloromethane)	2021/10/19		98	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2021/10/19		82	%	60 - 140
			Methyl Isobutyl Ketone	2021/10/19		66 (1)	%	70 - 130
			Methyl t-butyl ether (MTBE)	2021/10/19		84	%	70 - 130
			Styrene	2021/10/19		96	%	70 - 130
			1,1,1,2-Tetrachloroethane	2021/10/19		98	%	70 - 130
			1,1,2,2-Tetrachloroethane	2021/10/19		88	%	70 - 130
			Tetrachloroethylene	2021/10/19		100	%	70 - 130
			Toluene	2021/10/19		91	%	70 - 130
			1,1,1-Trichloroethane	2021/10/19		104	%	70 - 130
			1,1,2-Trichloroethane	2021/10/19		100	%	70 - 130
			Trichloroethylene	2021/10/19		106	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2021/10/19		104	%	70 - 130
			Vinyl Chloride	2021/10/19		98	%	70 - 130
			p+m-Xylene	2021/10/19		92	%	70 - 130
			o-Xylene	2021/10/19		90	%	70 - 130
			F1 (C6-C10)	2021/10/19		117	%	60 - 140
7640033	BG1	Spiked Blank	4-Bromofluorobenzene	2021/10/19		98	%	70 - 130
			D4-1,2-Dichloroethane	2021/10/19		102	%	70 - 130
			D8-Toluene	2021/10/19		102	%	70 - 130
			Acetone (2-Propanone)	2021/10/19		95	%	60 - 140
			Benzene	2021/10/19		88	%	70 - 130
			Bromodichloromethane	2021/10/19		97	%	70 - 130
			Bromoform	2021/10/19		92	%	70 - 130
			Bromomethane	2021/10/19		94	%	60 - 140
			Carbon Tetrachloride	2021/10/19		93	%	70 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Chlorobenzene	2021/10/19		94	%	70 - 130
			Chloroform	2021/10/19		96	%	70 - 130
			Dibromochloromethane	2021/10/19		92	%	70 - 130
			1,2-Dichlorobenzene	2021/10/19		94	%	70 - 130
			1,3-Dichlorobenzene	2021/10/19		98	%	70 - 130
			1,4-Dichlorobenzene	2021/10/19		94	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2021/10/19		83	%	60 - 140
			1,1-Dichloroethane	2021/10/19		92	%	70 - 130
			1,2-Dichloroethane	2021/10/19		93	%	70 - 130
			1,1-Dichloroethylene	2021/10/19		95	%	70 - 130
			cis-1,2-Dichloroethylene	2021/10/19		96	%	70 - 130
			trans-1,2-Dichloroethylene	2021/10/19		93	%	70 - 130
			1,2-Dichloropropane	2021/10/19		93	%	70 - 130
			cis-1,3-Dichloropropene	2021/10/19		86	%	70 - 130
			trans-1,3-Dichloropropene	2021/10/19		92	%	70 - 130
			Ethylbenzene	2021/10/19		87	%	70 - 130
			Ethylene Dibromide	2021/10/19		96	%	70 - 130
			Hexane	2021/10/19		95	%	70 - 130
			Methylene Chloride(Dichloromethane)	2021/10/19		100	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2021/10/19		96	%	60 - 140
			Methyl Isobutyl Ketone	2021/10/19		83	%	70 - 130
			Methyl t-butyl ether (MTBE)	2021/10/19		90	%	70 - 130
			Styrene	2021/10/19		95	%	70 - 130
			1,1,1,2-Tetrachloroethane	2021/10/19		96	%	70 - 130
			1,1,2,2-Tetrachloroethane	2021/10/19		95	%	70 - 130
			Tetrachloroethylene	2021/10/19		88	%	70 - 130
			Toluene	2021/10/19		85	%	70 - 130
			1,1,1-Trichloroethane	2021/10/19		96	%	70 - 130
			1,1,2-Trichloroethane	2021/10/19		103	%	70 - 130
			Trichloroethylene	2021/10/19		99	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2021/10/19		95	%	70 - 130
			Vinyl Chloride	2021/10/19		92	%	70 - 130
			p+m-Xylene	2021/10/19		84	%	70 - 130
			o-Xylene	2021/10/19		85	%	70 - 130
			F1 (C6-C10)	2021/10/19		97	%	60 - 140
7640033	BG1	Method Blank	4-Bromofluorobenzene	2021/10/19		90	%	70 - 130
			D4-1,2-Dichloroethane	2021/10/19		109	%	70 - 130
			D8-Toluene	2021/10/19		100	%	70 - 130
			Acetone (2-Propanone)	2021/10/19	<10		ug/L	
			Benzene	2021/10/19	<0.17		ug/L	
			Bromodichloromethane	2021/10/19	<0.50		ug/L	
			Bromoform	2021/10/19	<1.0		ug/L	
			Bromomethane	2021/10/19	<0.50		ug/L	
			Carbon Tetrachloride	2021/10/19	<0.20		ug/L	
			Chlorobenzene	2021/10/19	<0.20		ug/L	
			Chloroform	2021/10/19	<0.20		ug/L	
			Dibromochloromethane	2021/10/19	<0.50		ug/L	
			1,2-Dichlorobenzene	2021/10/19	<0.50		ug/L	
			1,3-Dichlorobenzene	2021/10/19	<0.50		ug/L	
			1,4-Dichlorobenzene	2021/10/19	<0.50		ug/L	
			Dichlorodifluoromethane (FREON 12)	2021/10/19	<1.0		ug/L	
			1,1-Dichloroethane	2021/10/19	<0.20		ug/L	
			1,2-Dichloroethane	2021/10/19	<0.50		ug/L	
			1,1-Dichloroethylene	2021/10/19	<0.20		ug/L	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			cis-1,2-Dichloroethylene	2021/10/19	<0.50		ug/L	
			trans-1,2-Dichloroethylene	2021/10/19	<0.50		ug/L	
			1,2-Dichloropropane	2021/10/19	<0.20		ug/L	
			cis-1,3-Dichloropropene	2021/10/19	<0.30		ug/L	
			trans-1,3-Dichloropropene	2021/10/19	<0.40		ug/L	
			Ethylbenzene	2021/10/19	<0.20		ug/L	
			Ethylene Dibromide	2021/10/19	<0.20		ug/L	
			Hexane	2021/10/19	<1.0		ug/L	
			Methylene Chloride(Dichloromethane)	2021/10/19	<2.0		ug/L	
			Methyl Ethyl Ketone (2-Butanone)	2021/10/19	<10		ug/L	
			Methyl Isobutyl Ketone	2021/10/19	<5.0		ug/L	
			Methyl t-butyl ether (MTBE)	2021/10/19	<0.50		ug/L	
			Styrene	2021/10/19	<0.50		ug/L	
			1,1,1,2-Tetrachloroethane	2021/10/19	<0.50		ug/L	
			1,1,2,2-Tetrachloroethane	2021/10/19	<0.50		ug/L	
			Tetrachloroethylene	2021/10/19	<0.20		ug/L	
			Toluene	2021/10/19	<0.20		ug/L	
			1,1,1-Trichloroethane	2021/10/19	<0.20		ug/L	
			1,1,2-Trichloroethane	2021/10/19	<0.50		ug/L	
			Trichloroethylene	2021/10/19	<0.20		ug/L	
			Trichlorofluoromethane (FREON 11)	2021/10/19	<0.50		ug/L	
			Vinyl Chloride	2021/10/19	<0.20		ug/L	
			p+m-Xylene	2021/10/19	<0.20		ug/L	
			o-Xylene	2021/10/19	<0.20		ug/L	
			Total Xylenes	2021/10/19	<0.20		ug/L	
			F1 (C6-C10)	2021/10/19	<25		ug/L	
			F1 (C6-C10) - BTEX	2021/10/19	<25		ug/L	
7640033	BG1	RPD [QXT938-03]	Acetone (2-Propanone)	2021/10/20	NC		%	30
			Benzene	2021/10/20	NC		%	30
			Bromodichloromethane	2021/10/20	NC		%	30
			Bromoform	2021/10/20	NC		%	30
			Bromomethane	2021/10/20	NC		%	30
			Carbon Tetrachloride	2021/10/20	NC		%	30
			Chlorobenzene	2021/10/20	NC		%	30
			Chloroform	2021/10/20	NC		%	30
			Dibromochloromethane	2021/10/20	NC		%	30
			1,2-Dichlorobenzene	2021/10/20	NC		%	30
			1,3-Dichlorobenzene	2021/10/20	NC		%	30
			1,4-Dichlorobenzene	2021/10/20	NC		%	30
			Dichlorodifluoromethane (FREON 12)	2021/10/20	NC		%	30
			1,1-Dichloroethane	2021/10/20	NC		%	30
			1,2-Dichloroethane	2021/10/20	NC		%	30
			1,1-Dichloroethylene	2021/10/20	NC		%	30
			cis-1,2-Dichloroethylene	2021/10/20	NC		%	30
			trans-1,2-Dichloroethylene	2021/10/20	NC		%	30
			1,2-Dichloropropane	2021/10/20	NC		%	30
			cis-1,3-Dichloropropene	2021/10/20	NC		%	30
			trans-1,3-Dichloropropene	2021/10/20	NC		%	30
			Ethylbenzene	2021/10/20	NC		%	30
			Ethylene Dibromide	2021/10/20	NC		%	30
			Hexane	2021/10/20	NC		%	30
			Methylene Chloride(Dichloromethane)	2021/10/20	NC		%	30
			Methyl Ethyl Ketone (2-Butanone)	2021/10/20	NC		%	30
			Methyl Isobutyl Ketone	2021/10/20	NC		%	30

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Methyl t-butyl ether (MTBE)	2021/10/20	NC		%	30
			Styrene	2021/10/20	NC		%	30
			1,1,1,2-Tetrachloroethane	2021/10/20	NC		%	30
			1,1,2,2-Tetrachloroethane	2021/10/20	NC		%	30
			Tetrachloroethylene	2021/10/20	NC		%	30
			Toluene	2021/10/20	NC		%	30
			1,1,1-Trichloroethane	2021/10/20	NC		%	30
			1,1,2-Trichloroethane	2021/10/20	NC		%	30
			Trichloroethylene	2021/10/20	NC		%	30
			Trichlorofluoromethane (FREON 11)	2021/10/20	NC		%	30
			Vinyl Chloride	2021/10/20	NC		%	30
			p+m-Xylene	2021/10/20	NC		%	30
			o-Xylene	2021/10/20	NC		%	30
			Total Xylenes	2021/10/20	NC		%	30
			F1 (C6-C10)	2021/10/20	NC		%	30
			F1 (C6-C10) - BTEX	2021/10/20	NC		%	30
7642664	AYA	Matrix Spike	4-Bromofluorobenzene	2021/10/18		109	%	60 - 140
			D10-o-Xylene	2021/10/18		112	%	60 - 130
			D4-1,2-Dichloroethane	2021/10/18		86	%	60 - 140
			D8-Toluene	2021/10/18		105	%	60 - 140
			Acetone (2-Propanone)	2021/10/18		83	%	60 - 140
			Benzene	2021/10/18		86	%	60 - 140
			Bromodichloromethane	2021/10/18		90	%	60 - 140
			Bromoform	2021/10/18		85	%	60 - 140
			Bromomethane	2021/10/18		92	%	60 - 140
			Carbon Tetrachloride	2021/10/18		93	%	60 - 140
			Chlorobenzene	2021/10/18		100	%	60 - 140
			Chloroform	2021/10/18		87	%	60 - 140
			Dibromochloromethane	2021/10/18		75	%	60 - 140
			1,2-Dichlorobenzene	2021/10/18		98	%	60 - 140
			1,3-Dichlorobenzene	2021/10/18		106	%	60 - 140
			1,4-Dichlorobenzene	2021/10/18		112	%	60 - 140
			Dichlorodifluoromethane (FREON 12)	2021/10/18		95	%	60 - 140
			1,1-Dichloroethane	2021/10/18		84	%	60 - 140
			1,2-Dichloroethane	2021/10/18		81	%	60 - 140
			1,1-Dichloroethylene	2021/10/18		96	%	60 - 140
			cis-1,2-Dichloroethylene	2021/10/18		94	%	60 - 140
			trans-1,2-Dichloroethylene	2021/10/18		93	%	60 - 140
			1,2-Dichloropropane	2021/10/18		88	%	60 - 140
			cis-1,3-Dichloropropene	2021/10/18		102	%	60 - 140
			trans-1,3-Dichloropropene	2021/10/18		105	%	60 - 140
			Ethylbenzene	2021/10/18		103	%	60 - 140
			Ethylene Dibromide	2021/10/18		84	%	60 - 140
			Hexane	2021/10/18		104	%	60 - 140
			Methylene Chloride(Dichloromethane)	2021/10/18		86	%	60 - 140
			Methyl Ethyl Ketone (2-Butanone)	2021/10/18		96	%	60 - 140
			Methyl Isobutyl Ketone	2021/10/18		79	%	60 - 140
			Methyl t-butyl ether (MTBE)	2021/10/18		98	%	60 - 140
			Styrene	2021/10/18		90	%	60 - 140
			1,1,1,2-Tetrachloroethane	2021/10/18		90	%	60 - 140
			1,1,2,2-Tetrachloroethane	2021/10/18		78	%	60 - 140
			Tetrachloroethylene	2021/10/18		88	%	60 - 140
			Toluene	2021/10/18		95	%	60 - 140
			1,1,1-Trichloroethane	2021/10/18		95	%	60 - 140

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1,1,2-Trichloroethane	2021/10/18		85	%	60 - 140
			Trichloroethylene	2021/10/18		102	%	60 - 140
			Trichlorofluoromethane (FREON 11)	2021/10/18		95	%	60 - 140
			Vinyl Chloride	2021/10/18		94	%	60 - 140
			p+m-Xylene	2021/10/18		110	%	60 - 140
			o-Xylene	2021/10/18		103	%	60 - 140
			F1 (C6-C10)	2021/10/18		88	%	60 - 140
7642664	AYA	Spiked Blank	4-Bromofluorobenzene	2021/10/18		109	%	60 - 140
			D10-o-Xylene	2021/10/18		113	%	60 - 130
			D4-1,2-Dichloroethane	2021/10/18		89	%	60 - 140
			D8-Toluene	2021/10/18		105	%	60 - 140
			Acetone (2-Propanone)	2021/10/18		84	%	60 - 140
			Benzene	2021/10/18		84	%	60 - 130
			Bromodichloromethane	2021/10/18		90	%	60 - 130
			Bromoform	2021/10/18		86	%	60 - 130
			Bromomethane	2021/10/18		84	%	60 - 140
			Carbon Tetrachloride	2021/10/18		92	%	60 - 130
			Chlorobenzene	2021/10/18		97	%	60 - 130
			Chloroform	2021/10/18		87	%	60 - 130
			Dibromochloromethane	2021/10/18		76	%	60 - 130
			1,2-Dichlorobenzene	2021/10/18		97	%	60 - 130
			1,3-Dichlorobenzene	2021/10/18		102	%	60 - 130
			1,4-Dichlorobenzene	2021/10/18		108	%	60 - 130
			Dichlorodifluoromethane (FREON 12)	2021/10/18		64	%	60 - 140
			1,1-Dichloroethane	2021/10/18		83	%	60 - 130
			1,2-Dichloroethane	2021/10/18		81	%	60 - 130
			1,1-Dichloroethylene	2021/10/18		92	%	60 - 130
			cis-1,2-Dichloroethylene	2021/10/18		93	%	60 - 130
			trans-1,2-Dichloroethylene	2021/10/18		92	%	60 - 130
			1,2-Dichloropropane	2021/10/18		88	%	60 - 130
			cis-1,3-Dichloropropene	2021/10/18		92	%	60 - 130
			trans-1,3-Dichloropropene	2021/10/18		95	%	60 - 130
			Ethylbenzene	2021/10/18		97	%	60 - 130
			Ethylene Dibromide	2021/10/18		84	%	60 - 130
			Hexane	2021/10/18		99	%	60 - 130
			Methylene Chloride(Dichloromethane)	2021/10/18		86	%	60 - 130
			Methyl Ethyl Ketone (2-Butanone)	2021/10/18		96	%	60 - 140
			Methyl Isobutyl Ketone	2021/10/18		77	%	60 - 130
			Methyl t-butyl ether (MTBE)	2021/10/18		92	%	60 - 130
			Styrene	2021/10/18		87	%	60 - 130
			1,1,1,2-Tetrachloroethane	2021/10/18		90	%	60 - 130
			1,1,2,2-Tetrachloroethane	2021/10/18		81	%	60 - 130
			Tetrachloroethylene	2021/10/18		88	%	60 - 130
			Toluene	2021/10/18		93	%	60 - 130
			1,1,1-Trichloroethane	2021/10/18		94	%	60 - 130
			1,1,2-Trichloroethane	2021/10/18		86	%	60 - 130
			Trichloroethylene	2021/10/18		100	%	60 - 130
			Trichlorofluoromethane (FREON 11)	2021/10/18		91	%	60 - 130
			Vinyl Chloride	2021/10/18		84	%	60 - 130
			p+m-Xylene	2021/10/18		102	%	60 - 130
			o-Xylene	2021/10/18		99	%	60 - 130
			F1 (C6-C10)	2021/10/18		96	%	80 - 120
7642664	AYA	Method Blank	4-Bromofluorobenzene	2021/10/18		96	%	60 - 140
			D10-o-Xylene	2021/10/18		107	%	60 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			D4-1,2-Dichloroethane	2021/10/18		91	%	60 - 140
			D8-Toluene	2021/10/18		95	%	60 - 140
			Acetone (2-Propanone)	2021/10/18	<0.49		ug/g	
			Benzene	2021/10/18	<0.0060		ug/g	
			Bromodichloromethane	2021/10/18	<0.040		ug/g	
			Bromoform	2021/10/18	<0.040		ug/g	
			Bromomethane	2021/10/18	<0.040		ug/g	
			Carbon Tetrachloride	2021/10/18	<0.040		ug/g	
			Chlorobenzene	2021/10/18	<0.040		ug/g	
			Chloroform	2021/10/18	<0.040		ug/g	
			Dibromochloromethane	2021/10/18	<0.040		ug/g	
			1,2-Dichlorobenzene	2021/10/18	<0.040		ug/g	
			1,3-Dichlorobenzene	2021/10/18	<0.040		ug/g	
			1,4-Dichlorobenzene	2021/10/18	<0.040		ug/g	
			Dichlorodifluoromethane (FREON 12)	2021/10/18	<0.040		ug/g	
			1,1-Dichloroethane	2021/10/18	<0.040		ug/g	
			1,2-Dichloroethane	2021/10/18	<0.049		ug/g	
			1,1-Dichloroethylene	2021/10/18	<0.040		ug/g	
			cis-1,2-Dichloroethylene	2021/10/18	<0.040		ug/g	
			trans-1,2-Dichloroethylene	2021/10/18	<0.040		ug/g	
			1,2-Dichloropropane	2021/10/18	<0.040		ug/g	
			cis-1,3-Dichloropropene	2021/10/18	<0.030		ug/g	
			trans-1,3-Dichloropropene	2021/10/18	<0.040		ug/g	
			Ethylbenzene	2021/10/18	<0.010		ug/g	
			Ethylene Dibromide	2021/10/18	<0.040		ug/g	
			Hexane	2021/10/18	<0.040		ug/g	
			Methylene Chloride(Dichloromethane)	2021/10/18	<0.049		ug/g	
			Methyl Ethyl Ketone (2-Butanone)	2021/10/18	<0.40		ug/g	
			Methyl Isobutyl Ketone	2021/10/18	<0.40		ug/g	
			Methyl t-butyl ether (MTBE)	2021/10/18	<0.040		ug/g	
			Styrene	2021/10/18	<0.040		ug/g	
			1,1,1,2-Tetrachloroethane	2021/10/18	<0.040		ug/g	
			1,1,2,2-Tetrachloroethane	2021/10/18	<0.040		ug/g	
			Tetrachloroethylene	2021/10/18	<0.040		ug/g	
			Toluene	2021/10/18	<0.020		ug/g	
			1,1,1-Trichloroethane	2021/10/18	<0.040		ug/g	
			1,1,2-Trichloroethane	2021/10/18	<0.040		ug/g	
			Trichloroethylene	2021/10/18	<0.010		ug/g	
			Trichlorofluoromethane (FREON 11)	2021/10/18	<0.040		ug/g	
			Vinyl Chloride	2021/10/18	<0.019		ug/g	
			p+m-Xylene	2021/10/18	<0.020		ug/g	
			o-Xylene	2021/10/18	<0.020		ug/g	
			Total Xylenes	2021/10/18	<0.020		ug/g	
			F1 (C6-C10)	2021/10/18	<10		ug/g	
			F1 (C6-C10) - BTEX	2021/10/18	<10		ug/g	
7642664	AYA	RPD	Acetone (2-Propanone)	2021/10/18	NC		%	50
			Benzene	2021/10/18	NC		%	50
			Bromodichloromethane	2021/10/18	NC		%	50
			Bromoform	2021/10/18	NC		%	50
			Bromomethane	2021/10/18	NC		%	50
			Carbon Tetrachloride	2021/10/18	NC		%	50
			Chlorobenzene	2021/10/18	NC		%	50
			Chloroform	2021/10/18	NC		%	50
			Dibromochloromethane	2021/10/18	NC		%	50

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1,2-Dichlorobenzene	2021/10/18	NC		%	50
			1,3-Dichlorobenzene	2021/10/18	NC		%	50
			1,4-Dichlorobenzene	2021/10/18	NC		%	50
			Dichlorodifluoromethane (FREON 12)	2021/10/18	NC		%	50
			1,1-Dichloroethane	2021/10/18	NC		%	50
			1,2-Dichloroethane	2021/10/18	NC		%	50
			1,1-Dichloroethylene	2021/10/18	NC		%	50
			cis-1,2-Dichloroethylene	2021/10/18	NC		%	50
			trans-1,2-Dichloroethylene	2021/10/18	NC		%	50
			1,2-Dichloropropane	2021/10/18	NC		%	50
			cis-1,3-Dichloropropene	2021/10/18	NC		%	50
			trans-1,3-Dichloropropene	2021/10/18	NC		%	50
			Ethylbenzene	2021/10/18	NC		%	50
			Ethylene Dibromide	2021/10/18	NC		%	50
			Hexane	2021/10/18	NC		%	50
			Methylene Chloride(Dichloromethane)	2021/10/18	NC		%	50
			Methyl Ethyl Ketone (2-Butanone)	2021/10/18	NC		%	50
			Methyl Isobutyl Ketone	2021/10/18	NC		%	50
			Methyl t-butyl ether (MTBE)	2021/10/18	NC		%	50
			Styrene	2021/10/18	NC		%	50
			1,1,1,2-Tetrachloroethane	2021/10/18	NC		%	50
			1,1,2,2-Tetrachloroethane	2021/10/18	NC		%	50
			Tetrachloroethylene	2021/10/18	NC		%	50
			Toluene	2021/10/18	0.41		%	50
			1,1,1-Trichloroethane	2021/10/18	NC		%	50
			1,1,2-Trichloroethane	2021/10/18	NC		%	50
			Trichloroethylene	2021/10/18	NC		%	50
			Trichlorofluoromethane (FREON 11)	2021/10/18	NC		%	50
			Vinyl Chloride	2021/10/18	NC		%	50
			p+m-Xylene	2021/10/18	NC		%	50
			o-Xylene	2021/10/18	NC		%	50
			Total Xylenes	2021/10/18	NC		%	50
			F1 (C6-C10)	2021/10/18	NC		%	30
			F1 (C6-C10) - BTEX	2021/10/18	NC		%	30
7643884	RGA	Matrix Spike	o-Terphenyl	2021/10/18		91	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/10/18		99	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2021/10/18		102	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2021/10/18		104	%	60 - 130
7643884	RGA	Spiked Blank	o-Terphenyl	2021/10/18		94	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/10/18		103	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2021/10/18		106	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2021/10/18		107	%	60 - 130
7643884	RGA	Method Blank	o-Terphenyl	2021/10/18		91	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/10/18	<100		ug/L	
			F3 (C16-C34 Hydrocarbons)	2021/10/18	<200		ug/L	
			F4 (C34-C50 Hydrocarbons)	2021/10/18	<200		ug/L	
7643884	RGA	RPD	F2 (C10-C16 Hydrocarbons)	2021/10/19	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2021/10/19	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2021/10/19	NC		%	30
7643885	JYO	Matrix Spike	D10-Anthracene	2021/10/19		110	%	50 - 130
			D14-Terphenyl (FS)	2021/10/19		109	%	50 - 130
			D8-Acenaphthylene	2021/10/19		96	%	50 - 130
			Acenaphthene	2021/10/19		91	%	50 - 130
			Acenaphthylene	2021/10/19		88	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Anthracene	2021/10/19		103	%	50 - 130
			Benzo(a)anthracene	2021/10/19		102	%	50 - 130
			Benzo(a)pyrene	2021/10/19		87	%	50 - 130
			Benzo(b/j)fluoranthene	2021/10/19		101	%	50 - 130
			Benzo(g,h,i)perylene	2021/10/19		102	%	50 - 130
			Benzo(k)fluoranthene	2021/10/19		106	%	50 - 130
			Chrysene	2021/10/19		100	%	50 - 130
			Dibenzo(a,h)anthracene	2021/10/19		95	%	50 - 130
			Fluoranthene	2021/10/19		118	%	50 - 130
			Fluorene	2021/10/19		94	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/10/19		102	%	50 - 130
			1-Methylnaphthalene	2021/10/19		97	%	50 - 130
			2-Methylnaphthalene	2021/10/19		91	%	50 - 130
			Naphthalene	2021/10/19		87	%	50 - 130
			Phenanthrene	2021/10/19		100	%	50 - 130
			Pyrene	2021/10/19		115	%	50 - 130
7643885	JYO	Spiked Blank	D10-Anthracene	2021/10/19		104	%	50 - 130
			D14-Terphenyl (FS)	2021/10/19		106	%	50 - 130
			D8-Acenaphthylene	2021/10/19		91	%	50 - 130
			Acenaphthene	2021/10/19		95	%	50 - 130
			Acenaphthylene	2021/10/19		93	%	50 - 130
			Anthracene	2021/10/19		107	%	50 - 130
			Benzo(a)anthracene	2021/10/19		106	%	50 - 130
			Benzo(a)pyrene	2021/10/19		92	%	50 - 130
			Benzo(b/j)fluoranthene	2021/10/19		108	%	50 - 130
			Benzo(g,h,i)perylene	2021/10/19		109	%	50 - 130
			Benzo(k)fluoranthene	2021/10/19		112	%	50 - 130
			Chrysene	2021/10/19		105	%	50 - 130
			Dibenzo(a,h)anthracene	2021/10/19		102	%	50 - 130
			Fluoranthene	2021/10/19		127	%	50 - 130
			Fluorene	2021/10/19		97	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/10/19		110	%	50 - 130
			1-Methylnaphthalene	2021/10/19		100	%	50 - 130
			2-Methylnaphthalene	2021/10/19		92	%	50 - 130
			Naphthalene	2021/10/19		89	%	50 - 130
			Phenanthrene	2021/10/19		104	%	50 - 130
			Pyrene	2021/10/19		121	%	50 - 130
7643885	JYO	Method Blank	D10-Anthracene	2021/10/19		118	%	50 - 130
			D14-Terphenyl (FS)	2021/10/19		115	%	50 - 130
			D8-Acenaphthylene	2021/10/19		93	%	50 - 130
			Acenaphthene	2021/10/19	<0.050		ug/L	
			Acenaphthylene	2021/10/19	<0.050		ug/L	
			Anthracene	2021/10/19	<0.050		ug/L	
			Benzo(a)anthracene	2021/10/19	<0.050		ug/L	
			Benzo(a)pyrene	2021/10/19	<0.0090		ug/L	
			Benzo(b/j)fluoranthene	2021/10/19	<0.050		ug/L	
			Benzo(g,h,i)perylene	2021/10/19	<0.050		ug/L	
			Benzo(k)fluoranthene	2021/10/19	<0.050		ug/L	
			Chrysene	2021/10/19	<0.050		ug/L	
			Dibenzo(a,h)anthracene	2021/10/19	<0.050		ug/L	
			Fluoranthene	2021/10/19	<0.050		ug/L	
			Fluorene	2021/10/19	<0.050		ug/L	
			Indeno(1,2,3-cd)pyrene	2021/10/19	<0.050		ug/L	
			1-Methylnaphthalene	2021/10/19	<0.050		ug/L	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			2-Methylnaphthalene	2021/10/19	<0.050		ug/L	
			Naphthalene	2021/10/19	<0.050		ug/L	
			Phenanthrene	2021/10/19	<0.030		ug/L	
			Pyrene	2021/10/19	<0.050		ug/L	
7643885	JYO	RPD	Acenaphthene	2021/10/19	NC		%	30
			Acenaphthylene	2021/10/19	NC		%	30
			Anthracene	2021/10/19	NC		%	30
			Benzo(a)anthracene	2021/10/19	NC		%	30
			Benzo(a)pyrene	2021/10/19	NC		%	30
			Benzo(b/j)fluoranthene	2021/10/19	NC		%	30
			Benzo(g,h,i)perylene	2021/10/19	NC		%	30
			Benzo(k)fluoranthene	2021/10/19	NC		%	30
			Chrysene	2021/10/19	NC		%	30
			Dibenzo(a,h)anthracene	2021/10/19	NC		%	30
			Fluoranthene	2021/10/19	NC		%	30
			Fluorene	2021/10/19	NC		%	30
			Indeno(1,2,3-cd)pyrene	2021/10/19	NC		%	30
			1-Methylnaphthalene	2021/10/19	NC		%	30
			2-Methylnaphthalene	2021/10/19	NC		%	30
			Naphthalene	2021/10/19	NC		%	30
			Phenanthrene	2021/10/19	NC		%	30
			Pyrene	2021/10/19	NC		%	30
7644377	RGA	Matrix Spike	o-Terphenyl	2021/10/19		84	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/10/19		NC	%	50 - 130
			F3 (C16-C34 Hydrocarbons)	2021/10/19		NC	%	50 - 130
			F4 (C34-C50 Hydrocarbons)	2021/10/19		NC	%	50 - 130
7644377	RGA	Spiked Blank	o-Terphenyl	2021/10/19		85	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/10/19		88	%	80 - 120
			F3 (C16-C34 Hydrocarbons)	2021/10/19		89	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2021/10/19		90	%	80 - 120
7644377	RGA	Method Blank	o-Terphenyl	2021/10/19		86	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/10/19	<10		ug/g	
			F3 (C16-C34 Hydrocarbons)	2021/10/19	<50		ug/g	
			F4 (C34-C50 Hydrocarbons)	2021/10/19	<50		ug/g	
7644377	RGA	RPD	F2 (C10-C16 Hydrocarbons)	2021/10/19	36 (2)		%	30
			F3 (C16-C34 Hydrocarbons)	2021/10/19	39 (2)		%	30
			F4 (C34-C50 Hydrocarbons)	2021/10/19	38 (2)		%	30
7646770	JYO	Matrix Spike	D10-Anthracene	2021/10/20		93	%	50 - 130
			D14-Terphenyl (FS)	2021/10/20		92	%	50 - 130
			D8-Acenaphthylene	2021/10/20		86	%	50 - 130
			Acenaphthene	2021/10/20		98	%	50 - 130
			Acenaphthylene	2021/10/20		95	%	50 - 130
			Anthracene	2021/10/20		102	%	50 - 130
			Benzo(a)anthracene	2021/10/20		107	%	50 - 130
			Benzo(a)pyrene	2021/10/20		94	%	50 - 130
			Benzo(b/j)fluoranthene	2021/10/20		96	%	50 - 130
			Benzo(g,h,i)perylene	2021/10/20		99	%	50 - 130
			Benzo(k)fluoranthene	2021/10/20		118	%	50 - 130
			Chrysene	2021/10/20		105	%	50 - 130
			Dibenzo(a,h)anthracene	2021/10/20		96	%	50 - 130
			Fluoranthene	2021/10/20		103	%	50 - 130
			Fluorene	2021/10/20		104	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/10/20		103	%	50 - 130
			1-Methylnaphthalene	2021/10/20		90	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			2-Methylnaphthalene	2021/10/20		89	%	50 - 130
			Naphthalene	2021/10/20		76	%	50 - 130
			Phenanthrene	2021/10/20		102	%	50 - 130
			Pyrene	2021/10/20		100	%	50 - 130
7646770	JYO	Spiked Blank	D10-Anthracene	2021/10/20		102	%	50 - 130
			D14-Terphenyl (FS)	2021/10/20		97	%	50 - 130
			D8-Acenaphthylene	2021/10/20		77	%	50 - 130
			Acenaphthene	2021/10/20		101	%	50 - 130
			Acenaphthylene	2021/10/20		100	%	50 - 130
			Anthracene	2021/10/20		114	%	50 - 130
			Benzo(a)anthracene	2021/10/20		112	%	50 - 130
			Benzo(a)pyrene	2021/10/20		99	%	50 - 130
			Benzo(b/j)fluoranthene	2021/10/20		110	%	50 - 130
			Benzo(g,h,i)perylene	2021/10/20		107	%	50 - 130
			Benzo(k)fluoranthene	2021/10/20		112	%	50 - 130
			Chrysene	2021/10/20		116	%	50 - 130
			Dibenzo(a,h)anthracene	2021/10/20		97	%	50 - 130
			Fluoranthene	2021/10/20		110	%	50 - 130
			Fluorene	2021/10/20		109	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/10/20		112	%	50 - 130
			1-Methylnaphthalene	2021/10/20		97	%	50 - 130
			2-Methylnaphthalene	2021/10/20		95	%	50 - 130
			Naphthalene	2021/10/20		77	%	50 - 130
			Phenanthrene	2021/10/20		110	%	50 - 130
			Pyrene	2021/10/20		108	%	50 - 130
7646770	JYO	Method Blank	D10-Anthracene	2021/10/20		108	%	50 - 130
			D14-Terphenyl (FS)	2021/10/20		99	%	50 - 130
			D8-Acenaphthylene	2021/10/20		65	%	50 - 130
			Acenaphthene	2021/10/20	<0.0050		ug/g	
			Acenaphthylene	2021/10/20	<0.0050		ug/g	
			Anthracene	2021/10/20	<0.0050		ug/g	
			Benzo(a)anthracene	2021/10/20	<0.0050		ug/g	
			Benzo(a)pyrene	2021/10/20	<0.0050		ug/g	
			Benzo(b/j)fluoranthene	2021/10/20	<0.0050		ug/g	
			Benzo(g,h,i)perylene	2021/10/20	<0.0050		ug/g	
			Benzo(k)fluoranthene	2021/10/20	<0.0050		ug/g	
			Chrysene	2021/10/20	<0.0050		ug/g	
			Dibenzo(a,h)anthracene	2021/10/20	<0.0050		ug/g	
			Fluoranthene	2021/10/20	<0.0050		ug/g	
			Fluorene	2021/10/20	<0.0050		ug/g	
			Indeno(1,2,3-cd)pyrene	2021/10/20	<0.0050		ug/g	
			1-Methylnaphthalene	2021/10/20	<0.0050		ug/g	
			2-Methylnaphthalene	2021/10/20	<0.0050		ug/g	
			Naphthalene	2021/10/20	<0.0050		ug/g	
			Phenanthrene	2021/10/20	<0.0050		ug/g	
			Pyrene	2021/10/20	<0.0050		ug/g	
7646770	JYO	RPD	Acenaphthene	2021/10/20	NC		%	40
			Acenaphthylene	2021/10/20	NC		%	40
			Anthracene	2021/10/20	NC		%	40
			Benzo(a)anthracene	2021/10/20	NC		%	40
			Benzo(a)pyrene	2021/10/20	NC		%	40
			Benzo(b/j)fluoranthene	2021/10/20	NC		%	40
			Benzo(g,h,i)perylene	2021/10/20	NC		%	40
			Benzo(k)fluoranthene	2021/10/20	NC		%	40

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Chrysene	2021/10/20	NC		%	40
			Dibenzo(a,h)anthracene	2021/10/20	NC		%	40
			Fluoranthene	2021/10/20	NC		%	40
			Fluorene	2021/10/20	NC		%	40
			Indeno(1,2,3-cd)pyrene	2021/10/20	NC		%	40
			1-Methylnaphthalene	2021/10/20	NC		%	40
			2-Methylnaphthalene	2021/10/20	NC		%	40
			Naphthalene	2021/10/20	NC		%	40
			Phenanthrene	2021/10/20	NC		%	40
			Pyrene	2021/10/20	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.

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)

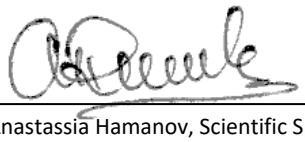
NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) The recovery was below the lower control limit. This may represent a low bias in some results for this specific analyte.

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

VALIDATION SIGNATURE PAGE

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



Anastassia Hamanov, Scientific Specialist

BV Labs 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 Laboratories 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvna.com

Affix Job Label Here

Presence of Visible Particulate/Sediment

Maxxam Analytics
CAM FCD-01013/5
Page 1 of 1

When there is >1cm of visible particulate/sediment, the amount will be recorded in the field below

	Sample ID	All	Bottle Types: Inorganics					Organics										Hydrocarbons							Volatiles				Other
			CrVI	CN	General	Hg	Metals (Diss.)	Organic 1 of 2	Organic 2 of 2	PCB 1 of 2	PCB 2 of 2	Pest/ Herb 1 of 2	Pest/ Herb 2 of 2	SVOC/ ABN 1 of 2	SVOC/ ABN 2 of 2	PAH 1 of 2	PAH 2 of 2	Dioxin /Furan	F1 Vial 1	F1 Vial 2	F1 Vial 3	F1 Vial 4	F2-F4 1 of 2	F2-F4 2 of 2	F4G	VOC Vial 1	VOC Vial 2	VOC Vial 3	VOC Vial 4	
1	BHMW125	TS																										
2	BHM127	TS																										
3	TRIP BLANK	TS																										
4																												
5																												
6																												
7																												
8																												
9																												
10																												

Comments:

Legend:

P	Suspended Particulate
TS	Trace Settled Sediment (just covers bottom of container or less)
S	Sediment greater than (>) Trace, but less than (<) 1 cm

Recorded By: (signature/print) MUSEAU

Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel (905) 817-5700 Toll-free 800-563-6266 Fax (905) 817-5777 www.bvlabs.com

CHAIN OF CUSTODY RECORD

Page 1 of 1

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#982 Pinchin Ltd	Company Name:		Quotation #:	A70927	BV Labs Job #:	Bottle Order #: 832329
Attention:	Accounts Payable	Attention:	Matt, Ryan, Mike	P.O. #:			
Address:	1 Hines Road Suite 200 Kanata ON K2K 3C7	Address:		Project:	285722.003	COC #: C#832329-06-01	Project Manager: Antonella Brasil
Tel:	(613) 592-3387 Fax: (613) 592-5897	Tel:	Fax:	Project Name:			
Email:	ap@pinchin.com	Email:	mkosiw@Pinchin.com, rlaronde@pinchin.com; mryan@	Site #:			
				Sampled By:	MKosiw		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☒ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☑ Coarse ☒ Table 3 ☐ Agri/Other ☒ For RSC ☐ Table ___	☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ___ ☐ PWQO ☐ Reg 406 Table ___ ☐ Other ___	

Include Criteria on Certificate of Analysis (Y/N)? N

Turnaround Time (TAT) Required
Please provide advance notice for rush projects

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 Dioxins/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 #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	O Reg 153 Metals & Inorganics Pkg (Soil)	O Reg 153 VOCs by HS & F1-F4 (Soil)	O Reg 153 PCBs (Soil)	O Reg 153 PAHs (Soil)	O Reg 153 Semivolatiles Package (Soil)	Acid Extractables by GC/MS	O Reg 153 OC Pesticides (Soil)	# of Bottles	Comments
1		BHMW125 SS-7	Oct 6 2021		Soil			X		X				2	PHCs F1-F4 VOCs
2		BHMW126 SS-1	↓		↓			X		X				2	PAHs
3		BHMW127 SS6	↓		↓			X		X				2	↓
4															
5		BHMW125	Oct 12		GW			X		X				5	PHCs, VOCs, PAHs
6		BHMW27	↓		↓			X		X				5	↓
7		Trip Blank	↓		↓			X						2	Trip Black VOCs/F1
8															
9															
10															

13-Oct-21 16:20
Antonella Brasil
C1T8290

RECEIVED IN OTTAWA
On Ice OWW 2021/10/13

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time
	Oct 13 2021	930 Am		2021/10/13	16:20
				2021/10/13	16:20

ENV 1528 not submitted

Time Sensitive

Laboratory Use Only
Temperature (°C) on Recei: 6, 6, 6

Custody Seal	Yes	No
Present	Y	
Intact	Y	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

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

White: BV Labs Yellow: Client

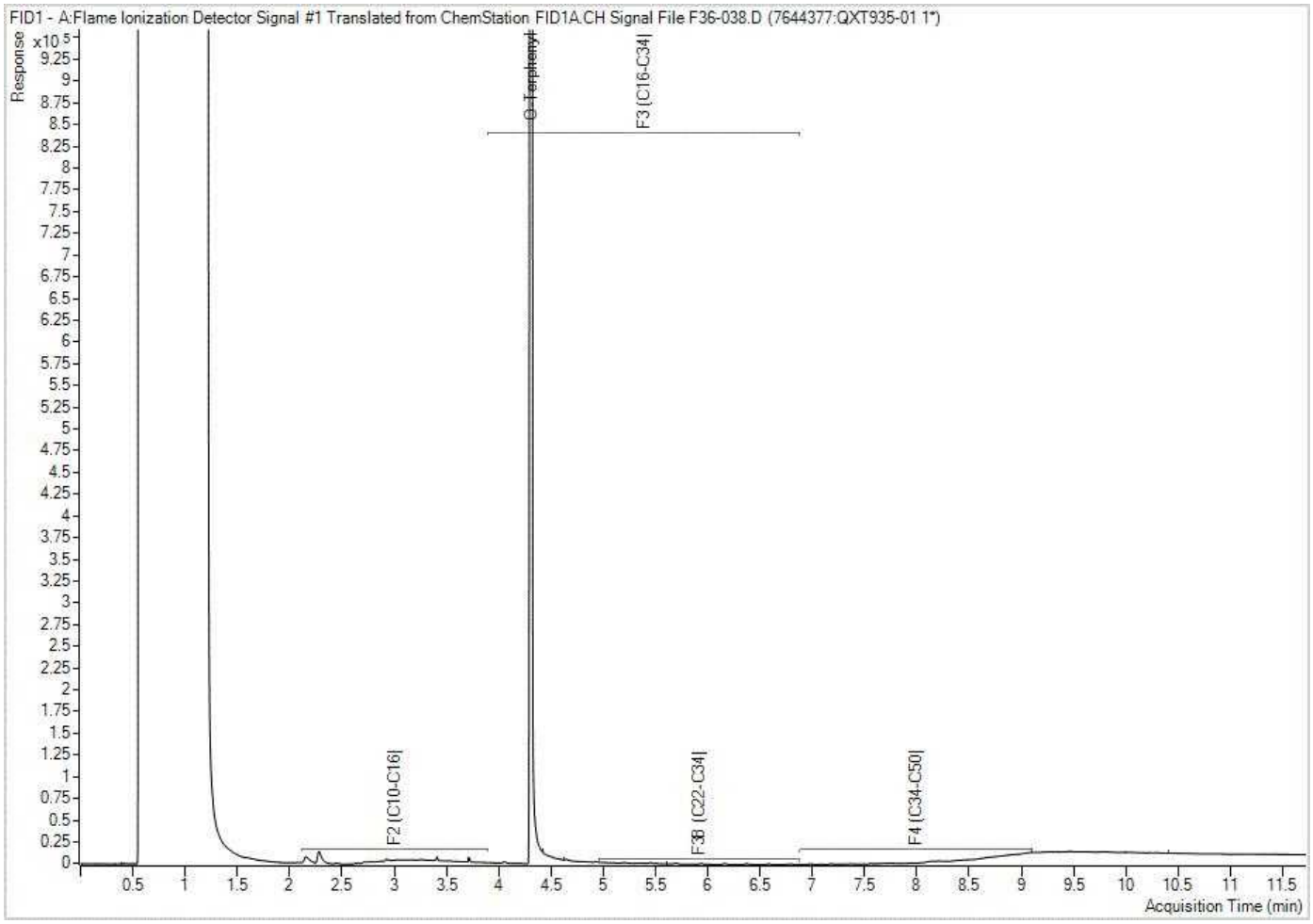
Bureau Veritas Canada (2019) Inc.

7/6/6

Bureau Veritas Job #: C1T8290
Report Date: 2021/10/21
Bureau Veritas Sample: QXT935

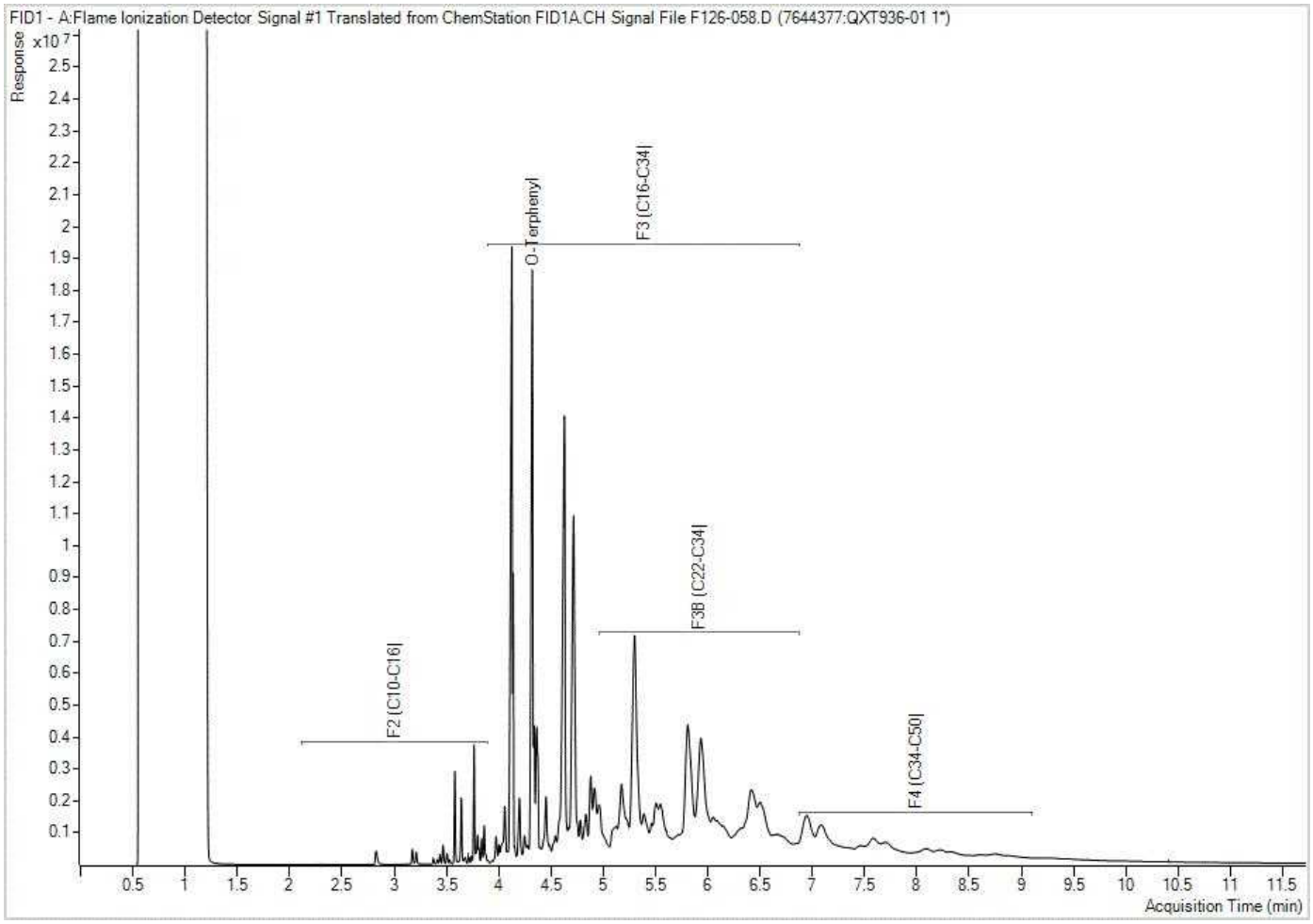
Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW125 SS-7

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



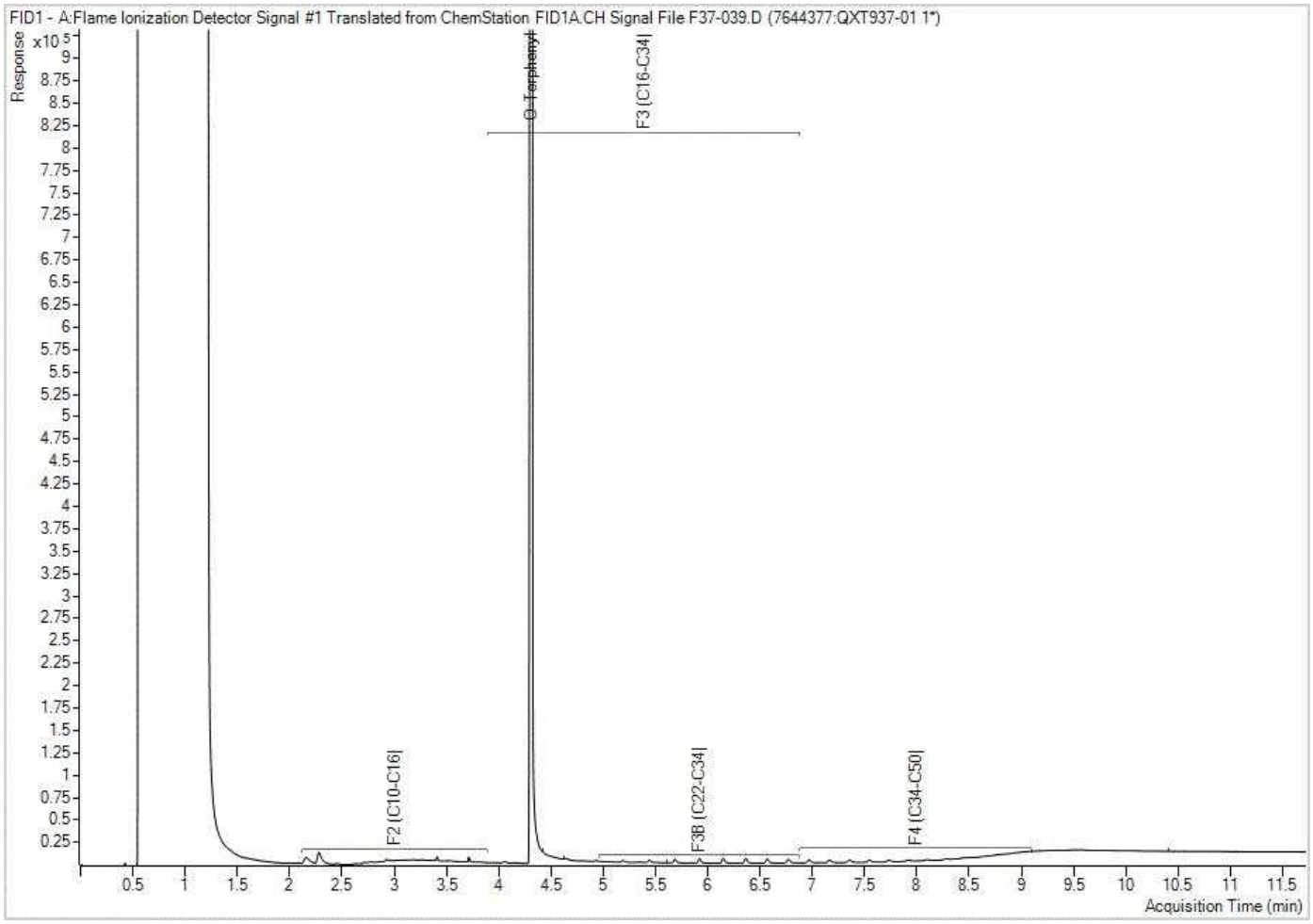
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

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

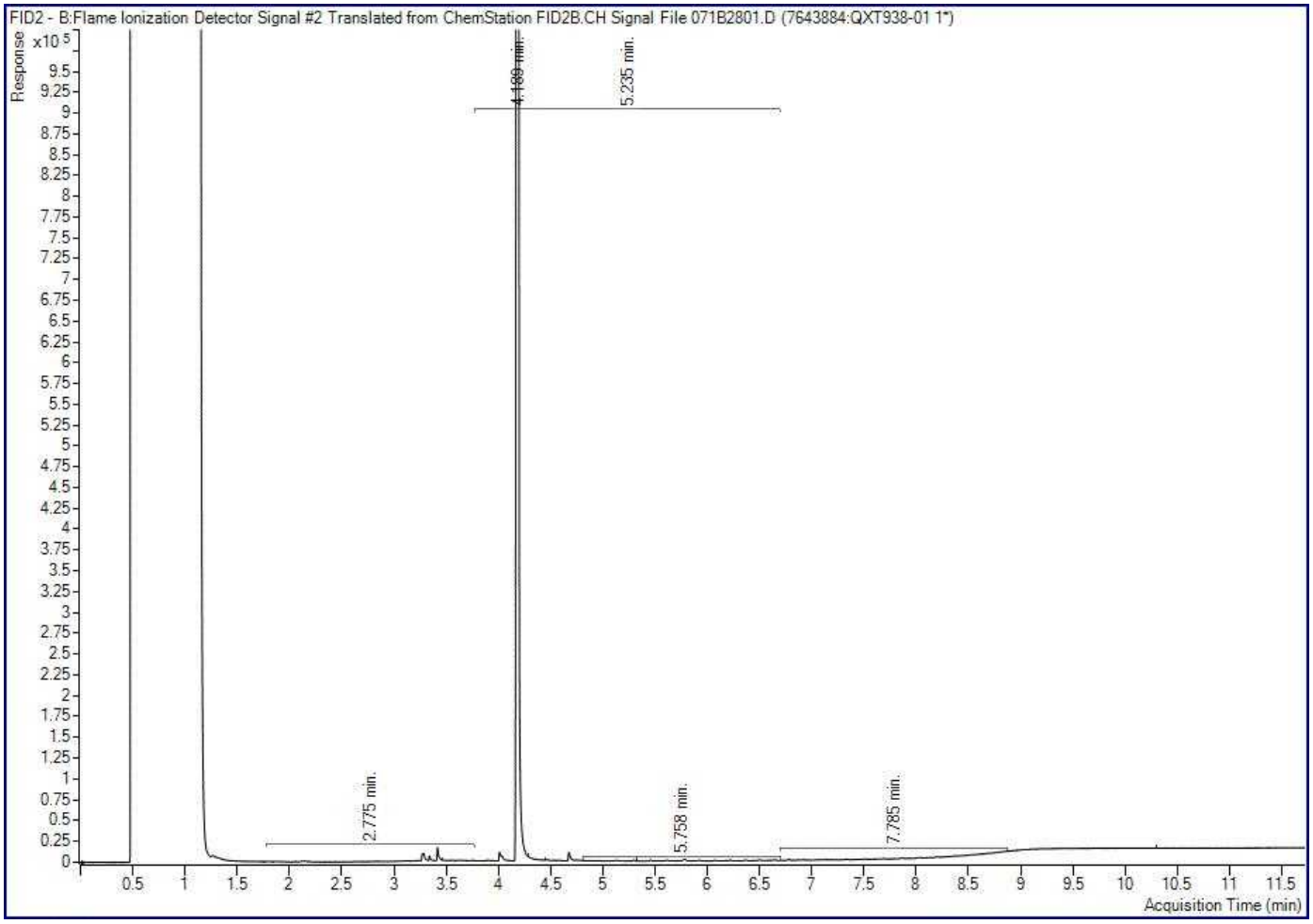


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C1T8290
Report Date: 2021/10/21
Bureau Veritas Sample: QXT938

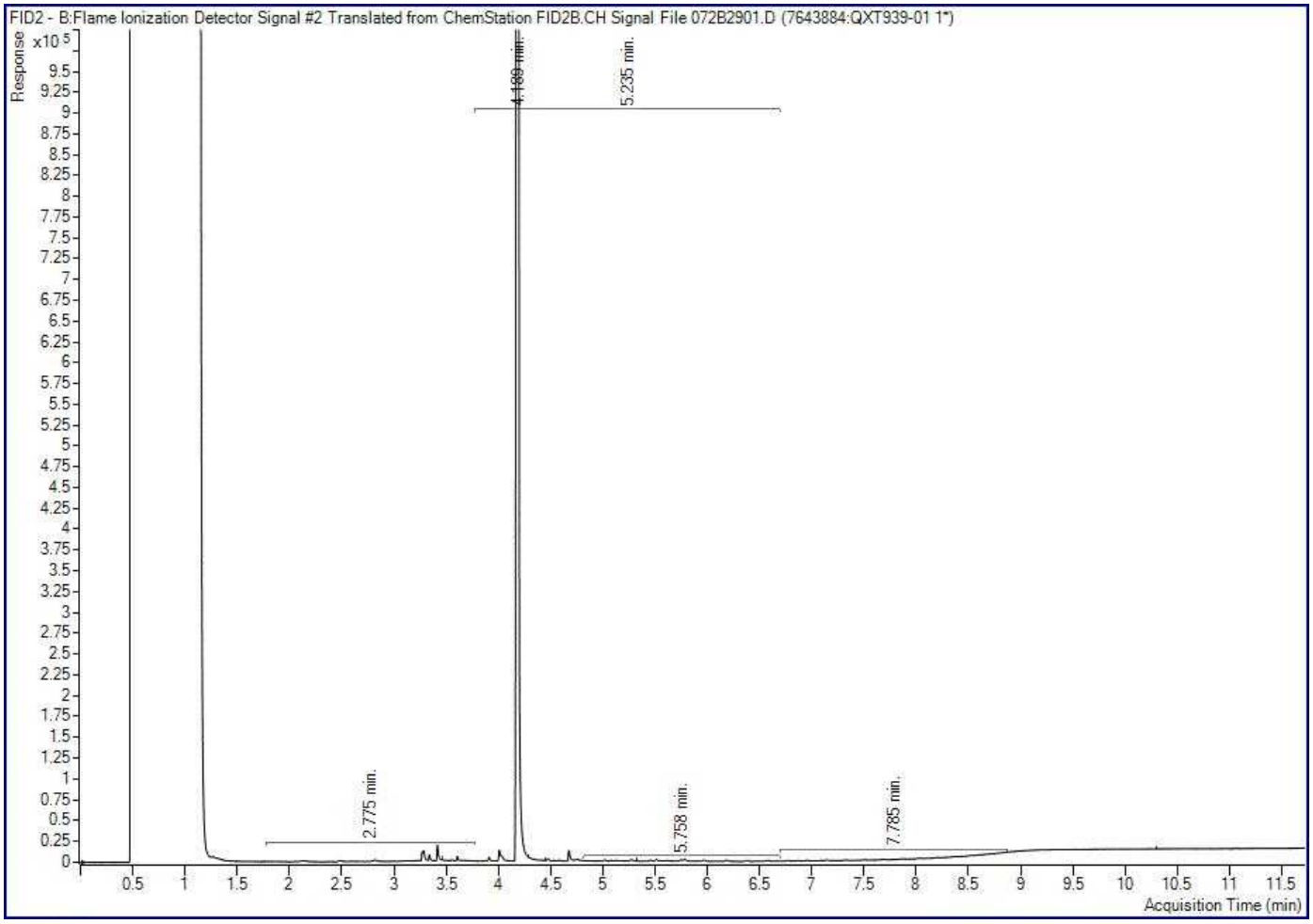
Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW125

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 #: 285722.003
Your C.O.C. #: 832329-10-01

Attention: Matt, Ryan, Mike

Pinchin Ltd
Ottawa
1 Hines Road
Suite 200
Kanata, ON
CANADA K2K 3C7

Report Date: 2022/01/11
Report #: R6957984
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1Y3876
Received: 2021/12/08, 14:28

Sample Matrix: Ground Water
Samples Received: 10

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
1,3-Dichloropropene Sum (1)	8	N/A	2021/12/16		EPA 8260C m
Chloride by Automated Colourimetry (1)	1	N/A	2021/12/14	CAM SOP-00463	SM 23 4500-Cl E m
Petroleum Hydrocarbons F2-F4 in Water (1, 2)	9	2021/12/13	2021/12/14	CAM SOP-00316	CCME PHC-CWS m
Dissolved Metals Analysis by ICP (1)	1	2021/12/16	2022/01/11	CAM SOP-00408	EPA 6010D m
Volatile Organic Compounds and F1 PHCs (1)	7	N/A	2021/12/15	CAM SOP-00230	EPA 8260C m
Volatile Organic Compounds and F1 PHCs (1)	1	N/A	2021/12/16	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.

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) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8
(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas Laboratories 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

Your Project #: 285722.003
Your C.O.C. #: 832329-10-01

Attention: Matt, Ryan, Mike

Pinchin Ltd
Ottawa
1 Hines Road
Suite 200
Kanata, ON
CANADA K2K 3C7

Report Date: 2022/01/11
Report #: R6957984
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1Y3876
Received: 2021/12/08, 14:28
Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

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
==========
BV Labs 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.

RESULTS OF ANALYSES OF GROUND WATER

Bureau Veritas ID		RHL821			
Sampling Date		2021/11/30			
COC Number		832329-10-01			
	UNITS	**BHMW124**	**RDL**	**MDL**	**QC Batch**
Inorganics					
Dissolved Chloride (Cl-)	mg/L	3100	50	15	7723363

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

ELEMENTS BY ATOMIC SPECTROSCOPY (GROUND WATER)

Bureau Veritas ID		RHL821			
Sampling Date		2021/11/30			
COC Number		832329-10-01			
	UNITS	**BHMW124**	**RDL**	**MDL**	**QC Batch**
Metals					
Dissolved Sodium (Na)	ug/L	1600000	5000	N/A	7733717

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

Bureau Veritas Laboratories 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvna.com

VOLATILE ORGANICS BY GC/MS (GROUND WATER)

Bureau Veritas ID		RHL818	RHL819	RHL820	RHL820	RHL822			
Sampling Date		2021/12/02	2021/11/30	2021/11/30	2021/11/30	2021/11/30			
COC Number		832329-10-01	832329-10-01	832329-10-01	832329-10-01	832329-10-01			
	UNITS	BHMW120	BHMW116	DUP301	DUP301 Lab-Dup	BHMW110	RDL	MDL	QC Batch
Volatile Organics									
Acetone (2-Propanone)	ug/L	<10	<10	<10	<10	17	10	1.0	7724026
Benzene	ug/L	<0.17	0.35	<0.17	<0.17	<0.17	0.17	0.020	7724026
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.050	7724026
Bromoform	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	0.10	7724026
Bromomethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.10	7724026
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.050	7724026
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.010	7724026
Chloroform	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.050	7724026
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.050	7724026
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.050	7724026
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.050	7724026
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.050	7724026
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	0.050	7724026
1,1-Dichloroethane	ug/L	<0.20	0.62	<0.20	<0.20	<0.20	0.20	0.050	7724026
1,2-Dichloroethane	ug/L	3.6	22	<0.50	<0.50	<0.50	0.50	0.020	7724026
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.050	7724026
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.050	7724026
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.050	7724026
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.050	7724026
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	0.050	7724026
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	0.050	7724026
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.010	7724026
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.050	7724026
Hexane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	0.10	7724026
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	0.10	7724026
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	<10	12	10	0.50	7724026
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	0.10	7724026
Methyl t-butyl ether (MTBE)	ug/L	38	130	<0.50	<0.50	<0.50	0.50	0.050	7724026
Styrene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.050	7724026
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.050	7724026
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.050	7724026
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.050	7724026
Toluene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.010	7724026
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.050	7724026
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.050	7724026

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

VOLATILE ORGANICS BY GC/MS (GROUND WATER)

Bureau Veritas ID		RHL818	RHL819	RHL820	RHL820	RHL822			
Sampling Date		2021/12/02	2021/11/30	2021/11/30	2021/11/30	2021/11/30			
COC Number		832329-10-01	832329-10-01	832329-10-01	832329-10-01	832329-10-01			
	UNITS	**BHMW120**	**BHMW116**	**DUP301**	**DUP301 Lab-Dup**	**BHMW110**	**RDL**	**MDL**	**QC Batch**
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.050	7724026
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.10	7724026
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.050	7724026
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.010	7724026
o-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.010	7724026
Total Xylenes	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.010	7724026
F1 (C6-C10)	ug/L	<25	<25	<25	<25	28	25	20	7724026
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	<25	28	25	20	7724026
Surrogate Recovery (%)									
4-Bromofluorobenzene	%	77	73	77	74	84			7724026
D4-1,2-Dichloroethane	%	103	106	106	109	106			7724026
D8-Toluene	%	100	103	101	100	99			7724026

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

VOLATILE ORGANICS BY GC/MS (GROUND WATER)

Bureau Veritas ID		RHL823	RHL824	RHL825	RHL826			
Sampling Date		2021/11/30	2021/11/30	2021/11/30	2021/11/30			
COC Number		832329-10-01	832329-10-01	832329-10-01	832329-10-01			
	UNITS	BHMW119	BHMW122	BHMW108	BHMW115	RDL	MDL	QC Batch
Volatile Organics								
Acetone (2-Propanone)	ug/L	<10	<10	15	<10	10	1.0	7724026
Benzene	ug/L	0.27	<0.17	74	14	0.17	0.020	7724026
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	0.050	7724026
Bromoform	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	0.10	7724026
Bromomethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	0.10	7724026
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	0.050	7724026
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	0.010	7724026
Chloroform	ug/L	0.53	<0.20	<0.20	<0.20	0.20	0.050	7724026
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	0.050	7724026
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	0.050	7724026
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	0.050	7724026
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	0.050	7724026
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	<1.0	1.0	0.050	7724026
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	0.050	7724026
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	0.020	7724026
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	0.050	7724026
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	0.050	7724026
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	0.050	7724026
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	0.050	7724026
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	<0.30	0.30	0.050	7724026
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	<0.40	0.40	0.050	7724026
Ethylbenzene	ug/L	0.36	<0.20	39	1.2	0.20	0.010	7724026
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	0.050	7724026
Hexane	ug/L	<1.0	<1.0	3.3	<1.0	1.0	0.10	7724026
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	0.10	7724026
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	<10	10	0.50	7724026
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	89	<5.0	5.0	0.10	7724026
Methyl t-butyl ether (MTBE)	ug/L	7.1	<0.50	<0.50	10	0.50	0.050	7724026
Styrene	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	0.050	7724026
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	0.050	7724026
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	0.050	7724026
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	0.050	7724026
Toluene	ug/L	0.27	<0.20	19	0.98	0.20	0.010	7724026
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	0.050	7724026
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	0.050	7724026
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	0.050	7724026

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (GROUND WATER)

Bureau Veritas ID		RHL823	RHL824	RHL825	RHL826			
Sampling Date		2021/11/30	2021/11/30	2021/11/30	2021/11/30			
COC Number		832329-10-01	832329-10-01	832329-10-01	832329-10-01			
	UNITS	BHMW119	BHMW122	BHMW108	BHMW115	RDL	MDL	QC Batch
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	0.10	7724026
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	0.050	7724026
p+m-Xylene	ug/L	0.78	<0.20	100	0.74	0.20	0.010	7724026
o-Xylene	ug/L	0.21	<0.20	21	<0.20	0.20	0.010	7724026
Total Xylenes	ug/L	0.99	<0.20	120	0.74	0.20	0.010	7724026
F1 (C6-C10)	ug/L	<25	<25	730	54	25	20	7724026
F1 (C6-C10) - BTEX	ug/L	<25	<25	480	37	25	20	7724026
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	77	76	104	80			7724026
D4-1,2-Dichloroethane	%	105	108	101	102			7724026
D8-Toluene	%	101	101	112	102			7724026

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Bureau Veritas ID		RHL818	RHL819				RHL819			
Sampling Date		2021/12/02	2021/11/30				2021/11/30			
COC Number		832329-10-01	832329-10-01				832329-10-01			
	UNITS	BHMW120	BHMW116	RDL	MDL	QC Batch	BHMW116 Lab-Dup	RDL	MDL	QC Batch
Calculated Parameters										
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	0.50	0.50	7716316				
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	50	7722846	<100	100	50	7722846
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	70	7722846	<200	200	70	7722846
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	50	7722846	<200	200	50	7722846
Reached Baseline at C50	ug/L	Yes	Yes			7722846	Yes			7722846
Surrogate Recovery (%)										
o-Terphenyl	%	108	107			7722846	109			7722846

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		RHL820	RHL822	RHL823	RHL824	RHL825			
Sampling Date		2021/11/30	2021/11/30	2021/11/30	2021/11/30	2021/11/30			
COC Number		832329-10-01	832329-10-01	832329-10-01	832329-10-01	832329-10-01			
	UNITS	DUP301	BHMW110	BHMW119	BHMW122	BHMW108	RDL	MDL	QC Batch
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.50	7716316
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	110	100	50	7722846
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	<200	<200	200	70	7722846
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	<200	<200	200	50	7722846
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes	Yes			7722846
Surrogate Recovery (%)									
o-Terphenyl	%	106	107	109	108	106			7722846

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Bureau Veritas ID		RHL826				RHL827			
Sampling Date		2021/11/30				2021/11/30			
COC Number		832329-10-01				832329-10-01			
	UNITS	BHMW115	RDL	MDL	QC Batch	TRIP BLANK	RDL	MDL	QC Batch
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	0.50	0.50	7716316				
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/L	330	100	50	7722846	<100	100	50	7722846
F3 (C16-C34 Hydrocarbons)	ug/L	28000	200	70	7722846	<200	200	70	7722846
F4 (C34-C50 Hydrocarbons)	ug/L	3600	200	50	7722846	<200	200	50	7722846
Reached Baseline at C50	ug/L	Yes			7722846	Yes			7722846
Surrogate Recovery (%)									
o-Terphenyl	%	107			7722846	106			7722846

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

TEST SUMMARY

Bureau Veritas ID: RHL818 **Collected:** 2021/12/02
Sample ID: BHMW120 **Shipped:**
Matrix: Ground Water **Received:** 2021/12/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7716316	N/A	2021/12/16	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7722846	2021/12/13	2021/12/14	Anna Stuglik-Rolland
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7724026	N/A	2021/12/16	Xueming Jiang

Bureau Veritas ID: RHL819 **Collected:** 2021/11/30
Sample ID: BHMW116 **Shipped:**
Matrix: Ground Water **Received:** 2021/12/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7716316	N/A	2021/12/16	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7722846	2021/12/13	2021/12/14	Anna Stuglik-Rolland
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7724026	N/A	2021/12/15	Xueming Jiang

Bureau Veritas ID: RHL819 Dup **Collected:** 2021/11/30
Sample ID: BHMW116 **Shipped:**
Matrix: Ground Water **Received:** 2021/12/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7722846	2021/12/13	2021/12/14	Anna Stuglik-Rolland

Bureau Veritas ID: RHL820 **Collected:** 2021/11/30
Sample ID: DUP301 **Shipped:**
Matrix: Ground Water **Received:** 2021/12/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7716316	N/A	2021/12/16	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7722846	2021/12/13	2021/12/14	Anna Stuglik-Rolland
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7724026	N/A	2021/12/15	Xueming Jiang

Bureau Veritas ID: RHL820 Dup **Collected:** 2021/11/30
Sample ID: DUP301 **Shipped:**
Matrix: Ground Water **Received:** 2021/12/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7724026	N/A	2021/12/15	Xueming Jiang

Bureau Veritas ID: RHL821 **Collected:** 2021/11/30
Sample ID: BHMW124 **Shipped:**
Matrix: Ground Water **Received:** 2021/12/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	7723363	N/A	2021/12/14	Alina Dobreanu
Dissolved Metals Analysis by ICP	ICP	7733717	2021/12/16	2022/01/11	Suban Kanapathippllai

TEST SUMMARY

Bureau Veritas ID: RHL822 **Collected:** 2021/11/30
Sample ID: BHMW110 **Shipped:**
Matrix: Ground Water **Received:** 2021/12/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7716316	N/A	2021/12/16	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7722846	2021/12/13	2021/12/14	Anna Stuglik-Rolland
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7724026	N/A	2021/12/15	Xueming Jiang

Bureau Veritas ID: RHL823 **Collected:** 2021/11/30
Sample ID: BHMW119 **Shipped:**
Matrix: Ground Water **Received:** 2021/12/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7716316	N/A	2021/12/16	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7722846	2021/12/13	2021/12/14	Anna Stuglik-Rolland
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7724026	N/A	2021/12/15	Xueming Jiang

Bureau Veritas ID: RHL824 **Collected:** 2021/11/30
Sample ID: BHMW122 **Shipped:**
Matrix: Ground Water **Received:** 2021/12/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7716316	N/A	2021/12/16	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7722846	2021/12/13	2021/12/14	Anna Stuglik-Rolland
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7724026	N/A	2021/12/15	Xueming Jiang

Bureau Veritas ID: RHL825 **Collected:** 2021/11/30
Sample ID: BHMW108 **Shipped:**
Matrix: Ground Water **Received:** 2021/12/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7716316	N/A	2021/12/16	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7722846	2021/12/13	2021/12/14	Anna Stuglik-Rolland
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7724026	N/A	2021/12/15	Xueming Jiang

Bureau Veritas ID: RHL826 **Collected:** 2021/11/30
Sample ID: BHMW115 **Shipped:**
Matrix: Ground Water **Received:** 2021/12/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7716316	N/A	2021/12/16	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7722846	2021/12/13	2021/12/14	Anna Stuglik-Rolland
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7724026	N/A	2021/12/15	Xueming Jiang

Bureau Veritas ID: RHL827 **Collected:** 2021/11/30
Sample ID: TRIP BLANK **Shipped:**
Matrix: Ground Water **Received:** 2021/12/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7722846	2021/12/13	2021/12/14	Anna Stuglik-Rolland

GENERAL COMMENTS

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

Package 1	4.7°C

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7722846	AS2	Matrix Spike [RHL818-01]	o-Terphenyl	2021/12/14		109	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/12/14		102	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2021/12/14		104	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2021/12/14		108	%	60 - 130
7722846	AS2	Spiked Blank	o-Terphenyl	2021/12/14		109	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/12/14		101	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2021/12/14		104	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2021/12/14		108	%	60 - 130
7722846	AS2	Method Blank	o-Terphenyl	2021/12/14		106	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/12/14	<100		ug/L	
			F3 (C16-C34 Hydrocarbons)	2021/12/14	<200		ug/L	
			F4 (C34-C50 Hydrocarbons)	2021/12/14	<200		ug/L	
7722846	AS2	RPD [RHL819-01]	F2 (C10-C16 Hydrocarbons)	2021/12/14	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2021/12/14	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2021/12/14	NC		%	30
7723363	ADB	Matrix Spike	Dissolved Chloride (Cl-)	2021/12/14		NC	%	80 - 120
7723363	ADB	Spiked Blank	Dissolved Chloride (Cl-)	2021/12/14		103	%	80 - 120
7723363	ADB	Method Blank	Dissolved Chloride (Cl-)	2021/12/14	<1.0		mg/L	
7723363	ADB	RPD	Dissolved Chloride (Cl-)	2021/12/14	2.3		%	20
7724026	XJI	Matrix Spike [RHL819-02]	4-Bromofluorobenzene	2021/12/15		108	%	70 - 130
			D4-1,2-Dichloroethane	2021/12/15		106	%	70 - 130
			D8-Toluene	2021/12/15		99	%	70 - 130
			Acetone (2-Propanone)	2021/12/15		99	%	60 - 140
			Benzene	2021/12/15		81	%	70 - 130
			Bromodichloromethane	2021/12/15		94	%	70 - 130
			Bromoform	2021/12/15		91	%	70 - 130
			Bromomethane	2021/12/15		91	%	60 - 140
			Carbon Tetrachloride	2021/12/15		88	%	70 - 130
			Chlorobenzene	2021/12/15		90	%	70 - 130
			Chloroform	2021/12/15		90	%	70 - 130
			Dibromochloromethane	2021/12/15		88	%	70 - 130
			1,2-Dichlorobenzene	2021/12/15		90	%	70 - 130
			1,3-Dichlorobenzene	2021/12/15		91	%	70 - 130
			1,4-Dichlorobenzene	2021/12/15		80	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2021/12/15		82	%	60 - 140
			1,1-Dichloroethane	2021/12/15		88	%	70 - 130
			1,2-Dichloroethane	2021/12/15		92	%	70 - 130
			1,1-Dichloroethylene	2021/12/15		90	%	70 - 130
			cis-1,2-Dichloroethylene	2021/12/15		95	%	70 - 130
			trans-1,2-Dichloroethylene	2021/12/15		92	%	70 - 130
			1,2-Dichloropropane	2021/12/15		90	%	70 - 130
			cis-1,3-Dichloropropene	2021/12/15		94	%	70 - 130
			trans-1,3-Dichloropropene	2021/12/15		102	%	70 - 130
			Ethylbenzene	2021/12/15		81	%	70 - 130
			Ethylene Dibromide	2021/12/15		89	%	70 - 130
			Hexane	2021/12/15		98	%	70 - 130
			Methylene Chloride(Dichloromethane)	2021/12/15		95	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2021/12/15		107	%	60 - 140
			Methyl Isobutyl Ketone	2021/12/15		103	%	70 - 130
			Methyl t-butyl ether (MTBE)	2021/12/15		NC	%	70 - 130
			Styrene	2021/12/15		75	%	70 - 130
			1,1,1,2-Tetrachloroethane	2021/12/15		88	%	70 - 130
			1,1,2,2-Tetrachloroethane	2021/12/15		92	%	70 - 130
			Tetrachloroethylene	2021/12/15		80	%	70 - 130
			Toluene	2021/12/15		88	%	70 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1,1,1-Trichloroethane	2021/12/15		91	%	70 - 130
			1,1,2-Trichloroethane	2021/12/15		93	%	70 - 130
			Trichloroethylene	2021/12/15		92	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2021/12/15		89	%	70 - 130
			Vinyl Chloride	2021/12/15		90	%	70 - 130
			p+m-Xylene	2021/12/15		87	%	70 - 130
			o-Xylene	2021/12/15		83	%	70 - 130
			F1 (C6-C10)	2021/12/15		72	%	60 - 140
7724026	XJI	Spiked Blank	4-Bromofluorobenzene	2021/12/15		111	%	70 - 130
			D4-1,2-Dichloroethane	2021/12/15		101	%	70 - 130
			D8-Toluene	2021/12/15		101	%	70 - 130
			Acetone (2-Propanone)	2021/12/15		94	%	60 - 140
			Benzene	2021/12/15		85	%	70 - 130
			Bromodichloromethane	2021/12/15		97	%	70 - 130
			Bromoform	2021/12/15		94	%	70 - 130
			Bromomethane	2021/12/15		92	%	60 - 140
			Carbon Tetrachloride	2021/12/15		96	%	70 - 130
			Chlorobenzene	2021/12/15		96	%	70 - 130
			Chloroform	2021/12/15		95	%	70 - 130
			Dibromochloromethane	2021/12/15		91	%	70 - 130
			1,2-Dichlorobenzene	2021/12/15		97	%	70 - 130
			1,3-Dichlorobenzene	2021/12/15		100	%	70 - 130
			1,4-Dichlorobenzene	2021/12/15		90	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2021/12/15		88	%	60 - 140
			1,1-Dichloroethane	2021/12/15		92	%	70 - 130
			1,2-Dichloroethane	2021/12/15		93	%	70 - 130
			1,1-Dichloroethylene	2021/12/15		96	%	70 - 130
			cis-1,2-Dichloroethylene	2021/12/15		99	%	70 - 130
			trans-1,2-Dichloroethylene	2021/12/15		96	%	70 - 130
			1,2-Dichloropropane	2021/12/15		94	%	70 - 130
			cis-1,3-Dichloropropene	2021/12/15		92	%	70 - 130
			trans-1,3-Dichloropropene	2021/12/15		94	%	70 - 130
			Ethylbenzene	2021/12/15		90	%	70 - 130
			Ethylene Dibromide	2021/12/15		90	%	70 - 130
			Hexane	2021/12/15		103	%	70 - 130
			Methylene Chloride(Dichloromethane)	2021/12/15		97	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2021/12/15		104	%	60 - 140
			Methyl Isobutyl Ketone	2021/12/15		104	%	70 - 130
			Methyl t-butyl ether (MTBE)	2021/12/15		92	%	70 - 130
			Styrene	2021/12/15		84	%	70 - 130
			1,1,1,2-Tetrachloroethane	2021/12/15		94	%	70 - 130
			1,1,2,2-Tetrachloroethane	2021/12/15		94	%	70 - 130
			Tetrachloroethylene	2021/12/15		88	%	70 - 130
			Toluene	2021/12/15		96	%	70 - 130
			1,1,1-Trichloroethane	2021/12/15		99	%	70 - 130
			1,1,2-Trichloroethane	2021/12/15		95	%	70 - 130
			Trichloroethylene	2021/12/15		100	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2021/12/15		95	%	70 - 130
			Vinyl Chloride	2021/12/15		94	%	70 - 130
			p+m-Xylene	2021/12/15		98	%	70 - 130
			o-Xylene	2021/12/15		94	%	70 - 130
			F1 (C6-C10)	2021/12/15		95	%	60 - 140
7724026	XJI	Method Blank	4-Bromofluorobenzene	2021/12/15		78	%	70 - 130
			D4-1,2-Dichloroethane	2021/12/15		103	%	70 - 130
			D8-Toluene	2021/12/15		102	%	70 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acetone (2-Propanone)	2021/12/15	<10		ug/L	
			Benzene	2021/12/15	<0.17		ug/L	
			Bromodichloromethane	2021/12/15	<0.50		ug/L	
			Bromoform	2021/12/15	<1.0		ug/L	
			Bromomethane	2021/12/15	<0.50		ug/L	
			Carbon Tetrachloride	2021/12/15	<0.20		ug/L	
			Chlorobenzene	2021/12/15	<0.20		ug/L	
			Chloroform	2021/12/15	<0.20		ug/L	
			Dibromochloromethane	2021/12/15	<0.50		ug/L	
			1,2-Dichlorobenzene	2021/12/15	<0.50		ug/L	
			1,3-Dichlorobenzene	2021/12/15	<0.50		ug/L	
			1,4-Dichlorobenzene	2021/12/15	<0.50		ug/L	
			Dichlorodifluoromethane (FREON 12)	2021/12/15	<1.0		ug/L	
			1,1-Dichloroethane	2021/12/15	<0.20		ug/L	
			1,2-Dichloroethane	2021/12/15	<0.50		ug/L	
			1,1-Dichloroethylene	2021/12/15	<0.20		ug/L	
			cis-1,2-Dichloroethylene	2021/12/15	<0.50		ug/L	
			trans-1,2-Dichloroethylene	2021/12/15	<0.50		ug/L	
			1,2-Dichloropropane	2021/12/15	<0.20		ug/L	
			cis-1,3-Dichloropropene	2021/12/15	<0.30		ug/L	
			trans-1,3-Dichloropropene	2021/12/15	<0.40		ug/L	
			Ethylbenzene	2021/12/15	<0.20		ug/L	
			Ethylene Dibromide	2021/12/15	<0.20		ug/L	
			Hexane	2021/12/15	<1.0		ug/L	
			Methylene Chloride(Dichloromethane)	2021/12/15	<2.0		ug/L	
			Methyl Ethyl Ketone (2-Butanone)	2021/12/15	<10		ug/L	
			Methyl Isobutyl Ketone	2021/12/15	<5.0		ug/L	
			Methyl t-butyl ether (MTBE)	2021/12/15	<0.50		ug/L	
			Styrene	2021/12/15	<0.50		ug/L	
			1,1,1,2-Tetrachloroethane	2021/12/15	<0.50		ug/L	
			1,1,2,2-Tetrachloroethane	2021/12/15	<0.50		ug/L	
			Tetrachloroethylene	2021/12/15	<0.20		ug/L	
			Toluene	2021/12/15	<0.20		ug/L	
			1,1,1-Trichloroethane	2021/12/15	<0.20		ug/L	
			1,1,2-Trichloroethane	2021/12/15	<0.50		ug/L	
			Trichloroethylene	2021/12/15	<0.20		ug/L	
			Trichlorofluoromethane (FREON 11)	2021/12/15	<0.50		ug/L	
			Vinyl Chloride	2021/12/15	<0.20		ug/L	
			p+m-Xylene	2021/12/15	<0.20		ug/L	
			o-Xylene	2021/12/15	<0.20		ug/L	
			Total Xylenes	2021/12/15	<0.20		ug/L	
			F1 (C6-C10)	2021/12/15	<25		ug/L	
			F1 (C6-C10) - BTEX	2021/12/15	<25		ug/L	
7724026	XJI	RPD [RHL820-02]	Acetone (2-Propanone)	2021/12/15	NC		%	30
			Benzene	2021/12/15	NC		%	30
			Bromodichloromethane	2021/12/15	NC		%	30
			Bromoform	2021/12/15	NC		%	30
			Bromomethane	2021/12/15	NC		%	30
			Carbon Tetrachloride	2021/12/15	NC		%	30
			Chlorobenzene	2021/12/15	NC		%	30
			Chloroform	2021/12/15	NC		%	30
			Dibromochloromethane	2021/12/15	NC		%	30
			1,2-Dichlorobenzene	2021/12/15	NC		%	30
			1,3-Dichlorobenzene	2021/12/15	NC		%	30
			1,4-Dichlorobenzene	2021/12/15	NC		%	30

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dichlorodifluoromethane (FREON 12)	2021/12/15	NC		%	30
			1,1-Dichloroethane	2021/12/15	NC		%	30
			1,2-Dichloroethane	2021/12/15	NC		%	30
			1,1-Dichloroethylene	2021/12/15	NC		%	30
			cis-1,2-Dichloroethylene	2021/12/15	NC		%	30
			trans-1,2-Dichloroethylene	2021/12/15	NC		%	30
			1,2-Dichloropropane	2021/12/15	NC		%	30
			cis-1,3-Dichloropropene	2021/12/15	NC		%	30
			trans-1,3-Dichloropropene	2021/12/15	NC		%	30
			Ethylbenzene	2021/12/15	NC		%	30
			Ethylene Dibromide	2021/12/15	NC		%	30
			Hexane	2021/12/15	NC		%	30
			Methylene Chloride(Dichloromethane)	2021/12/15	NC		%	30
			Methyl Ethyl Ketone (2-Butanone)	2021/12/15	NC		%	30
			Methyl Isobutyl Ketone	2021/12/15	NC		%	30
			Methyl t-butyl ether (MTBE)	2021/12/15	NC		%	30
			Styrene	2021/12/15	NC		%	30
			1,1,1,2-Tetrachloroethane	2021/12/15	NC		%	30
			1,1,2,2-Tetrachloroethane	2021/12/15	NC		%	30
			Tetrachloroethylene	2021/12/15	NC		%	30
			Toluene	2021/12/15	NC		%	30
			1,1,1-Trichloroethane	2021/12/15	NC		%	30
			1,1,2-Trichloroethane	2021/12/15	NC		%	30
			Trichloroethylene	2021/12/15	NC		%	30
			Trichlorofluoromethane (FREON 11)	2021/12/15	NC		%	30
			Vinyl Chloride	2021/12/15	NC		%	30
			p+m-Xylene	2021/12/15	NC		%	30
			o-Xylene	2021/12/15	NC		%	30
			Total Xylenes	2021/12/15	NC		%	30
			F1 (C6-C10)	2021/12/15	NC		%	30
			F1 (C6-C10) - BTEX	2021/12/15	NC		%	30
7733717	SUK	Spiked Blank	Dissolved Sodium (Na)	2022/01/11		99	%	80 - 120
7733717	SUK	Method Blank	Dissolved Sodium (Na)	2022/01/11	<500		ug/L	

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 <= 2x RDL).

VALIDATION SIGNATURE PAGE

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

Brad Newman, B.Sc., C.Chem., Scientific Service Specialist

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

BV Labs 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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C1Y3876

KTN ENV-819

Presence of Visible Particulate/Sediment

Maxxam Analytics
CAM FCD-01013/5

When there is >1cm of visible particulate/sediment, the amount will be recorded in the field below

		Bottle Types																														
			Inorganics					Organics											Hydrocarbons							Volatiles				Other			
	Sample ID	All	CrVI	CN	General	Hg	Metals (Diss.)	Organic 1 of 2	Organic 2 of 2	PCB 1 of 2	PCB 2 of 2	Pest/ Herb 1 of 2	Pest/ Herb 2 of 2	SVOC/ ABN 1 of 2	SVOC/ ABN 2 of 2	PAH 1 of 2	PAH 2 of 2	Dioxin /Furan	F1 Vial 1	F1 Vial 2	F1 Vial 3	F1 Vial 4	F2-F4 1 of 2	F2-F4 2 of 2	F4G	VOC Vial 1	VOC Vial 2	VOC Vial 3	VOC Vial 4					
1	BHMW120	TS																														
2	BHMW116	TS																														
3	DUP 301	TS																														
4	MW110	P																														
5	MW119	TS																														
6	MW102	TS																														
7	MW108	TS																														
8	MW115	TS																														
9																																
10																																

Comments:

Legend:	
P	Suspended Particulate
TS	Trace Settled Sediment (just covers bottom of container or less)
S	Sediment greater than (>) Trace, but less than (<) 1 cm

Recorded By: (signature/print) Z VITRINA

Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvlabs.com

RECEIVED IN OTTAWA 08-Dec-21 14:28

CHAIN OF CUSTODY RECORD

Page 1 of 1

Antonella Brasil

C1Y3876

KTN ENV-819

C#832329-10-01

Antonella Brasil

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#982 Pinchin Ltd	Company Name:		Quotation #:	A70927
Attention:	Accounts Payable	Attention:	Matt, Ryan, Mike	P.O. #:	
Address:	1 Hines Road Suite 200 Kanata ON K2K 3C7	Address:		Project:	285722.003
Tel:	(613) 592-3387 Fax: (613) 592-5897	Tel:	Fax:	Project Name:	
Email:	ap@pinchin.com	Email:	mkosiw@Pinchin.com, rlaronde@pinchin.com; mryan@	Site #:	
				Sampled By:	

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☒ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☑ Coarse ☒ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Field Filtered (please circle): Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	O Reg 153 Metals & Inorganics Pkg (Soil)	O Reg 153 VOCs by HS & F1-F4	O Reg 153 PCBs (Soil)	O Reg 153 PAHs (Soil)	O Reg 153 Semivolatiles Package (Soil)	Acid Extractables by GC/MS	O Reg 153 OC Pesticides (Soil)	Sodium	Chloride	# of Bottles	Comments
1		BHMW120	Dec 2 2021	Am	GW		X								4	PHCs F1-F4 +
2		BHMW116	Nov 30 2021	Am			X								4	VOCs
3		Dup 301					X								4	↓
4		BHMW124											X	X	2	Sodium Chloride
5		BHMW10		↓			X								4	PHCs VOCs
6		BHMW119		Pm			X								4	
7		BHMW122					X								4	
8		BHMW108					X								4	
9		BHMW115					X								4	
10		Trip Blank	↓	↓	↓		X								4	VOCs/F1 for Trip Blank

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
M Belleau	Dec 8 2021	AM	A. Santiago BRA	21/12/08	14:28	
				021/12/08	08:20	

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

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 Dioxins/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 #)*

Laboratory Use Only
Time Sensitive
Temperature (°C) on Rece: 6, 4, 4 ice
Custody Seal Present ✓ Intact

Custody Seal	Yes	No
Present	✓	
Intact		

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

White: BV Labs Yellow: Client

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.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.

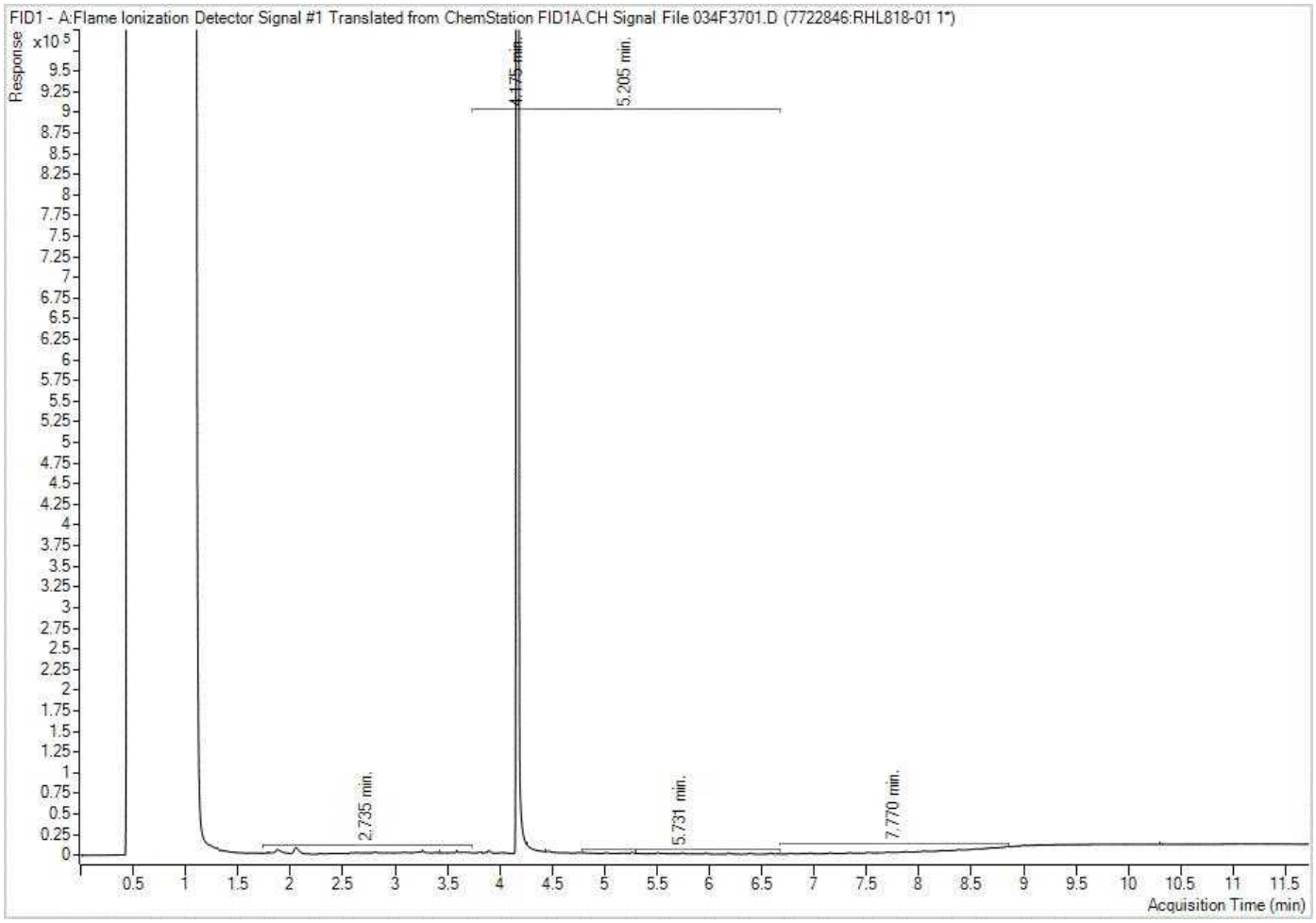
** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

Bureau Veritas Canada (2019) Inc.

Bureau Veritas Job #: C1Y3876
Report Date: 2022/01/11
Bureau Veritas Sample: RHL818

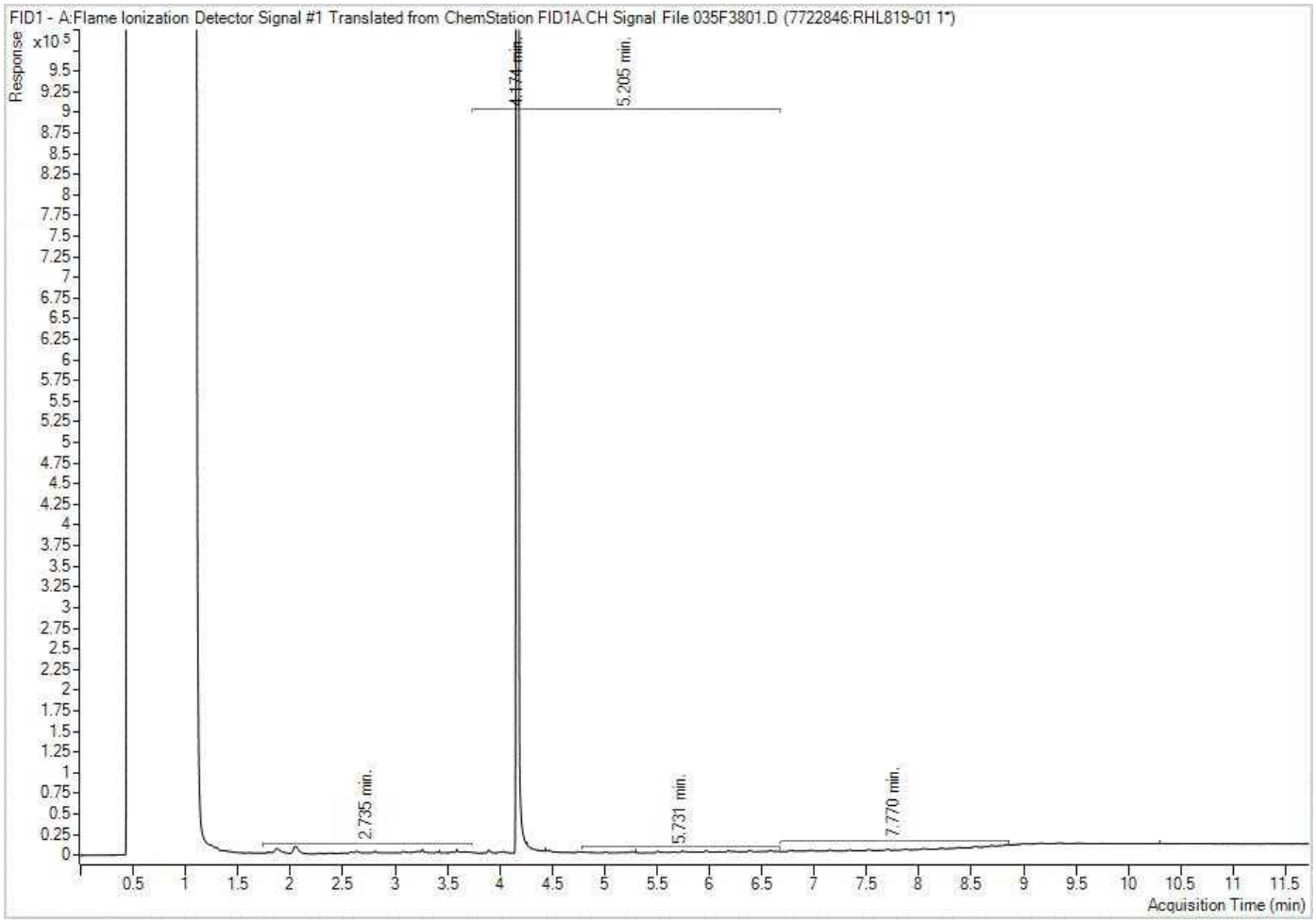
Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW120

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

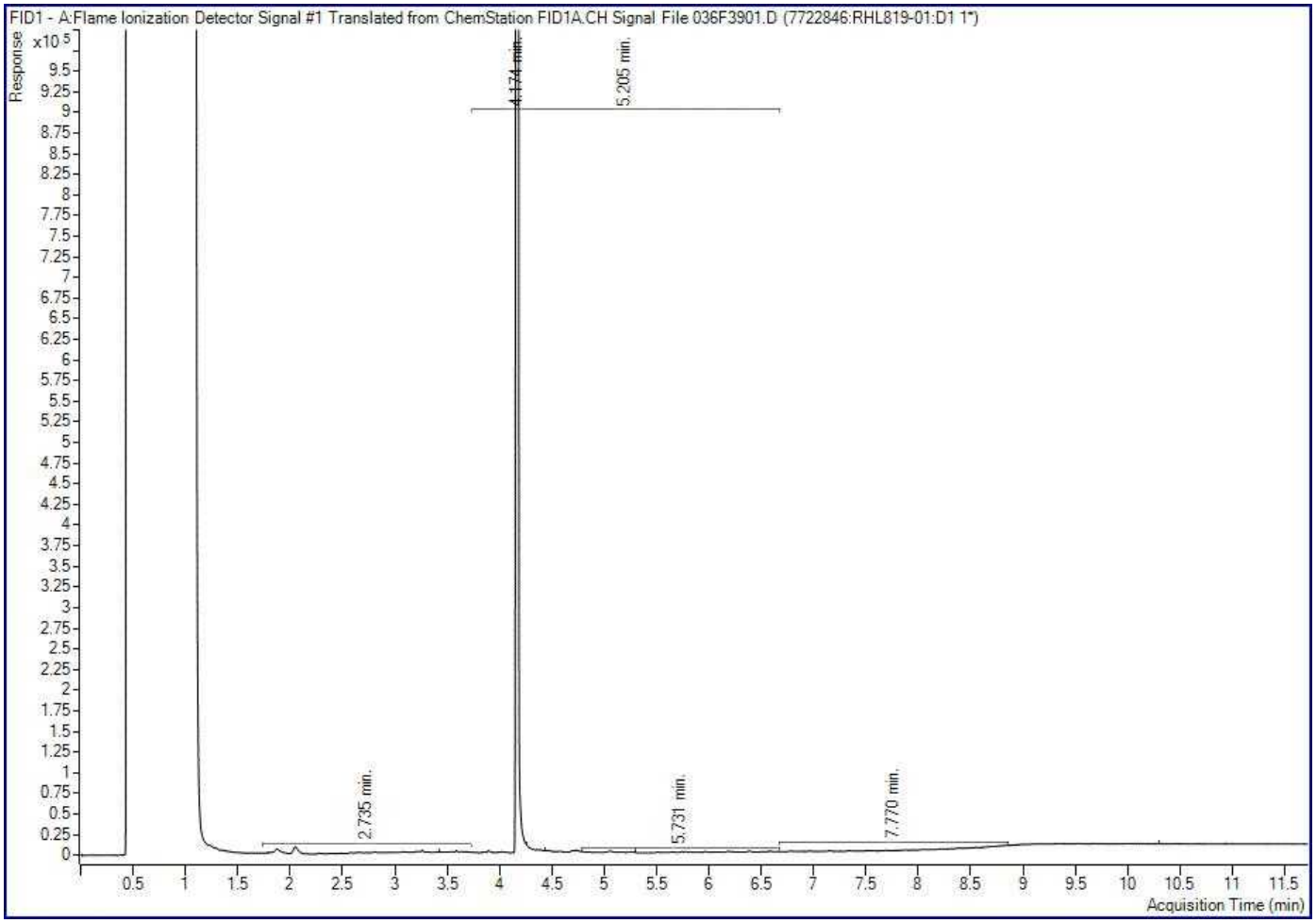


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C1Y3876
Report Date: 2022/01/11
Bureau Veritas Sample: RHL819 Lab-Dup

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW116

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

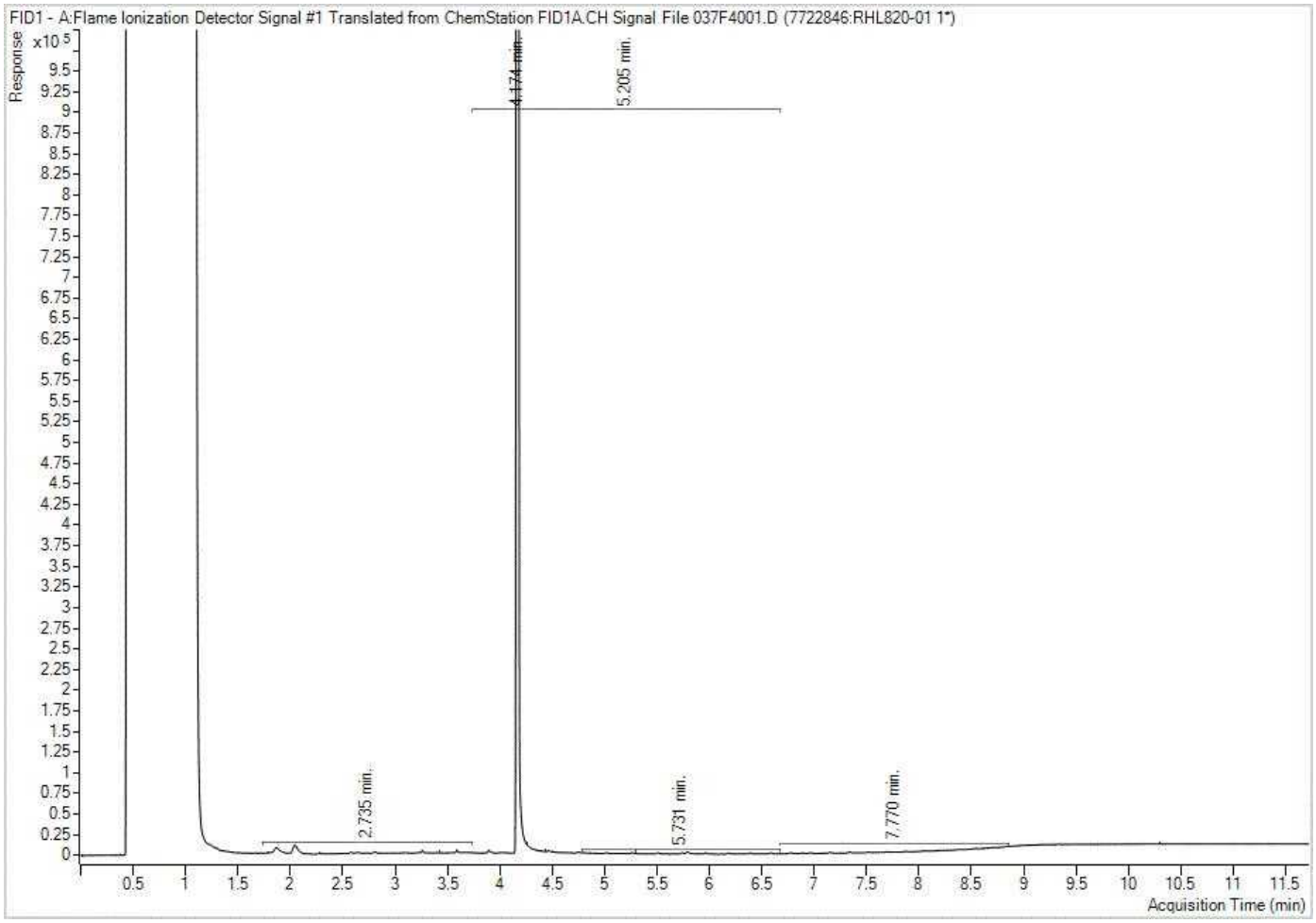


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C1Y3876
Report Date: 2022/01/11
Bureau Veritas Sample: RHL820

Pinchin Ltd
Client Project #: 285722.003
Client ID: DUP301

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

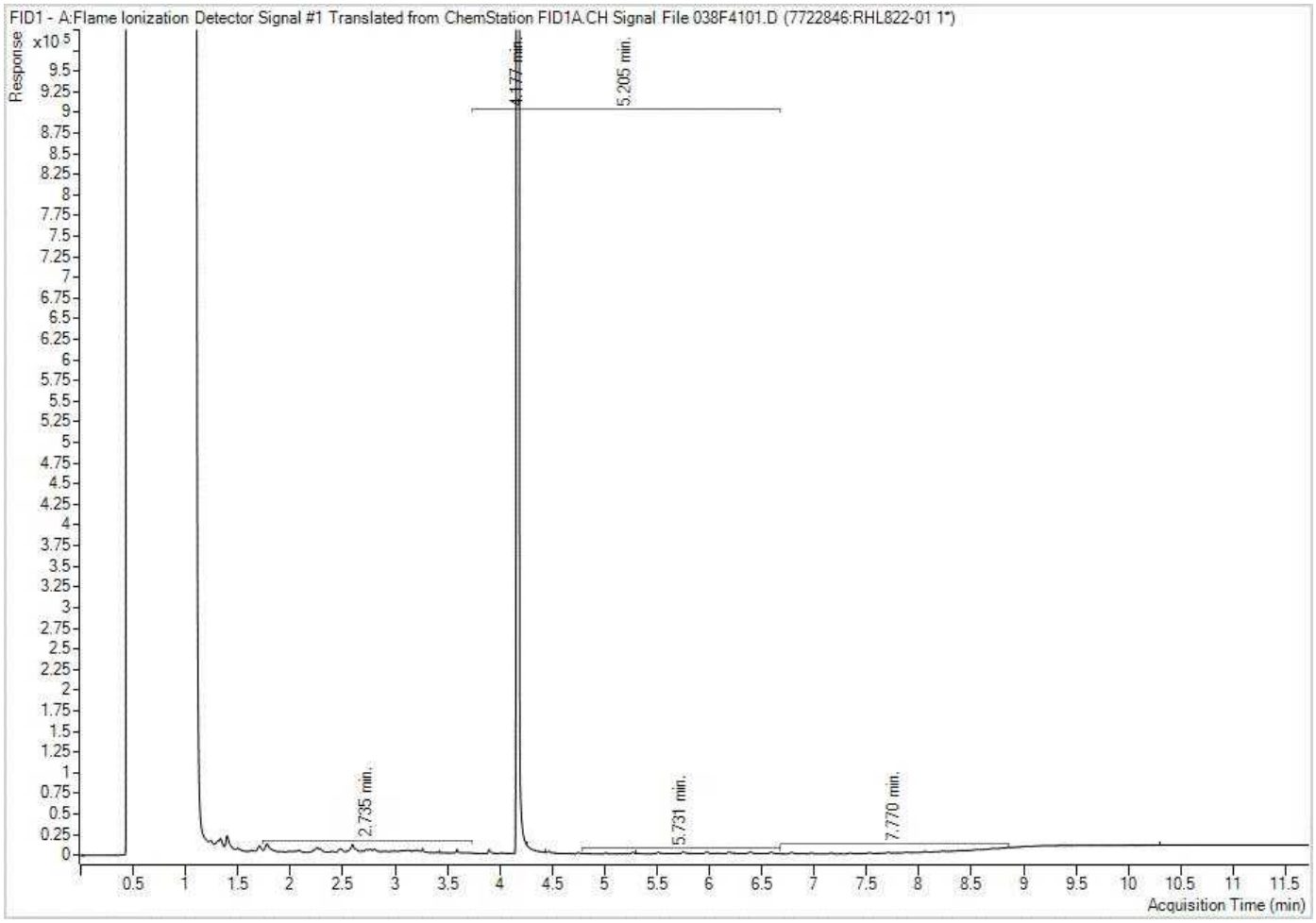


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C1Y3876
Report Date: 2022/01/11
Bureau Veritas Sample: RHL822

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW110

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

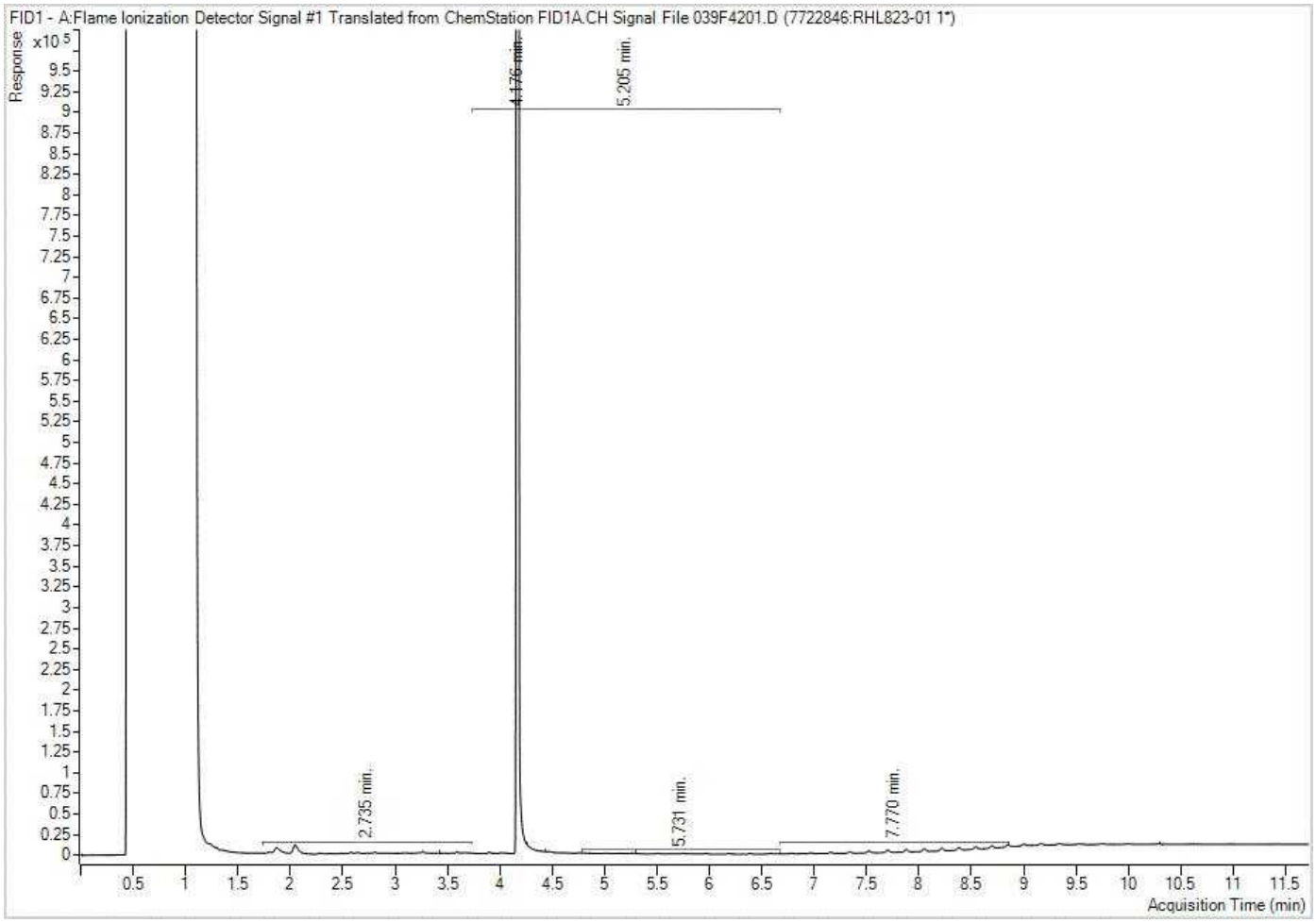


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C1Y3876
Report Date: 2022/01/11
Bureau Veritas Sample: RHL823

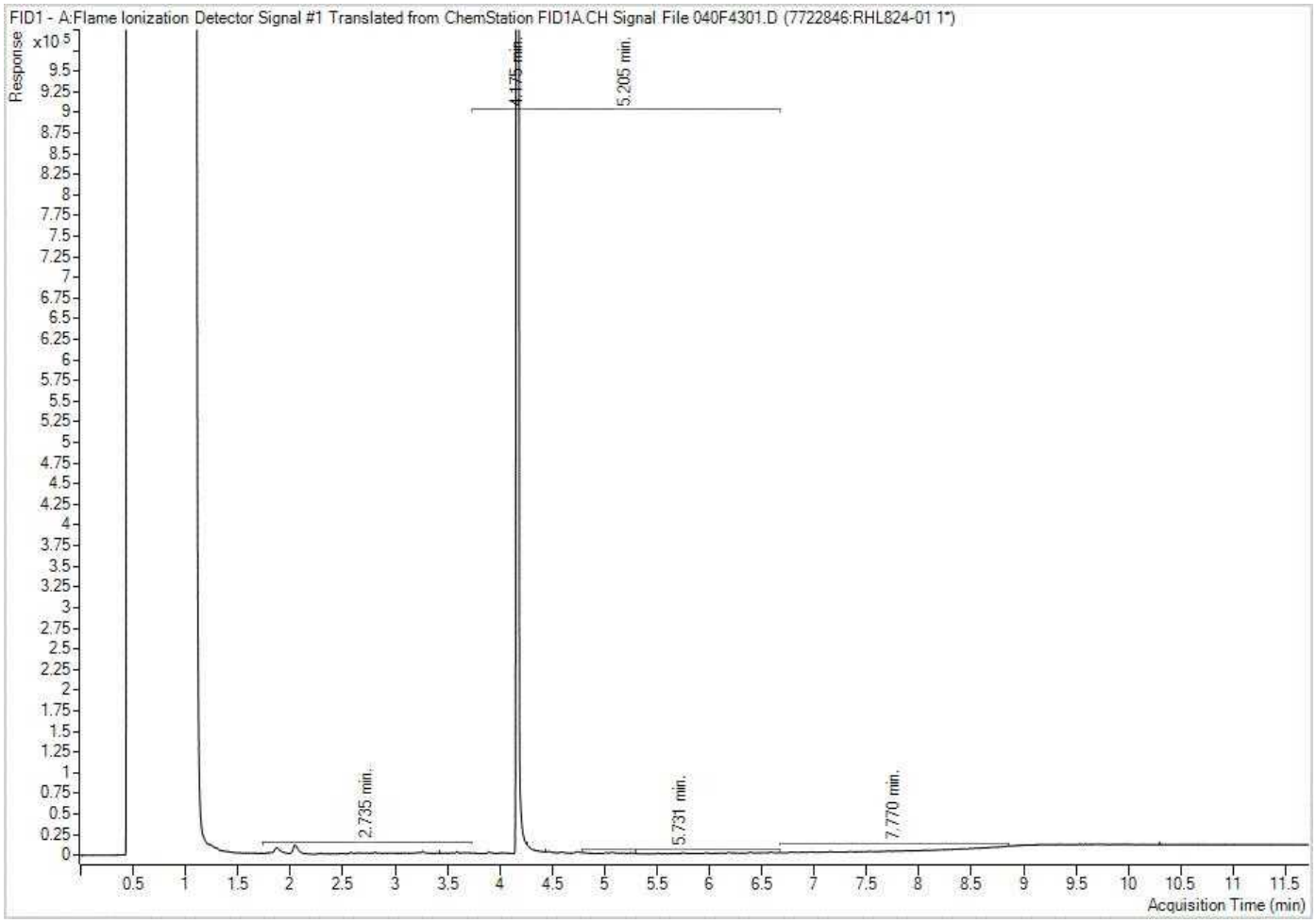
Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW119

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

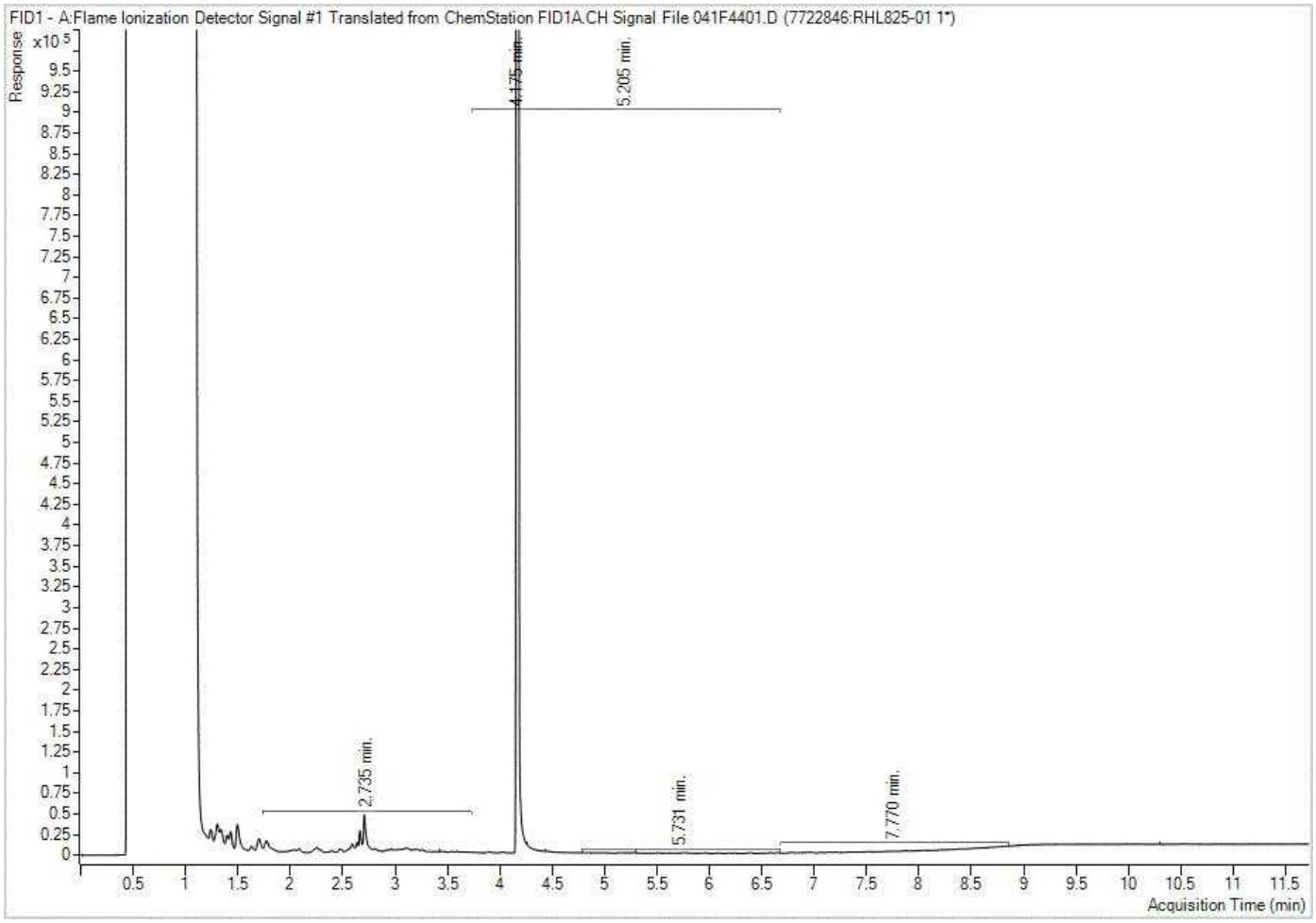


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C1Y3876
Report Date: 2022/01/11
Bureau Veritas Sample: RHL825

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW108

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

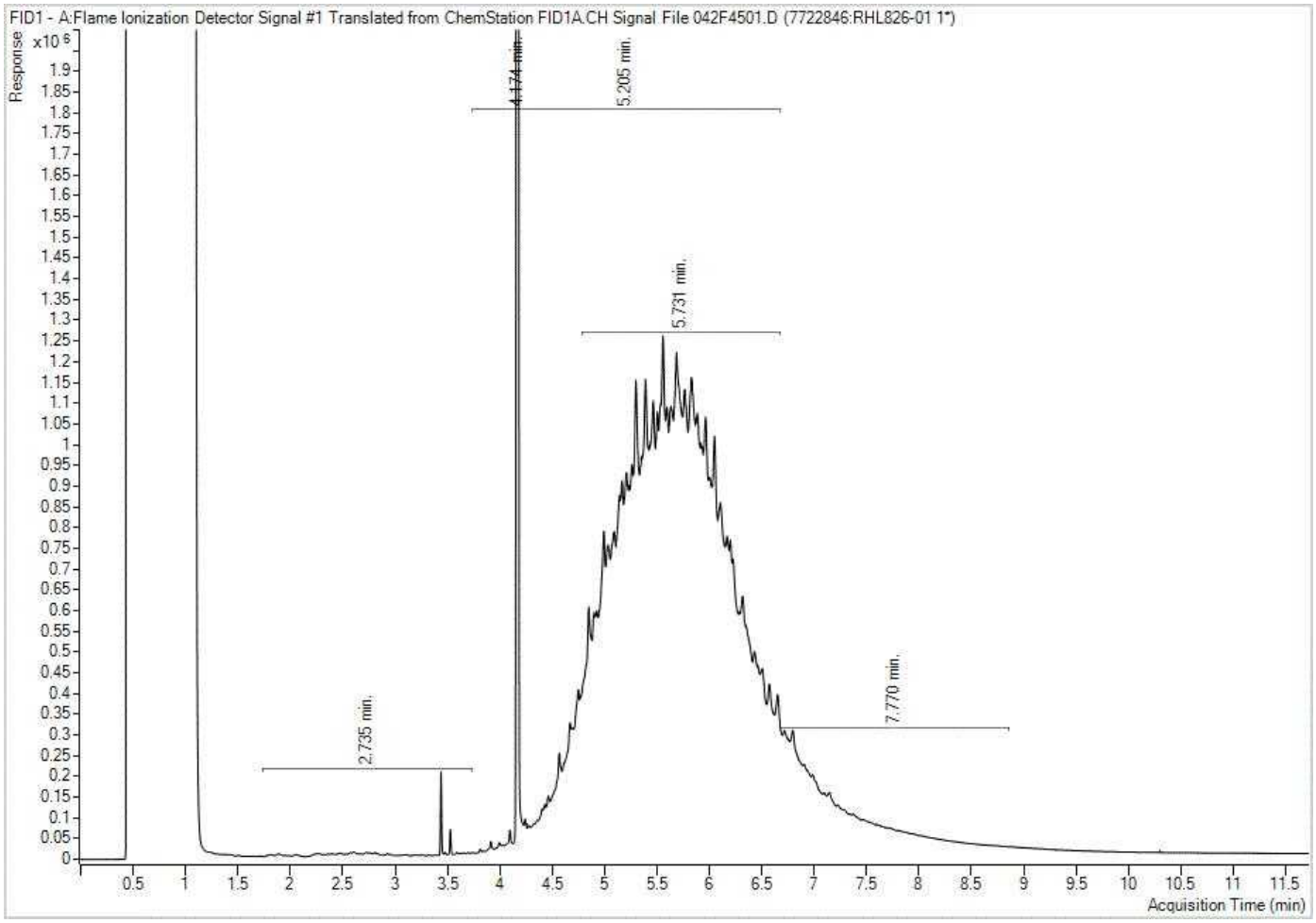


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C1Y3876
Report Date: 2022/01/11
Bureau Veritas Sample: RHL826

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW115

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

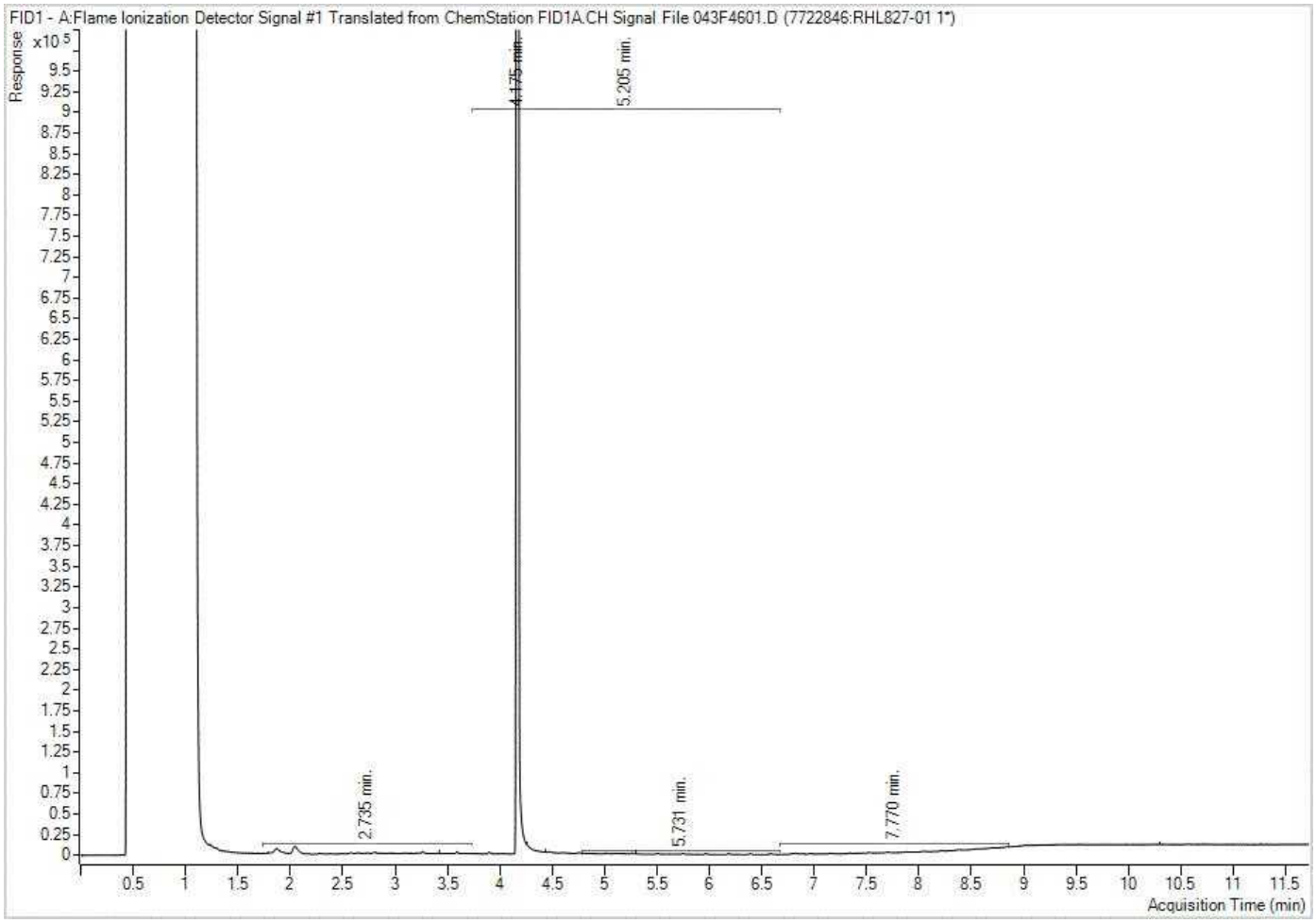


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C1Y3876
Report Date: 2022/01/11
Bureau Veritas Sample: RHL827

Pinchin Ltd
Client Project #: 285722.003
Client ID: TRIP BLANK

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 #: 285722.003
Your C.O.C. #: 796018-25-01

Attention: Matt, Ryan, Mike

Pinchin Ltd
Ottawa
1 Hines Road
Suite 200
Kanata, ON
CANADA K2K 3C7

Report Date: 2021/04/26
Report #: R6610415
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1A7975
Received: 2021/04/22, 12:00

Sample Matrix: Water
Samples Received: 9

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum (1)	8	N/A	2021/04/26	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum (1)	8	N/A	2021/04/23		EPA 8260C m
Petroleum Hydrocarbons F2-F4 in Water (1, 2)	8	2021/04/23	2021/04/23	CAM SOP-00316	CCME PHC-CWS m
F4G (CCME Hydrocarbons Gravimetric) (1)	1	2021/04/24	2021/04/24	CAM SOP-00326	CCME PHC-CWS m
PAH Compounds in Water by GC/MS (SIM) (1)	8	2021/04/23	2021/04/23	CAM SOP-00318	EPA 8270D m
Volatile Organic Compounds and F1 PHCs (1)	9	N/A	2021/04/23	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.

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) This test was performed by Bureau Veritas Laboratories Mississauga
(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas Laboratories 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

Your Project #: 285722.003
Your C.O.C. #: 796018-25-01

Attention: Matt, Ryan, Mike

Pinchin Ltd
Ottawa
1 Hines Road
Suite 200
Kanata, ON
CANADA K2K 3C7

Report Date: 2021/04/26
Report #: R6610415
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1A7975
Received: 2021/04/22, 12:00
Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

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
==========
BV Labs 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.

VOLATILE ORGANICS BY GC/MS (WATER)

BV Labs ID		PJV382		
Sampling Date		2021/04/22		
COC Number		796018-25-01		
	UNITS	TRIP BLANK	RDL	QC Batch
Volatile Organics				
Acetone (2-Propanone)	ug/L	<10	10	7312454
Benzene	ug/L	<0.20	0.20	7312454
Bromodichloromethane	ug/L	<0.50	0.50	7312454
Bromoform	ug/L	<1.0	1.0	7312454
Bromomethane	ug/L	<0.50	0.50	7312454
Carbon Tetrachloride	ug/L	<0.20	0.20	7312454
Chlorobenzene	ug/L	<0.20	0.20	7312454
Chloroform	ug/L	<0.20	0.20	7312454
Dibromochloromethane	ug/L	<0.50	0.50	7312454
1,2-Dichlorobenzene	ug/L	<0.50	0.50	7312454
1,3-Dichlorobenzene	ug/L	<0.50	0.50	7312454
1,4-Dichlorobenzene	ug/L	<0.50	0.50	7312454
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	7312454
1,1-Dichloroethane	ug/L	<0.20	0.20	7312454
1,2-Dichloroethane	ug/L	<0.50	0.50	7312454
1,1-Dichloroethylene	ug/L	<0.20	0.20	7312454
cis-1,2-Dichloroethylene	ug/L	<0.50	0.50	7312454
trans-1,2-Dichloroethylene	ug/L	<0.50	0.50	7312454
1,2-Dichloropropane	ug/L	<0.20	0.20	7312454
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	7312454
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	7312454
Ethylbenzene	ug/L	<0.20	0.20	7312454
Ethylene Dibromide	ug/L	<0.20	0.20	7312454
Hexane	ug/L	<1.0	1.0	7312454
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	7312454
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	7312454
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	7312454
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	7312454
Styrene	ug/L	<0.50	0.50	7312454
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	7312454
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	7312454
Tetrachloroethylene	ug/L	<0.20	0.20	7312454
Toluene	ug/L	<0.20	0.20	7312454
1,1,1-Trichloroethane	ug/L	<0.20	0.20	7312454
1,1,2-Trichloroethane	ug/L	<0.50	0.50	7312454
Trichloroethylene	ug/L	<0.20	0.20	7312454

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (WATER)

BV Labs ID		PJV382		
Sampling Date		2021/04/22		
COC Number		796018-25-01		
	UNITS	**TRIP BLANK**	**RDL**	**QC Batch**
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	7312454
Vinyl Chloride	ug/L	<0.20	0.20	7312454
p+m-Xylene	ug/L	<0.20	0.20	7312454
o-Xylene	ug/L	<0.20	0.20	7312454
Total Xylenes	ug/L	<0.20	0.20	7312454
F1 (C6-C10)	ug/L	<25	25	7312454
F1 (C6-C10) - BTEX	ug/L	<25	25	7312454
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	91		7312454
D4-1,2-Dichloroethane	%	104		7312454
D8-Toluene	%	98		7312454

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

PETROLEUM HYDROCARBONS (CCME)

BV Labs ID		PJV376		
Sampling Date		2021/04/22		
COC Number		796018-25-01		
	UNITS	DUP-1	RDL	QC Batch
F2-F4 Hydrocarbons				
F4G-sg (Grav. Heavy Hydrocarbons)	ug/L	4900	500	7317128

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas Laboratories 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvlabs.com

O.REG 153 PAHS (WATER)

BV Labs ID		PJV374	PJV375			PJV375		
Sampling Date		2021/04/22	2021/04/22			2021/04/22		
COC Number		796018-25-01	796018-25-01			796018-25-01		
	UNITS	BH2-20	BHMW3	RDL	QC Batch	BHMW3 Lab-Dup	RDL	QC Batch
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/L	0.13	0.19	0.071	7314910			
Polyaromatic Hydrocarbons								
Acenaphthene	ug/L	<0.050	<0.050	0.050	7315015	<0.050	0.050	7315015
Acenaphthylene	ug/L	<0.050	<0.050	0.050	7315015	<0.050	0.050	7315015
Anthracene	ug/L	<0.050	<0.050	0.050	7315015	<0.050	0.050	7315015
Benzo(a)anthracene	ug/L	<0.050	<0.050	0.050	7315015	<0.050	0.050	7315015
Benzo(a)pyrene	ug/L	<0.0090	0.043	0.0090	7315015	0.036	0.0090	7315015
Benzo(b/j)fluoranthene	ug/L	<0.050	0.064	0.050	7315015	0.050	0.050	7315015
Benzo(g,h,i)perylene	ug/L	<0.050	0.052	0.050	7315015	<0.050	0.050	7315015
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	0.050	7315015	<0.050	0.050	7315015
Chrysene	ug/L	<0.050	<0.050	0.050	7315015	<0.050	0.050	7315015
Dibenzo(a,h)anthracene	ug/L	<0.050	<0.050	0.050	7315015	<0.050	0.050	7315015
Fluoranthene	ug/L	<0.050	0.11	0.050	7315015	0.089	0.050	7315015
Fluorene	ug/L	<0.050	<0.050	0.050	7315015	<0.050	0.050	7315015
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	0.050	7315015	<0.050	0.050	7315015
1-Methylnaphthalene	ug/L	0.13	0.082	0.050	7315015	0.065	0.050	7315015
2-Methylnaphthalene	ug/L	<0.050	0.10	0.050	7315015	0.083	0.050	7315015
Naphthalene	ug/L	0.095	0.14	0.050	7315015	0.13	0.050	7315015
Phenanthrene	ug/L	<0.030	0.099	0.030	7315015	0.077	0.030	7315015
Pyrene	ug/L	<0.050	0.12	0.050	7315015	0.094	0.050	7315015
Surrogate Recovery (%)								
D10-Anthracene	%	104	82		7315015	88		7315015
D14-Terphenyl (FS)	%	91	50		7315015	50		7315015
D8-Acenaphthylene	%	100	97		7315015	95		7315015

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

BV Labs Job #: C1A7975
Report Date: 2021/04/26

Pinchin Ltd
Client Project #: 285722.003
Sampler Initials: M.K

O.REG 153 PAHS (WATER)

BV Labs ID		PJV376	PJV377	PJV378	PJV379	PJV380	PJV381		
Sampling Date		2021/04/22	2021/04/21	2021/04/21	2021/04/21	2021/04/21	2021/04/22		
COC Number		796018-25-01	796018-25-01	796018-25-01	796018-25-01	796018-25-01	796018-25-01		
	UNITS	DUP-1	BH1-20	BH3-20	BH4-20	BH5-20	BH2017-10	RDL	QC Batch
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/L	0.18	<0.071	<0.071	<0.071	<0.071	<0.071	0.071	7314910
Polyaromatic Hydrocarbons									
Acenaphthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7315015
Acenaphthylene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7315015
Anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7315015
Benzo(a)anthracene	ug/L	<0.050	0.054	<0.050	<0.050	<0.050	<0.050	0.050	7315015
Benzo(a)pyrene	ug/L	0.058	0.055	<0.0090	<0.0090	0.014	<0.0090	0.0090	7315015
Benzo(b/j)fluoranthene	ug/L	0.088	0.076	<0.050	<0.050	<0.050	<0.050	0.050	7315015
Benzo(g,h,i)perylene	ug/L	0.075	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7315015
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7315015
Chrysene	ug/L	0.057	0.055	<0.050	<0.050	<0.050	<0.050	0.050	7315015
Dibenzo(a,h)anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7315015
Fluoranthene	ug/L	0.14	0.11	<0.050	<0.050	<0.050	<0.050	0.050	7315015
Fluorene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7315015
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7315015
1-Methylnaphthalene	ug/L	0.077	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7315015
2-Methylnaphthalene	ug/L	0.11	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7315015
Naphthalene	ug/L	0.14	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7315015
Phenanthrene	ug/L	0.12	0.055	<0.030	<0.030	<0.030	<0.030	0.030	7315015
Pyrene	ug/L	0.15	0.096	<0.050	<0.050	<0.050	<0.050	0.050	7315015
Surrogate Recovery (%)									
D10-Anthracene	%	73	97	106	106	101	103		7315015
D14-Terphenyl (FS)	%	48 (1)	82	95	94	89	61		7315015
D8-Acenaphthylene	%	96	92	101	102	96	99		7315015

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Surrogate recovery was below the lower control limit due to matrix interference. This may represent a low bias in some results.

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

BV Labs ID		PJV374			PJV374			PJV375		
Sampling Date		2021/04/22			2021/04/22			2021/04/22		
COC Number		796018-25-01			796018-25-01			796018-25-01		
	UNITS	BH2-20	RDL	QC Batch	BH2-20 Lab-Dup	RDL	QC Batch	BHMW3	RDL	QC Batch
Calculated Parameters										
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	0.50	7314912				<0.50	0.50	7314912
Volatile Organics										
Acetone (2-Propanone)	ug/L	<10	10	7312454	<10	10	7312454	<10	10	7312454
Benzene	ug/L	<0.20	0.20	7312454	<0.20	0.20	7312454	1.1	0.20	7312454
Bromodichloromethane	ug/L	<0.50	0.50	7312454	<0.50	0.50	7312454	<0.50	0.50	7312454
Bromoform	ug/L	<1.0	1.0	7312454	<1.0	1.0	7312454	<1.0	1.0	7312454
Bromomethane	ug/L	<0.50	0.50	7312454	<0.50	0.50	7312454	<0.50	0.50	7312454
Carbon Tetrachloride	ug/L	<0.20	0.20	7312454	<0.20	0.20	7312454	<0.20	0.20	7312454
Chlorobenzene	ug/L	<0.20	0.20	7312454	<0.20	0.20	7312454	<0.20	0.20	7312454
Chloroform	ug/L	<0.20	0.20	7312454	<0.20	0.20	7312454	<0.20	0.20	7312454
Dibromochloromethane	ug/L	<0.50	0.50	7312454	<0.50	0.50	7312454	<0.50	0.50	7312454
1,2-Dichlorobenzene	ug/L	<0.50	0.50	7312454	<0.50	0.50	7312454	<0.50	0.50	7312454
1,3-Dichlorobenzene	ug/L	<0.50	0.50	7312454	<0.50	0.50	7312454	<0.50	0.50	7312454
1,4-Dichlorobenzene	ug/L	<0.50	0.50	7312454	<0.50	0.50	7312454	<0.50	0.50	7312454
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	7312454	<1.0	1.0	7312454	<1.0	1.0	7312454
1,1-Dichloroethane	ug/L	<0.20	0.20	7312454	<0.20	0.20	7312454	<0.20	0.20	7312454
1,2-Dichloroethane	ug/L	<0.50	0.50	7312454	<0.50	0.50	7312454	<0.50	0.50	7312454
1,1-Dichloroethylene	ug/L	<0.20	0.20	7312454	<0.20	0.20	7312454	<0.20	0.20	7312454
cis-1,2-Dichloroethylene	ug/L	<0.50	0.50	7312454	<0.50	0.50	7312454	<0.50	0.50	7312454
trans-1,2-Dichloroethylene	ug/L	<0.50	0.50	7312454	<0.50	0.50	7312454	<0.50	0.50	7312454
1,2-Dichloropropane	ug/L	<0.20	0.20	7312454	<0.20	0.20	7312454	<0.20	0.20	7312454
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	7312454	<0.30	0.30	7312454	<0.30	0.30	7312454
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	7312454	<0.40	0.40	7312454	<0.40	0.40	7312454
Ethylbenzene	ug/L	<0.20	0.20	7312454	<0.20	0.20	7312454	0.34	0.20	7312454
Ethylene Dibromide	ug/L	<0.20	0.20	7312454	<0.20	0.20	7312454	<0.20	0.20	7312454
Hexane	ug/L	<1.0	1.0	7312454	<1.0	1.0	7312454	1.1	1.0	7312454
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	7312454	<2.0	2.0	7312454	<2.0	2.0	7312454
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	7312454	<10	10	7312454	<10	10	7312454
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	7312454	<5.0	5.0	7312454	<5.0	5.0	7312454
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	7312454	<0.50	0.50	7312454	<0.50	0.50	7312454
Styrene	ug/L	<0.50	0.50	7312454	<0.50	0.50	7312454	<0.50	0.50	7312454
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	7312454	<0.50	0.50	7312454	<0.50	0.50	7312454
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	7312454	<0.50	0.50	7312454	<0.50	0.50	7312454
Tetrachloroethylene	ug/L	<0.20	0.20	7312454	<0.20	0.20	7312454	<0.20	0.20	7312454
Toluene	ug/L	<0.20	0.20	7312454	<0.20	0.20	7312454	<0.20	0.20	7312454

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

BV Labs ID		PJV374			PJV374			PJV375		
Sampling Date		2021/04/22			2021/04/22			2021/04/22		
COC Number		796018-25-01			796018-25-01			796018-25-01		
	UNITS	BH2-20	RDL	QC Batch	BH2-20 Lab-Dup	RDL	QC Batch	BHMW3	RDL	QC Batch
1,1,1-Trichloroethane	ug/L	<0.20	0.20	7312454	<0.20	0.20	7312454	<0.20	0.20	7312454
1,1,2-Trichloroethane	ug/L	<0.50	0.50	7312454	<0.50	0.50	7312454	<0.50	0.50	7312454
Trichloroethylene	ug/L	<0.20	0.20	7312454	<0.20	0.20	7312454	<0.20	0.20	7312454
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	7312454	<0.50	0.50	7312454	<0.50	0.50	7312454
Vinyl Chloride	ug/L	<0.20	0.20	7312454	<0.20	0.20	7312454	<0.20	0.20	7312454
p+m-Xylene	ug/L	<0.20	0.20	7312454	<0.20	0.20	7312454	0.41	0.20	7312454
o-Xylene	ug/L	<0.20	0.20	7312454	<0.20	0.20	7312454	<0.20	0.20	7312454
Total Xylenes	ug/L	<0.20	0.20	7312454	<0.20	0.20	7312454	0.41	0.20	7312454
F1 (C6-C10)	ug/L	<25	25	7312454	<25	25	7312454	33	25	7312454
F1 (C6-C10) - BTEX	ug/L	<25	25	7312454	<25	25	7312454	31	25	7312454
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	7315019				<100	100	7315019
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	7315019				390	200	7315019
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	7315019				460	200	7315019
Reached Baseline at C50	ug/L	Yes		7315019				Yes		7315019
Surrogate Recovery (%)										
o-Terphenyl	%	96		7315019				98		7315019
4-Bromofluorobenzene	%	93		7312454	94		7312454	88		7312454
D4-1,2-Dichloroethane	%	99		7312454	100		7312454	105		7312454
D8-Toluene	%	98		7312454	97		7312454	91		7312454

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

BV Labs ID		PJV375			PJV376	PJV377	PJV378		
Sampling Date		2021/04/22			2021/04/22	2021/04/21	2021/04/21		
COC Number		796018-25-01			796018-25-01	796018-25-01	796018-25-01		
	UNITS	BHMW3 Lab-Dup	RDL	QC Batch	DUP-1	BH1-20	BH3-20	RDL	QC Batch
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/L				<0.50	<0.50	<0.50	0.50	7314912
Volatile Organics									
Acetone (2-Propanone)	ug/L				<10	<10	<10	10	7312454
Benzene	ug/L				1.1	<0.20	<0.20	0.20	7312454
Bromodichloromethane	ug/L				<0.50	<0.50	<0.50	0.50	7312454
Bromoform	ug/L				<1.0	<1.0	<1.0	1.0	7312454
Bromomethane	ug/L				<0.50	<0.50	<0.50	0.50	7312454
Carbon Tetrachloride	ug/L				<0.20	<0.20	<0.20	0.20	7312454
Chlorobenzene	ug/L				<0.20	<0.20	<0.20	0.20	7312454
Chloroform	ug/L				<0.20	<0.20	<0.20	0.20	7312454
Dibromochloromethane	ug/L				<0.50	<0.50	<0.50	0.50	7312454
1,2-Dichlorobenzene	ug/L				<0.50	<0.50	<0.50	0.50	7312454
1,3-Dichlorobenzene	ug/L				<0.50	<0.50	<0.50	0.50	7312454
1,4-Dichlorobenzene	ug/L				<0.50	<0.50	<0.50	0.50	7312454
Dichlorodifluoromethane (FREON 12)	ug/L				<1.0	<1.0	<1.0	1.0	7312454
1,1-Dichloroethane	ug/L				<0.20	<0.20	<0.20	0.20	7312454
1,2-Dichloroethane	ug/L				<0.50	3.8	<0.50	0.50	7312454
1,1-Dichloroethylene	ug/L				<0.20	<0.20	<0.20	0.20	7312454
cis-1,2-Dichloroethylene	ug/L				<0.50	<0.50	<0.50	0.50	7312454
trans-1,2-Dichloroethylene	ug/L				<0.50	<0.50	<0.50	0.50	7312454
1,2-Dichloropropane	ug/L				<0.20	<0.20	<0.20	0.20	7312454
cis-1,3-Dichloropropene	ug/L				<0.30	<0.30	<0.30	0.30	7312454
trans-1,3-Dichloropropene	ug/L				<0.40	<0.40	<0.40	0.40	7312454
Ethylbenzene	ug/L				0.36	<0.20	<0.20	0.20	7312454
Ethylene Dibromide	ug/L				<0.20	<0.20	<0.20	0.20	7312454
Hexane	ug/L				1.1	<1.0	<1.0	1.0	7312454
Methylene Chloride(Dichloromethane)	ug/L				<2.0	<2.0	<2.0	2.0	7312454
Methyl Ethyl Ketone (2-Butanone)	ug/L				<10	<10	<10	10	7312454
Methyl Isobutyl Ketone	ug/L				<5.0	<5.0	<5.0	5.0	7312454
Methyl t-butyl ether (MTBE)	ug/L				<0.50	44	3.1	0.50	7312454
Styrene	ug/L				<0.50	<0.50	<0.50	0.50	7312454
1,1,1,2-Tetrachloroethane	ug/L				<0.50	<0.50	<0.50	0.50	7312454
1,1,2,2-Tetrachloroethane	ug/L				<0.50	<0.50	<0.50	0.50	7312454
Tetrachloroethylene	ug/L				<0.20	<0.20	<0.20	0.20	7312454
Toluene	ug/L				<0.20	<0.20	<0.20	0.20	7312454

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

BV Labs ID		PJV375			PJV376	PJV377	PJV378		
Sampling Date		2021/04/22			2021/04/22	2021/04/21	2021/04/21		
COC Number		796018-25-01			796018-25-01	796018-25-01	796018-25-01		
	UNITS	BHMW3 Lab-Dup	RDL	QC Batch	DUP-1	BH1-20	BH3-20	RDL	QC Batch
1,1,1-Trichloroethane	ug/L				<0.20	<0.20	<0.20	0.20	7312454
1,1,2-Trichloroethane	ug/L				<0.50	<0.50	<0.50	0.50	7312454
Trichloroethylene	ug/L				<0.20	<0.20	<0.20	0.20	7312454
Trichlorofluoromethane (FREON 11)	ug/L				<0.50	<0.50	<0.50	0.50	7312454
Vinyl Chloride	ug/L				<0.20	<0.20	<0.20	0.20	7312454
p+m-Xylene	ug/L				0.44	<0.20	0.22	0.20	7312454
o-Xylene	ug/L				<0.20	<0.20	0.24	0.20	7312454
Total Xylenes	ug/L				0.44	<0.20	0.47	0.20	7312454
F1 (C6-C10)	ug/L				29	<25	<25	25	7312454
F1 (C6-C10) - BTEX	ug/L				27	<25	<25	25	7312454
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	7315019	<100	<100	<100	100	7315019
F3 (C16-C34 Hydrocarbons)	ug/L	310	200	7315019	550	<200	<200	200	7315019
F4 (C34-C50 Hydrocarbons)	ug/L	300	200	7315019	740	<200	<200	200	7315019
Reached Baseline at C50	ug/L	Yes		7315019	No	Yes	Yes		7315019
Surrogate Recovery (%)									
o-Terphenyl	%	99		7315019	98	96	95		7315019
4-Bromofluorobenzene	%				99	93	94		7312454
D4-1,2-Dichloroethane	%				107	106	103		7312454
D8-Toluene	%				95	99	97		7312454

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

BV Labs ID		PJV379	PJV380	PJV381		
Sampling Date		2021/04/21	2021/04/21	2021/04/22		
COC Number		796018-25-01	796018-25-01	796018-25-01		
	UNITS	BH4-20	BH5-20	BH2017-10	RDL	QC Batch
Calculated Parameters						
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	0.50	7314912
Volatile Organics						
Acetone (2-Propanone)	ug/L	<10	<10	<10	10	7312454
Benzene	ug/L	<0.20	<0.20	<0.20	0.20	7312454
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	0.50	7312454
Bromoform	ug/L	<1.0	<1.0	<1.0	1.0	7312454
Bromomethane	ug/L	<0.50	<0.50	<0.50	0.50	7312454
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	0.20	7312454
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	0.20	7312454
Chloroform	ug/L	<0.20	<0.20	<0.20	0.20	7312454
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	0.50	7312454
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7312454
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7312454
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	0.50	7312454
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	1.0	7312454
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	7312454
1,2-Dichloroethane	ug/L	2.3	<0.50	<0.50	0.50	7312454
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	7312454
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	7312454
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	0.50	7312454
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	0.20	7312454
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	0.30	7312454
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	0.40	7312454
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	0.20	7312454
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	0.20	7312454
Hexane	ug/L	<1.0	<1.0	<1.0	1.0	7312454
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	2.0	7312454
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	10	7312454
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	5.0	7312454
Methyl t-butyl ether (MTBE)	ug/L	19	<0.50	3.7	0.50	7312454
Styrene	ug/L	<0.50	<0.50	<0.50	0.50	7312454
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	7312454
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	0.50	7312454
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	7312454
Toluene	ug/L	<0.20	<0.20	<0.20	0.20	7312454
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	0.20	7312454

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

BV Labs ID		PJV379	PJV380	PJV381		
Sampling Date		2021/04/21	2021/04/21	2021/04/22		
COC Number		796018-25-01	796018-25-01	796018-25-01		
	UNITS	BH4-20	BH5-20	BH2017-10	RDL	QC Batch
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	0.50	7312454
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	0.20	7312454
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	0.50	7312454
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	0.20	7312454
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	7312454
o-Xylene	ug/L	<0.20	<0.20	<0.20	0.20	7312454
Total Xylenes	ug/L	<0.20	<0.20	<0.20	0.20	7312454
F1 (C6-C10)	ug/L	<25	<25	<25	25	7312454
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	25	7312454
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	100	7315019
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	200	7315019
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	200	7315019
Reached Baseline at C50	ug/L	Yes	Yes	Yes		7315019
Surrogate Recovery (%)						
o-Terphenyl	%	96	96	97		7315019
4-Bromofluorobenzene	%	86	90	89		7312454
D4-1,2-Dichloroethane	%	102	105	98		7312454
D8-Toluene	%	98	93	93		7312454

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

TEST SUMMARY

BV Labs ID: PJV374
Sample ID: BH2-20
Matrix: Water

Collected: 2021/04/22
Shipped:
Received: 2021/04/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7314910	N/A	2021/04/26	Automated Statchk
1,3-Dichloropropene Sum	CALC	7314912	N/A	2021/04/23	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7315019	2021/04/23	2021/04/23	Ksenia Trofimova
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7315015	2021/04/23	2021/04/23	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7312454	N/A	2021/04/23	Anna Gabrielyan

BV Labs ID: PJV374 Dup
Sample ID: BH2-20
Matrix: Water

Collected: 2021/04/22
Shipped:
Received: 2021/04/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7312454	N/A	2021/04/23	Anna Gabrielyan

BV Labs ID: PJV375
Sample ID: BHMW3
Matrix: Water

Collected: 2021/04/22
Shipped:
Received: 2021/04/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7314910	N/A	2021/04/26	Automated Statchk
1,3-Dichloropropene Sum	CALC	7314912	N/A	2021/04/23	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7315019	2021/04/23	2021/04/23	Ksenia Trofimova
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7315015	2021/04/23	2021/04/23	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7312454	N/A	2021/04/23	Anna Gabrielyan

BV Labs ID: PJV375 Dup
Sample ID: BHMW3
Matrix: Water

Collected: 2021/04/22
Shipped:
Received: 2021/04/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7315019	2021/04/23	2021/04/23	Ksenia Trofimova
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7315015	2021/04/23	2021/04/23	Mitesh Raj

BV Labs ID: PJV376
Sample ID: DUP-1
Matrix: Water

Collected: 2021/04/22
Shipped:
Received: 2021/04/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7314910	N/A	2021/04/26	Automated Statchk
1,3-Dichloropropene Sum	CALC	7314912	N/A	2021/04/23	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7315019	2021/04/23	2021/04/23	Ksenia Trofimova
F4G (CCME Hydrocarbons Gravimetric)	BAL	7317128	2021/04/24	2021/04/24	Saumya Modh
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7315015	2021/04/23	2021/04/23	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7312454	N/A	2021/04/23	Anna Gabrielyan

TEST SUMMARY

BV Labs ID: PJV377
Sample ID: BH1-20
Matrix: Water

Collected: 2021/04/21
Shipped:
Received: 2021/04/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7314910	N/A	2021/04/26	Automated Statchk
1,3-Dichloropropene Sum	CALC	7314912	N/A	2021/04/23	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7315019	2021/04/23	2021/04/23	Ksenia Trofimova
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7315015	2021/04/23	2021/04/23	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7312454	N/A	2021/04/23	Anna Gabrielyan

BV Labs ID: PJV378
Sample ID: BH3-20
Matrix: Water

Collected: 2021/04/21
Shipped:
Received: 2021/04/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7314910	N/A	2021/04/26	Automated Statchk
1,3-Dichloropropene Sum	CALC	7314912	N/A	2021/04/23	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7315019	2021/04/23	2021/04/23	Ksenia Trofimova
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7315015	2021/04/23	2021/04/23	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7312454	N/A	2021/04/23	Anna Gabrielyan

BV Labs ID: PJV379
Sample ID: BH4-20
Matrix: Water

Collected: 2021/04/21
Shipped:
Received: 2021/04/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7314910	N/A	2021/04/26	Automated Statchk
1,3-Dichloropropene Sum	CALC	7314912	N/A	2021/04/23	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7315019	2021/04/23	2021/04/23	Ksenia Trofimova
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7315015	2021/04/23	2021/04/23	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7312454	N/A	2021/04/23	Anna Gabrielyan

BV Labs ID: PJV380
Sample ID: BH5-20
Matrix: Water

Collected: 2021/04/21
Shipped:
Received: 2021/04/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7314910	N/A	2021/04/26	Automated Statchk
1,3-Dichloropropene Sum	CALC	7314912	N/A	2021/04/23	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7315019	2021/04/23	2021/04/23	Ksenia Trofimova
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7315015	2021/04/23	2021/04/23	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7312454	N/A	2021/04/23	Anna Gabrielyan

BV Labs ID: PJV381
Sample ID: BH2017-10
Matrix: Water

Collected: 2021/04/22
Shipped:
Received: 2021/04/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7314910	N/A	2021/04/26	Automated Statchk
1,3-Dichloropropene Sum	CALC	7314912	N/A	2021/04/23	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7315019	2021/04/23	2021/04/23	Ksenia Trofimova

TEST SUMMARY

BV Labs ID: PJV381
Sample ID: BH2017-10
Matrix: Water

Collected: 2021/04/22
Shipped:
Received: 2021/04/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7315015	2021/04/23	2021/04/23	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7312454	N/A	2021/04/23	Anna Gabrielyan

BV Labs ID: PJV382
Sample ID: TRIP BLANK
Matrix: Water

Collected: 2021/04/22
Shipped:
Received: 2021/04/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7312454	N/A	2021/04/23	Anna Gabrielyan

Bureau Veritas Laboratories 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvlabs.com

GENERAL COMMENTS

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

Package 1	9.7°C

All 40 ml vials for F1BTEX and VOC analyses contained visible sediment, except for the Trip Blank.
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 Laboratories 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvlabs.com

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7312454	AYA	Matrix Spike [PJV374-03]	4-Bromofluorobenzene	2021/04/23		106	%	70 - 130
			D4-1,2-Dichloroethane	2021/04/23		100	%	70 - 130
			D8-Toluene	2021/04/23		101	%	70 - 130
			Acetone (2-Propanone)	2021/04/23		97	%	60 - 140
			Benzene	2021/04/23		92	%	70 - 130
			Bromodichloromethane	2021/04/23		98	%	70 - 130
			Bromoform	2021/04/23		101	%	70 - 130
			Bromomethane	2021/04/23		88	%	60 - 140
			Carbon Tetrachloride	2021/04/23		94	%	70 - 130
			Chlorobenzene	2021/04/23		97	%	70 - 130
			Chloroform	2021/04/23		94	%	70 - 130
			Dibromochloromethane	2021/04/23		97	%	70 - 130
			1,2-Dichlorobenzene	2021/04/23		100	%	70 - 130
			1,3-Dichlorobenzene	2021/04/23		104	%	70 - 130
			1,4-Dichlorobenzene	2021/04/23		104	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2021/04/23		79	%	60 - 140
			1,1-Dichloroethane	2021/04/23		90	%	70 - 130
			1,2-Dichloroethane	2021/04/23		92	%	70 - 130
			1,1-Dichloroethylene	2021/04/23		94	%	70 - 130
			cis-1,2-Dichloroethylene	2021/04/23		99	%	70 - 130
			trans-1,2-Dichloroethylene	2021/04/23		96	%	70 - 130
			1,2-Dichloropropane	2021/04/23		96	%	70 - 130
			cis-1,3-Dichloropropene	2021/04/23		101	%	70 - 130
			trans-1,3-Dichloropropene	2021/04/23		106	%	70 - 130
			Ethylbenzene	2021/04/23		95	%	70 - 130
			Ethylene Dibromide	2021/04/23		96	%	70 - 130
			Hexane	2021/04/23		94	%	70 - 130
			Methylene Chloride(Dichloromethane)	2021/04/23		108	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2021/04/23		109	%	60 - 140
			Methyl Isobutyl Ketone	2021/04/23		107	%	70 - 130
			Methyl t-butyl ether (MTBE)	2021/04/23		92	%	70 - 130
			Styrene	2021/04/23		111	%	70 - 130
			1,1,1,2-Tetrachloroethane	2021/04/23		98	%	70 - 130
			1,1,2,2-Tetrachloroethane	2021/04/23		99	%	70 - 130
			Tetrachloroethylene	2021/04/23		89	%	70 - 130
			Toluene	2021/04/23		90	%	70 - 130
			1,1,1-Trichloroethane	2021/04/23		99	%	70 - 130
			1,1,2-Trichloroethane	2021/04/23		99	%	70 - 130
			Trichloroethylene	2021/04/23		102	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2021/04/23		92	%	70 - 130
			Vinyl Chloride	2021/04/23		91	%	70 - 130
			p+m-Xylene	2021/04/23		102	%	70 - 130
			o-Xylene	2021/04/23		96	%	70 - 130
			F1 (C6-C10)	2021/04/23		104	%	60 - 140
7312454	AYA	Spiked Blank	4-Bromofluorobenzene	2021/04/23		105	%	70 - 130
			D4-1,2-Dichloroethane	2021/04/23		95	%	70 - 130
			D8-Toluene	2021/04/23		102	%	70 - 130
			Acetone (2-Propanone)	2021/04/23		89	%	60 - 140
			Benzene	2021/04/23		87	%	70 - 130
			Bromodichloromethane	2021/04/23		91	%	70 - 130
			Bromoform	2021/04/23		93	%	70 - 130
			Bromomethane	2021/04/23		88	%	60 - 140
			Carbon Tetrachloride	2021/04/23		91	%	70 - 130
			Chlorobenzene	2021/04/23		92	%	70 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Chloroform	2021/04/23		89	%	70 - 130
			Dibromochloromethane	2021/04/23		90	%	70 - 130
			1,2-Dichlorobenzene	2021/04/23		93	%	70 - 130
			1,3-Dichlorobenzene	2021/04/23		98	%	70 - 130
			1,4-Dichlorobenzene	2021/04/23		98	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2021/04/23		82	%	60 - 140
			1,1-Dichloroethane	2021/04/23		87	%	70 - 130
			1,2-Dichloroethane	2021/04/23		86	%	70 - 130
			1,1-Dichloroethylene	2021/04/23		91	%	70 - 130
			cis-1,2-Dichloroethylene	2021/04/23		93	%	70 - 130
			trans-1,2-Dichloroethylene	2021/04/23		91	%	70 - 130
			1,2-Dichloropropane	2021/04/23		90	%	70 - 130
			cis-1,3-Dichloropropene	2021/04/23		90	%	70 - 130
			trans-1,3-Dichloropropene	2021/04/23		96	%	70 - 130
			Ethylbenzene	2021/04/23		91	%	70 - 130
			Ethylene Dibromide	2021/04/23		89	%	70 - 130
			Hexane	2021/04/23		93	%	70 - 130
			Methylene Chloride(Dichloromethane)	2021/04/23		102	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2021/04/23		98	%	60 - 140
			Methyl Isobutyl Ketone	2021/04/23		96	%	70 - 130
			Methyl t-butyl ether (MTBE)	2021/04/23		88	%	70 - 130
			Styrene	2021/04/23		105	%	70 - 130
			1,1,1,2-Tetrachloroethane	2021/04/23		92	%	70 - 130
			1,1,2,2-Tetrachloroethane	2021/04/23		89	%	70 - 130
			Tetrachloroethylene	2021/04/23		86	%	70 - 130
			Toluene	2021/04/23		88	%	70 - 130
			1,1,1-Trichloroethane	2021/04/23		96	%	70 - 130
			1,1,2-Trichloroethane	2021/04/23		94	%	70 - 130
			Trichloroethylene	2021/04/23		97	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2021/04/23		90	%	70 - 130
			Vinyl Chloride	2021/04/23		90	%	70 - 130
			p+m-Xylene	2021/04/23		98	%	70 - 130
			o-Xylene	2021/04/23		93	%	70 - 130
			F1 (C6-C10)	2021/04/23		100	%	60 - 140
7312454	AYA	Method Blank	4-Bromofluorobenzene	2021/04/23		94	%	70 - 130
			D4-1,2-Dichloroethane	2021/04/23		99	%	70 - 130
			D8-Toluene	2021/04/23		99	%	70 - 130
			Acetone (2-Propanone)	2021/04/23	<10		ug/L	
			Benzene	2021/04/23	<0.20		ug/L	
			Bromodichloromethane	2021/04/23	<0.50		ug/L	
			Bromoform	2021/04/23	<1.0		ug/L	
			Bromomethane	2021/04/23	<0.50		ug/L	
			Carbon Tetrachloride	2021/04/23	<0.20		ug/L	
			Chlorobenzene	2021/04/23	<0.20		ug/L	
			Chloroform	2021/04/23	<0.20		ug/L	
			Dibromochloromethane	2021/04/23	<0.50		ug/L	
			1,2-Dichlorobenzene	2021/04/23	<0.50		ug/L	
			1,3-Dichlorobenzene	2021/04/23	<0.50		ug/L	
			1,4-Dichlorobenzene	2021/04/23	<0.50		ug/L	
			Dichlorodifluoromethane (FREON 12)	2021/04/23	<1.0		ug/L	
			1,1-Dichloroethane	2021/04/23	<0.20		ug/L	
			1,2-Dichloroethane	2021/04/23	<0.50		ug/L	
			1,1-Dichloroethylene	2021/04/23	<0.20		ug/L	
			cis-1,2-Dichloroethylene	2021/04/23	<0.50		ug/L	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			trans-1,2-Dichloroethylene	2021/04/23	<0.50		ug/L	
			1,2-Dichloropropane	2021/04/23	<0.20		ug/L	
			cis-1,3-Dichloropropene	2021/04/23	<0.30		ug/L	
			trans-1,3-Dichloropropene	2021/04/23	<0.40		ug/L	
			Ethylbenzene	2021/04/23	<0.20		ug/L	
			Ethylene Dibromide	2021/04/23	<0.20		ug/L	
			Hexane	2021/04/23	<1.0		ug/L	
			Methylene Chloride(Dichloromethane)	2021/04/23	<2.0		ug/L	
			Methyl Ethyl Ketone (2-Butanone)	2021/04/23	<10		ug/L	
			Methyl Isobutyl Ketone	2021/04/23	<5.0		ug/L	
			Methyl t-butyl ether (MTBE)	2021/04/23	<0.50		ug/L	
			Styrene	2021/04/23	<0.50		ug/L	
			1,1,1,2-Tetrachloroethane	2021/04/23	<0.50		ug/L	
			1,1,2,2-Tetrachloroethane	2021/04/23	<0.50		ug/L	
			Tetrachloroethylene	2021/04/23	<0.20		ug/L	
			Toluene	2021/04/23	<0.20		ug/L	
			1,1,1-Trichloroethane	2021/04/23	<0.20		ug/L	
			1,1,2-Trichloroethane	2021/04/23	<0.50		ug/L	
			Trichloroethylene	2021/04/23	<0.20		ug/L	
			Trichlorofluoromethane (FREON 11)	2021/04/23	<0.50		ug/L	
			Vinyl Chloride	2021/04/23	<0.20		ug/L	
			p+m-Xylene	2021/04/23	<0.20		ug/L	
			o-Xylene	2021/04/23	<0.20		ug/L	
			Total Xylenes	2021/04/23	<0.20		ug/L	
			F1 (C6-C10)	2021/04/23	<25		ug/L	
			F1 (C6-C10) - BTEX	2021/04/23	<25		ug/L	
7312454	AYA	RPD [PJV374-03]	Acetone (2-Propanone)	2021/04/23	NC		%	30
			Benzene	2021/04/23	NC		%	30
			Bromodichloromethane	2021/04/23	NC		%	30
			Bromoform	2021/04/23	NC		%	30
			Bromomethane	2021/04/23	NC		%	30
			Carbon Tetrachloride	2021/04/23	NC		%	30
			Chlorobenzene	2021/04/23	NC		%	30
			Chloroform	2021/04/23	NC		%	30
			Dibromochloromethane	2021/04/23	NC		%	30
			1,2-Dichlorobenzene	2021/04/23	NC		%	30
			1,3-Dichlorobenzene	2021/04/23	NC		%	30
			1,4-Dichlorobenzene	2021/04/23	NC		%	30
			Dichlorodifluoromethane (FREON 12)	2021/04/23	NC		%	30
			1,1-Dichloroethane	2021/04/23	NC		%	30
			1,2-Dichloroethane	2021/04/23	NC		%	30
			1,1-Dichloroethylene	2021/04/23	NC		%	30
			cis-1,2-Dichloroethylene	2021/04/23	NC		%	30
			trans-1,2-Dichloroethylene	2021/04/23	NC		%	30
			1,2-Dichloropropane	2021/04/23	NC		%	30
			cis-1,3-Dichloropropene	2021/04/23	NC		%	30
			trans-1,3-Dichloropropene	2021/04/23	NC		%	30
			Ethylbenzene	2021/04/23	NC		%	30
			Ethylene Dibromide	2021/04/23	NC		%	30
			Hexane	2021/04/23	NC		%	30
			Methylene Chloride(Dichloromethane)	2021/04/23	NC		%	30
			Methyl Ethyl Ketone (2-Butanone)	2021/04/23	NC		%	30
			Methyl Isobutyl Ketone	2021/04/23	NC		%	30
			Methyl t-butyl ether (MTBE)	2021/04/23	NC		%	30

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Styrene	2021/04/23	NC		%	30
			1,1,1,2-Tetrachloroethane	2021/04/23	NC		%	30
			1,1,2,2-Tetrachloroethane	2021/04/23	NC		%	30
			Tetrachloroethylene	2021/04/23	NC		%	30
			Toluene	2021/04/23	NC		%	30
			1,1,1-Trichloroethane	2021/04/23	NC		%	30
			1,1,2-Trichloroethane	2021/04/23	NC		%	30
			Trichloroethylene	2021/04/23	NC		%	30
			Trichlorofluoromethane (FREON 11)	2021/04/23	NC		%	30
			Vinyl Chloride	2021/04/23	NC		%	30
			p+m-Xylene	2021/04/23	NC		%	30
			o-Xylene	2021/04/23	NC		%	30
			Total Xylenes	2021/04/23	NC		%	30
			F1 (C6-C10)	2021/04/23	NC		%	30
			F1 (C6-C10) - BTEX	2021/04/23	NC		%	30
7315015	RAJ	Matrix Spike [PJV374-02]	D10-Anthracene	2021/04/23		103	%	50 - 130
			D14-Terphenyl (FS)	2021/04/23		89	%	50 - 130
			D8-Acenaphthylene	2021/04/23		102	%	50 - 130
			Acenaphthene	2021/04/23		108	%	50 - 130
			Acenaphthylene	2021/04/23		103	%	50 - 130
			Anthracene	2021/04/23		105	%	50 - 130
			Benzo(a)anthracene	2021/04/23		110	%	50 - 130
			Benzo(a)pyrene	2021/04/23		97	%	50 - 130
			Benzo(b/j)fluoranthene	2021/04/23		111	%	50 - 130
			Benzo(g,h,i)perylene	2021/04/23		113	%	50 - 130
			Benzo(k)fluoranthene	2021/04/23		104	%	50 - 130
			Chrysene	2021/04/23		114	%	50 - 130
			Dibenzo(a,h)anthracene	2021/04/23		106	%	50 - 130
			Fluoranthene	2021/04/23		113	%	50 - 130
			Fluorene	2021/04/23		106	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/04/23		115	%	50 - 130
			1-Methylnaphthalene	2021/04/23		109	%	50 - 130
			2-Methylnaphthalene	2021/04/23		107	%	50 - 130
			Naphthalene	2021/04/23		103	%	50 - 130
			Phenanthrene	2021/04/23		115	%	50 - 130
			Pyrene	2021/04/23		113	%	50 - 130
7315015	RAJ	Spiked Blank	D10-Anthracene	2021/04/23		103	%	50 - 130
			D14-Terphenyl (FS)	2021/04/23		96	%	50 - 130
			D8-Acenaphthylene	2021/04/23		98	%	50 - 130
			Acenaphthene	2021/04/23		109	%	50 - 130
			Acenaphthylene	2021/04/23		101	%	50 - 130
			Anthracene	2021/04/23		106	%	50 - 130
			Benzo(a)anthracene	2021/04/23		108	%	50 - 130
			Benzo(a)pyrene	2021/04/23		99	%	50 - 130
			Benzo(b/j)fluoranthene	2021/04/23		116	%	50 - 130
			Benzo(g,h,i)perylene	2021/04/23		112	%	50 - 130
			Benzo(k)fluoranthene	2021/04/23		109	%	50 - 130
			Chrysene	2021/04/23		118	%	50 - 130
			Dibenzo(a,h)anthracene	2021/04/23		104	%	50 - 130
			Fluoranthene	2021/04/23		116	%	50 - 130
			Fluorene	2021/04/23		107	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/04/23		115	%	50 - 130
			1-Methylnaphthalene	2021/04/23		105	%	50 - 130
			2-Methylnaphthalene	2021/04/23		103	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Naphthalene	2021/04/23		101	%	50 - 130
			Phenanthrene	2021/04/23		116	%	50 - 130
			Pyrene	2021/04/23		116	%	50 - 130
7315015	RAJ	Method Blank	D10-Anthracene	2021/04/23		96	%	50 - 130
			D14-Terphenyl (FS)	2021/04/23		89	%	50 - 130
			D8-Acenaphthylene	2021/04/23		90	%	50 - 130
			Acenaphthene	2021/04/23	<0.050		ug/L	
			Acenaphthylene	2021/04/23	<0.050		ug/L	
			Anthracene	2021/04/23	<0.050		ug/L	
			Benzo(a)anthracene	2021/04/23	<0.050		ug/L	
			Benzo(a)pyrene	2021/04/23	<0.0090		ug/L	
			Benzo(b/j)fluoranthene	2021/04/23	<0.050		ug/L	
			Benzo(g,h,i)perylene	2021/04/23	<0.050		ug/L	
			Benzo(k)fluoranthene	2021/04/23	<0.050		ug/L	
			Chrysene	2021/04/23	<0.050		ug/L	
			Dibenzo(a,h)anthracene	2021/04/23	<0.050		ug/L	
			Fluoranthene	2021/04/23	<0.050		ug/L	
			Fluorene	2021/04/23	<0.050		ug/L	
			Indeno(1,2,3-cd)pyrene	2021/04/23	<0.050		ug/L	
			1-Methylnaphthalene	2021/04/23	<0.050		ug/L	
			2-Methylnaphthalene	2021/04/23	<0.050		ug/L	
			Naphthalene	2021/04/23	<0.050		ug/L	
			Phenanthrene	2021/04/23	<0.030		ug/L	
			Pyrene	2021/04/23	<0.050		ug/L	
7315015	RAJ	RPD [PJV375-02]	Acenaphthene	2021/04/23	NC		%	30
			Acenaphthylene	2021/04/23	NC		%	30
			Anthracene	2021/04/23	NC		%	30
			Benzo(a)anthracene	2021/04/23	NC		%	30
			Benzo(a)pyrene	2021/04/23	19		%	30
			Benzo(b/j)fluoranthene	2021/04/23	25		%	30
			Benzo(g,h,i)perylene	2021/04/23	4.3		%	30
			Benzo(k)fluoranthene	2021/04/23	NC		%	30
			Chrysene	2021/04/23	NC		%	30
			Dibenzo(a,h)anthracene	2021/04/23	NC		%	30
			Fluoranthene	2021/04/23	19		%	30
			Fluorene	2021/04/23	NC		%	30
			Indeno(1,2,3-cd)pyrene	2021/04/23	NC		%	30
			1-Methylnaphthalene	2021/04/23	23		%	30
			2-Methylnaphthalene	2021/04/23	23		%	30
			Naphthalene	2021/04/23	14		%	30
			Phenanthrene	2021/04/23	25		%	30
			Pyrene	2021/04/23	23		%	30
7315019	KTR	Matrix Spike [PJV376-02]	o-Terphenyl	2021/04/23		100	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/04/23		87	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2021/04/23		NC	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2021/04/23		NC	%	60 - 130
7315019	KTR	Spiked Blank	o-Terphenyl	2021/04/23		101	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/04/23		111	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2021/04/23		116	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2021/04/23		116	%	60 - 130
7315019	KTR	Method Blank	o-Terphenyl	2021/04/23		95	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/04/23	<100		ug/L	
			F3 (C16-C34 Hydrocarbons)	2021/04/23	<200		ug/L	
			F4 (C34-C50 Hydrocarbons)	2021/04/23	<200		ug/L	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7315019	KTR	RPD [PJV375-02]	F2 (C10-C16 Hydrocarbons)	2021/04/23	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2021/04/23	24		%	30
			F4 (C34-C50 Hydrocarbons)	2021/04/23	NC		%	30
7317128	SA5	Spiked Blank	F4G-sg (Grav. Heavy Hydrocarbons)	2021/04/24		93	%	65 - 135
7317128	SA5	RPD	F4G-sg (Grav. Heavy Hydrocarbons)	2021/04/24	0		%	20
7317128	SA5	Method Blank	F4G-sg (Grav. Heavy Hydrocarbons)	2021/04/24	<500		ug/L	

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.

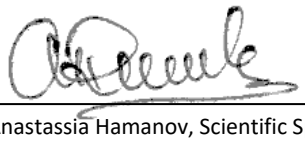
Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

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 <= 2x RDL).

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Anastassia Hamanov, Scientific Specialist

BV Labs 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 Laboratories 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvlabs.com

22-Apr-21 12:00
Antonella Brasil
C1A7975

J_L ENV-1324

Presence of Visible Particulate/Sediment

Maxxam Analytics
CAM FCD-01013/5
Page 1 of 1

When there is >1cm of visible particulate/sediment, the amount will be recorded in the field below

			Bottle Types																													
			Inorganics					Organics											Hydrocarbons							Volatiles				Other
	Sample ID	All	CrVI	CN	General	$Hg_{...}$	Metals (Diss.)	Organic 1 of 2	Organic 2 of 2	PCB 1 of 2	PCB 2 of 2	Pest/ Herb 1 of 2	Pest/ Herb 2 of 2	SVOC/ ABN 1 of 2	SVOC/ ABN 2 of 2	PAH 1 of 2	PAH 2 of 2	Dioxin /Furan	F1 Vial 1	F1 Vial 2	F1 Vial 3	F1 Vial 4	F2-F4 1 of 2	F2-F4 2 of 2	F4G	VOC Vial 1	VOC Vial 2	VOC Vial 3	VOC Vial 4	
1	BH2-20	TS																														
2	BHMW3	↓																														
3	Dup-1																															
4	BH1-20																															
5	BH3-20																															
6	BH4-20																															
7	BH5-20																															
8	BH2017-10	↓																														
9																																
10																																

Comments:

Legend:	
P	Suspended Particulate
TS	Trace Settled Sediment (just covers bottom of container or less)
S	Sediment greater than (>) Trace, but less than (<) 1 cm

Recorded By: (signature/print)

BUREAU VERITAS

RUSH!

Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel (905) 817-5700 Toll-free 800-563-6266 Fax (905) 817-5777 www.bvlabs.com

22-Apr-21 12:00
Antonella Brasil
C1A7975

Page 1 of 1

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:			
Company Name:	#982 Pinchin Ltd	Company Name:		Quotation #:	A70927	J_L	ENV-1324
Attention:	Accounts Payable	Attention:	Matt, Ryan, Mike	P.O. #:			
Address:	1 Hines Road Suite 200 Kanata ON K2K 3C7	Address:		Project:	285722.003		
Tel:	(613) 592-3387 Fax: (613) 592-5897	Tel:	Fax:	Project Name:			
Email:	ap@pinchin.com	Email:	mkosiw@Pinchin.com, rlaronde@pinchin.com; mryan@	Site #:			
				Sampled By:	M. Kosiw		

Bottle Order #: 796018
COC #: C#796018-25-01
Project Manager: Antonella Brasil

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☒ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☒ Coarse ☒ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___	☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ___ ☐ PWQO ☐ Reg 406 Table ___ ☐ Other ___	

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects
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 Dioxins/Furans are > 5 days - contact your Project Manager for details.
Job Specific Rush TAT (if applies to entire submission)
Date Required: ASAP (April 23) Time Required:
Rush Confirmation Number: ABR042120 (call lab for #)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	O.Reg 153 ICPMS Metals (Soil) GW	O.Reg 153 PHCs, BTEX/F1-F4 (Soil) GW	O.Reg 153 VOCs by HS (Soil) GW	O.Reg 153 PAHs (Soil) GW	pH CaCl2 EXTRACT	Sieve, 75um					# of Bottles	Comments
1		BH2-20	April 22, 2021	AM	GW			X	X	X							5	
2		BHMW3	↓	↓	↓			X	X	X							5	
3		Dup-1	↓	↓	↓			X	X	X							5	
4		BH1-20	April 21, 2021	PM	↓			X	X	X							5	
5		BH3-20	↓	↓	↓			X	X	X							5	
6		BH4-20	↓	↓	↓			X	X	X							5	ON Ice pack
7		BH5-20	↓	↓	↓			X	X	X							5	
8		BH2017-10	April 22 2021	AM	↓			X	X	X							5	
9		Trip Blank	↓	↓	↓			X	X								2	VOCs + F1
10																		

RECEIVED IN OTTAWA

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Mike Kosiw	April 22 2021	11:30 AM	[illegible]	21/04/22	12:00	
			[illegible]	2021/04/23	08:00	

Laboratory Use Only

Time Sensitive	Temperature (°C) on Receipt	Custody Seal Present	Yes	No
	10 | 10 | 9	Intact	☒	

4, 3, 4
ON Ice

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

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

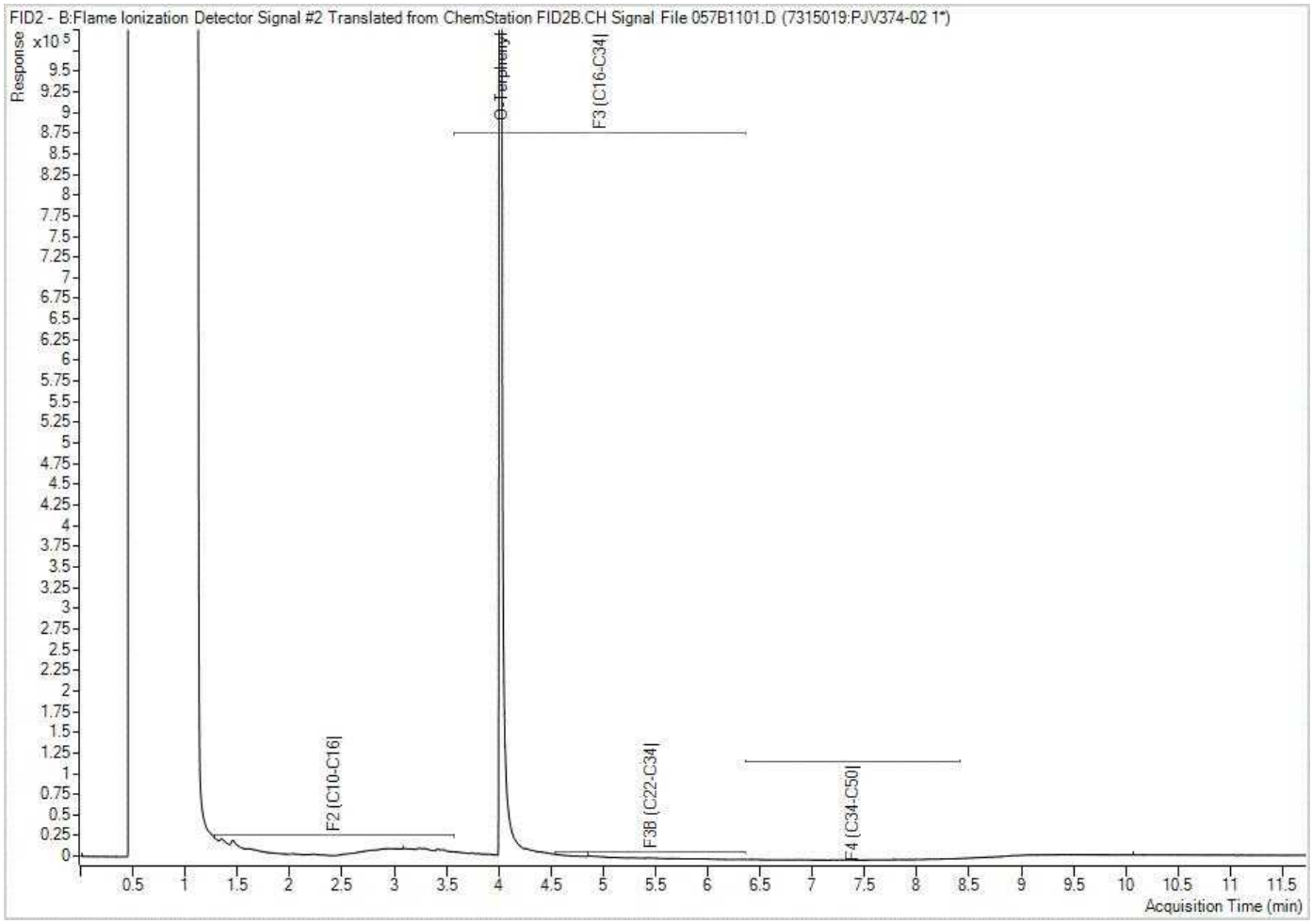
White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

BV Labs Job #: C1A7975
Report Date: 2021/04/26
BV Labs Sample: PJV374

Pinchin Ltd
Client Project #: 285722.003
Client ID: BH2-20

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

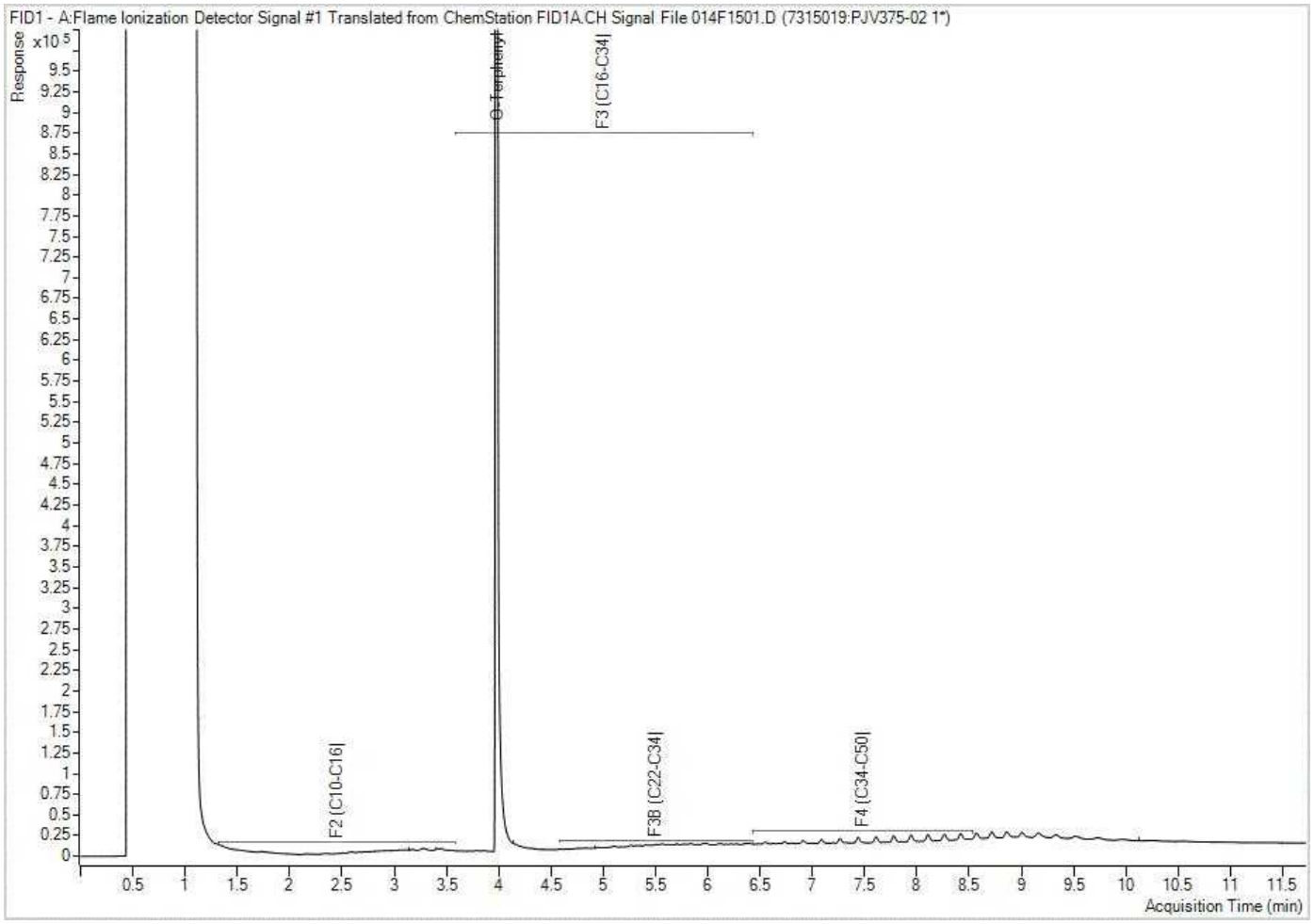


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1A7975
Report Date: 2021/04/26
BV Labs Sample: PJV375

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW3

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

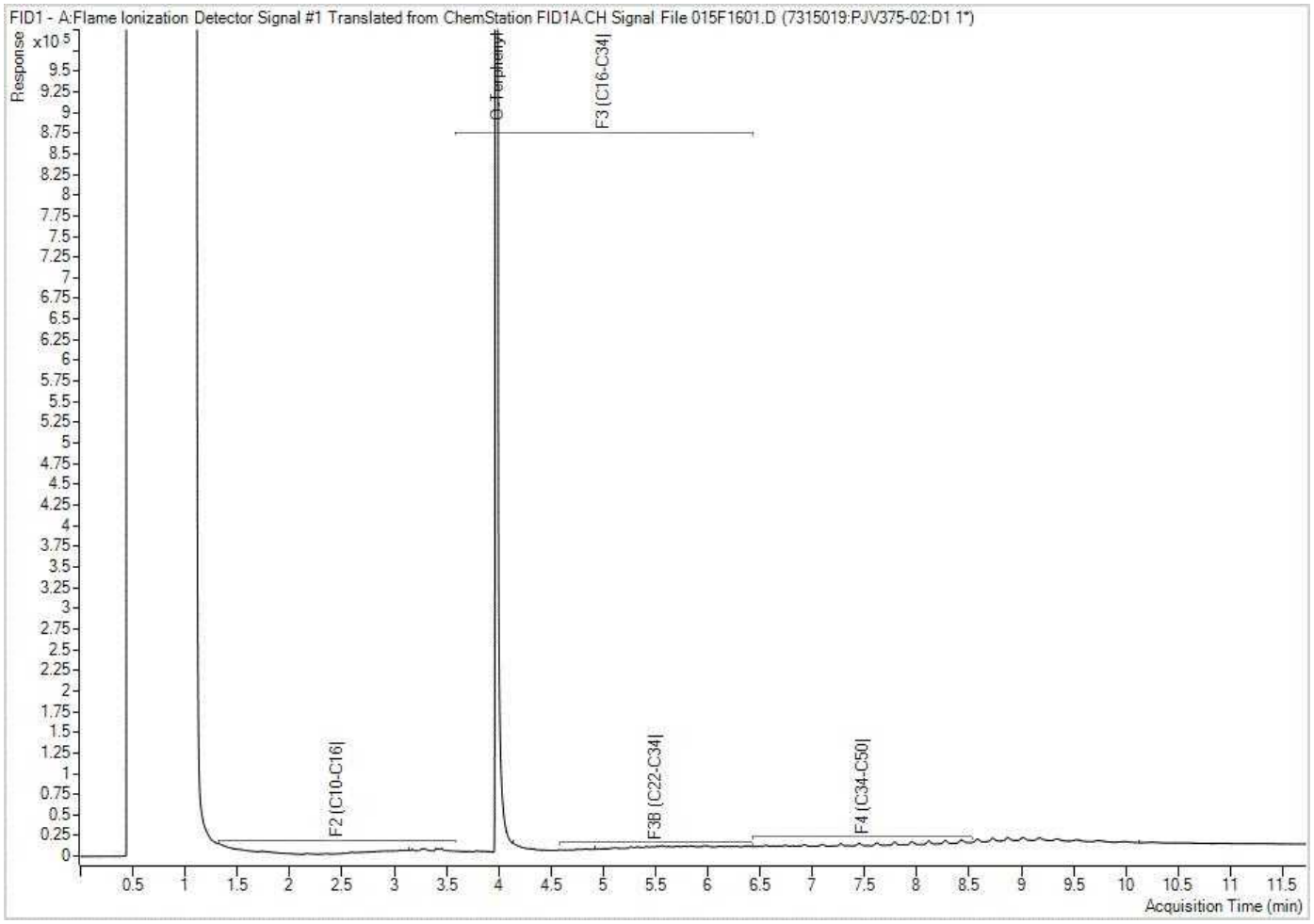


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1A7975
Report Date: 2021/04/26
BV Labs Sample: PJV375 Lab-Dup

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW3

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

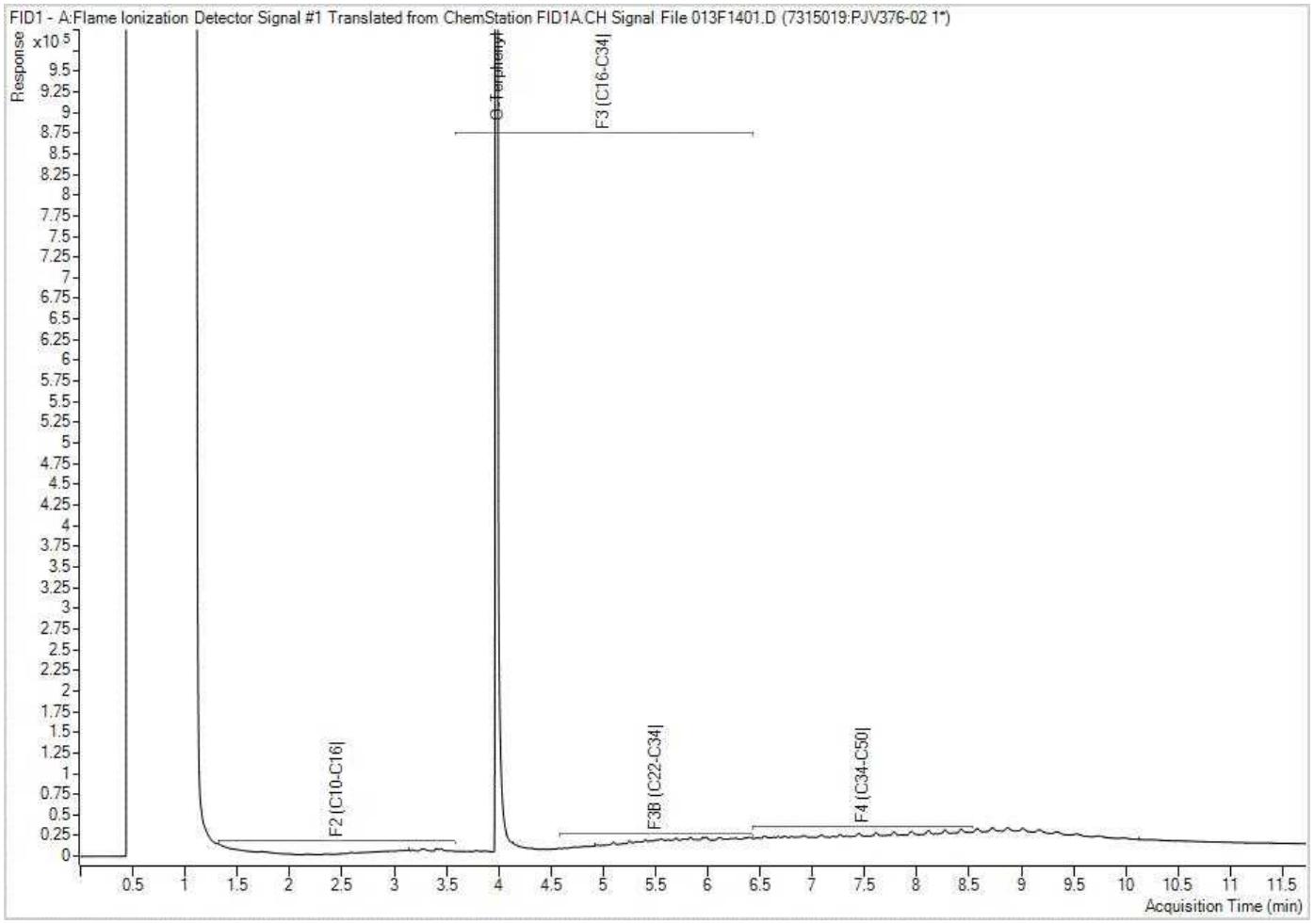


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1A7975
Report Date: 2021/04/26
BV Labs Sample: PJV376

Pinchin Ltd
Client Project #: 285722.003
Client ID: DUP-1

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

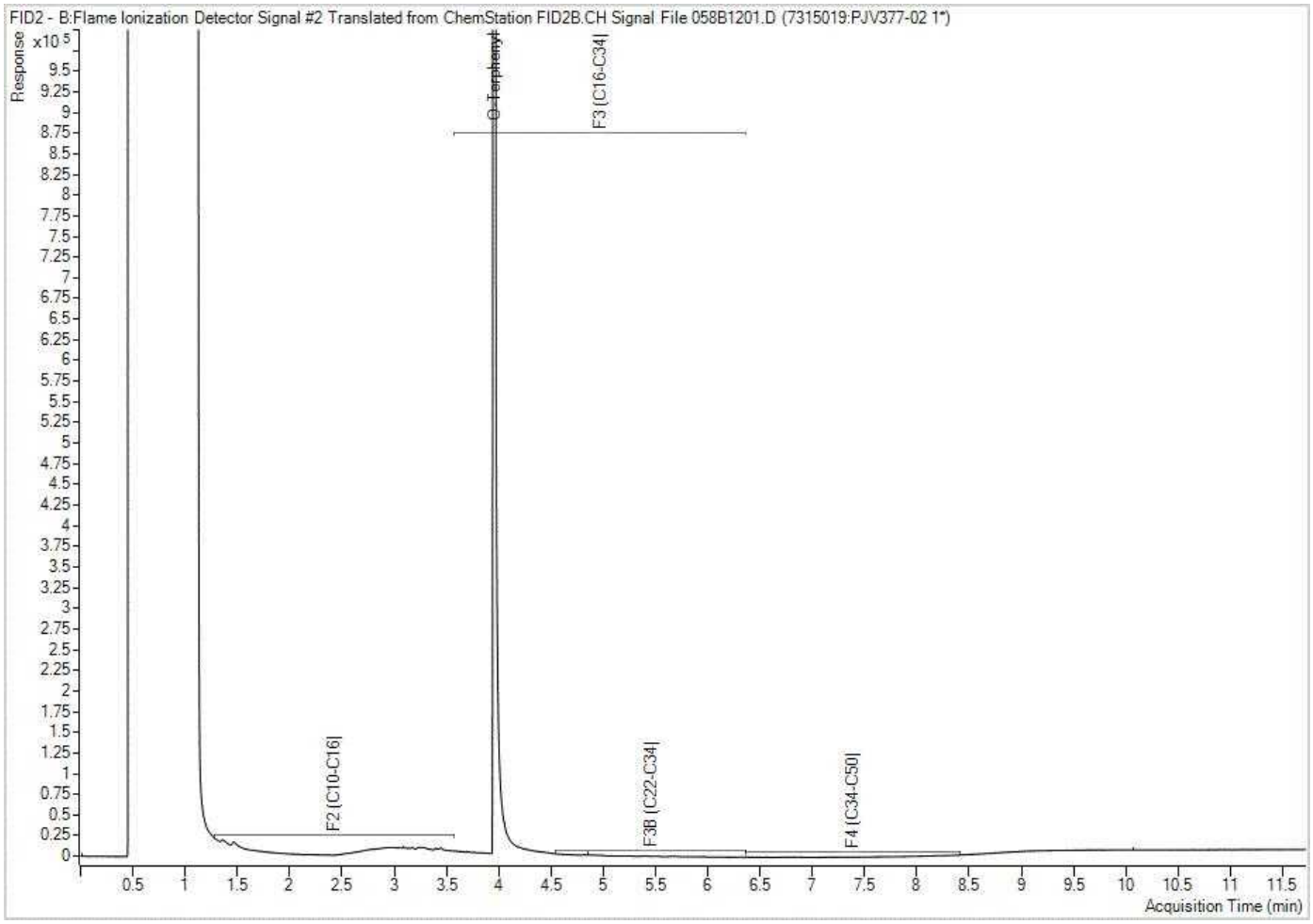


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1A7975
Report Date: 2021/04/26
BV Labs Sample: PJV377

Pinchin Ltd
Client Project #: 285722.003
Client ID: BH1-20

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

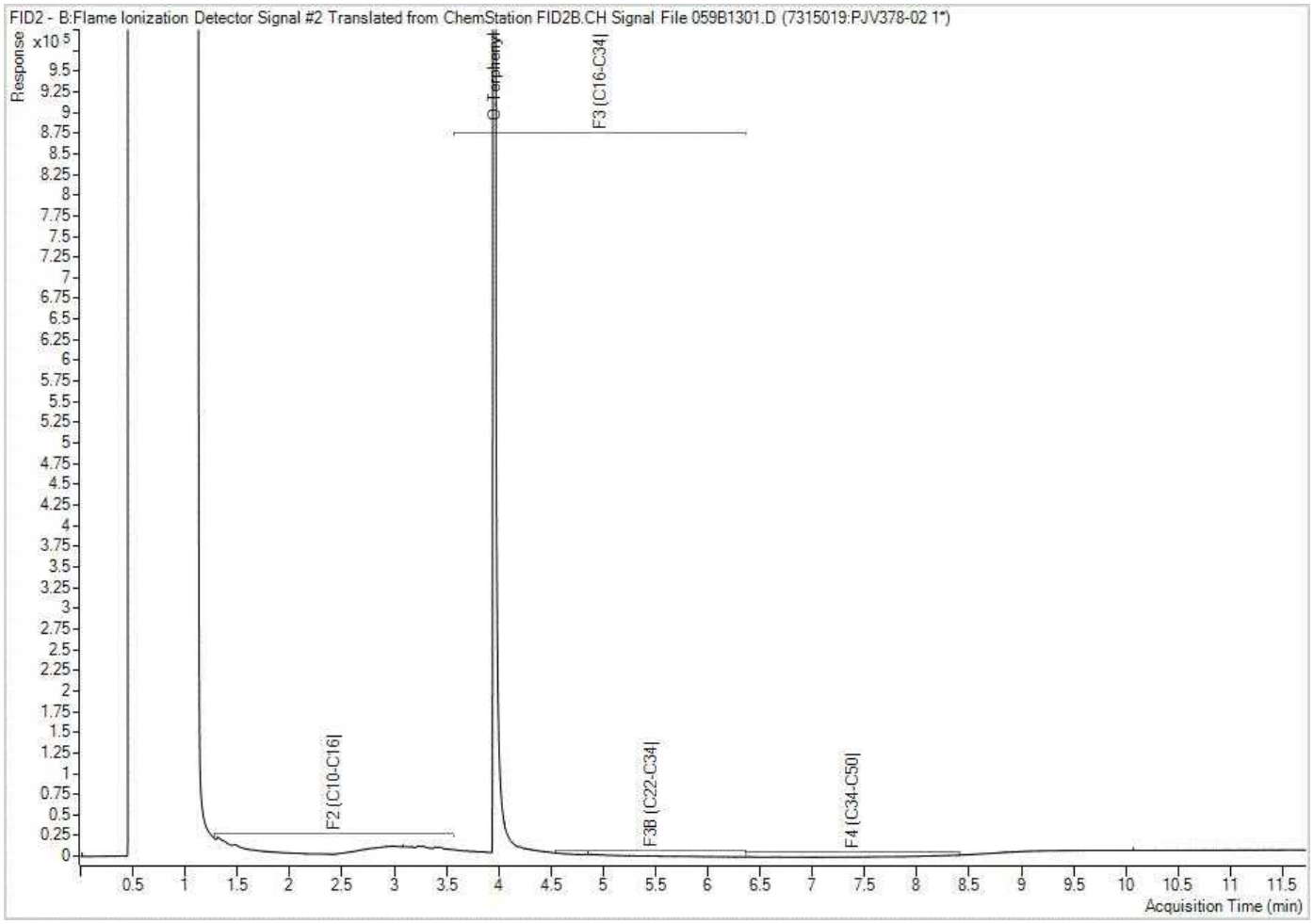


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1A7975
Report Date: 2021/04/26
BV Labs Sample: PJV378

Pinchin Ltd
Client Project #: 285722.003
Client ID: BH3-20

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

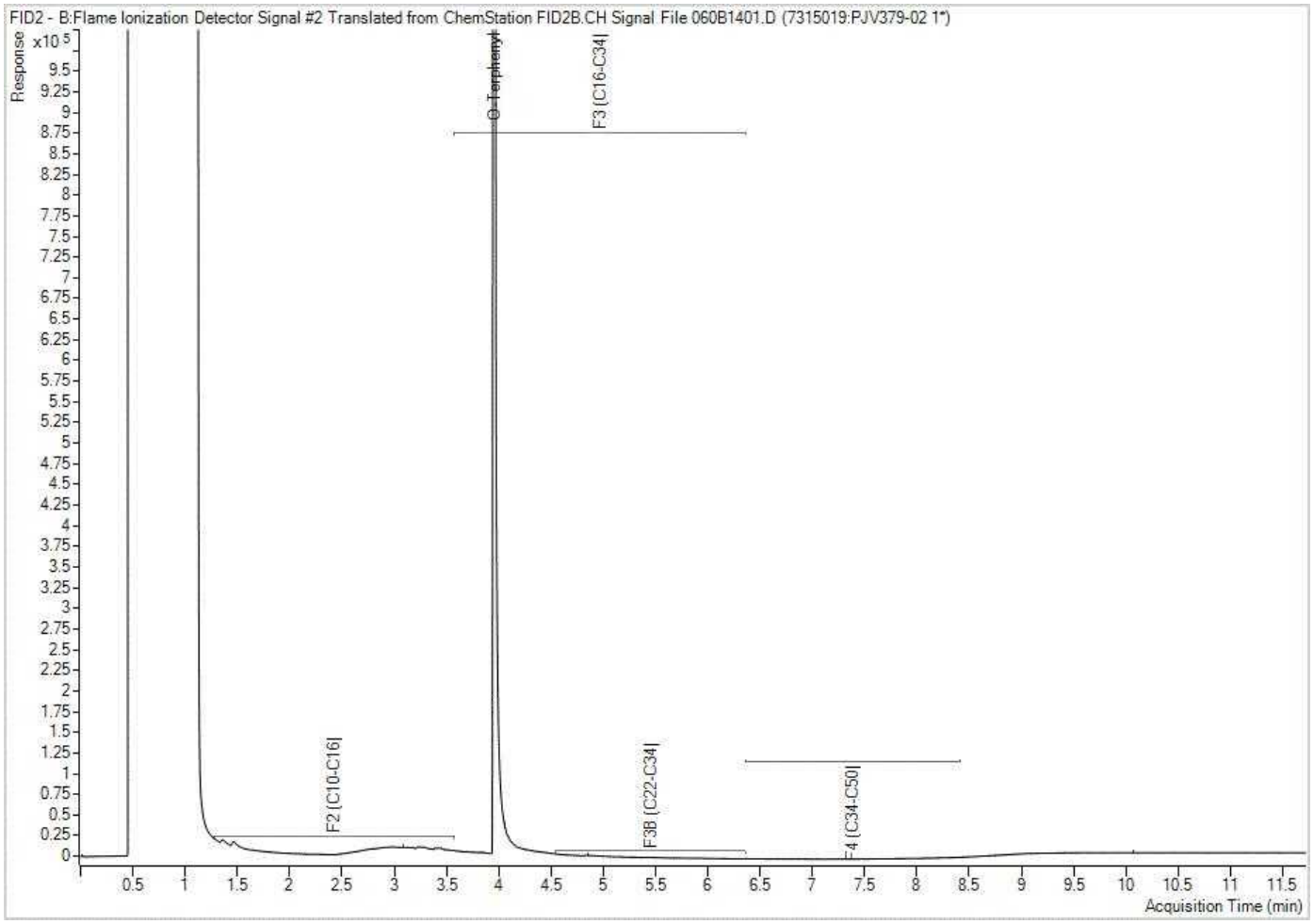


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1A7975
Report Date: 2021/04/26
BV Labs Sample: PJV379

Pinchin Ltd
Client Project #: 285722.003
Client ID: BH4-20

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

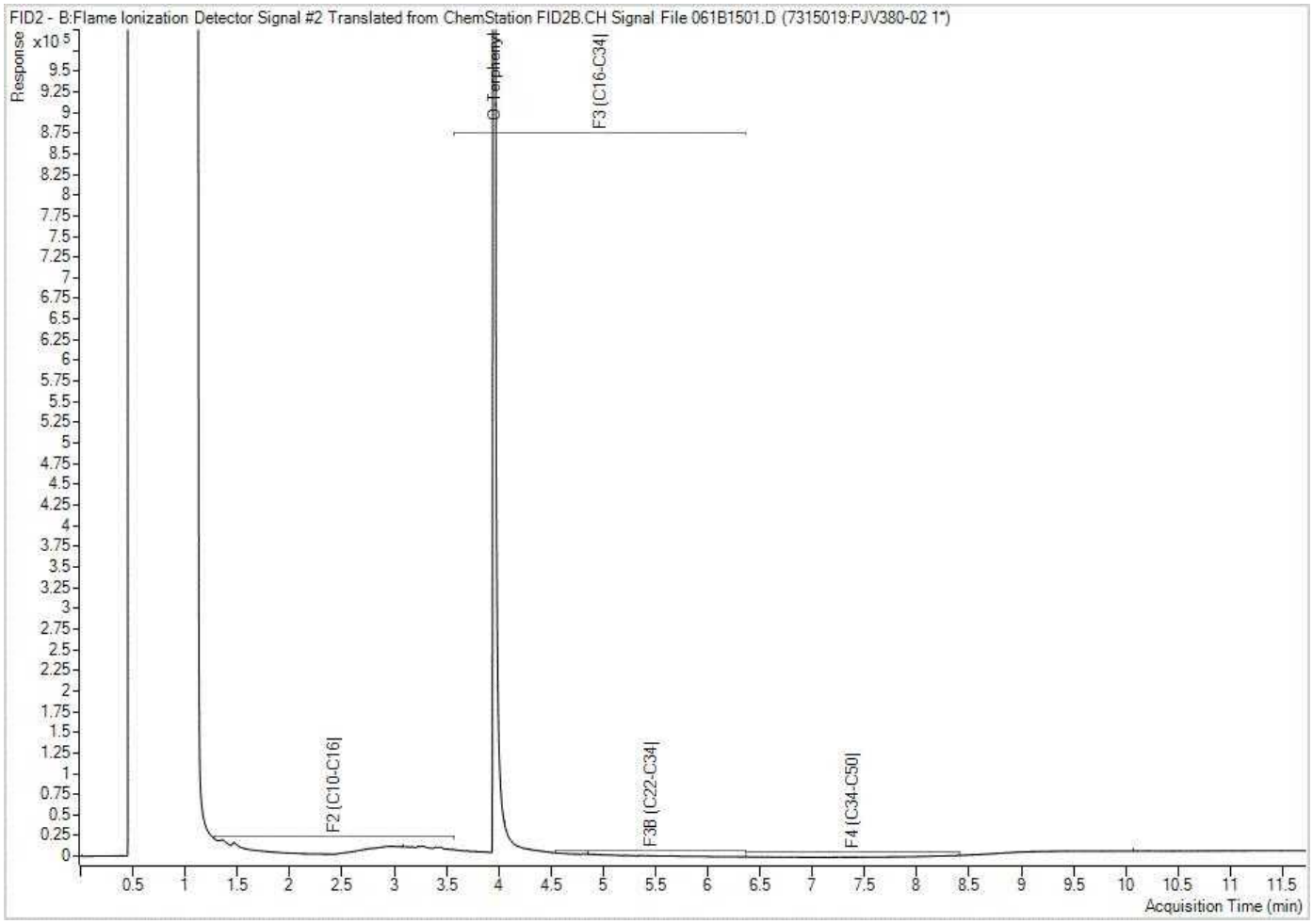


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1A7975
Report Date: 2021/04/26
BV Labs Sample: PJV380

Pinchin Ltd
Client Project #: 285722.003
Client ID: BH5-20

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

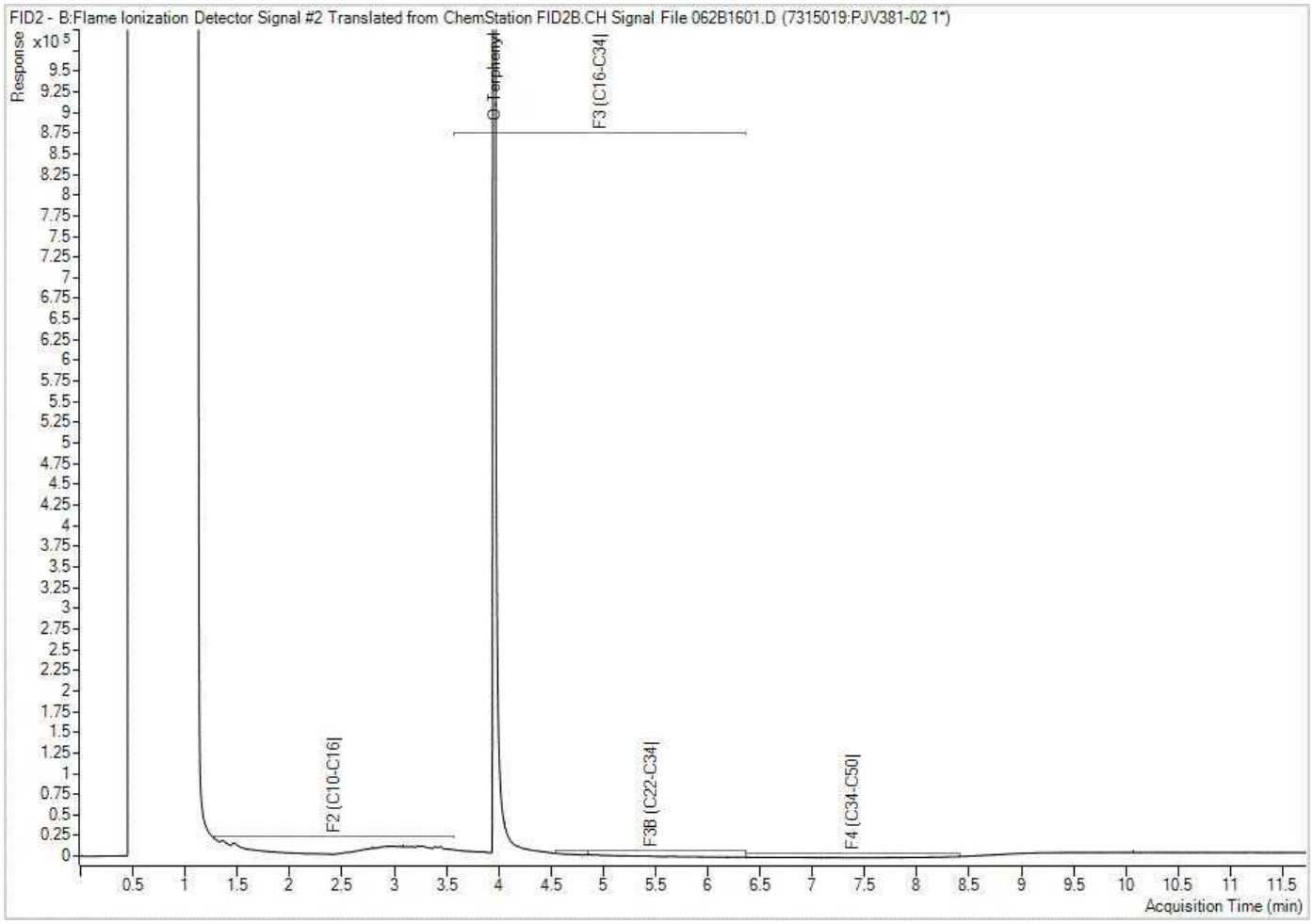


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1A7975
Report Date: 2021/04/26
BV Labs Sample: PJV381

Pinchin Ltd
Client Project #: 285722.003
Client ID: BH2017-10

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 #: 285722.003

Attention: Matt, Ryan, Mike

Pinchin Ltd
Ottawa
1 Hines Road
Suite 200
Kanata, ON
CANADA K2K 3C7

Your C.O.C. #: 823853-01-01, 823853-02-01, 823853-03-01

Report Date: 2021/05/06
Report #: R6624111
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1B6083
Received: 2021/04/29, 12:45

Sample Matrix: Soil
Samples Received: 27

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum (1)	18	N/A	2021/05/05	CAM SOP-00301	EPA 8270D m
Methylnaphthalene Sum (1)	7	N/A	2021/05/06	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum (1)	10	N/A	2021/05/06		EPA 8260C m
Petroleum Hydro. CCME F1 & BTEX in Soil (1, 2)	15	N/A	2021/05/04	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (1, 3)	24	2021/05/03	2021/05/04	CAM SOP-00316	CCME CWS m
Petroleum Hydrocarbons F2-F4 in Soil (1, 3)	1	2021/05/04	2021/05/05	CAM SOP-00316	CCME CWS m
F4G (CCME Hydrocarbons Gravimetric) (1)	3	2021/05/06	2021/05/06	CAM SOP-00316	CCME PHC-CWS m
Acid Extractable Metals by ICPMS (1)	12	2021/05/03	2021/05/05	CAM SOP-00447	EPA 6020B m
Moisture (1)	27	N/A	2021/04/30	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM) (1)	25	2021/05/03	2021/05/04	CAM SOP-00318	EPA 8270D m
pH CaCl2 EXTRACT (1)	10	2021/05/05	2021/05/05	CAM SOP-00413	EPA 9045 D m
Sieve, 75um (1)	10	N/A	2021/05/04	CAM SOP-00467	ASTM D1140 -17 m
Volatile Organic Compounds and F1 PHCs (1)	10	N/A	2021/05/06	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.

Your Project #: 285722.003

Attention: Matt, Ryan, Mike

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Your C.O.C. #: 823853-01-01, 823853-02-01, 823853-03-01

Report Date: 2021/05/06
Report #: R6624111
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1B6083
Received: 2021/04/29, 12:45

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.

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) This test was performed by Bureau Veritas Mississauga
(2) 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.
(3) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas Laboratories 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

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
==========
BV Labs 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.

BV Labs Job #: C1B6083
Report Date: 2021/05/06

Pinchin Ltd
Client Project #: 285722.003
Sampler Initials: MK

O.REG 153 ICPMS METALS (SOIL)

BV Labs ID		PLN551	PLN553	PLN555	PLN557	PLN559		
Sampling Date		2021/04/26	2021/04/26	2021/04/26	2021/04/26	2021/04/26		
COC Number		823853-01-01	823853-01-01	823853-01-01	823853-01-01	823853-01-01		
	UNITS	BH101 SS-2	BH102 SS-2	BH103 SS-2	BH104 SS-4	BH105 SS-2	RDL	QC Batch
Metals								
Acid Extractable Antimony (Sb)	ug/g	1.0	1.5	0.38	3.8	1.1	0.20	7330536
Acid Extractable Arsenic (As)	ug/g	12	23	5.1	16	7.9	1.0	7330536
Acid Extractable Barium (Ba)	ug/g	300	360	40	150	100	0.50	7330536
Acid Extractable Beryllium (Be)	ug/g	0.71	1.3	0.33	0.33	0.39	0.20	7330536
Acid Extractable Boron (B)	ug/g	7.7	11	11	12	9.0	5.0	7330536
Acid Extractable Cadmium (Cd)	ug/g	0.61	0.48	0.15	0.76	0.15	0.10	7330536
Acid Extractable Chromium (Cr)	ug/g	84	77	30	26	19	1.0	7330536
Acid Extractable Cobalt (Co)	ug/g	17	16	6.8	13	6.6	0.10	7330536
Acid Extractable Copper (Cu)	ug/g	120	66	16	130	19	0.50	7330536
Acid Extractable Lead (Pb)	ug/g	90	150	51	500	45	1.0	7330536
Acid Extractable Molybdenum (Mo)	ug/g	1.6	2.4	2.8	2.2	0.92	0.50	7330536
Acid Extractable Nickel (Ni)	ug/g	49	48	18	23	15	0.50	7330536
Acid Extractable Selenium (Se)	ug/g	0.96	2.5	<0.50	0.53	<0.50	0.50	7330536
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	<0.20	1.2	<0.20	0.20	7330536
Acid Extractable Thallium (Tl)	ug/g	0.36	0.53	0.33	0.11	0.15	0.050	7330536
Acid Extractable Uranium (U)	ug/g	0.82	0.99	0.58	0.46	0.51	0.050	7330536
Acid Extractable Vanadium (V)	ug/g	79	75	31	25	28	5.0	7330536
Acid Extractable Zinc (Zn)	ug/g	210	280	65	200	56	5.0	7330536
Acid Extractable Mercury (Hg)	ug/g	0.26	0.23	<0.050	0.18	0.079	0.050	7330536

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 ICPMS METALS (SOIL)

BV Labs ID		PLN575	PLN577	PLN578	PLN580	PLN637		
Sampling Date		2021/04/26	2021/04/26	2021/04/26	2021/04/26	2021/04/27		
COC Number		823853-02-01	823853-02-01	823853-02-01	823853-02-01	823853-03-01		
	UNITS	BH106 SS-4	BH107 SS-3	DUP-1	BHMW108 SS-2	BHMW12 SS-3	RDL	QC Batch
Metals								
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7330536
Acid Extractable Arsenic (As)	ug/g	1.8	2.0	1.5	<1.0	1.6	1.0	7330536
Acid Extractable Barium (Ba)	ug/g	43	43	47	31	430	0.50	7330536
Acid Extractable Beryllium (Be)	ug/g	0.25	0.32	0.25	0.20	0.92	0.20	7330536
Acid Extractable Boron (B)	ug/g	7.0	9.7	7.7	5.4	8.8	5.0	7330536
Acid Extractable Cadmium (Cd)	ug/g	<0.10	<0.10	<0.10	<0.10	0.11	0.10	7330536
Acid Extractable Chromium (Cr)	ug/g	11	16	22	15	110	1.0	7330536
Acid Extractable Cobalt (Co)	ug/g	3.6	4.8	5.2	4.1	23	0.10	7330536
Acid Extractable Copper (Cu)	ug/g	11	14	14	6.0	50	0.50	7330536
Acid Extractable Lead (Pb)	ug/g	4.3	4.0	4.1	3.9	7.6	1.0	7330536
Acid Extractable Molybdenum (Mo)	ug/g	1.1	0.76	1.9	<0.50	<0.50	0.50	7330536
Acid Extractable Nickel (Ni)	ug/g	8.1	11	12	8.3	63	0.50	7330536
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7330536
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7330536
Acid Extractable Thallium (Tl)	ug/g	0.075	0.11	0.096	0.081	0.43	0.050	7330536
Acid Extractable Uranium (U)	ug/g	0.50	0.39	0.47	0.49	0.58	0.050	7330536
Acid Extractable Vanadium (V)	ug/g	20	36	34	46	97	5.0	7330536
Acid Extractable Zinc (Zn)	ug/g	16	21	19	19	130	5.0	7330536
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7330536

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 ICPMS METALS (SOIL)

BV Labs ID		PLN640	PLN642		
Sampling Date		2021/04/28	2021/04/28		
COC Number		823853-03-01	823853-03-01		
	UNITS	BH113 SS-7	BHMW115 SS-7	RDL	QC Batch
Metals					
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	0.20	7330536
Acid Extractable Arsenic (As)	ug/g	<1.0	<1.0	1.0	7330536
Acid Extractable Barium (Ba)	ug/g	140	180	0.50	7330536
Acid Extractable Beryllium (Be)	ug/g	0.57	0.57	0.20	7330536
Acid Extractable Boron (B)	ug/g	6.5	5.5	5.0	7330536
Acid Extractable Cadmium (Cd)	ug/g	<0.10	<0.10	0.10	7330536
Acid Extractable Chromium (Cr)	ug/g	33	40	1.0	7330536
Acid Extractable Cobalt (Co)	ug/g	9.8	11	0.10	7330536
Acid Extractable Copper (Cu)	ug/g	25	24	0.50	7330536
Acid Extractable Lead (Pb)	ug/g	5.0	6.3	1.0	7330536
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	<0.50	0.50	7330536
Acid Extractable Nickel (Ni)	ug/g	23	24	0.50	7330536
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	0.50	7330536
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	0.20	7330536
Acid Extractable Thallium (Tl)	ug/g	0.23	0.26	0.050	7330536
Acid Extractable Uranium (U)	ug/g	0.53	0.57	0.050	7330536
Acid Extractable Vanadium (V)	ug/g	56	64	5.0	7330536
Acid Extractable Zinc (Zn)	ug/g	52	66	5.0	7330536
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	0.050	7330536

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 PAHS (SOIL)

BV Labs ID		PLN551			PLN552		PLN553		
Sampling Date		2021/04/26			2021/04/26		2021/04/26		
COC Number		823853-01-01			823853-01-01		823853-01-01		
	UNITS	BH101 SS-2	RDL	QC Batch	BH101 SS-6	QC Batch	BH102 SS-2	RDL	QC Batch
Inorganics									
Moisture	%	24	1.0	7328936	38	7328861	19	1.0	7328936
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/g	0.44	0.21	7327390	<0.0071	7327390	0.084	0.0071	7327390
Polyaromatic Hydrocarbons									
Acenaphthene	ug/g	0.43	0.050	7331295	<0.0050	7331308	0.046	0.0050	7331295
Acenaphthylene	ug/g	0.18	0.050	7331295	<0.0050	7331308	0.073	0.0050	7331295
Anthracene	ug/g	0.43	0.050	7331295	<0.0050	7331308	0.18	0.0050	7331295
Benzo(a)anthracene	ug/g	1.2	0.050	7331295	<0.0050	7331308	0.49	0.0050	7331295
Benzo(a)pyrene	ug/g	1.3	0.050	7331295	<0.0050	7331308	0.50	0.0050	7331295
Benzo(b/j)fluoranthene	ug/g	1.8	0.050	7331295	<0.0050	7331308	0.63	0.0050	7331295
Benzo(g,h,i)perylene	ug/g	0.96	0.050	7331295	<0.0050	7331308	0.35	0.0050	7331295
Benzo(k)fluoranthene	ug/g	0.68	0.050	7331295	<0.0050	7331308	0.23	0.0050	7331295
Chrysene	ug/g	1.0	0.050	7331295	<0.0050	7331308	0.43	0.0050	7331295
Dibenzo(a,h)anthracene	ug/g	0.25	0.050	7331295	<0.0050	7331308	0.089	0.0050	7331295
Fluoranthene	ug/g	2.6	0.050	7331295	<0.0050	7331308	1.1	0.0050	7331295
Fluorene	ug/g	0.35	0.050	7331295	<0.0050	7331308	0.11	0.0050	7331295
Indeno(1,2,3-cd)pyrene	ug/g	0.98	0.050	7331295	<0.0050	7331308	0.35	0.0050	7331295
1-Methylnaphthalene	ug/g	0.44	0.050	7331295	<0.0050	7331308	0.046	0.0050	7331295
2-Methylnaphthalene	ug/g	<0.20 (1)	0.20	7331295	<0.0050	7331308	0.038	0.0050	7331295
Naphthalene	ug/g	<0.30 (1)	0.30	7331295	<0.0050	7331308	0.026	0.0050	7331295
Phenanthrene	ug/g	1.7	0.050	7331295	<0.0050	7331308	0.75	0.0050	7331295
Pyrene	ug/g	2.2	0.050	7331295	<0.0050	7331308	1.0	0.0050	7331295
Surrogate Recovery (%)									
D10-Anthracene	%	99		7331295	90	7331308	82		7331295
D14-Terphenyl (FS)	%	93		7331295	89	7331308	93		7331295
D8-Acenaphthylene	%	95		7331295	83	7331308	77		7331295

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) DL was raised due to matrix interference.

O.REG 153 PAHS (SOIL)

BV Labs ID		PLN554			PLN555			PLN556		
Sampling Date		2021/04/26			2021/04/26			2021/04/26		
COC Number		823853-01-01			823853-01-01			823853-01-01		
	UNITS	BH102 SS-6	RDL	QC Batch	BH103 SS-2	RDL	QC Batch	BH103 SS-7	RDL	QC Batch
Inorganics										
Moisture	%	30	1.0	7328861	9.2	1.0	7328936	35	1.0	7328861
Calculated Parameters										
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	0.0071	7327390	<0.071	0.071	7328686	<0.0071	0.0071	7328686
Polyaromatic Hydrocarbons										
Acenaphthene	ug/g	0.018	0.0050	7331308	<0.050	0.050	7331295	<0.0050	0.0050	7331308
Acenaphthylene	ug/g	<0.0050	0.0050	7331308	<0.050	0.050	7331295	<0.0050	0.0050	7331308
Anthracene	ug/g	0.0085	0.0050	7331308	<0.050	0.050	7331295	<0.0050	0.0050	7331308
Benzo(a)anthracene	ug/g	<0.0050	0.0050	7331308	0.081	0.050	7331295	<0.0050	0.0050	7331308
Benzo(a)pyrene	ug/g	<0.0050	0.0050	7331308	0.081	0.050	7331295	<0.0050	0.0050	7331308
Benzo(b/j)fluoranthene	ug/g	<0.0050	0.0050	7331308	0.13	0.050	7331295	0.0053	0.0050	7331308
Benzo(g,h,i)perylene	ug/g	<0.0050	0.0050	7331308	0.058	0.050	7331295	<0.0050	0.0050	7331308
Benzo(k)fluoranthene	ug/g	<0.0050	0.0050	7331308	<0.050	0.050	7331295	<0.0050	0.0050	7331308
Chrysene	ug/g	<0.0050	0.0050	7331308	0.077	0.050	7331295	<0.0050	0.0050	7331308
Dibenzo(a,h)anthracene	ug/g	<0.0050	0.0050	7331308	<0.050	0.050	7331295	<0.0050	0.0050	7331308
Fluoranthene	ug/g	<0.0050	0.0050	7331308	0.21	0.050	7331295	0.0093	0.0050	7331308
Fluorene	ug/g	0.031	0.0050	7331308	<0.050	0.050	7331295	<0.0050	0.0050	7331308
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	0.0050	7331308	0.064	0.050	7331295	<0.0050	0.0050	7331308
1-Methylnaphthalene	ug/g	<0.0050	0.0050	7331308	<0.050	0.050	7331295	<0.0050	0.0050	7331308
2-Methylnaphthalene	ug/g	<0.0050	0.0050	7331308	<0.050	0.050	7331295	<0.0050	0.0050	7331308
Naphthalene	ug/g	<0.0050	0.0050	7331308	<0.050	0.050	7331295	<0.0050	0.0050	7331308
Phenanthrene	ug/g	0.022	0.0050	7331308	0.11	0.050	7331295	0.0083	0.0050	7331308
Pyrene	ug/g	0.0076	0.0050	7331308	0.17	0.050	7331295	0.0075	0.0050	7331308
Surrogate Recovery (%)										
D10-Anthracene	%	86		7331308	100		7331295	89		7331308
D14-Terphenyl (FS)	%	87		7331308	104		7331295	90		7331308
D8-Acenaphthylene	%	84		7331308	86		7331295	87		7331308

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 PAHS (SOIL)

BV Labs ID		PLN557			PLN558			PLN559		
Sampling Date		2021/04/26			2021/04/26			2021/04/26		
COC Number		823853-01-01			823853-01-01			823853-01-01		
	UNITS	BH104 SS-4	RDL	QC Batch	BH104 SS-7	RDL	QC Batch	BH105 SS-2	RDL	QC Batch
Inorganics										
Moisture	%	26	1.0	7328936	36	1.0	7328861	10	1.0	7328936
Calculated Parameters										
Methylnaphthalene, 2-(1-)	ug/g	<0.071	0.071	7328686	<0.0071	0.0071	7328686	0.32	0.071	7328686
Polyaromatic Hydrocarbons										
Acenaphthene	ug/g	0.052	0.050	7331295	0.018	0.0050	7331865	0.084	0.050	7331295
Acenaphthylene	ug/g	0.16	0.050	7331295	<0.0050	0.0050	7331865	0.076	0.050	7331295
Anthracene	ug/g	0.21	0.050	7331295	0.0063	0.0050	7331865	0.29	0.050	7331295
Benzo(a)anthracene	ug/g	0.97	0.050	7331295	<0.0050	0.0050	7331865	1.2	0.050	7331295
Benzo(a)pyrene	ug/g	1.3	0.050	7331295	<0.0050	0.0050	7331865	1.2	0.050	7331295
Benzo(b/j)fluoranthene	ug/g	1.8	0.050	7331295	<0.0050	0.0050	7331865	1.4	0.050	7331295
Benzo(g,h,i)perylene	ug/g	1.1	0.050	7331295	<0.0050	0.0050	7331865	0.70	0.050	7331295
Benzo(k)fluoranthene	ug/g	0.66	0.050	7331295	<0.0050	0.0050	7331865	0.55	0.050	7331295
Chrysene	ug/g	0.86	0.050	7331295	<0.0050	0.0050	7331865	1.0	0.050	7331295
Dibenzo(a,h)anthracene	ug/g	0.25	0.050	7331295	<0.0050	0.0050	7331865	0.20	0.050	7331295
Fluoranthene	ug/g	1.7	0.050	7331295	0.012	0.0050	7331865	2.0	0.050	7331295
Fluorene	ug/g	0.066	0.050	7331295	<0.0050	0.0050	7331865	0.23	0.050	7331295
Indeno(1,2,3-cd)pyrene	ug/g	1.1	0.050	7331295	<0.0050	0.0050	7331865	0.70	0.050	7331295
1-Methylnaphthalene	ug/g	<0.050	0.050	7331295	<0.0050	0.0050	7331865	0.18	0.050	7331295
2-Methylnaphthalene	ug/g	0.064	0.050	7331295	<0.0050	0.0050	7331865	0.14	0.050	7331295
Naphthalene	ug/g	0.062	0.050	7331295	<0.0050	0.0050	7331865	0.072	0.050	7331295
Phenanthrene	ug/g	0.76	0.050	7331295	0.031	0.0050	7331865	1.5	0.050	7331295
Pyrene	ug/g	1.4	0.050	7331295	0.025	0.0050	7331865	2.3	0.050	7331295
Surrogate Recovery (%)										
D10-Anthracene	%	89		7331295	110		7331865	92		7331295
D14-Terphenyl (FS)	%	94		7331295	110		7331865	98		7331295
D8-Acenaphthylene	%	84		7331295	91		7331865	88		7331295

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 PAHS (SOIL)

BV Labs ID		PLN560			PLN575		PLN576		
Sampling Date		2021/04/26			2021/04/26		2021/04/26		
COC Number		823853-01-01			823853-02-01		823853-02-01		
	UNITS	BH105 SS-7	RDL	QC Batch	BH106 SS-4	QC Batch	BH106 SS-8	RDL	QC Batch
Inorganics									
Moisture	%	31	1.0	7328861					
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/g	<0.011	0.011	7328686	<0.0071	7327390	<0.0071	0.0071	7327390
Polyaromatic Hydrocarbons									
Acenaphthene	ug/g	0.065	0.0050	7331295	<0.0050	7331295	<0.0050	0.0050	7331308
Acenaphthylene	ug/g	<0.0050	0.0050	7331295	<0.0050	7331295	<0.0050	0.0050	7331308
Anthracene	ug/g	<0.050 (1)	0.050	7331295	<0.0050	7331295	<0.0050	0.0050	7331308
Benzo(a)anthracene	ug/g	<0.0050	0.0050	7331295	<0.0050	7331295	<0.0050	0.0050	7331308
Benzo(a)pyrene	ug/g	<0.0050	0.0050	7331295	<0.0050	7331295	<0.0050	0.0050	7331308
Benzo(b/j)fluoranthene	ug/g	<0.0050	0.0050	7331295	<0.0050	7331295	<0.0050	0.0050	7331308
Benzo(g,h,i)perylene	ug/g	<0.0050	0.0050	7331295	<0.0050	7331295	<0.0050	0.0050	7331308
Benzo(k)fluoranthene	ug/g	<0.0050	0.0050	7331295	<0.0050	7331295	<0.0050	0.0050	7331308
Chrysene	ug/g	<0.0050	0.0050	7331295	<0.0050	7331295	<0.0050	0.0050	7331308
Dibenzo(a,h)anthracene	ug/g	<0.0050	0.0050	7331295	<0.0050	7331295	<0.0050	0.0050	7331308
Fluoranthene	ug/g	0.020	0.0050	7331295	<0.0050	7331295	<0.0050	0.0050	7331308
Fluorene	ug/g	<0.020 (1)	0.020	7331295	<0.0050	7331295	<0.0050	0.0050	7331308
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	0.0050	7331295	<0.0050	7331295	<0.0050	0.0050	7331308
1-Methylnaphthalene	ug/g	<0.0050	0.0050	7331295	<0.0050	7331295	<0.0050	0.0050	7331308
2-Methylnaphthalene	ug/g	<0.010 (1)	0.010	7331295	<0.0050	7331295	<0.0050	0.0050	7331308
Naphthalene	ug/g	<0.010 (1)	0.010	7331295	<0.0050	7331295	<0.0050	0.0050	7331308
Phenanthrene	ug/g	<0.0050	0.0050	7331295	<0.0050	7331295	<0.0050	0.0050	7331308
Pyrene	ug/g	0.069	0.0050	7331295	<0.0050	7331295	<0.0050	0.0050	7331308
Surrogate Recovery (%)									
D10-Anthracene	%	81		7331295	91	7331295	87		7331308
D14-Terphenyl (FS)	%	94		7331295	99	7331295	90		7331308
D8-Acenaphthylene	%	78		7331295	81	7331295	85		7331308

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) DL was raised due to matrix interference.

O.REG 153 PAHS (SOIL)

BV Labs ID		PLN577	PLN578			PLN579		
Sampling Date		2021/04/26	2021/04/26			2021/04/26		
COC Number		823853-02-01	823853-02-01			823853-02-01		
	UNITS	BH107 SS-3	DUP-1	RDL	QC Batch	BH107 SS-7	RDL	QC Batch
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/g	<0.071	<0.071	0.071	7327390	<0.0071	0.0071	7327390
Polyaromatic Hydrocarbons								
Acenaphthene	ug/g	<0.050	<0.050	0.050	7331295	<0.010 (1)	0.010	7331308
Acenaphthylene	ug/g	<0.050	<0.050	0.050	7331295	<0.0050	0.0050	7331308
Anthracene	ug/g	<0.050	<0.050	0.050	7331295	0.014	0.0050	7331308
Benzo(a)anthracene	ug/g	<0.050	<0.050	0.050	7331295	<0.0050	0.0050	7331308
Benzo(a)pyrene	ug/g	<0.050	<0.050	0.050	7331295	<0.0050	0.0050	7331308
Benzo(b/j)fluoranthene	ug/g	<0.050	<0.050	0.050	7331295	<0.0050	0.0050	7331308
Benzo(g,h,i)perylene	ug/g	<0.050	<0.050	0.050	7331295	<0.0050	0.0050	7331308
Benzo(k)fluoranthene	ug/g	<0.050	<0.050	0.050	7331295	<0.0050	0.0050	7331308
Chrysene	ug/g	<0.050	<0.050	0.050	7331295	<0.0050	0.0050	7331308
Dibenzo(a,h)anthracene	ug/g	<0.050	<0.050	0.050	7331295	<0.0050	0.0050	7331308
Fluoranthene	ug/g	<0.050	<0.050	0.050	7331295	0.010	0.0050	7331308
Fluorene	ug/g	<0.050	<0.050	0.050	7331295	<0.0050	0.0050	7331308
Indeno(1,2,3-cd)pyrene	ug/g	<0.050	<0.050	0.050	7331295	<0.0050	0.0050	7331308
1-Methylnaphthalene	ug/g	<0.050	<0.050	0.050	7331295	<0.0050	0.0050	7331308
2-Methylnaphthalene	ug/g	<0.050	<0.050	0.050	7331295	<0.0050	0.0050	7331308
Naphthalene	ug/g	<0.050	<0.050	0.050	7331295	<0.0050	0.0050	7331308
Phenanthrene	ug/g	<0.050	<0.050	0.050	7331295	0.0071	0.0050	7331308
Pyrene	ug/g	<0.050	<0.050	0.050	7331295	0.017	0.0050	7331308
Surrogate Recovery (%)								
D10-Anthracene	%	103	96		7331295	90		7331308
D14-Terphenyl (FS)	%	94	98		7331295	93		7331308
D8-Acenaphthylene	%	88	82		7331295	92		7331308

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) DL was raised due to matrix interference.

O.REG 153 PAHS (SOIL)

BV Labs ID		PLN580		PLN581			PLN581		
Sampling Date		2021/04/26		2021/04/26			2021/04/26		
COC Number		823853-02-01		823853-02-01			823853-02-01		
	UNITS	BHMW108 SS-2	QC Batch	BHMW108 SS-8	RDL	QC Batch	BHMW108 SS-8 Lab-Dup	RDL	QC Batch
Inorganics									
Moisture	%	5.2	7328861	8.7	1.0	7328936			
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	7327390	0.17	0.0071	7327390			
Polyaromatic Hydrocarbons									
Acenaphthene	ug/g	<0.0050	7331308	<0.0050	0.0050	7331295	<0.0050	0.0050	7331295
Acenaphthylene	ug/g	<0.0050	7331308	<0.0050	0.0050	7331295	<0.0050	0.0050	7331295
Anthracene	ug/g	<0.0050	7331308	<0.0050	0.0050	7331295	<0.0050	0.0050	7331295
Benzo(a)anthracene	ug/g	<0.0050	7331308	<0.0050	0.0050	7331295	<0.0050	0.0050	7331295
Benzo(a)pyrene	ug/g	<0.0050	7331308	<0.0050	0.0050	7331295	<0.0050	0.0050	7331295
Benzo(b/j)fluoranthene	ug/g	<0.0050	7331308	<0.0050	0.0050	7331295	<0.0050	0.0050	7331295
Benzo(g,h,i)perylene	ug/g	<0.0050	7331308	<0.0050	0.0050	7331295	<0.0050	0.0050	7331295
Benzo(k)fluoranthene	ug/g	<0.0050	7331308	<0.0050	0.0050	7331295	<0.0050	0.0050	7331295
Chrysene	ug/g	<0.0050	7331308	<0.0050	0.0050	7331295	<0.0050	0.0050	7331295
Dibenzo(a,h)anthracene	ug/g	<0.0050	7331308	<0.0050	0.0050	7331295	<0.0050	0.0050	7331295
Fluoranthene	ug/g	<0.0050	7331308	<0.0050	0.0050	7331295	<0.0050	0.0050	7331295
Fluorene	ug/g	<0.0050	7331308	<0.0050	0.0050	7331295	<0.0050	0.0050	7331295
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	7331308	<0.0050	0.0050	7331295	<0.0050	0.0050	7331295
1-Methylnaphthalene	ug/g	<0.0050	7331308	0.049	0.0050	7331295	0.068	0.0050	7331295
2-Methylnaphthalene	ug/g	<0.0050	7331308	0.12	0.0050	7331295	0.17	0.0050	7331295
Naphthalene	ug/g	<0.0050	7331308	0.23	0.0050	7331295	0.29	0.0050	7331295
Phenanthrene	ug/g	<0.0050	7331308	<0.0050	0.0050	7331295	0.0053	0.0050	7331295
Pyrene	ug/g	<0.0050	7331308	<0.0050	0.0050	7331295	<0.0050	0.0050	7331295
Surrogate Recovery (%)									
D10-Anthracene	%	90	7331308	92		7331295	90		7331295
D14-Terphenyl (FS)	%	91	7331308	97		7331295	93		7331295
D8-Acenaphthylene	%	88	7331308	81		7331295	81		7331295

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

O.REG 153 PAHS (SOIL)

BV Labs ID		PLN582	PLN583	PLN584			PLN636		
Sampling Date		2021/04/27	2021/04/27	2021/04/27			2021/04/27		
COC Number		823853-02-01	823853-02-01	823853-02-01			823853-03-01		
	UNITS	BHMW109 SS-7	BHMW110 SS-7	DUP-2	RDL	QC Batch	BHMW111 SS-6	RDL	QC Batch
Inorganics									
Moisture	%	8.3	17	12	1.0	7328936			
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	0.26	0.16	0.0071	7327390	8.4	0.0071	7327390
Polyaromatic Hydrocarbons									
Acenaphthene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	7331295	0.039	0.0050	7331295
Acenaphthylene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	7331295	<0.010 (1)	0.010	7331295
Anthracene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	7331295	0.011	0.0050	7331295
Benzo(a)anthracene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	7331295	<0.0050	0.0050	7331295
Benzo(a)pyrene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	7331295	<0.0050	0.0050	7331295
Benzo(b/j)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	7331295	<0.0050	0.0050	7331295
Benzo(g,h,i)perylene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	7331295	<0.0050	0.0050	7331295
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	7331295	<0.0050	0.0050	7331295
Chrysene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	7331295	<0.0050	0.0050	7331295
Dibenzo(a,h)anthracene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	7331295	<0.0050	0.0050	7331295
Fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	7331295	0.0096	0.0050	7331295
Fluorene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	7331295	0.042	0.0050	7331295
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	7331295	<0.0050	0.0050	7331295
1-Methylnaphthalene	ug/g	<0.0050	0.071	0.043	0.0050	7331295	3.0	0.0050	7331295
2-Methylnaphthalene	ug/g	<0.0050	0.19	0.12	0.0050	7331295	5.4	0.0050	7331295
Naphthalene	ug/g	<0.0050	0.049	0.028	0.0050	7331295	5.3	0.0050	7331295
Phenanthrene	ug/g	0.0056	<0.0050	<0.0050	0.0050	7331295	0.055	0.0050	7331295
Pyrene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	7331295	0.013	0.0050	7331295
Surrogate Recovery (%)									
D10-Anthracene	%	90	89	89		7331295	85		7331295
D14-Terphenyl (FS)	%	89	93	96		7331295	95		7331295
D8-Acenaphthylene	%	83	78	80		7331295	81		7331295

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) DL was raised due to matrix interference.

O.REG 153 PAHS (SOIL)

BV Labs ID		PLN637			PLN638	PLN640	PLN642		
Sampling Date		2021/04/27			2021/04/27	2021/04/28	2021/04/28		
COC Number		823853-03-01			823853-03-01	823853-03-01	823853-03-01		
	UNITS	BHMW12 SS-3	RDL	QC Batch	BHMW12 SS-7	BH113 SS-7	BHMW115 SS-7	RDL	QC Batch
Inorganics									
Moisture	%	3.9	1.0	7328861					
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/g	0.027	0.0071	7327390	<0.0071	<0.0071	<0.0071	0.0071	7327390
Polyaromatic Hydrocarbons									
Acenaphthene	ug/g	<0.0050	0.0050	7331295	<0.0050	<0.0050	<0.0050	0.0050	7331295
Acenaphthylene	ug/g	<0.0050	0.0050	7331295	<0.0050	<0.0050	<0.0050	0.0050	7331295
Anthracene	ug/g	<0.0050	0.0050	7331295	<0.0050	<0.0050	<0.0050	0.0050	7331295
Benzo(a)anthracene	ug/g	<0.0050	0.0050	7331295	<0.0050	<0.0050	<0.0050	0.0050	7331295
Benzo(a)pyrene	ug/g	<0.0050	0.0050	7331295	<0.0050	<0.0050	<0.0050	0.0050	7331295
Benzo(b/j)fluoranthene	ug/g	<0.0050	0.0050	7331295	0.0053	<0.0050	<0.0050	0.0050	7331295
Benzo(g,h,i)perylene	ug/g	<0.0050	0.0050	7331295	<0.0050	<0.0050	<0.0050	0.0050	7331295
Benzo(k)fluoranthene	ug/g	<0.0050	0.0050	7331295	<0.0050	<0.0050	<0.0050	0.0050	7331295
Chrysene	ug/g	<0.0050	0.0050	7331295	<0.0050	<0.0050	<0.0050	0.0050	7331295
Dibenzo(a,h)anthracene	ug/g	<0.0050	0.0050	7331295	<0.0050	<0.0050	<0.0050	0.0050	7331295
Fluoranthene	ug/g	<0.0050	0.0050	7331295	0.010	<0.0050	<0.0050	0.0050	7331295
Fluorene	ug/g	<0.0050	0.0050	7331295	<0.0050	<0.0050	<0.0050	0.0050	7331295
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	0.0050	7331295	<0.0050	<0.0050	<0.0050	0.0050	7331295
1-Methylnaphthalene	ug/g	0.010	0.0050	7331295	<0.0050	<0.0050	<0.0050	0.0050	7331295
2-Methylnaphthalene	ug/g	0.017	0.0050	7331295	<0.0050	<0.0050	<0.0050	0.0050	7331295
Naphthalene	ug/g	0.0057	0.0050	7331295	<0.0050	<0.0050	<0.0050	0.0050	7331295
Phenanthrene	ug/g	<0.0050	0.0050	7331295	0.0064	<0.0050	0.0094	0.0050	7331295
Pyrene	ug/g	<0.0050	0.0050	7331295	0.0087	<0.0050	0.0093	0.0050	7331295
Surrogate Recovery (%)									
D10-Anthracene	%	86		7331295	85	86	88		7331295
D14-Terphenyl (FS)	%	93		7331295	81	92	85		7331295
D8-Acenaphthylene	%	76		7331295	74	80	79		7331295

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

BV Labs ID		PLN551		PLN552		PLN553		PLN554		
Sampling Date		2021/04/26		2021/04/26		2021/04/26		2021/04/26		
COC Number		823853-01-01		823853-01-01		823853-01-01		823853-01-01		
	UNITS	BH101 SS-2	QC Batch	BH101 SS-6	QC Batch	BH102 SS-2	QC Batch	BH102 SS-6	RDL	QC Batch
BTEX & F1 Hydrocarbons										
Benzene	ug/g	<0.020	7332664	<0.020	7332664	<0.020	7332664	<0.020	0.020	7332664
Toluene	ug/g	0.024	7332664	<0.020	7332664	<0.020	7332664	<0.020	0.020	7332664
Ethylbenzene	ug/g	<0.020	7332664	<0.020	7332664	<0.020	7332664	<0.020	0.020	7332664
o-Xylene	ug/g	<0.020	7332664	<0.020	7332664	<0.020	7332664	<0.020	0.020	7332664
p+m-Xylene	ug/g	<0.040	7332664	<0.040	7332664	<0.040	7332664	<0.040	0.040	7332664
Total Xylenes	ug/g	<0.040	7332664	<0.040	7332664	<0.040	7332664	<0.040	0.040	7332664
F1 (C6-C10)	ug/g	<10	7332664	<10	7332664	<10	7332664	<10	10	7332664
F1 (C6-C10) - BTEX	ug/g	<10	7332664	<10	7332664	<10	7332664	<10	10	7332664
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	550	7331287	<10	7330915	<10	7331287	<10	10	7330915
F3 (C16-C34 Hydrocarbons)	ug/g	690	7331287	<50	7330915	82	7331287	<50	50	7330915
F4 (C34-C50 Hydrocarbons)	ug/g	110	7331287	<50	7330915	54	7331287	<50	50	7330915
Reached Baseline at C50	ug/g	Yes	7331287	Yes	7330915	Yes	7331287	Yes		7330915
Surrogate Recovery (%)										
1,4-Difluorobenzene	%	99	7332664	99	7332664	101	7332664	100		7332664
4-Bromofluorobenzene	%	98	7332664	97	7332664	97	7332664	97		7332664
D10-o-Xylene	%	81	7332664	79	7332664	77	7332664	78		7332664
D4-1,2-Dichloroethane	%	100	7332664	101	7332664	98	7332664	100		7332664
o-Terphenyl	%	99	7331287	88	7330915	94	7331287	88		7330915

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

BV Labs ID		PLN555		PLN556		PLN557		
Sampling Date		2021/04/26		2021/04/26		2021/04/26		
COC Number		823853-01-01		823853-01-01		823853-01-01		
	UNITS	BH103 SS-2	QC Batch	BH103 SS-7	QC Batch	BH104 SS-4	RDL	QC Batch
BTEX & F1 Hydrocarbons								
Benzene	ug/g	<0.020	7332664	<0.020	7332664	<0.020	0.020	7332664
Toluene	ug/g	<0.020	7332664	<0.020	7332664	<0.020	0.020	7332664
Ethylbenzene	ug/g	<0.020	7332664	<0.020	7332664	<0.020	0.020	7332664
o-Xylene	ug/g	<0.020	7332664	<0.020	7332664	<0.020	0.020	7332664
p+m-Xylene	ug/g	<0.040	7332664	<0.040	7332664	<0.040	0.040	7332664
Total Xylenes	ug/g	<0.040	7332664	<0.040	7332664	<0.040	0.040	7332664
F1 (C6-C10)	ug/g	<10	7332664	<10	7332664	<10	10	7332664
F1 (C6-C10) - BTEX	ug/g	<10	7332664	<10	7332664	<10	10	7332664
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	<10	7331287	<10	7330915	<10	10	7331287
F3 (C16-C34 Hydrocarbons)	ug/g	<50	7331287	<50	7330915	210	50	7331287
F4 (C34-C50 Hydrocarbons)	ug/g	91	7331287	<50	7330915	170	50	7331287
Reached Baseline at C50	ug/g	Yes	7331287	Yes	7330915	Yes		7331287
Surrogate Recovery (%)								
1,4-Difluorobenzene	%	100	7332664	101	7332664	100		7332664
4-Bromofluorobenzene	%	97	7332664	95	7332664	97		7332664
D10-o-Xylene	%	81	7332664	92	7332664	77		7332664
D4-1,2-Dichloroethane	%	96	7332664	96	7332664	100		7332664
o-Terphenyl	%	96	7331287	88	7330915	95		7331287

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

BV Labs ID		PLN558			PLN559	PLN560			PLN575		
Sampling Date		2021/04/26			2021/04/26	2021/04/26			2021/04/26		
COC Number		823853-01-01			823853-01-01	823853-01-01			823853-02-01		
	UNITS	BH104 SS-7	RDL	QC Batch	BH105 SS-2	BH105 SS-7	RDL	QC Batch	BH106 SS-4	RDL	QC Batch
Inorganics											
Moisture	%								5.4	1.0	7328936
BTEX & F1 Hydrocarbons											
Benzene	ug/g	<0.020	0.020	7332664	<0.020	<0.020	0.020	7332664	<0.020	0.020	7332664
Toluene	ug/g	<0.020	0.020	7332664	<0.020	<0.020	0.020	7332664	<0.020	0.020	7332664
Ethylbenzene	ug/g	<0.020	0.020	7332664	<0.020	<0.020	0.020	7332664	<0.020	0.020	7332664
o-Xylene	ug/g	<0.020	0.020	7332664	<0.020	<0.020	0.020	7332664	<0.020	0.020	7332664
p+m-Xylene	ug/g	<0.040	0.040	7332664	<0.040	<0.040	0.040	7332664	<0.040	0.040	7332664
Total Xylenes	ug/g	<0.040	0.040	7332664	<0.040	<0.040	0.040	7332664	<0.040	0.040	7332664
F1 (C6-C10)	ug/g	<10	10	7332664	<10	11	10	7332664	<10	10	7332664
F1 (C6-C10) - BTEX	ug/g	<10	10	7332664	<10	11	10	7332664	<10	10	7332664
F2-F4 Hydrocarbons											
F2 (C10-C16 Hydrocarbons)	ug/g	130	20	7333129	<10	280	10	7331287	<10	10	7331287
F3 (C16-C34 Hydrocarbons)	ug/g	160	100	7333129	190	340	50	7331287	<50	50	7331287
F4 (C34-C50 Hydrocarbons)	ug/g	<100	100	7333129	300	<50	50	7331287	<50	50	7331287
Reached Baseline at C50	ug/g	Yes		7333129	No	Yes		7331287	Yes		7331287
Surrogate Recovery (%)											
1,4-Difluorobenzene	%	100		7332664	101	98		7332664	101		7332664
4-Bromofluorobenzene	%	97		7332664	95	98		7332664	97		7332664
D10-o-Xylene	%	91		7332664	92	81		7332664	86		7332664
D4-1,2-Dichloroethane	%	98		7332664	98	100		7332664	99		7332664
o-Terphenyl	%	88		7333129	97	97		7331287	96		7331287

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

BV Labs ID		PLN576		PLN577	PLN578		PLN579		
Sampling Date		2021/04/26		2021/04/26	2021/04/26		2021/04/26		
COC Number		823853-02-01		823853-02-01	823853-02-01		823853-02-01		
	UNITS	BH106 SS-8	QC Batch	BH107 SS-3	DUP-1	QC Batch	BH107 SS-7	RDL	QC Batch
Inorganics									
Moisture	%	33	7328861	4.5	4.7	7328936	20	1.0	7328861
BTEX & F1 Hydrocarbons									
Benzene	ug/g	<0.020	7332664	<0.020	<0.020	7332664	<0.020	0.020	7332664
Toluene	ug/g	<0.020	7332664	<0.020	<0.020	7332664	<0.020	0.020	7332664
Ethylbenzene	ug/g	<0.020	7332664	<0.020	<0.020	7332664	<0.020	0.020	7332664
o-Xylene	ug/g	<0.020	7332664	<0.020	<0.020	7332664	<0.020	0.020	7332664
p+m-Xylene	ug/g	<0.040	7332664	<0.040	<0.040	7332664	<0.040	0.040	7332664
Total Xylenes	ug/g	<0.040	7332664	<0.040	<0.040	7332664	<0.040	0.040	7332664
F1 (C6-C10)	ug/g	<10	7332664	<10	<10	7332664	<10	10	7332664
F1 (C6-C10) - BTEX	ug/g	<10	7332664	<10	<10	7332664	<10	10	7332664
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/g	<10	7330915	<10	<10	7331287	<10	10	7330915
F3 (C16-C34 Hydrocarbons)	ug/g	<50	7330915	130	320	7331287	<50	50	7330915
F4 (C34-C50 Hydrocarbons)	ug/g	<50	7330915	430	1100	7331287	<50	50	7330915
Reached Baseline at C50	ug/g	Yes	7330915	No	No	7331287	Yes		7330915
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	101	7332664	101	101	7332664	100		7332664
4-Bromofluorobenzene	%	96	7332664	96	96	7332664	97		7332664
D10-o-Xylene	%	79	7332664	81	77	7332664	82		7332664
D4-1,2-Dichloroethane	%	99	7332664	97	99	7332664	99		7332664
o-Terphenyl	%	88	7330915	98	97	7331287	90		7330915

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

BV Labs ID		PLN581			PLN581			PLN582		
Sampling Date		2021/04/26			2021/04/26			2021/04/27		
COC Number		823853-02-01			823853-02-01			823853-02-01		
	UNITS	BHMW108 SS-8	RDL	QC Batch	BHMW108 SS-8 Lab-Dup	RDL	QC Batch	BHMW109 SS-7	RDL	QC Batch
Calculated Parameters										
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	0.050	7327981				<0.050	0.050	7327981
Volatile Organics										
Acetone (2-Propanone)	ug/g	<0.50	0.50	7329609				<0.50	0.50	7329609
Benzene	ug/g	0.30	0.020	7329609				<0.020	0.020	7329609
Bromodichloromethane	ug/g	<0.050	0.050	7329609				<0.050	0.050	7329609
Bromoform	ug/g	<0.050	0.050	7329609				<0.050	0.050	7329609
Bromomethane	ug/g	<0.050	0.050	7329609				<0.050	0.050	7329609
Carbon Tetrachloride	ug/g	<0.050	0.050	7329609				<0.050	0.050	7329609
Chlorobenzene	ug/g	<0.050	0.050	7329609				<0.050	0.050	7329609
Chloroform	ug/g	<0.050	0.050	7329609				<0.050	0.050	7329609
Dibromochloromethane	ug/g	<0.050	0.050	7329609				<0.050	0.050	7329609
1,2-Dichlorobenzene	ug/g	<0.050	0.050	7329609				<0.050	0.050	7329609
1,3-Dichlorobenzene	ug/g	<0.050	0.050	7329609				<0.050	0.050	7329609
1,4-Dichlorobenzene	ug/g	<0.050	0.050	7329609				<0.050	0.050	7329609
Dichlorodifluoromethane (FREON 12)	ug/g	<0.050	0.050	7329609				<0.050	0.050	7329609
1,1-Dichloroethane	ug/g	<0.080 (1)	0.080	7329609				<0.050	0.050	7329609
1,2-Dichloroethane	ug/g	<0.050	0.050	7329609				<0.050	0.050	7329609
1,1-Dichloroethylene	ug/g	<0.050	0.050	7329609				<0.050	0.050	7329609
cis-1,2-Dichloroethylene	ug/g	<0.050	0.050	7329609				<0.050	0.050	7329609
trans-1,2-Dichloroethylene	ug/g	<0.050	0.050	7329609				<0.050	0.050	7329609
1,2-Dichloropropane	ug/g	<0.050	0.050	7329609				<0.050	0.050	7329609
cis-1,3-Dichloropropene	ug/g	<0.030	0.030	7329609				<0.030	0.030	7329609
trans-1,3-Dichloropropene	ug/g	<0.040	0.040	7329609				<0.040	0.040	7329609
Ethylbenzene	ug/g	9.2	0.020	7329609				<0.020	0.020	7329609
Ethylene Dibromide	ug/g	<0.050	0.050	7329609				<0.050	0.050	7329609
Hexane	ug/g	24	0.050	7329609				1.2	0.050	7329609
Methylene Chloride(Dichloromethane)	ug/g	<0.050	0.050	7329609				<0.050	0.050	7329609
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.50	0.50	7329609				<0.50	0.50	7329609
Methyl Isobutyl Ketone	ug/g	<0.50	0.50	7329609				<0.50	0.50	7329609
Methyl t-butyl ether (MTBE)	ug/g	<0.050	0.050	7329609				<0.050	0.050	7329609
Styrene	ug/g	<0.20 (2)	0.20	7329609				<0.050	0.050	7329609

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
(1) The detection limit was raised due to matrix interference.
(2) The detection limit was raised due to interference from coeluting o-xylene.

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

BV Labs ID		PLN581			PLN581			PLN582		
Sampling Date		2021/04/26			2021/04/26			2021/04/27		
COC Number		823853-02-01			823853-02-01			823853-02-01		
	UNITS	BHMW108 SS-8	RDL	QC Batch	BHMW108 SS-8 Lab-Dup	RDL	QC Batch	BHMW109 SS-7	RDL	QC Batch
1,1,1,2-Tetrachloroethane	ug/g	<0.050	0.050	7329609				<0.050	0.050	7329609
1,1,2,2-Tetrachloroethane	ug/g	<0.050	0.050	7329609				<0.050	0.050	7329609
Tetrachloroethylene	ug/g	<0.050	0.050	7329609				<0.050	0.050	7329609
Toluene	ug/g	12	0.020	7329609				<0.020	0.020	7329609
1,1,1-Trichloroethane	ug/g	<0.050	0.050	7329609				<0.050	0.050	7329609
1,1,2-Trichloroethane	ug/g	<0.050	0.050	7329609				<0.050	0.050	7329609
Trichloroethylene	ug/g	<0.050	0.050	7329609				<0.050	0.050	7329609
Trichlorofluoromethane (FREON 11)	ug/g	<0.050	0.050	7329609				<0.050	0.050	7329609
Vinyl Chloride	ug/g	<0.020	0.020	7329609				<0.020	0.020	7329609
p+m-Xylene	ug/g	39	0.10	7329609				0.093	0.020	7329609
o-Xylene	ug/g	13	0.10	7329609				<0.020	0.020	7329609
Total Xylenes	ug/g	52	0.10	7329609				0.093	0.020	7329609
F1 (C6-C10)	ug/g	600	50	7329609				15	10	7329609
F1 (C6-C10) - BTEX	ug/g	520	50	7329609				15	10	7329609
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	27	10	7331287	43	10	7331287	<10	10	7331287
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	7331287	<50	50	7331287	<50	50	7331287
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	7331287	<50	50	7331287	<50	50	7331287
Reached Baseline at C50	ug/g	Yes		7331287	Yes		7331287	Yes		7331287
Surrogate Recovery (%)										
o-Terphenyl	%	96		7331287	97		7331287	96		7331287
4-Bromofluorobenzene	%	107		7329609				94		7329609
D10-o-Xylene	%	111		7329609				117		7329609
D4-1,2-Dichloroethane	%	98		7329609				100		7329609
D8-Toluene	%	98		7329609				101		7329609

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

BV Labs ID		PLN583	PLN584			PLN636		
Sampling Date		2021/04/27	2021/04/27			2021/04/27		
COC Number		823853-02-01	823853-02-01			823853-03-01		
	UNITS	BHMW110 SS-7	DUP-2	RDL	QC Batch	BHMW111 SS-6	RDL	QC Batch
Inorganics								
Moisture	%					19	1.0	7328936
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	0.050	7328687	<0.050	0.050	7327981
Volatile Organics								
Acetone (2-Propanone)	ug/g	<1.0 (1)	<1.0 (1)	1.0	7329609	<3.5 (1)	3.5	7329609
Benzene	ug/g	<0.020	<0.020	0.020	7329609	<0.020	0.020	7329609
Bromodichloromethane	ug/g	<0.050	<0.050	0.050	7329609	<0.050	0.050	7329609
Bromoform	ug/g	<0.050	<0.050	0.050	7329609	<0.050	0.050	7329609
Bromomethane	ug/g	<0.050	<0.050	0.050	7329609	<0.050	0.050	7329609
Carbon Tetrachloride	ug/g	<0.050	<0.050	0.050	7329609	<0.050	0.050	7329609
Chlorobenzene	ug/g	<0.050	<0.050	0.050	7329609	<0.050	0.050	7329609
Chloroform	ug/g	<0.050	<0.050	0.050	7329609	<0.050	0.050	7329609
Dibromochloromethane	ug/g	<0.050	<0.050	0.050	7329609	<0.050	0.050	7329609
1,2-Dichlorobenzene	ug/g	<0.050	<0.050	0.050	7329609	<0.050	0.050	7329609
1,3-Dichlorobenzene	ug/g	<0.050	<0.050	0.050	7329609	<0.050	0.050	7329609
1,4-Dichlorobenzene	ug/g	<0.050	<0.050	0.050	7329609	<0.050	0.050	7329609
Dichlorodifluoromethane (FREON 12)	ug/g	<0.050	<0.050	0.050	7329609	<0.050	0.050	7329609
1,1-Dichloroethane	ug/g	<0.050	<0.050	0.050	7329609	<0.10 (1)	0.10	7329609
1,2-Dichloroethane	ug/g	<0.050	<0.050	0.050	7329609	<0.050	0.050	7329609
1,1-Dichloroethylene	ug/g	<0.050	<0.050	0.050	7329609	<0.050	0.050	7329609
cis-1,2-Dichloroethylene	ug/g	<0.050	<0.050	0.050	7329609	<0.050	0.050	7329609
trans-1,2-Dichloroethylene	ug/g	<0.050	<0.050	0.050	7329609	<0.050	0.050	7329609
1,2-Dichloropropane	ug/g	<0.050	<0.050	0.050	7329609	<0.050	0.050	7329609
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	0.030	7329609	<0.030	0.030	7329609
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	0.040	7329609	<0.040	0.040	7329609
Ethylbenzene	ug/g	1.8	1.7	0.020	7329609	49	0.40	7329609
Ethylene Dibromide	ug/g	<0.050	<0.050	0.050	7329609	<0.050	0.050	7329609
Hexane	ug/g	21	16	0.050	7329609	51	0.050	7329609
Methylene Chloride(Dichloromethane)	ug/g	<0.050	<0.050	0.050	7329609	<0.050	0.050	7329609
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.50	<0.50	0.50	7329609	<0.50	0.50	7329609
Methyl Isobutyl Ketone	ug/g	<0.50	<0.50	0.50	7329609	<0.50	0.50	7329609
Methyl t-butyl ether (MTBE)	ug/g	<0.050	<0.050	0.050	7329609	<0.050	0.050	7329609
Styrene	ug/g	<0.050	<0.050	0.050	7329609	<0.40 (2)	0.40	7329609

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) The detection limit was raised due to matrix interference.
(2) The detection limit was raised due to interference from coeluting o-xylene.

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

BV Labs ID		PLN583	PLN584			PLN636		
Sampling Date		2021/04/27	2021/04/27			2021/04/27		
COC Number		823853-02-01	823853-02-01			823853-03-01		
	UNITS	BHMW110 SS-7	DUP-2	RDL	QC Batch	BHMW111 SS-6	RDL	QC Batch
1,1,1,2-Tetrachloroethane	ug/g	<0.050	<0.050	0.050	7329609	<0.050	0.050	7329609
1,1,2,2-Tetrachloroethane	ug/g	<0.050	<0.050	0.050	7329609	<0.050	0.050	7329609
Tetrachloroethylene	ug/g	<0.050	<0.050	0.050	7329609	<0.050	0.050	7329609
Toluene	ug/g	<0.020	<0.020	0.020	7329609	2.8	0.020	7329609
1,1,1-Trichloroethane	ug/g	<0.050	<0.050	0.050	7329609	<0.050	0.050	7329609
1,1,2-Trichloroethane	ug/g	<0.050	<0.050	0.050	7329609	<0.050	0.050	7329609
Trichloroethylene	ug/g	<0.050	<0.050	0.050	7329609	<0.050	0.050	7329609
Trichlorofluoromethane (FREON 11)	ug/g	<0.050	<0.050	0.050	7329609	<0.050	0.050	7329609
Vinyl Chloride	ug/g	<0.020	<0.020	0.020	7329609	<0.020	0.020	7329609
p+m-Xylene	ug/g	2.7	2.3	0.020	7329609	230	0.40	7329609
o-Xylene	ug/g	0.33	0.19	0.020	7329609	49	0.40	7329609
Total Xylenes	ug/g	3.0	2.5	0.020	7329609	280	0.40	7329609
F1 (C6-C10)	ug/g	400	590	100	7329609	2900	200	7329609
F1 (C6-C10) - BTEX	ug/g	390	580	100	7329609	2600	200	7329609
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	90	39	10	7331287	400	10	7331287
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	50	7331287	<50	50	7331287
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	50	7331287	<50	50	7331287
Reached Baseline at C50	ug/g	Yes	Yes		7331287	Yes		7331287
Surrogate Recovery (%)								
o-Terphenyl	%	95	96		7331287	94		7331287
4-Bromofluorobenzene	%	105	103		7329609	96		7329609
D10-o-Xylene	%	113	112		7329609	118		7329609
D4-1,2-Dichloroethane	%	101	98		7329609	96		7329609
D8-Toluene	%	99	100		7329609	103		7329609

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

BV Labs ID		PLN638		PLN639	PLN640		
Sampling Date		2021/04/27		2021/04/28	2021/04/28		
COC Number		823853-03-01		823853-03-01	823853-03-01		
	UNITS	BHMW12 SS-7	QC Batch	BH113 SS-3	BH113 SS-7	RDL	QC Batch
Inorganics							
Moisture	%	28	7328861	11	20	1.0	7328936
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	7327981	<0.050	<0.050	0.050	7327981
Volatile Organics							
Acetone (2-Propanone)	ug/g	<0.50	7329609	<0.50	<0.50	0.50	7329609
Benzene	ug/g	<0.020	7329609	<0.020	<0.020	0.020	7329609
Bromodichloromethane	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
Bromoform	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
Bromomethane	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
Carbon Tetrachloride	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
Chlorobenzene	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
Chloroform	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
Dibromochloromethane	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
1,2-Dichlorobenzene	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
1,3-Dichlorobenzene	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
1,4-Dichlorobenzene	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
Dichlorodifluoromethane (FREON 12)	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
1,1-Dichloroethane	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
1,2-Dichloroethane	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
1,1-Dichloroethylene	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
cis-1,2-Dichloroethylene	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
trans-1,2-Dichloroethylene	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
1,2-Dichloropropane	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
cis-1,3-Dichloropropene	ug/g	<0.030	7329609	<0.030	<0.030	0.030	7329609
trans-1,3-Dichloropropene	ug/g	<0.040	7329609	<0.040	<0.040	0.040	7329609
Ethylbenzene	ug/g	<0.020	7329609	<0.020	<0.020	0.020	7329609
Ethylene Dibromide	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
Hexane	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
Methylene Chloride(Dichloromethane)	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.50	7329609	<0.50	<0.50	0.50	7329609
Methyl Isobutyl Ketone	ug/g	<0.50	7329609	<0.50	<0.50	0.50	7329609
Methyl t-butyl ether (MTBE)	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
Styrene	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
1,1,1,2-Tetrachloroethane	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
1,1,2,2-Tetrachloroethane	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

BV Labs ID		PLN638		PLN639	PLN640		
Sampling Date		2021/04/27		2021/04/28	2021/04/28		
COC Number		823853-03-01		823853-03-01	823853-03-01		
	UNITS	BHMW12 SS-7	QC Batch	BH113 SS-3	BH113 SS-7	RDL	QC Batch
Tetrachloroethylene	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
Toluene	ug/g	<0.020	7329609	<0.020	<0.020	0.020	7329609
1,1,1-Trichloroethane	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
1,1,2-Trichloroethane	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
Trichloroethylene	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
Trichlorofluoromethane (FREON 11)	ug/g	<0.050	7329609	<0.050	<0.050	0.050	7329609
Vinyl Chloride	ug/g	<0.020	7329609	<0.020	<0.020	0.020	7329609
p+m-Xylene	ug/g	<0.020	7329609	<0.020	<0.020	0.020	7329609
o-Xylene	ug/g	<0.020	7329609	<0.020	<0.020	0.020	7329609
Total Xylenes	ug/g	<0.020	7329609	<0.020	<0.020	0.020	7329609
F1 (C6-C10)	ug/g	21	7329609	<10	<10	10	7329609
F1 (C6-C10) - BTEX	ug/g	21	7329609	<10	<10	10	7329609
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/g	120	7331287	<10	27	10	7331287
F3 (C16-C34 Hydrocarbons)	ug/g	<50	7331287	<50	1600	50	7331287
F4 (C34-C50 Hydrocarbons)	ug/g	<50	7331287	<50	170	50	7331287
Reached Baseline at C50	ug/g	Yes	7331287	Yes	Yes		7331287
Surrogate Recovery (%)							
o-Terphenyl	%	97	7331287	96	96		7331287
4-Bromofluorobenzene	%	103	7329609	91	95		7329609
D10-o-Xylene	%	103	7329609	95	102		7329609
D4-1,2-Dichloroethane	%	95	7329609	101	101		7329609
D8-Toluene	%	99	7329609	100	100		7329609

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

BV Labs ID		PLN640			PLN641	PLN642		
Sampling Date		2021/04/28			2021/04/28	2021/04/28		
COC Number		823853-03-01			823853-03-01	823853-03-01		
	UNITS	BH113 SS-7 Lab-Dup	RDL	QC Batch	BHMW115 SS-3	BHMW115 SS-7	RDL	QC Batch
Inorganics								
Moisture	%	19	1.0	7328936	8.2	22	1.0	7328936
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/g				<0.050	<0.050	0.050	7327981
Volatile Organics								
Acetone (2-Propanone)	ug/g				<0.50	<0.50	0.50	7329609
Benzene	ug/g				<0.020	0.021	0.020	7329609
Bromodichloromethane	ug/g				<0.050	<0.050	0.050	7329609
Bromoform	ug/g				<0.050	<0.050	0.050	7329609
Bromomethane	ug/g				<0.050	<0.050	0.050	7329609
Carbon Tetrachloride	ug/g				<0.050	<0.050	0.050	7329609
Chlorobenzene	ug/g				<0.050	<0.050	0.050	7329609
Chloroform	ug/g				<0.050	<0.050	0.050	7329609
Dibromochloromethane	ug/g				<0.050	<0.050	0.050	7329609
1,2-Dichlorobenzene	ug/g				<0.050	<0.050	0.050	7329609
1,3-Dichlorobenzene	ug/g				<0.050	<0.050	0.050	7329609
1,4-Dichlorobenzene	ug/g				<0.050	<0.050	0.050	7329609
Dichlorodifluoromethane (FREON 12)	ug/g				<0.050	<0.050	0.050	7329609
1,1-Dichloroethane	ug/g				<0.050	<0.050	0.050	7329609
1,2-Dichloroethane	ug/g				<0.050	<0.050	0.050	7329609
1,1-Dichloroethylene	ug/g				<0.050	<0.050	0.050	7329609
cis-1,2-Dichloroethylene	ug/g				<0.050	<0.050	0.050	7329609
trans-1,2-Dichloroethylene	ug/g				<0.050	<0.050	0.050	7329609
1,2-Dichloropropane	ug/g				<0.050	<0.050	0.050	7329609
cis-1,3-Dichloropropene	ug/g				<0.030	<0.030	0.030	7329609
trans-1,3-Dichloropropene	ug/g				<0.040	<0.040	0.040	7329609
Ethylbenzene	ug/g				<0.020	<0.020	0.020	7329609
Ethylene Dibromide	ug/g				<0.050	<0.050	0.050	7329609
Hexane	ug/g				<0.050	<0.050	0.050	7329609
Methylene Chloride(Dichloromethane)	ug/g				<0.050	<0.050	0.050	7329609
Methyl Ethyl Ketone (2-Butanone)	ug/g				<0.50	<0.50	0.50	7329609
Methyl Isobutyl Ketone	ug/g				<0.50	<0.50	0.50	7329609
Methyl t-butyl ether (MTBE)	ug/g				<0.050	<0.050	0.050	7329609
Styrene	ug/g				<0.050	<0.050	0.050	7329609
1,1,1,2-Tetrachloroethane	ug/g				<0.050	<0.050	0.050	7329609

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

BV Labs ID		PLN640			PLN641	PLN642		
Sampling Date		2021/04/28			2021/04/28	2021/04/28		
COC Number		823853-03-01			823853-03-01	823853-03-01		
	UNITS	BH113 SS-7 Lab-Dup	RDL	QC Batch	BHMW115 SS-3	BHMW115 SS-7	RDL	QC Batch
1,1,2,2-Tetrachloroethane	ug/g				<0.050	<0.050	0.050	7329609
Tetrachloroethylene	ug/g				<0.050	<0.050	0.050	7329609
Toluene	ug/g				<0.020	<0.020	0.020	7329609
1,1,1-Trichloroethane	ug/g				<0.050	<0.050	0.050	7329609
1,1,2-Trichloroethane	ug/g				<0.050	<0.050	0.050	7329609
Trichloroethylene	ug/g				<0.050	<0.050	0.050	7329609
Trichlorofluoromethane (FREON 11)	ug/g				<0.050	<0.050	0.050	7329609
Vinyl Chloride	ug/g				<0.020	<0.020	0.020	7329609
p+m-Xylene	ug/g				<0.020	<0.020	0.020	7329609
o-Xylene	ug/g				<0.020	<0.020	0.020	7329609
Total Xylenes	ug/g				<0.020	<0.020	0.020	7329609
F1 (C6-C10)	ug/g				<10	<10	10	7329609
F1 (C6-C10) - BTEX	ug/g				<10	<10	10	7329609
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g				<10	<10	10	7331287
F3 (C16-C34 Hydrocarbons)	ug/g				<50	590	50	7331287
F4 (C34-C50 Hydrocarbons)	ug/g				<50	69	50	7331287
Reached Baseline at C50	ug/g				Yes	Yes		7331287
Surrogate Recovery (%)								
o-Terphenyl	%				97	98		7331287
4-Bromofluorobenzene	%				91	95		7329609
D10-o-Xylene	%				97	97		7329609
D4-1,2-Dichloroethane	%				104	103		7329609
D8-Toluene	%				100	100		7329609

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

BV Labs Job #: C1B6083
Report Date: 2021/05/06

Pinchin Ltd
Client Project #: 285722.003
Sampler Initials: MK

RESULTS OF ANALYSES OF SOIL

BV Labs ID		PLN555	PLN556	PLN559	PLN560	PLN580	PLN582		
Sampling Date		2021/04/26	2021/04/26	2021/04/26	2021/04/26	2021/04/26	2021/04/27		
COC Number		823853-01-01	823853-01-01	823853-01-01	823853-01-01	823853-02-01	823853-02-01		
	UNITS	BH103 SS-2	BH103 SS-7	BH105 SS-2	BH105 SS-7	BHMW108 SS-2	BHMW109 SS-7	RDL	QC Batch
Inorganics									
Available (CaCl2) pH	pH	7.97	7.82	7.80	7.42	8.06	7.78		7334676
Miscellaneous Parameters									
Grain Size	%	COARSE	FINE	COARSE	FINE	COARSE	COARSE	N/A	7330357
Sieve - #200 (<0.075mm)	%	31	98	41	97	41	41	1	7330357
Sieve - #200 (>0.075mm)	%	69	2	59	3	59	59	1	7330357

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

BV Labs ID		PLN637	PLN638	PLN639	PLN640		
Sampling Date		2021/04/27	2021/04/27	2021/04/28	2021/04/28		
COC Number		823853-03-01	823853-03-01	823853-03-01	823853-03-01		
	UNITS	BHMW12 SS-3	BHMW12 SS-7	BH113 SS-3	BH113 SS-7	RDL	QC Batch
Inorganics							
Available (CaCl2) pH	pH	8.05	7.73	7.94	7.70		7334676
Miscellaneous Parameters							
Grain Size	%	COARSE	FINE	COARSE	FINE	N/A	7330357
Sieve - #200 (<0.075mm)	%	49	97	41	72	1	7330357
Sieve - #200 (>0.075mm)	%	51	3	59	28	1	7330357

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

PETROLEUM HYDROCARBONS (CCME)

BV Labs ID		PLN559	PLN577	PLN577	PLN578		
Sampling Date		2021/04/26	2021/04/26	2021/04/26	2021/04/26		
COC Number		823853-01-01	823853-02-01	823853-02-01	823853-02-01		
	UNITS	BH105 SS-2	BH107 SS-3	BH107 SS-3 Lab-Dup	DUP-1	RDL	QC Batch
F2-F4 Hydrocarbons							
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	1000	1100	1200	3100	100	7336989

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Laboratories 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvlabs.com

TEST SUMMARY

BV Labs ID: PLN551
Sample ID: BH101 SS-2
Matrix: Soil

Collected: 2021/04/26
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7327390	N/A	2021/05/05	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7332664	N/A	2021/05/04	Domnica Andronescu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7331287	2021/05/03	2021/05/04	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7330536	2021/05/03	2021/05/05	Viviana Canzonieri
Moisture	BAL	7328936	N/A	2021/04/30	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7331295	2021/05/03	2021/05/04	Mitesh Raj

BV Labs ID: PLN552
Sample ID: BH101 SS-6
Matrix: Soil

Collected: 2021/04/26
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7327390	N/A	2021/05/06	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7332664	N/A	2021/05/04	Domnica Andronescu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7330915	2021/05/03	2021/05/04	Dennis Ngondu
Moisture	BAL	7328861	N/A	2021/04/30	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7331308	2021/05/03	2021/05/04	Mitesh Raj

BV Labs ID: PLN553
Sample ID: BH102 SS-2
Matrix: Soil

Collected: 2021/04/26
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7327390	N/A	2021/05/05	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7332664	N/A	2021/05/04	Domnica Andronescu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7331287	2021/05/03	2021/05/04	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7330536	2021/05/03	2021/05/05	Viviana Canzonieri
Moisture	BAL	7328936	N/A	2021/04/30	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7331295	2021/05/03	2021/05/04	Mitesh Raj

BV Labs ID: PLN554
Sample ID: BH102 SS-6
Matrix: Soil

Collected: 2021/04/26
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7327390	N/A	2021/05/06	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7332664	N/A	2021/05/04	Domnica Andronescu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7330915	2021/05/03	2021/05/04	Dennis Ngondu
Moisture	BAL	7328861	N/A	2021/04/30	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7331308	2021/05/03	2021/05/04	Mitesh Raj

BV Labs ID: PLN555
Sample ID: BH103 SS-2
Matrix: Soil

Collected: 2021/04/26
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7328686	N/A	2021/05/05	Automated Statchk

TEST SUMMARY

BV Labs ID: PLN555
Sample ID: BH103 SS-2
Matrix: Soil

Collected: 2021/04/26
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7332664	N/A	2021/05/04	Domnica Andronescu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7331287	2021/05/03	2021/05/04	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7330536	2021/05/03	2021/05/05	Viviana Canzonieri
Moisture	BAL	7328936	N/A	2021/04/30	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7331295	2021/05/03	2021/05/04	Mitesh Raj
pH CaCl2 EXTRACT	AT	7334676	2021/05/05	2021/05/05	Yogesh Patel
Sieve, 75um	SIEV	7330357	N/A	2021/05/04	Kruti Jitesh Patel

BV Labs ID: PLN556
Sample ID: BH103 SS-7
Matrix: Soil

Collected: 2021/04/26
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7328686	N/A	2021/05/06	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7332664	N/A	2021/05/04	Domnica Andronescu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7330915	2021/05/03	2021/05/04	Dennis Ngondu
Moisture	BAL	7328861	N/A	2021/04/30	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7331308	2021/05/03	2021/05/04	Mitesh Raj
pH CaCl2 EXTRACT	AT	7334676	2021/05/05	2021/05/05	Yogesh Patel
Sieve, 75um	SIEV	7330357	N/A	2021/05/04	Kruti Jitesh Patel

BV Labs ID: PLN557
Sample ID: BH104 SS-4
Matrix: Soil

Collected: 2021/04/26
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7328686	N/A	2021/05/05	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7332664	N/A	2021/05/04	Domnica Andronescu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7331287	2021/05/03	2021/05/04	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7330536	2021/05/03	2021/05/05	Viviana Canzonieri
Moisture	BAL	7328936	N/A	2021/04/30	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7331295	2021/05/03	2021/05/04	Mitesh Raj

BV Labs ID: PLN558
Sample ID: BH104 SS-7
Matrix: Soil

Collected: 2021/04/26
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7328686	N/A	2021/05/06	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7332664	N/A	2021/05/04	Domnica Andronescu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7333129	2021/05/04	2021/05/05	(Kent) Maolin Li
Moisture	BAL	7328861	N/A	2021/04/30	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7331865	2021/05/03	2021/05/04	Mitesh Raj

TEST SUMMARY

BV Labs ID: PLN559
Sample ID: BH105 SS-2
Matrix: Soil

Collected: 2021/04/26
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7328686	N/A	2021/05/05	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7332664	N/A	2021/05/04	Domnica Andronescu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7331287	2021/05/03	2021/05/04	Ksenia Trofimova
F4G (CCME Hydrocarbons Gravimetric)	BAL	7336989	2021/05/06	2021/05/06	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	7330536	2021/05/03	2021/05/05	Viviana Canzonieri
Moisture	BAL	7328936	N/A	2021/04/30	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7331295	2021/05/03	2021/05/04	Mitesh Raj
pH CaCl2 EXTRACT	AT	7334676	2021/05/05	2021/05/05	Yogesh Patel
Sieve, 75um	SIEV	7330357	N/A	2021/05/04	Kruti Jitesh Patel

BV Labs ID: PLN560
Sample ID: BH105 SS-7
Matrix: Soil

Collected: 2021/04/26
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7328686	N/A	2021/05/05	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7332664	N/A	2021/05/04	Domnica Andronescu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7331287	2021/05/03	2021/05/04	Ksenia Trofimova
Moisture	BAL	7328861	N/A	2021/04/30	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7331295	2021/05/03	2021/05/04	Mitesh Raj
pH CaCl2 EXTRACT	AT	7334676	2021/05/05	2021/05/05	Yogesh Patel
Sieve, 75um	SIEV	7330357	N/A	2021/05/04	Kruti Jitesh Patel

BV Labs ID: PLN575
Sample ID: BH106 SS-4
Matrix: Soil

Collected: 2021/04/26
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7327390	N/A	2021/05/05	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7332664	N/A	2021/05/04	Domnica Andronescu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7331287	2021/05/03	2021/05/04	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7330536	2021/05/03	2021/05/05	Viviana Canzonieri
Moisture	BAL	7328936	N/A	2021/04/30	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7331295	2021/05/03	2021/05/04	Mitesh Raj

BV Labs ID: PLN576
Sample ID: BH106 SS-8
Matrix: Soil

Collected: 2021/04/26
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7327390	N/A	2021/05/06	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7332664	N/A	2021/05/04	Domnica Andronescu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7330915	2021/05/03	2021/05/04	Dennis Ngondu
Moisture	BAL	7328861	N/A	2021/04/30	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7331308	2021/05/03	2021/05/04	Mitesh Raj

TEST SUMMARY

BV Labs ID: PLN577
Sample ID: BH107 SS-3
Matrix: Soil

Collected: 2021/04/26
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7327390	N/A	2021/05/05	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7332664	N/A	2021/05/04	Domnica Andronescu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7331287	2021/05/03	2021/05/04	Ksenia Trofimova
F4G (CCME Hydrocarbons Gravimetric)	BAL	7336989	2021/05/06	2021/05/06	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	7330536	2021/05/03	2021/05/05	Viviana Canzonieri
Moisture	BAL	7328936	N/A	2021/04/30	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7331295	2021/05/03	2021/05/04	Mitesh Raj

BV Labs ID: PLN577 Dup
Sample ID: BH107 SS-3
Matrix: Soil

Collected: 2021/04/26
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
F4G (CCME Hydrocarbons Gravimetric)	BAL	7336989	2021/05/06	2021/05/06	Rashmi Dubey

BV Labs ID: PLN578
Sample ID: DUP-1
Matrix: Soil

Collected: 2021/04/26
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7327390	N/A	2021/05/05	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7332664	N/A	2021/05/04	Domnica Andronescu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7331287	2021/05/03	2021/05/04	Ksenia Trofimova
F4G (CCME Hydrocarbons Gravimetric)	BAL	7336989	2021/05/06	2021/05/06	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	7330536	2021/05/03	2021/05/05	Viviana Canzonieri
Moisture	BAL	7328936	N/A	2021/04/30	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7331295	2021/05/03	2021/05/04	Mitesh Raj

BV Labs ID: PLN579
Sample ID: BH107 SS-7
Matrix: Soil

Collected: 2021/04/26
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7327390	N/A	2021/05/06	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7332664	N/A	2021/05/04	Domnica Andronescu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7330915	2021/05/03	2021/05/04	Dennis Ngondu
Moisture	BAL	7328861	N/A	2021/04/30	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7331308	2021/05/03	2021/05/04	Mitesh Raj

BV Labs ID: PLN580
Sample ID: BHMW108 SS-2
Matrix: Soil

Collected: 2021/04/26
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7327390	N/A	2021/05/06	Automated Statchk
Acid Extractable Metals by ICPMS	ICP/MS	7330536	2021/05/03	2021/05/05	Viviana Canzonieri
Moisture	BAL	7328861	N/A	2021/04/30	Kruti Jitesh Patel

TEST SUMMARY

BV Labs ID: PLN580
Sample ID: BHMW108 SS-2
Matrix: Soil

Collected: 2021/04/26
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7331308	2021/05/03	2021/05/04	Mitesh Raj
pH CaCl2 EXTRACT	AT	7334676	2021/05/05	2021/05/05	Yogesh Patel
Sieve, 75um	SIEV	7330357	N/A	2021/05/04	Kruti Jitesh Patel

BV Labs ID: PLN581
Sample ID: BHMW108 SS-8
Matrix: Soil

Collected: 2021/04/26
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7327390	N/A	2021/05/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	7327981	N/A	2021/05/06	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7331287	2021/05/03	2021/05/04	Ksenia Trofimova
Moisture	BAL	7328936	N/A	2021/04/30	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7331295	2021/05/03	2021/05/04	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7329609	N/A	2021/05/06	Rebecca McClean

BV Labs ID: PLN581 Dup
Sample ID: BHMW108 SS-8
Matrix: Soil

Collected: 2021/04/26
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7331287	2021/05/03	2021/05/04	Ksenia Trofimova
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7331295	2021/05/03	2021/05/04	Mitesh Raj

BV Labs ID: PLN582
Sample ID: BHMW109 SS-7
Matrix: Soil

Collected: 2021/04/27
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7327390	N/A	2021/05/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	7327981	N/A	2021/05/06	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7331287	2021/05/03	2021/05/04	Ksenia Trofimova
Moisture	BAL	7328936	N/A	2021/04/30	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7331295	2021/05/03	2021/05/04	Mitesh Raj
pH CaCl2 EXTRACT	AT	7334676	2021/05/05	2021/05/05	Yogesh Patel
Sieve, 75um	SIEV	7330357	N/A	2021/05/04	Kruti Jitesh Patel
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7329609	N/A	2021/05/06	Rebecca McClean

BV Labs ID: PLN583
Sample ID: BHMW110 SS-7
Matrix: Soil

Collected: 2021/04/27
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7327390	N/A	2021/05/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	7328687	N/A	2021/05/06	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7331287	2021/05/03	2021/05/04	Ksenia Trofimova
Moisture	BAL	7328936	N/A	2021/04/30	Kruti Jitesh Patel

TEST SUMMARY

BV Labs ID: PLN583
Sample ID: BHMW110 SS-7
Matrix: Soil

Collected: 2021/04/27
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7331295	2021/05/03	2021/05/04	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7329609	N/A	2021/05/06	Rebecca McClean

BV Labs ID: PLN584
Sample ID: DUP-2
Matrix: Soil

Collected: 2021/04/27
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7327390	N/A	2021/05/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	7328687	N/A	2021/05/06	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7331287	2021/05/03	2021/05/04	Ksenia Trofimova
Moisture	BAL	7328936	N/A	2021/04/30	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7331295	2021/05/03	2021/05/04	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7329609	N/A	2021/05/06	Rebecca McClean

BV Labs ID: PLN636
Sample ID: BHMW111 SS-6
Matrix: Soil

Collected: 2021/04/27
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7327390	N/A	2021/05/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	7327981	N/A	2021/05/06	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7331287	2021/05/03	2021/05/04	Ksenia Trofimova
Moisture	BAL	7328936	N/A	2021/04/30	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7331295	2021/05/03	2021/05/04	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7329609	N/A	2021/05/06	Rebecca McClean

BV Labs ID: PLN637
Sample ID: BHMW12 SS-3
Matrix: Soil

Collected: 2021/04/27
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7327390	N/A	2021/05/05	Automated Statchk
Acid Extractable Metals by ICPMS	ICP/MS	7330536	2021/05/03	2021/05/05	Viviana Canzonieri
Moisture	BAL	7328861	N/A	2021/04/30	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7331295	2021/05/03	2021/05/04	Mitesh Raj
pH CaCl2 EXTRACT	AT	7334676	2021/05/05	2021/05/05	Yogesh Patel
Sieve, 75um	SIEV	7330357	N/A	2021/05/04	Kruti Jitesh Patel

BV Labs ID: PLN638
Sample ID: BHMW12 SS-7
Matrix: Soil

Collected: 2021/04/27
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7327390	N/A	2021/05/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	7327981	N/A	2021/05/06	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7331287	2021/05/03	2021/05/04	Ksenia Trofimova

TEST SUMMARY

BV Labs ID: PLN638
Sample ID: BHMW12 SS-7
Matrix: Soil

Collected: 2021/04/27
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7328861	N/A	2021/04/30	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7331295	2021/05/03	2021/05/04	Mitesh Raj
pH CaCl2 EXTRACT	AT	7334676	2021/05/05	2021/05/05	Yogesh Patel
Sieve, 75um	SIEV	7330357	N/A	2021/05/04	Kruti Jitesh Patel
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7329609	N/A	2021/05/06	Rebecca McClean

BV Labs ID: PLN639
Sample ID: BH113 SS-3
Matrix: Soil

Collected: 2021/04/28
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7327981	N/A	2021/05/06	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7331287	2021/05/03	2021/05/04	Ksenia Trofimova
Moisture	BAL	7328936	N/A	2021/04/30	Kruti Jitesh Patel
pH CaCl2 EXTRACT	AT	7334676	2021/05/05	2021/05/05	Yogesh Patel
Sieve, 75um	SIEV	7330357	N/A	2021/05/04	Kruti Jitesh Patel
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7329609	N/A	2021/05/06	Rebecca McClean

BV Labs ID: PLN640
Sample ID: BH113 SS-7
Matrix: Soil

Collected: 2021/04/28
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7327390	N/A	2021/05/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	7327981	N/A	2021/05/06	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7331287	2021/05/03	2021/05/04	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7330536	2021/05/03	2021/05/05	Viviana Canzonieri
Moisture	BAL	7328936	N/A	2021/04/30	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7331295	2021/05/03	2021/05/04	Mitesh Raj
pH CaCl2 EXTRACT	AT	7334676	2021/05/05	2021/05/05	Yogesh Patel
Sieve, 75um	SIEV	7330357	N/A	2021/05/04	Kruti Jitesh Patel
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7329609	N/A	2021/05/06	Rebecca McClean

BV Labs ID: PLN640 Dup
Sample ID: BH113 SS-7
Matrix: Soil

Collected: 2021/04/28
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7328936	N/A	2021/04/30	Kruti Jitesh Patel

BV Labs ID: PLN641
Sample ID: BHMW115 SS-3
Matrix: Soil

Collected: 2021/04/28
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7327981	N/A	2021/05/06	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7331287	2021/05/03	2021/05/04	Ksenia Trofimova

TEST SUMMARY

BV Labs ID: PLN641
Sample ID: BHMW115 SS-3
Matrix: Soil

Collected: 2021/04/28
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7328936	N/A	2021/04/30	Kruti Jitesh Patel
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7329609	N/A	2021/05/06	Rebecca McClean

BV Labs ID: PLN642
Sample ID: BHMW115 SS-7
Matrix: Soil

Collected: 2021/04/28
Shipped:
Received: 2021/04/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7327390	N/A	2021/05/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	7327981	N/A	2021/05/06	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7331287	2021/05/03	2021/05/04	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7330536	2021/05/03	2021/05/05	Viviana Canzonieri
Moisture	BAL	7328936	N/A	2021/04/30	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7331295	2021/05/03	2021/05/04	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7329609	N/A	2021/05/06	Rebecca McClean

GENERAL COMMENTS

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

Package 1	4.3°C

Cooler custody seal was present and intact.

Sample PLN551 [BH101 SS-2] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

PAH analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample PLN552 [BH101 SS-6] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample PLN553 [BH102 SS-2] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample PLN555 [BH103 SS-2] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

PAH analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample PLN557 [BH104 SS-4] : PAH analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample PLN558 [BH104 SS-7] : F2-F4 Analysis: Detection limits were adjusted for high moisture content.

Sample PLN559 [BH105 SS-2] : PAH analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample PLN576 [BH106 SS-8] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample PLN577 [BH107 SS-3] : PAH analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample PLN578 [DUP-1] : PAH analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample PLN579 [BH107 SS-7] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample PLN581 [BHMW108 SS-8] : VOCF1 Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly. In order to meet required regulatory criteria, results for selected compounds (obtained by a separate analysis using an appropriate low dilution) are included in the report.

Sample PLN583 [BHMW110 SS-7] : VOCF1 Analysis: Due to a level of petroleum hydrocarbon compounds beyond the appropriate range, the sample required dilution. The detection limits were adjusted accordingly. In order to meet required regulatory criteria, results for selected compounds (obtained by a separate analysis using an appropriate low dilution) are included in the report.

Sample PLN584 [DUP-2] : VOCF1 Analysis: Due to a level of petroleum hydrocarbon compounds beyond the appropriate range, the sample required dilution. The detection limits were adjusted accordingly. In order to meet required regulatory criteria, results for selected compounds (obtained by a separate analysis using an appropriate low dilution) are included in the report.

Sample PLN636 [BHMW111 SS-6] : VOCF1 Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly. In order to meet required regulatory criteria, results for selected compounds (obtained by a separate analysis using an appropriate low dilution) are included in the report.

Results relate only to the items tested.

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7328861	MYG	RPD	Moisture	2021/04/30	1.0		%	20
7328936	MYG	RPD [PLN640-01]	Moisture	2021/04/30	5.2		%	20
7329609	RSC	Matrix Spike	4-Bromofluorobenzene	2021/05/06		103	%	60 - 140
			D10-o-Xylene	2021/05/06		107	%	60 - 130
			D4-1,2-Dichloroethane	2021/05/06		103	%	60 - 140
			D8-Toluene	2021/05/06		101	%	60 - 140
			Acetone (2-Propanone)	2021/05/06		100	%	60 - 140
			Benzene	2021/05/06		89	%	60 - 140
			Bromodichloromethane	2021/05/06		100	%	60 - 140
			Bromoform	2021/05/06		101	%	60 - 140
			Bromomethane	2021/05/06		91	%	60 - 140
			Carbon Tetrachloride	2021/05/06		95	%	60 - 140
			Chlorobenzene	2021/05/06		94	%	60 - 140
			Chloroform	2021/05/06		96	%	60 - 140
			Dibromochloromethane	2021/05/06		97	%	60 - 140
			1,2-Dichlorobenzene	2021/05/06		97	%	60 - 140
			1,3-Dichlorobenzene	2021/05/06		99	%	60 - 140
			1,4-Dichlorobenzene	2021/05/06		108	%	60 - 140
			Dichlorodifluoromethane (FREON 12)	2021/05/06		105	%	60 - 140
			1,1-Dichloroethane	2021/05/06		93	%	60 - 140
			1,2-Dichloroethane	2021/05/06		93	%	60 - 140
			1,1-Dichloroethylene	2021/05/06		95	%	60 - 140
			cis-1,2-Dichloroethylene	2021/05/06		96	%	60 - 140
			trans-1,2-Dichloroethylene	2021/05/06		93	%	60 - 140
			1,2-Dichloropropane	2021/05/06		97	%	60 - 140
			cis-1,3-Dichloropropene	2021/05/06		88	%	60 - 140
			trans-1,3-Dichloropropene	2021/05/06		92	%	60 - 140
			Ethylbenzene	2021/05/06		87	%	60 - 140
			Ethylene Dibromide	2021/05/06		93	%	60 - 140
			Hexane	2021/05/06		97	%	60 - 140
			Methylene Chloride(Dichloromethane)	2021/05/06		98	%	60 - 140
			Methyl Ethyl Ketone (2-Butanone)	2021/05/06		108	%	60 - 140
			Methyl Isobutyl Ketone	2021/05/06		101	%	60 - 140
			Methyl t-butyl ether (MTBE)	2021/05/06		88	%	60 - 140
			Styrene	2021/05/06		102	%	60 - 140
			1,1,1,2-Tetrachloroethane	2021/05/06		100	%	60 - 140
			1,1,2,2-Tetrachloroethane	2021/05/06		100	%	60 - 140
			Tetrachloroethylene	2021/05/06		87	%	60 - 140
			Toluene	2021/05/06		87	%	60 - 140
			1,1,1-Trichloroethane	2021/05/06		98	%	60 - 140
			1,1,2-Trichloroethane	2021/05/06		100	%	60 - 140
			Trichloroethylene	2021/05/06		98	%	60 - 140
			Trichlorofluoromethane (FREON 11)	2021/05/06		95	%	60 - 140
			Vinyl Chloride	2021/05/06		94	%	60 - 140
			p+m-Xylene	2021/05/06		91	%	60 - 140
			o-Xylene	2021/05/06		90	%	60 - 140
			F1 (C6-C10)	2021/05/06		100	%	60 - 140
7329609	RSC	Spiked Blank	4-Bromofluorobenzene	2021/05/06		103	%	60 - 140
			D10-o-Xylene	2021/05/06		107	%	60 - 130
			D4-1,2-Dichloroethane	2021/05/06		105	%	60 - 140
			D8-Toluene	2021/05/06		102	%	60 - 140
			Acetone (2-Propanone)	2021/05/06		108	%	60 - 140
			Benzene	2021/05/06		96	%	60 - 130
			Bromodichloromethane	2021/05/06		108	%	60 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Bromoform	2021/05/06		109	%	60 - 130
			Bromomethane	2021/05/06		97	%	60 - 140
			Carbon Tetrachloride	2021/05/06		102	%	60 - 130
			Chlorobenzene	2021/05/06		101	%	60 - 130
			Chloroform	2021/05/06		104	%	60 - 130
			Dibromochloromethane	2021/05/06		104	%	60 - 130
			1,2-Dichlorobenzene	2021/05/06		105	%	60 - 130
			1,3-Dichlorobenzene	2021/05/06		107	%	60 - 130
			1,4-Dichlorobenzene	2021/05/06		115	%	60 - 130
			Dichlorodifluoromethane (FREON 12)	2021/05/06		114	%	60 - 140
			1,1-Dichloroethane	2021/05/06		100	%	60 - 130
			1,2-Dichloroethane	2021/05/06		101	%	60 - 130
			1,1-Dichloroethylene	2021/05/06		103	%	60 - 130
			cis-1,2-Dichloroethylene	2021/05/06		104	%	60 - 130
			trans-1,2-Dichloroethylene	2021/05/06		102	%	60 - 130
			1,2-Dichloropropane	2021/05/06		105	%	60 - 130
			cis-1,3-Dichloropropene	2021/05/06		89	%	60 - 130
			trans-1,3-Dichloropropene	2021/05/06		92	%	60 - 130
			Ethylbenzene	2021/05/06		93	%	60 - 130
			Ethylene Dibromide	2021/05/06		101	%	60 - 130
			Hexane	2021/05/06		104	%	60 - 130
			Methylene Chloride(Dichloromethane)	2021/05/06		107	%	60 - 130
			Methyl Ethyl Ketone (2-Butanone)	2021/05/06		115	%	60 - 140
			Methyl Isobutyl Ketone	2021/05/06		109	%	60 - 130
			Methyl t-butyl ether (MTBE)	2021/05/06		95	%	60 - 130
			Styrene	2021/05/06		111	%	60 - 130
			1,1,1,2-Tetrachloroethane	2021/05/06		107	%	60 - 130
			1,1,2,2-Tetrachloroethane	2021/05/06		109	%	60 - 130
			Tetrachloroethylene	2021/05/06		95	%	60 - 130
			Toluene	2021/05/06		93	%	60 - 130
			1,1,1-Trichloroethane	2021/05/06		106	%	60 - 130
			1,1,2-Trichloroethane	2021/05/06		108	%	60 - 130
			Trichloroethylene	2021/05/06		106	%	60 - 130
			Trichlorofluoromethane (FREON 11)	2021/05/06		103	%	60 - 130
			Vinyl Chloride	2021/05/06		103	%	60 - 130
			p+m-Xylene	2021/05/06		98	%	60 - 130
			o-Xylene	2021/05/06		96	%	60 - 130
			F1 (C6-C10)	2021/05/06		96	%	80 - 120
7329609	RSC	Method Blank	4-Bromofluorobenzene	2021/05/06		89	%	60 - 140
			D10-o-Xylene	2021/05/06		95	%	60 - 130
			D4-1,2-Dichloroethane	2021/05/06		104	%	60 - 140
			D8-Toluene	2021/05/06		99	%	60 - 140
			Acetone (2-Propanone)	2021/05/06	<0.50		ug/g	
			Benzene	2021/05/06	<0.020		ug/g	
			Bromodichloromethane	2021/05/06	<0.050		ug/g	
			Bromoform	2021/05/06	<0.050		ug/g	
			Bromomethane	2021/05/06	<0.050		ug/g	
			Carbon Tetrachloride	2021/05/06	<0.050		ug/g	
			Chlorobenzene	2021/05/06	<0.050		ug/g	
			Chloroform	2021/05/06	<0.050		ug/g	
			Dibromochloromethane	2021/05/06	<0.050		ug/g	
			1,2-Dichlorobenzene	2021/05/06	<0.050		ug/g	
			1,3-Dichlorobenzene	2021/05/06	<0.050		ug/g	
			1,4-Dichlorobenzene	2021/05/06	<0.050		ug/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dichlorodifluoromethane (FREON 12)	2021/05/06	<0.050		ug/g	
			1,1-Dichloroethane	2021/05/06	<0.050		ug/g	
			1,2-Dichloroethane	2021/05/06	<0.050		ug/g	
			1,1-Dichloroethylene	2021/05/06	<0.050		ug/g	
			cis-1,2-Dichloroethylene	2021/05/06	<0.050		ug/g	
			trans-1,2-Dichloroethylene	2021/05/06	<0.050		ug/g	
			1,2-Dichloropropane	2021/05/06	<0.050		ug/g	
			cis-1,3-Dichloropropene	2021/05/06	<0.030		ug/g	
			trans-1,3-Dichloropropene	2021/05/06	<0.040		ug/g	
			Ethylbenzene	2021/05/06	<0.020		ug/g	
			Ethylene Dibromide	2021/05/06	<0.050		ug/g	
			Hexane	2021/05/06	<0.050		ug/g	
			Methylene Chloride(Dichloromethane)	2021/05/06	<0.050		ug/g	
			Methyl Ethyl Ketone (2-Butanone)	2021/05/06	<0.50		ug/g	
			Methyl Isobutyl Ketone	2021/05/06	<0.50		ug/g	
			Methyl t-butyl ether (MTBE)	2021/05/06	<0.050		ug/g	
			Styrene	2021/05/06	<0.050		ug/g	
			1,1,1,2-Tetrachloroethane	2021/05/06	<0.050		ug/g	
			1,1,2,2-Tetrachloroethane	2021/05/06	<0.050		ug/g	
			Tetrachloroethylene	2021/05/06	<0.050		ug/g	
			Toluene	2021/05/06	<0.020		ug/g	
			1,1,1-Trichloroethane	2021/05/06	<0.050		ug/g	
			1,1,2-Trichloroethane	2021/05/06	<0.050		ug/g	
			Trichloroethylene	2021/05/06	<0.050		ug/g	
			Trichlorofluoromethane (FREON 11)	2021/05/06	<0.050		ug/g	
			Vinyl Chloride	2021/05/06	<0.020		ug/g	
			p+m-Xylene	2021/05/06	<0.020		ug/g	
			o-Xylene	2021/05/06	<0.020		ug/g	
			Total Xylenes	2021/05/06	<0.020		ug/g	
			F1 (C6-C10)	2021/05/06	<10		ug/g	
			F1 (C6-C10) - BTEX	2021/05/06	<10		ug/g	
7329609	RSC	RPD	Acetone (2-Propanone)	2021/05/06	NC		%	50
			Benzene	2021/05/06	NC		%	50
			Bromodichloromethane	2021/05/06	NC		%	50
			Bromoform	2021/05/06	NC		%	50
			Bromomethane	2021/05/06	NC		%	50
			Carbon Tetrachloride	2021/05/06	NC		%	50
			Chlorobenzene	2021/05/06	NC		%	50
			Chloroform	2021/05/06	NC		%	50
			Dibromochloromethane	2021/05/06	NC		%	50
			1,2-Dichlorobenzene	2021/05/06	NC		%	50
			1,3-Dichlorobenzene	2021/05/06	NC		%	50
			1,4-Dichlorobenzene	2021/05/06	NC		%	50
			Dichlorodifluoromethane (FREON 12)	2021/05/06	NC		%	50
			1,1-Dichloroethane	2021/05/06	NC		%	50
			1,2-Dichloroethane	2021/05/06	NC		%	50
			1,1-Dichloroethylene	2021/05/06	NC		%	50
			cis-1,2-Dichloroethylene	2021/05/06	NC		%	50
			trans-1,2-Dichloroethylene	2021/05/06	NC		%	50
			1,2-Dichloropropane	2021/05/06	NC		%	50
			cis-1,3-Dichloropropene	2021/05/06	NC		%	50
			trans-1,3-Dichloropropene	2021/05/06	NC		%	50
			Ethylbenzene	2021/05/06	NC		%	50
			Ethylene Dibromide	2021/05/06	NC		%	50

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Hexane	2021/05/06	NC		%	50
			Methylene Chloride(Dichloromethane)	2021/05/06	NC		%	50
			Methyl Ethyl Ketone (2-Butanone)	2021/05/06	NC		%	50
			Methyl Isobutyl Ketone	2021/05/06	NC		%	50
			Methyl t-butyl ether (MTBE)	2021/05/06	NC		%	50
			Styrene	2021/05/06	NC		%	50
			1,1,1,2-Tetrachloroethane	2021/05/06	NC		%	50
			1,1,2,2-Tetrachloroethane	2021/05/06	NC		%	50
			Tetrachloroethylene	2021/05/06	NC		%	50
			Toluene	2021/05/06	NC		%	50
			1,1,1-Trichloroethane	2021/05/06	NC		%	50
			1,1,2-Trichloroethane	2021/05/06	NC		%	50
			Trichloroethylene	2021/05/06	NC		%	50
			Trichlorofluoromethane (FREON 11)	2021/05/06	NC		%	50
			Vinyl Chloride	2021/05/06	NC		%	50
			p+m-Xylene	2021/05/06	NC		%	50
			o-Xylene	2021/05/06	NC		%	50
			Total Xylenes	2021/05/06	NC		%	50
			F1 (C6-C10)	2021/05/06	NC		%	30
			F1 (C6-C10) - BTEX	2021/05/06	NC		%	30
7330357	GYA	QC Standard	Sieve - #200 (<0.075mm)	2021/05/04		57	%	53 - 58
			Sieve - #200 (>0.075mm)	2021/05/04		44	%	42 - 47
7330357	GYA	RPD	Sieve - #200 (<0.075mm)	2021/05/04	0.14		%	20
			Sieve - #200 (>0.075mm)	2021/05/04	0.38		%	20
7330536	VIV	Matrix Spike	Acid Extractable Antimony (Sb)	2021/05/05		96	%	75 - 125
			Acid Extractable Arsenic (As)	2021/05/05		103	%	75 - 125
			Acid Extractable Barium (Ba)	2021/05/05		NC	%	75 - 125
			Acid Extractable Beryllium (Be)	2021/05/05		104	%	75 - 125
			Acid Extractable Boron (B)	2021/05/05		97	%	75 - 125
			Acid Extractable Cadmium (Cd)	2021/05/05		101	%	75 - 125
			Acid Extractable Chromium (Cr)	2021/05/05		101	%	75 - 125
			Acid Extractable Cobalt (Co)	2021/05/05		99	%	75 - 125
			Acid Extractable Copper (Cu)	2021/05/05		NC	%	75 - 125
			Acid Extractable Lead (Pb)	2021/05/05		NC	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2021/05/05		100	%	75 - 125
			Acid Extractable Nickel (Ni)	2021/05/05		96	%	75 - 125
			Acid Extractable Selenium (Se)	2021/05/05		99	%	75 - 125
			Acid Extractable Silver (Ag)	2021/05/05		100	%	75 - 125
			Acid Extractable Thallium (Tl)	2021/05/05		99	%	75 - 125
			Acid Extractable Uranium (U)	2021/05/05		96	%	75 - 125
			Acid Extractable Vanadium (V)	2021/05/05		103	%	75 - 125
			Acid Extractable Zinc (Zn)	2021/05/05		NC	%	75 - 125
			Acid Extractable Mercury (Hg)	2021/05/05		86	%	75 - 125
7330536	VIV	Spiked Blank	Acid Extractable Antimony (Sb)	2021/05/05		102	%	80 - 120
			Acid Extractable Arsenic (As)	2021/05/05		102	%	80 - 120
			Acid Extractable Barium (Ba)	2021/05/05		101	%	80 - 120
			Acid Extractable Beryllium (Be)	2021/05/05		99	%	80 - 120
			Acid Extractable Boron (B)	2021/05/05		97	%	80 - 120
			Acid Extractable Cadmium (Cd)	2021/05/05		99	%	80 - 120
			Acid Extractable Chromium (Cr)	2021/05/05		99	%	80 - 120
			Acid Extractable Cobalt (Co)	2021/05/05		98	%	80 - 120
			Acid Extractable Copper (Cu)	2021/05/05		101	%	80 - 120
			Acid Extractable Lead (Pb)	2021/05/05		99	%	80 - 120
			Acid Extractable Molybdenum (Mo)	2021/05/05		98	%	80 - 120

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Nickel (Ni)	2021/05/05		100	%	80 - 120
			Acid Extractable Selenium (Se)	2021/05/05		100	%	80 - 120
			Acid Extractable Silver (Ag)	2021/05/05		98	%	80 - 120
			Acid Extractable Thallium (Tl)	2021/05/05		103	%	80 - 120
			Acid Extractable Uranium (U)	2021/05/05		99	%	80 - 120
			Acid Extractable Vanadium (V)	2021/05/05		100	%	80 - 120
			Acid Extractable Zinc (Zn)	2021/05/05		97	%	80 - 120
			Acid Extractable Mercury (Hg)	2021/05/05		91	%	80 - 120
7330536	VIV	Method Blank	Acid Extractable Antimony (Sb)	2021/05/05	<0.20		ug/g	
			Acid Extractable Arsenic (As)	2021/05/05	<1.0		ug/g	
			Acid Extractable Barium (Ba)	2021/05/05	<0.50		ug/g	
			Acid Extractable Beryllium (Be)	2021/05/05	<0.20		ug/g	
			Acid Extractable Boron (B)	2021/05/05	<5.0		ug/g	
			Acid Extractable Cadmium (Cd)	2021/05/05	<0.10		ug/g	
			Acid Extractable Chromium (Cr)	2021/05/05	<1.0		ug/g	
			Acid Extractable Cobalt (Co)	2021/05/05	<0.10		ug/g	
			Acid Extractable Copper (Cu)	2021/05/05	<0.50		ug/g	
			Acid Extractable Lead (Pb)	2021/05/05	<1.0		ug/g	
			Acid Extractable Molybdenum (Mo)	2021/05/05	<0.50		ug/g	
			Acid Extractable Nickel (Ni)	2021/05/05	<0.50		ug/g	
			Acid Extractable Selenium (Se)	2021/05/05	<0.50		ug/g	
			Acid Extractable Silver (Ag)	2021/05/05	<0.20		ug/g	
			Acid Extractable Thallium (Tl)	2021/05/05	<0.050		ug/g	
			Acid Extractable Uranium (U)	2021/05/05	<0.050		ug/g	
			Acid Extractable Vanadium (V)	2021/05/05	<5.0		ug/g	
			Acid Extractable Zinc (Zn)	2021/05/05	<5.0		ug/g	
			Acid Extractable Mercury (Hg)	2021/05/05	<0.050		ug/g	
7330536	VIV	RPD	Acid Extractable Antimony (Sb)	2021/05/05	7.5		%	30
			Acid Extractable Arsenic (As)	2021/05/05	1.9		%	30
			Acid Extractable Barium (Ba)	2021/05/05	3.9		%	30
			Acid Extractable Beryllium (Be)	2021/05/05	3.1		%	30
			Acid Extractable Boron (B)	2021/05/05	0.22		%	30
			Acid Extractable Cadmium (Cd)	2021/05/05	0.77		%	30
			Acid Extractable Chromium (Cr)	2021/05/05	0.11		%	30
			Acid Extractable Cobalt (Co)	2021/05/05	2.5		%	30
			Acid Extractable Copper (Cu)	2021/05/05	0.87		%	30
			Acid Extractable Lead (Pb)	2021/05/05	3.4		%	30
			Acid Extractable Molybdenum (Mo)	2021/05/05	0.11		%	30
			Acid Extractable Nickel (Ni)	2021/05/05	6.4		%	30
			Acid Extractable Selenium (Se)	2021/05/05	NC		%	30
			Acid Extractable Silver (Ag)	2021/05/05	NC		%	30
			Acid Extractable Thallium (Tl)	2021/05/05	13		%	30
			Acid Extractable Uranium (U)	2021/05/05	0.27		%	30
			Acid Extractable Vanadium (V)	2021/05/05	3.4		%	30
			Acid Extractable Zinc (Zn)	2021/05/05	4.9		%	30
			Acid Extractable Mercury (Hg)	2021/05/05	5.4		%	30
7330915	DN0	Matrix Spike	o-Terphenyl	2021/05/03		88	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/05/03		92	%	50 - 130
			F3 (C16-C34 Hydrocarbons)	2021/05/03		95	%	50 - 130
			F4 (C34-C50 Hydrocarbons)	2021/05/03		99	%	50 - 130
7330915	DN0	Spiked Blank	o-Terphenyl	2021/05/03		85	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/05/03		90	%	80 - 120
			F3 (C16-C34 Hydrocarbons)	2021/05/03		92	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2021/05/03		95	%	80 - 120

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7330915	DN0	Method Blank	o-Terphenyl	2021/05/03		88	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/05/03	<10		ug/g	
			F3 (C16-C34 Hydrocarbons)	2021/05/03	<50		ug/g	
			F4 (C34-C50 Hydrocarbons)	2021/05/03	<50		ug/g	
7330915	DN0	RPD	F2 (C10-C16 Hydrocarbons)	2021/05/03	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2021/05/03	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2021/05/03	NC		%	30
7331287	KTR	Matrix Spike [PLN581-01]	o-Terphenyl	2021/05/03		100	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/05/03		107	%	50 - 130
			F3 (C16-C34 Hydrocarbons)	2021/05/03		108	%	50 - 130
			F4 (C34-C50 Hydrocarbons)	2021/05/03		108	%	50 - 130
7331287	KTR	Spiked Blank	o-Terphenyl	2021/05/03		97	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/05/03		103	%	80 - 120
			F3 (C16-C34 Hydrocarbons)	2021/05/03		103	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2021/05/03		102	%	80 - 120
7331287	KTR	Method Blank	o-Terphenyl	2021/05/03		100	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/05/03	<10		ug/g	
			F3 (C16-C34 Hydrocarbons)	2021/05/03	<50		ug/g	
			F4 (C34-C50 Hydrocarbons)	2021/05/03	<50		ug/g	
7331287	KTR	RPD [PLN581-01]	F2 (C10-C16 Hydrocarbons)	2021/05/04	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2021/05/04	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2021/05/04	NC		%	30
7331295	RAJ	Matrix Spike [PLN581-01]	D10-Anthracene	2021/05/04		91	%	50 - 130
			D14-Terphenyl (FS)	2021/05/04		103	%	50 - 130
			D8-Acenaphthylene	2021/05/04		82	%	50 - 130
			Acenaphthene	2021/05/04		89	%	50 - 130
			Acenaphthylene	2021/05/04		80	%	50 - 130
			Anthracene	2021/05/04		90	%	50 - 130
			Benzo(a)anthracene	2021/05/04		95	%	50 - 130
			Benzo(a)pyrene	2021/05/04		84	%	50 - 130
			Benzo(b/j)fluoranthene	2021/05/04		98	%	50 - 130
			Benzo(g,h,i)perylene	2021/05/04		94	%	50 - 130
			Benzo(k)fluoranthene	2021/05/04		102	%	50 - 130
			Chrysene	2021/05/04		99	%	50 - 130
			Dibenzo(a,h)anthracene	2021/05/04		94	%	50 - 130
			Fluoranthene	2021/05/04		109	%	50 - 130
			Fluorene	2021/05/04		93	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/05/04		95	%	50 - 130
			1-Methylnaphthalene	2021/05/04		120	%	50 - 130
			2-Methylnaphthalene	2021/05/04		151 (1)	%	50 - 130
			Naphthalene	2021/05/04		118	%	50 - 130
			Phenanthrene	2021/05/04		96	%	50 - 130
			Pyrene	2021/05/04		110	%	50 - 130
7331295	RAJ	Spiked Blank	D10-Anthracene	2021/05/04		91	%	50 - 130
			D14-Terphenyl (FS)	2021/05/04		101	%	50 - 130
			D8-Acenaphthylene	2021/05/04		83	%	50 - 130
			Acenaphthene	2021/05/04		93	%	50 - 130
			Acenaphthylene	2021/05/04		84	%	50 - 130
			Anthracene	2021/05/04		93	%	50 - 130
			Benzo(a)anthracene	2021/05/04		97	%	50 - 130
			Benzo(a)pyrene	2021/05/04		88	%	50 - 130
			Benzo(b/j)fluoranthene	2021/05/04		102	%	50 - 130
			Benzo(g,h,i)perylene	2021/05/04		97	%	50 - 130
			Benzo(k)fluoranthene	2021/05/04		109	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Chrysene	2021/05/04		100	%	50 - 130
			Dibenzo(a,h)anthracene	2021/05/04		93	%	50 - 130
			Fluoranthene	2021/05/04		111	%	50 - 130
			Fluorene	2021/05/04		94	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/05/04		101	%	50 - 130
			1-Methylnaphthalene	2021/05/04		109	%	50 - 130
			2-Methylnaphthalene	2021/05/04		107	%	50 - 130
			Naphthalene	2021/05/04		92	%	50 - 130
			Phenanthrene	2021/05/04		96	%	50 - 130
			Pyrene	2021/05/04		110	%	50 - 130
7331295	RAJ	Method Blank	D10-Anthracene	2021/05/04		92	%	50 - 130
			D14-Terphenyl (FS)	2021/05/04		100	%	50 - 130
			D8-Acenaphthylene	2021/05/04		82	%	50 - 130
			Acenaphthene	2021/05/04	<0.0050		ug/g	
			Acenaphthylene	2021/05/04	<0.0050		ug/g	
			Anthracene	2021/05/04	<0.0050		ug/g	
			Benzo(a)anthracene	2021/05/04	<0.0050		ug/g	
			Benzo(a)pyrene	2021/05/04	<0.0050		ug/g	
			Benzo(b/j)fluoranthene	2021/05/04	<0.0050		ug/g	
			Benzo(g,h,i)perylene	2021/05/04	<0.0050		ug/g	
			Benzo(k)fluoranthene	2021/05/04	<0.0050		ug/g	
			Chrysene	2021/05/04	<0.0050		ug/g	
			Dibenzo(a,h)anthracene	2021/05/04	<0.0050		ug/g	
			Fluoranthene	2021/05/04	<0.0050		ug/g	
			Fluorene	2021/05/04	<0.0050		ug/g	
			Indeno(1,2,3-cd)pyrene	2021/05/04	<0.0050		ug/g	
			1-Methylnaphthalene	2021/05/04	<0.0050		ug/g	
			2-Methylnaphthalene	2021/05/04	<0.0050		ug/g	
			Naphthalene	2021/05/04	<0.0050		ug/g	
			Phenanthrene	2021/05/04	<0.0050		ug/g	
			Pyrene	2021/05/04	<0.0050		ug/g	
7331295	RAJ	RPD [PLN581-01]	Acenaphthene	2021/05/04	NC		%	40
			Acenaphthylene	2021/05/04	NC		%	40
			Anthracene	2021/05/04	NC		%	40
			Benzo(a)anthracene	2021/05/04	NC		%	40
			Benzo(a)pyrene	2021/05/04	NC		%	40
			Benzo(b/j)fluoranthene	2021/05/04	NC		%	40
			Benzo(g,h,i)perylene	2021/05/04	NC		%	40
			Benzo(k)fluoranthene	2021/05/04	NC		%	40
			Chrysene	2021/05/04	NC		%	40
			Dibenzo(a,h)anthracene	2021/05/04	NC		%	40
			Fluoranthene	2021/05/04	NC		%	40
			Fluorene	2021/05/04	NC		%	40
			Indeno(1,2,3-cd)pyrene	2021/05/04	NC		%	40
			1-Methylnaphthalene	2021/05/04	32		%	40
			2-Methylnaphthalene	2021/05/04	37		%	40
			Naphthalene	2021/05/04	22		%	40
			Phenanthrene	2021/05/04	4.9		%	40
			Pyrene	2021/05/04	NC		%	40
7331308	RAJ	Matrix Spike	D10-Anthracene	2021/05/04		86	%	50 - 130
			D14-Terphenyl (FS)	2021/05/04		88	%	50 - 130
			D8-Acenaphthylene	2021/05/04		86	%	50 - 130
			Acenaphthene	2021/05/04		89	%	50 - 130
			Acenaphthylene	2021/05/04		88	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Anthracene	2021/05/04		90	%	50 - 130
			Benzo(a)anthracene	2021/05/04		94	%	50 - 130
			Benzo(a)pyrene	2021/05/04		83	%	50 - 130
			Benzo(b/j)fluoranthene	2021/05/04		101	%	50 - 130
			Benzo(g,h,i)perylene	2021/05/04		90	%	50 - 130
			Benzo(k)fluoranthene	2021/05/04		80	%	50 - 130
			Chrysene	2021/05/04		102	%	50 - 130
			Dibenzo(a,h)anthracene	2021/05/04		93	%	50 - 130
			Fluoranthene	2021/05/04		98	%	50 - 130
			Fluorene	2021/05/04		94	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/05/04		93	%	50 - 130
			1-Methylnaphthalene	2021/05/04		91	%	50 - 130
			2-Methylnaphthalene	2021/05/04		83	%	50 - 130
			Naphthalene	2021/05/04		78	%	50 - 130
			Phenanthrene	2021/05/04		94	%	50 - 130
			Pyrene	2021/05/04		99	%	50 - 130
7331308	RAJ	Spiked Blank	D10-Anthracene	2021/05/04		91	%	50 - 130
			D14-Terphenyl (FS)	2021/05/04		91	%	50 - 130
			D8-Acenaphthylene	2021/05/04		90	%	50 - 130
			Acenaphthene	2021/05/04		89	%	50 - 130
			Acenaphthylene	2021/05/04		89	%	50 - 130
			Anthracene	2021/05/04		92	%	50 - 130
			Benzo(a)anthracene	2021/05/04		96	%	50 - 130
			Benzo(a)pyrene	2021/05/04		86	%	50 - 130
			Benzo(b/j)fluoranthene	2021/05/04		100	%	50 - 130
			Benzo(g,h,i)perylene	2021/05/04		97	%	50 - 130
			Benzo(k)fluoranthene	2021/05/04		91	%	50 - 130
			Chrysene	2021/05/04		102	%	50 - 130
			Dibenzo(a,h)anthracene	2021/05/04		97	%	50 - 130
			Fluoranthene	2021/05/04		101	%	50 - 130
			Fluorene	2021/05/04		93	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/05/04		99	%	50 - 130
			1-Methylnaphthalene	2021/05/04		95	%	50 - 130
			2-Methylnaphthalene	2021/05/04		92	%	50 - 130
			Naphthalene	2021/05/04		86	%	50 - 130
			Phenanthrene	2021/05/04		97	%	50 - 130
			Pyrene	2021/05/04		101	%	50 - 130
7331308	RAJ	Method Blank	D10-Anthracene	2021/05/04		87	%	50 - 130
			D14-Terphenyl (FS)	2021/05/04		86	%	50 - 130
			D8-Acenaphthylene	2021/05/04		86	%	50 - 130
			Acenaphthene	2021/05/04	<0.0050		ug/g	
			Acenaphthylene	2021/05/04	<0.0050		ug/g	
			Anthracene	2021/05/04	<0.0050		ug/g	
			Benzo(a)anthracene	2021/05/04	<0.0050		ug/g	
			Benzo(a)pyrene	2021/05/04	<0.0050		ug/g	
			Benzo(b/j)fluoranthene	2021/05/04	<0.0050		ug/g	
			Benzo(g,h,i)perylene	2021/05/04	<0.0050		ug/g	
			Benzo(k)fluoranthene	2021/05/04	<0.0050		ug/g	
			Chrysene	2021/05/04	<0.0050		ug/g	
			Dibenzo(a,h)anthracene	2021/05/04	<0.0050		ug/g	
			Fluoranthene	2021/05/04	<0.0050		ug/g	
			Fluorene	2021/05/04	<0.0050		ug/g	
			Indeno(1,2,3-cd)pyrene	2021/05/04	<0.0050		ug/g	
			1-Methylnaphthalene	2021/05/04	<0.0050		ug/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			2-Methylnaphthalene	2021/05/04	<0.0050		ug/g	
			Naphthalene	2021/05/04	<0.0050		ug/g	
			Phenanthrene	2021/05/04	<0.0050		ug/g	
			Pyrene	2021/05/04	<0.0050		ug/g	
7331308	RAJ	RPD	Acenaphthene	2021/05/04	NC		%	40
			Acenaphthylene	2021/05/04	NC		%	40
			Anthracene	2021/05/04	NC		%	40
			Benzo(a)anthracene	2021/05/04	NC		%	40
			Benzo(a)pyrene	2021/05/04	NC		%	40
			Benzo(b/j)fluoranthene	2021/05/04	NC		%	40
			Benzo(g,h,i)perylene	2021/05/04	NC		%	40
			Benzo(k)fluoranthene	2021/05/04	NC		%	40
			Chrysene	2021/05/04	NC		%	40
			Dibenzo(a,h)anthracene	2021/05/04	NC		%	40
			Fluoranthene	2021/05/04	NC		%	40
			Fluorene	2021/05/04	NC		%	40
			Indeno(1,2,3-cd)pyrene	2021/05/04	NC		%	40
			1-Methylnaphthalene	2021/05/04	NC		%	40
			2-Methylnaphthalene	2021/05/04	78 (1)		%	40
			Naphthalene	2021/05/04	NC		%	40
			Phenanthrene	2021/05/04	15		%	40
			Pyrene	2021/05/04	NC		%	40
7331865	RAJ	Matrix Spike	D10-Anthracene	2021/05/04		118	%	50 - 130
			D14-Terphenyl (FS)	2021/05/04		108	%	50 - 130
			D8-Acenaphthylene	2021/05/04		101	%	50 - 130
			Acenaphthene	2021/05/04		108	%	50 - 130
			Acenaphthylene	2021/05/04		100	%	50 - 130
			Anthracene	2021/05/04		114	%	50 - 130
			Benzo(a)anthracene	2021/05/04		114	%	50 - 130
			Benzo(a)pyrene	2021/05/04		99	%	50 - 130
			Benzo(b/j)fluoranthene	2021/05/04		116	%	50 - 130
			Benzo(g,h,i)perylene	2021/05/04		123	%	50 - 130
			Benzo(k)fluoranthene	2021/05/04		106	%	50 - 130
			Chrysene	2021/05/04		118	%	50 - 130
			Dibenzo(a,h)anthracene	2021/05/04		120	%	50 - 130
			Fluoranthene	2021/05/04		123	%	50 - 130
			Fluorene	2021/05/04		113	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/05/04		124	%	50 - 130
			1-Methylnaphthalene	2021/05/04		113	%	50 - 130
			2-Methylnaphthalene	2021/05/04		103	%	50 - 130
			Naphthalene	2021/05/04		94	%	50 - 130
			Phenanthrene	2021/05/04		113	%	50 - 130
			Pyrene	2021/05/04		121	%	50 - 130
7331865	RAJ	Spiked Blank	D10-Anthracene	2021/05/03		119	%	50 - 130
			D14-Terphenyl (FS)	2021/05/03		117	%	50 - 130
			D8-Acenaphthylene	2021/05/03		103	%	50 - 130
			Acenaphthene	2021/05/03		106	%	50 - 130
			Acenaphthylene	2021/05/03		97	%	50 - 130
			Anthracene	2021/05/03		110	%	50 - 130
			Benzo(a)anthracene	2021/05/03		111	%	50 - 130
			Benzo(a)pyrene	2021/05/03		97	%	50 - 130
			Benzo(b/j)fluoranthene	2021/05/03		115	%	50 - 130
			Benzo(g,h,i)perylene	2021/05/03		121	%	50 - 130
			Benzo(k)fluoranthene	2021/05/03		101	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Chrysene	2021/05/03		115	%	50 - 130
			Dibenzo(a,h)anthracene	2021/05/03		110	%	50 - 130
			Fluoranthene	2021/05/03		124	%	50 - 130
			Fluorene	2021/05/03		110	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/05/03		123	%	50 - 130
			1-Methylnaphthalene	2021/05/03		107	%	50 - 130
			2-Methylnaphthalene	2021/05/03		97	%	50 - 130
			Naphthalene	2021/05/03		90	%	50 - 130
			Phenanthrene	2021/05/03		110	%	50 - 130
			Pyrene	2021/05/03		123	%	50 - 130
7331865	RAJ	Method Blank	D10-Anthracene	2021/05/03		129	%	50 - 130
			D14-Terphenyl (FS)	2021/05/03		118	%	50 - 130
			D8-Acenaphthylene	2021/05/03		98	%	50 - 130
			Acenaphthene	2021/05/03	<0.0050		ug/g	
			Acenaphthylene	2021/05/03	<0.0050		ug/g	
			Anthracene	2021/05/03	<0.0050		ug/g	
			Benzo(a)anthracene	2021/05/03	<0.0050		ug/g	
			Benzo(a)pyrene	2021/05/03	<0.0050		ug/g	
			Benzo(b/j)fluoranthene	2021/05/03	<0.0050		ug/g	
			Benzo(g,h,i)perylene	2021/05/03	<0.0050		ug/g	
			Benzo(k)fluoranthene	2021/05/03	<0.0050		ug/g	
			Chrysene	2021/05/03	<0.0050		ug/g	
			Dibenzo(a,h)anthracene	2021/05/03	<0.0050		ug/g	
			Fluoranthene	2021/05/03	<0.0050		ug/g	
			Fluorene	2021/05/03	<0.0050		ug/g	
			Indeno(1,2,3-cd)pyrene	2021/05/03	<0.0050		ug/g	
			1-Methylnaphthalene	2021/05/03	<0.0050		ug/g	
			2-Methylnaphthalene	2021/05/03	<0.0050		ug/g	
			Naphthalene	2021/05/03	<0.0050		ug/g	
			Phenanthrene	2021/05/03	<0.0050		ug/g	
			Pyrene	2021/05/03	<0.0050		ug/g	
7331865	RAJ	RPD	Acenaphthene	2021/05/04	NC		%	40
			Acenaphthylene	2021/05/04	NC		%	40
			Anthracene	2021/05/04	NC		%	40
			Benzo(a)anthracene	2021/05/04	NC		%	40
			Benzo(a)pyrene	2021/05/04	NC		%	40
			Benzo(b/j)fluoranthene	2021/05/04	NC		%	40
			Benzo(g,h,i)perylene	2021/05/04	NC		%	40
			Benzo(k)fluoranthene	2021/05/04	NC		%	40
			Chrysene	2021/05/04	NC		%	40
			Dibenzo(a,h)anthracene	2021/05/04	NC		%	40
			Fluoranthene	2021/05/04	NC		%	40
			Fluorene	2021/05/04	NC		%	40
			Indeno(1,2,3-cd)pyrene	2021/05/04	NC		%	40
			1-Methylnaphthalene	2021/05/04	NC		%	40
			2-Methylnaphthalene	2021/05/04	NC		%	40
			Naphthalene	2021/05/04	NC		%	40
			Phenanthrene	2021/05/04	NC		%	40
			Pyrene	2021/05/04	NC		%	40
7332664	DAN	Matrix Spike	1,4-Difluorobenzene	2021/05/04		98	%	60 - 140
			4-Bromofluorobenzene	2021/05/04		99	%	60 - 140
			D10-o-Xylene	2021/05/04		75	%	60 - 140
			D4-1,2-Dichloroethane	2021/05/04		97	%	60 - 140
			Benzene	2021/05/04		84	%	50 - 140

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Toluene	2021/05/04		88	%	50 - 140
			Ethylbenzene	2021/05/04		94	%	50 - 140
			o-Xylene	2021/05/04		93	%	50 - 140
			p+m-Xylene	2021/05/04		100	%	50 - 140
			F1 (C6-C10)	2021/05/04		77	%	60 - 140
7332664	DAN	Spiked Blank	1,4-Difluorobenzene	2021/05/04		99	%	60 - 140
			4-Bromofluorobenzene	2021/05/04		100	%	60 - 140
			D10-o-Xylene	2021/05/04		93	%	60 - 140
			D4-1,2-Dichloroethane	2021/05/04		94	%	60 - 140
			Benzene	2021/05/04		92	%	50 - 140
			Toluene	2021/05/04		95	%	50 - 140
			Ethylbenzene	2021/05/04		101	%	50 - 140
			o-Xylene	2021/05/04		98	%	50 - 140
			p+m-Xylene	2021/05/04		107	%	50 - 140
			F1 (C6-C10)	2021/05/04		85	%	80 - 120
7332664	DAN	Method Blank	1,4-Difluorobenzene	2021/05/04		101	%	60 - 140
			4-Bromofluorobenzene	2021/05/04		97	%	60 - 140
			D10-o-Xylene	2021/05/04		81	%	60 - 140
			D4-1,2-Dichloroethane	2021/05/04		97	%	60 - 140
			Benzene	2021/05/04	<0.020		ug/g	
			Toluene	2021/05/04	<0.020		ug/g	
			Ethylbenzene	2021/05/04	<0.020		ug/g	
			o-Xylene	2021/05/04	<0.020		ug/g	
			p+m-Xylene	2021/05/04	<0.040		ug/g	
			Total Xylenes	2021/05/04	<0.040		ug/g	
			F1 (C6-C10)	2021/05/04	<10		ug/g	
			F1 (C6-C10) - BTEX	2021/05/04	<10		ug/g	
7332664	DAN	RPD	Benzene	2021/05/04	NC		%	50
			Toluene	2021/05/04	NC		%	50
			Ethylbenzene	2021/05/04	NC		%	50
			o-Xylene	2021/05/04	NC		%	50
			p+m-Xylene	2021/05/04	NC		%	50
			Total Xylenes	2021/05/04	NC		%	50
			F1 (C6-C10)	2021/05/04	NC		%	30
			F1 (C6-C10) - BTEX	2021/05/04	NC		%	30
7333129	KLI	Matrix Spike	o-Terphenyl	2021/05/05		93	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/05/05		103	%	50 - 130
			F3 (C16-C34 Hydrocarbons)	2021/05/05		104	%	50 - 130
			F4 (C34-C50 Hydrocarbons)	2021/05/05		100	%	50 - 130
7333129	KLI	Spiked Blank	o-Terphenyl	2021/05/05		87	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/05/05		96	%	80 - 120
			F3 (C16-C34 Hydrocarbons)	2021/05/05		95	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2021/05/05		91	%	80 - 120
7333129	KLI	Method Blank	o-Terphenyl	2021/05/05		90	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/05/05	<10		ug/g	
			F3 (C16-C34 Hydrocarbons)	2021/05/05	<50		ug/g	
			F4 (C34-C50 Hydrocarbons)	2021/05/05	<50		ug/g	
7333129	KLI	RPD	F2 (C10-C16 Hydrocarbons)	2021/05/05	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2021/05/05	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2021/05/05	NC		%	30
7334676	YPA	Spiked Blank	Available (CaCl2) pH	2021/05/05		101	%	97 - 103
7334676	YPA	RPD	Available (CaCl2) pH	2021/05/05	1.4		%	N/A
7336989	RDU	Matrix Spike [PLN559-01]	F4G-sg (Grav. Heavy Hydrocarbons)	2021/05/06		98	%	65 - 135
7336989	RDU	Spiked Blank	F4G-sg (Grav. Heavy Hydrocarbons)	2021/05/06		102	%	65 - 135

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7336989	RDU	Method Blank	F4G-sg (Grav. Heavy Hydrocarbons)	2021/05/06	<100		ug/g	
7336989	RDU	RPD [PLN577-01]	F4G-sg (Grav. Heavy Hydrocarbons)	2021/05/06	5.7		%	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.

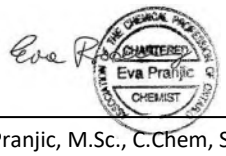
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

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 <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



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

BV Labs 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 Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvlabs.com

Page 1 of 3

29-Apr-21 12:45
Antonella Brasil
C1B6083

ATM ENV-766

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		
Company Name:	#982 Pinchin Ltd	Company Name:		Quotation #:	A70927	Bottle Order #: 823853
Attention:	Accounts Payable	Attention:	Matt, Ryan, Mike	P.O. #:		
Address:	1 Hines Road Suite 200 Kanata ON K2K 3C7	Address:		Project:	285722-003	COC #: C#823853-01-01
Tel:	(613) 592-3387 Fax: (613) 592-5897	Tel:	Fax:	Project Name:		Project Manager: Antonella Brasil
Email:	ap@pinchin.com	Email:	mkosiw@Pinchin.com, rlaronde@pinchin.com; mryan@	Site #:		
				Sampled By:	MKosiw	

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☒ Res/Park ☑ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ____

Field Filtered (please circle): Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

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 Dioxins/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 #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	O. Reg 153 VOCs by HS (Water) 5 ea	Petroleum Hydrocarbons F2-F4 in Water	O. Reg 153 Metals Package (Water) ICPMS	PAHs	pH	Texture	BTEX	# of Bottles	Comments
1		BH101 SS-2	April 26 2021	AM	SOIL		X	X	X			X	2	
2		BH101 SS-6					X		X				2	
3		BH102 SS-2					X	X	X			X	2	
4		BH102 SS-6					X		X				2	
5		BH103 SS-2					X	X	X	X	X	X	2	
6		BH103 SS-7					X		X	X	X		2	RECEIVED IN OTTAWA
7		BH104 SS-4					X	X	X			X	2	
8		BH104 SS-7					X		X				2	
9		BH105 SS-2		PM			X	X	X	X	X	X	2	Melted Ice
10		BH105 SS-7					X		X	X	X		2	ON Ice packs

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Mike Kosiw	April 29 2021	9:00 AM	[illegible]	2021/04/29	12:45	
			[illegible]	2021/04/30	08:00	

Laboratory Use Only
Time Sensitive
Temperature (°C) on Recei: 4 | 4 | 5
Custody Seal Present: Yes ☑ / No
Intact: Yes ☑ / No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

GJ, 3 on Ice

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

White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvlabs.com

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#982 Pinchin Ltd	Company Name:		Quotation #:	A70927	BV Labs Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Matt, Ryan, Mike	P.O. #:			823853
Address:	1 Hines Road Suite 200	Address:		Project:	28722.003	COC #:	Project Manager:
	Kanata ON K2K 3C7			Project Name:		C#823853-02-01	Antonella Brasil
Tel:	(613) 592-3387 Fax: (613) 592-5897	Tel:	Fax:	Site #:			
Email:	ap@pinchin.com	Email:	mkosiw@Pinchin.com, rlaronde@pinchin.com; mryan@	Sampled By:	M Kosiw		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558. ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Field Filtered (please circle): Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

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 Dioxins/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 #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	O.Reg 153 VOCs by HS (Water)	Petroleum Hydrocarbons F2-F4 in Water	O.Reg 153 Metals Package (Water)	PAHs	BTEX	pH	Texture	# of Bottles	Comments
1		BH106 SS-4	April 26	PM	SOIL		X	X	X	X			2	
2		BH106 SS-8					X		X				2	
3		BH107 SS-3					X	X	X	X			2	
4		DUP-1					X	X	X	X			2	
5		BH107 SS-7					X		X				2	
6		BHMW108 SS-2						X	X		X	X	1	RECEIVED IN OTTAWA
7		BHMW103 SS-8				X	X		X				2	
8		BHMW109 SS-7	April 27	AM		X	X		X		X	X	2	
9		BHMW110 SS-7				X	X		X				2	
10		DUP-2				X	X		X				2	see p. 1

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: Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	April 29, 2024	9:15 AM	See page 1						Present		
									Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

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

White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvlabs.com

CHAIN OF CUSTODY RECORD

INVOICE TO:
Company Name: #982 Pinchin Ltd
Attention: Accounts Payable
Address: 1 Hines Road Suite 200, Kanata ON K2K 3C7
Tel: (613) 592-3387 Fax: (613) 592-5897
Email: ap@pinchin.com

REPORT TO:
Company Name:
Attention: Matt, Ryan, Mike
Address:
Tel: Fax:
Email: mkosiw@Pinchin.com, rlaronde@pinchin.com; mryan@

PROJECT INFORMATION:
Quotation #: A70927
P.O. #:
Project: 285722.003
Project Name:
Site #:
Sampled By: M Kosiw

Laboratory Use Only:
BV Labs Job #:
Bottle Order #: 823853
COC #: C#823853-03-01
Project Manager: Antonella Brasil

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions:

Include Criteria on Certificate of Analysis (Y/N)?

Turnaround Time (TAT) Required:
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Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/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 #)*

	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 (Water)	Petroleum Hydrocarbons F2-F4 in Water	O.Reg 153 Metals Package (Water) ICPMS	PAHs	BTEX	pH	Texture	# of Bottles	Comments
1		BHMW111 SS-6	April 27	PM	SOIL		X	X		X				2	
2		BHMW12 SS-3	↓	↓	↓				X	X		X	X	2	
3		BHMW12 SS-7	↓	↓	↓		X	X		X		X	X	2	
4		BHMW13 SS-3	April 28	↓	↓		X	X				X	X	2	
5		BH113 SS-7	↓	↓	↓		X	X	X	X		X	X	2	RECEIVED IN OTTAWA
6		BHMW15 SS-3	↓	↓	↓		X	X						2	
7		BHMW15 SS-7	↓	↓	↓		X	X	X	X				2	
8															
9															
10															See P1

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Mike Ronan	April 29 2021	9:30	SGS PAGE 1			

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
		Present		
		Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/TERMS-AND-CONDITIONS.

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

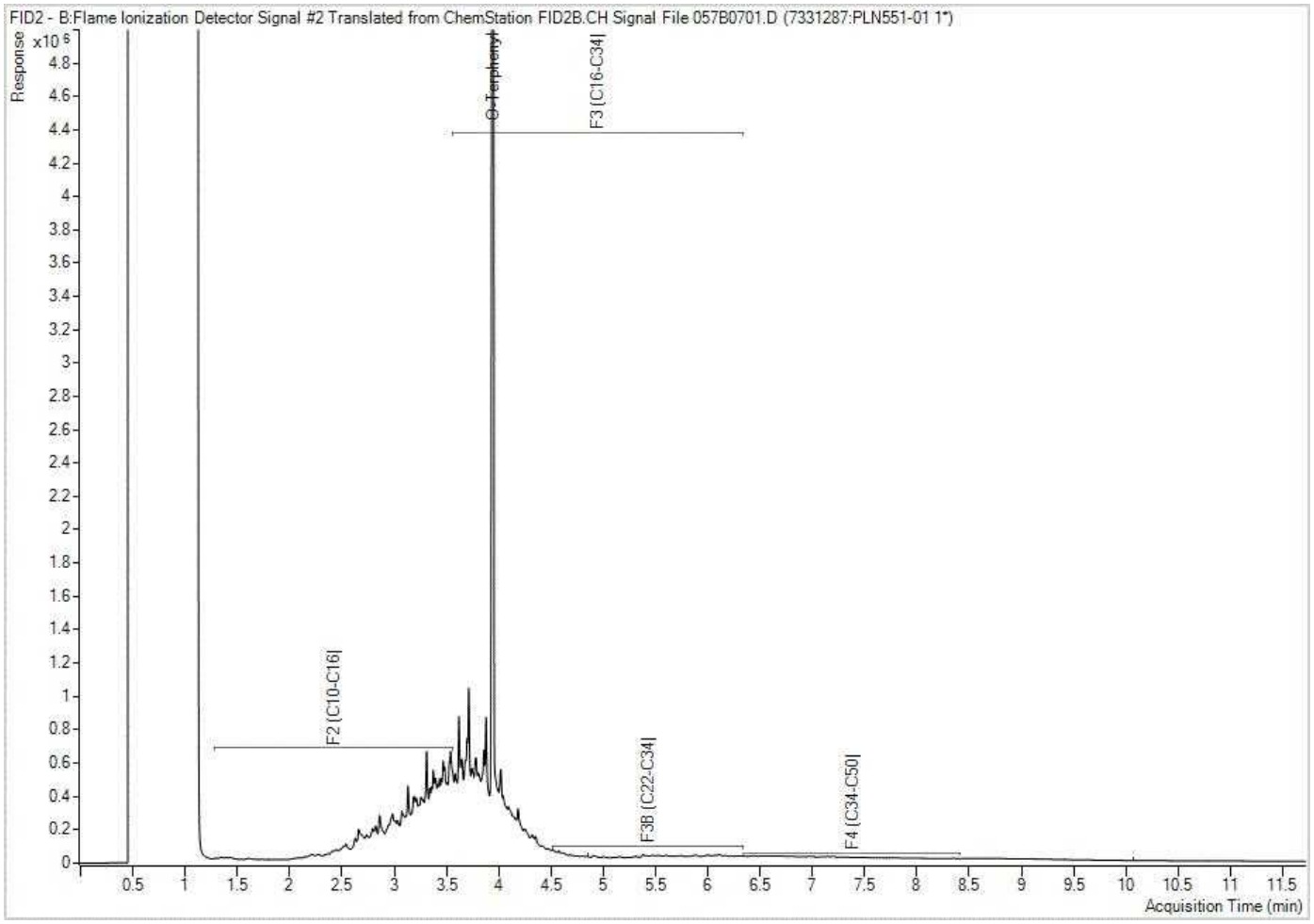
White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

BV Labs Job #: C1B6083
Report Date: 2021/05/06
BV Labs Sample: PLN551

Pinchin Ltd
Client Project #: 285722.003
Client ID: BH101 SS-2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

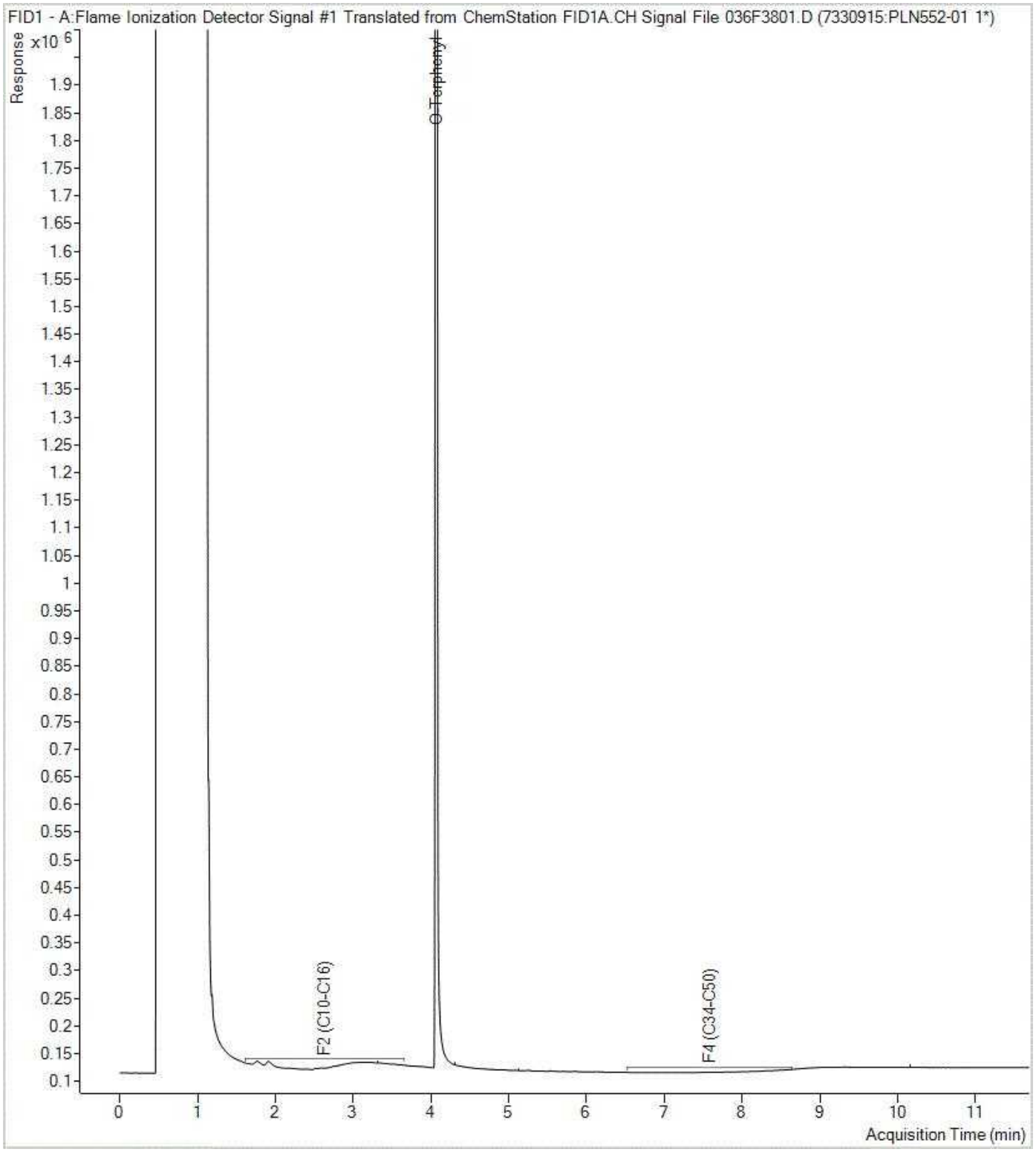


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B6083
Report Date: 2021/05/06
BV Labs Sample: PLN552

Pinchin Ltd
Client Project #: 285722.003
Client ID: BH101 SS-6

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

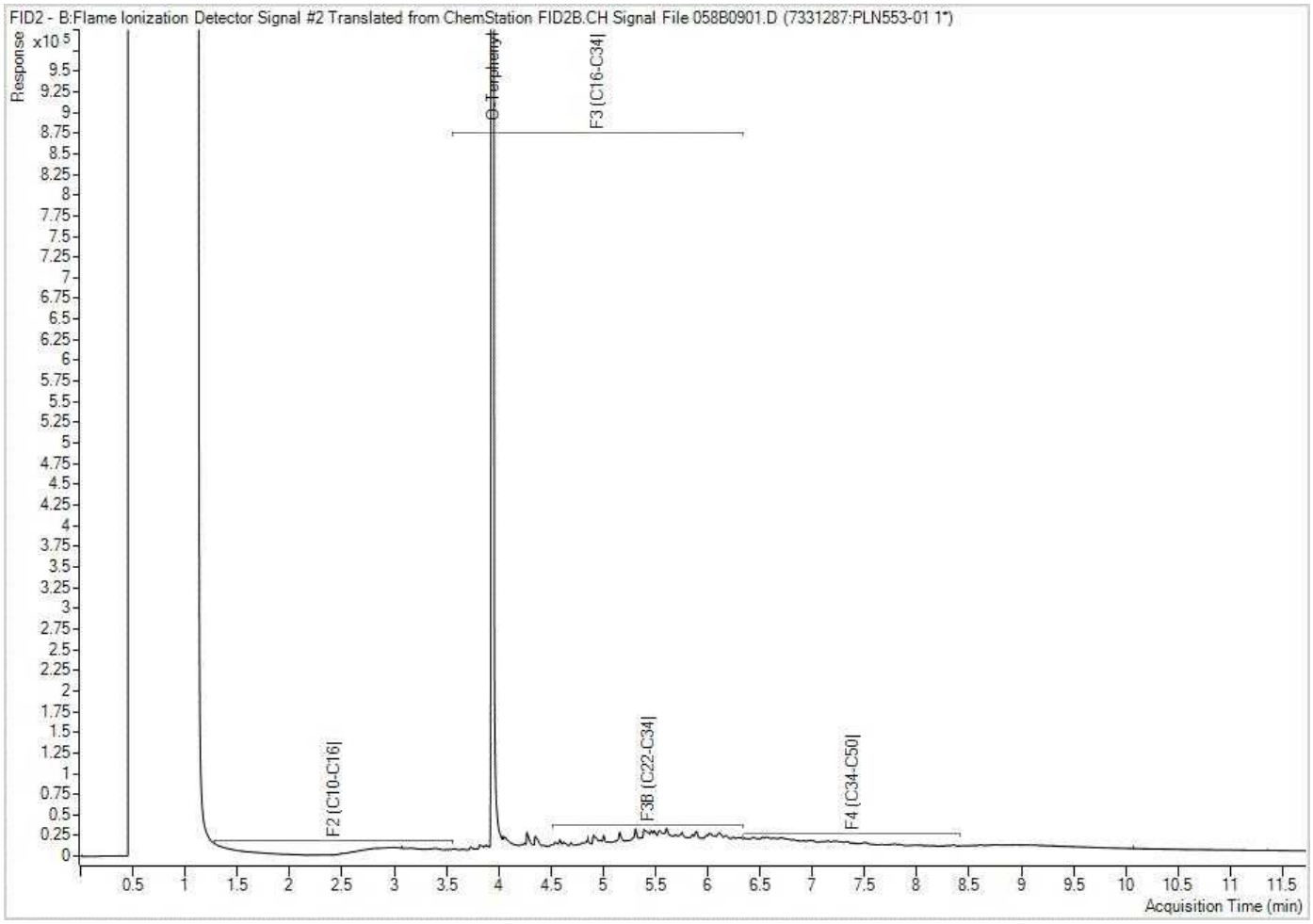


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B6083
Report Date: 2021/05/06
BV Labs Sample: PLN553

Pinchin Ltd
Client Project #: 285722.003
Client ID: BH102 SS-2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

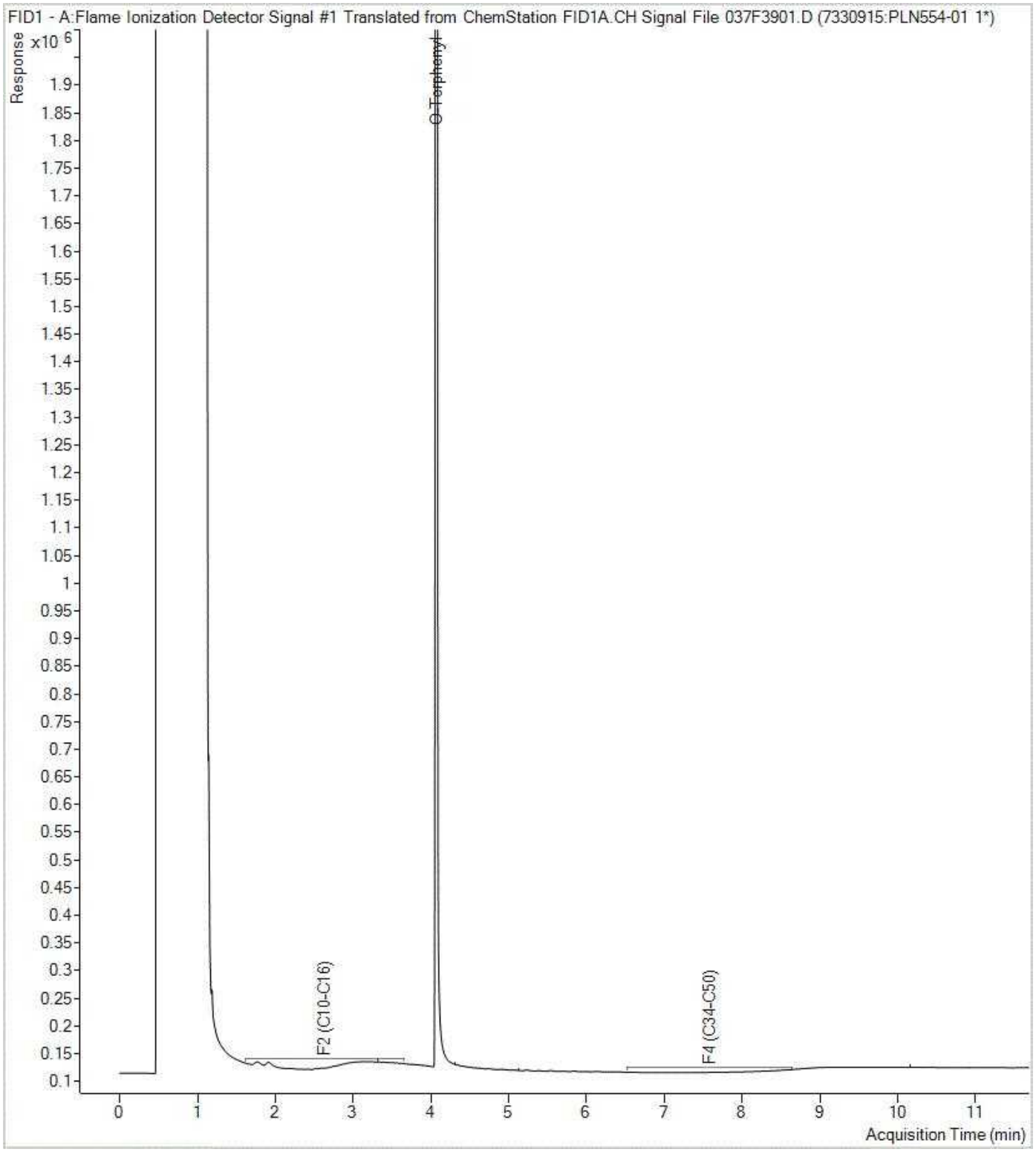


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B6083
Report Date: 2021/05/06
BV Labs Sample: PLN554

Pinchin Ltd
Client Project #: 285722.003
Client ID: BH102 SS-6

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

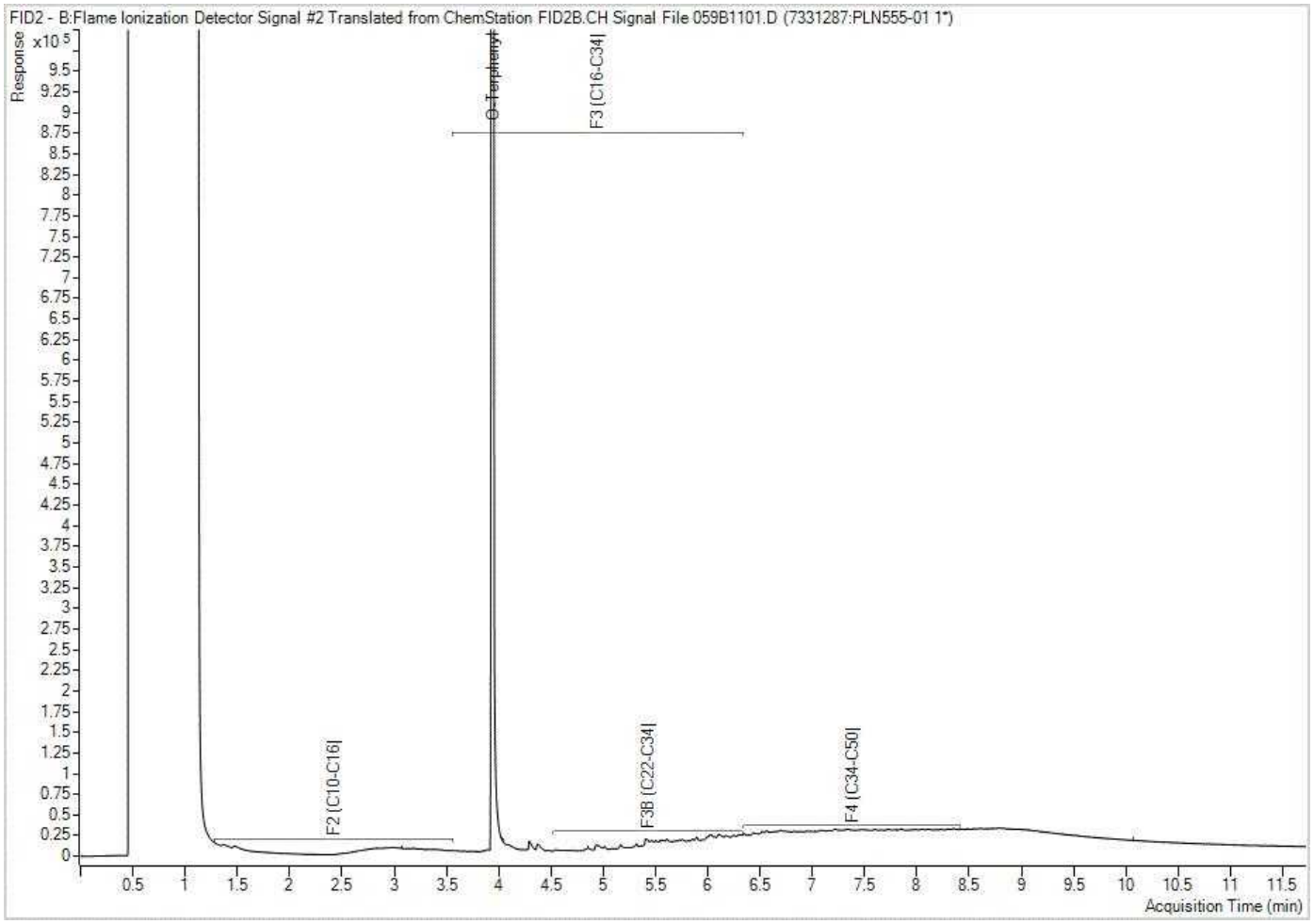


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B6083
Report Date: 2021/05/06
BV Labs Sample: PLN555

Pinchin Ltd
Client Project #: 285722.003
Client ID: BH103 SS-2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

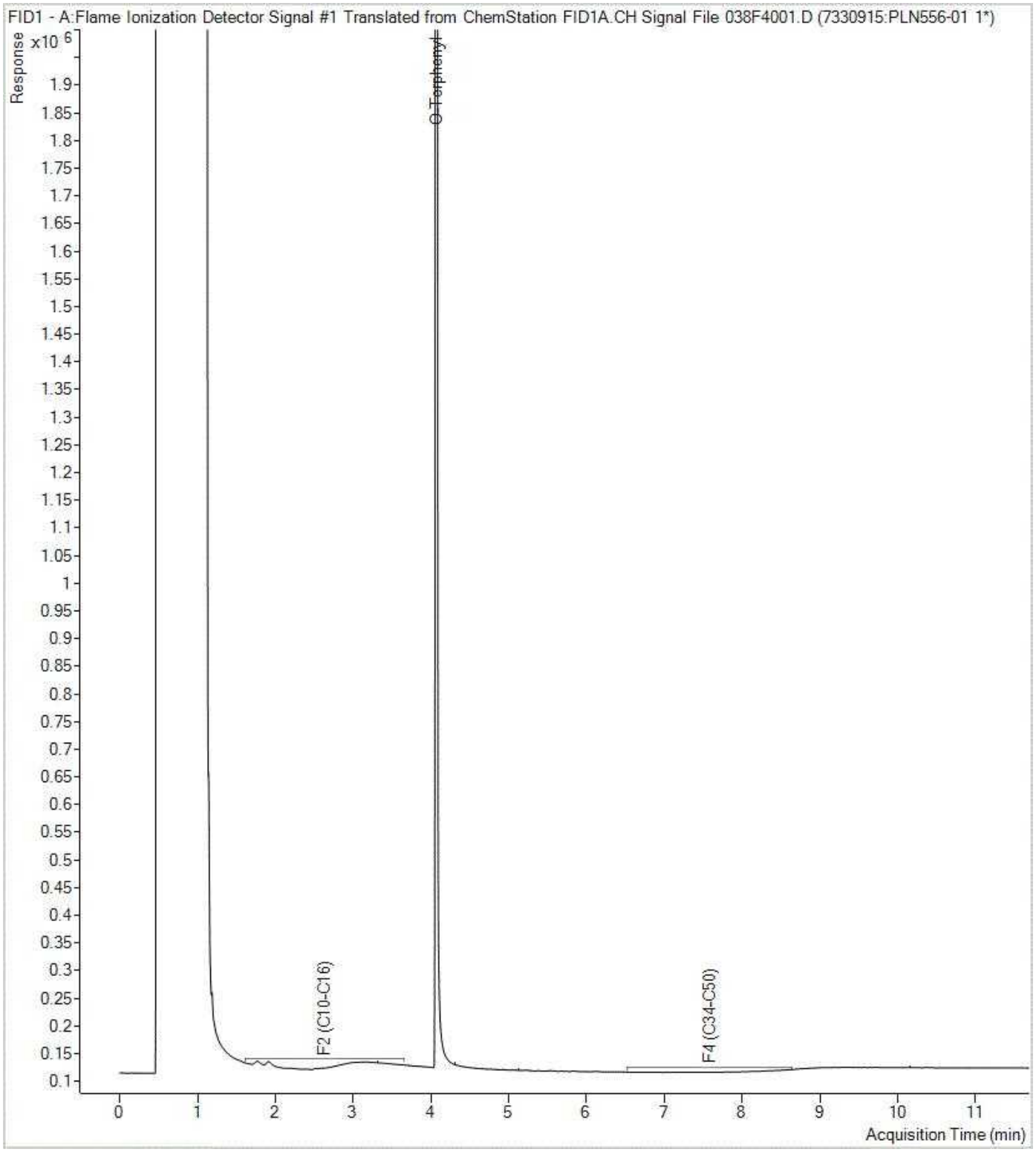


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B6083
Report Date: 2021/05/06
BV Labs Sample: PLN556

Pinchin Ltd
Client Project #: 285722.003
Client ID: BH103 SS-7

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

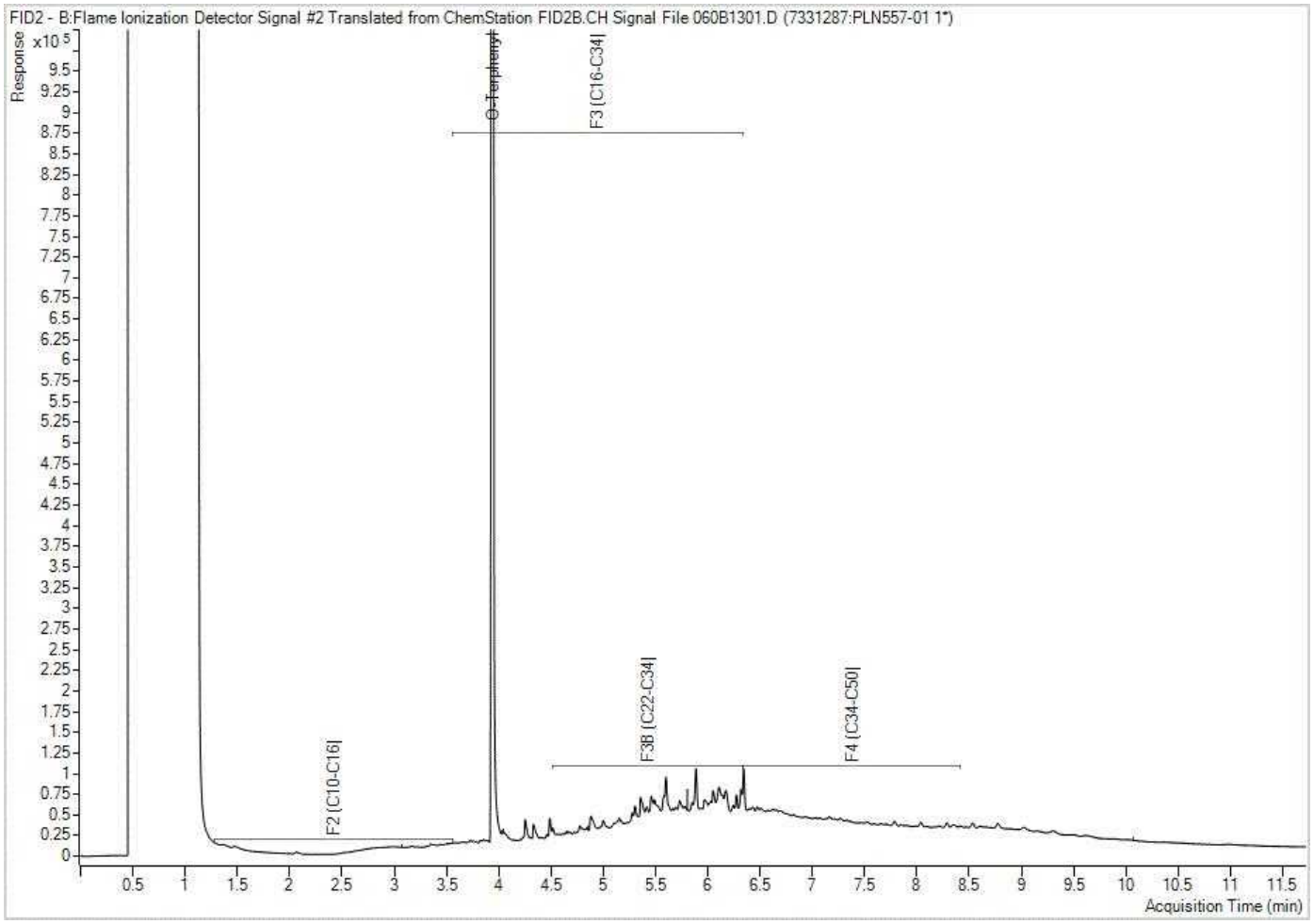


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B6083
Report Date: 2021/05/06
BV Labs Sample: PLN557

Pinchin Ltd
Client Project #: 285722.003
Client ID: BH104 SS-4

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

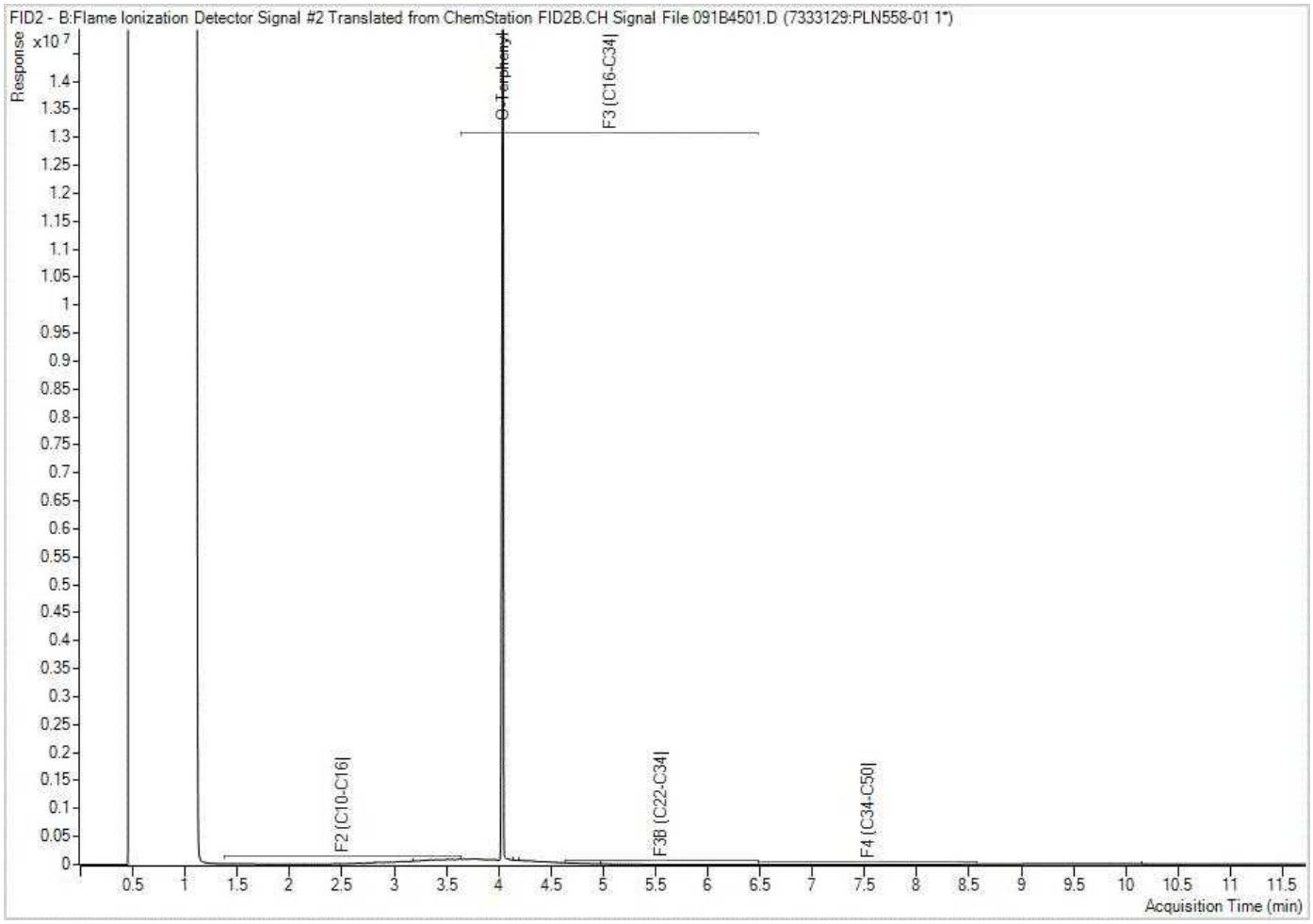


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B6083
Report Date: 2021/05/06
BV Labs Sample: PLN558

Pinchin Ltd
Client Project #: 285722.003
Client ID: BH104 SS-7

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

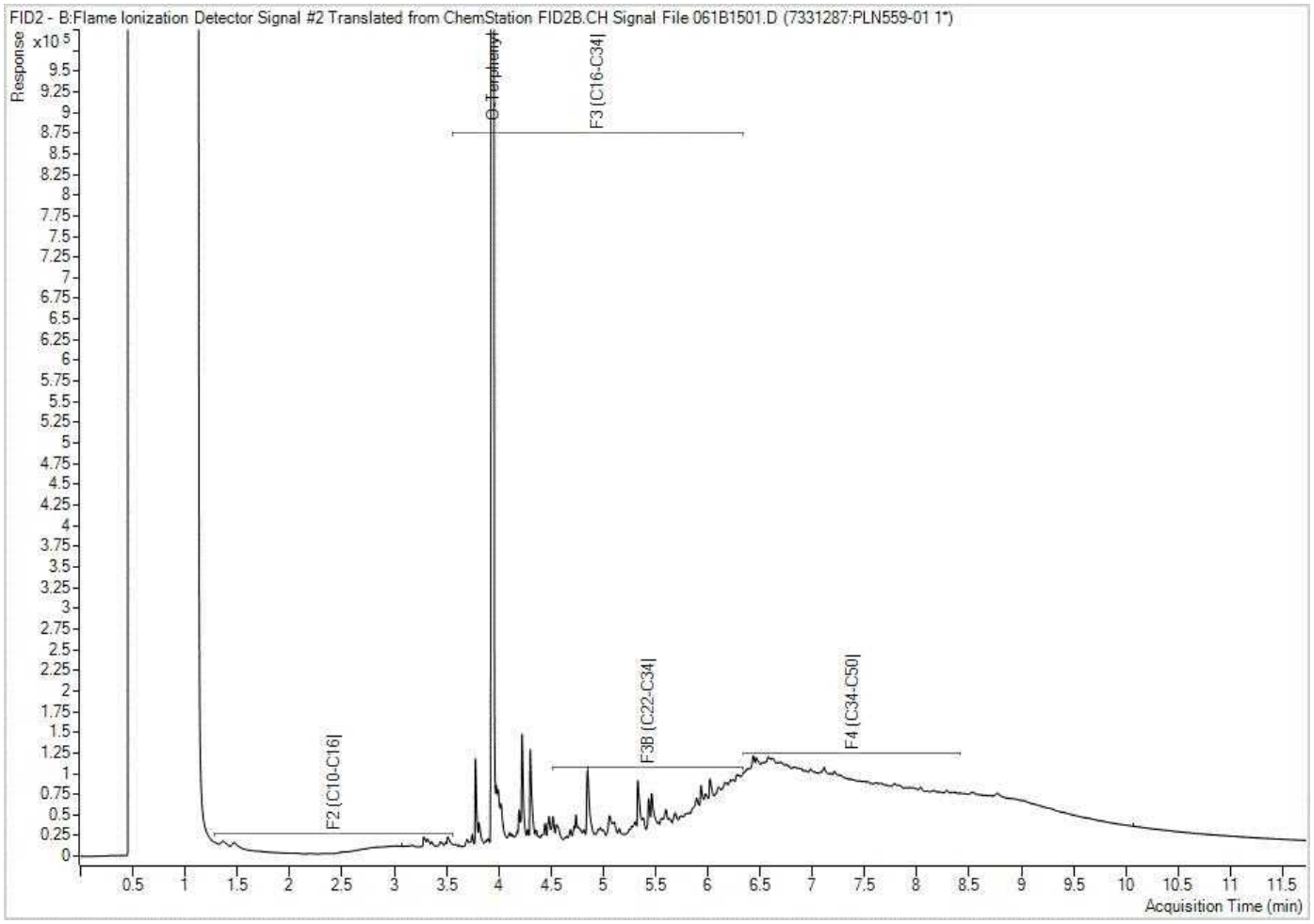


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B6083
Report Date: 2021/05/06
BV Labs Sample: PLN559

Pinchin Ltd
Client Project #: 285722.003
Client ID: BH105 SS-2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

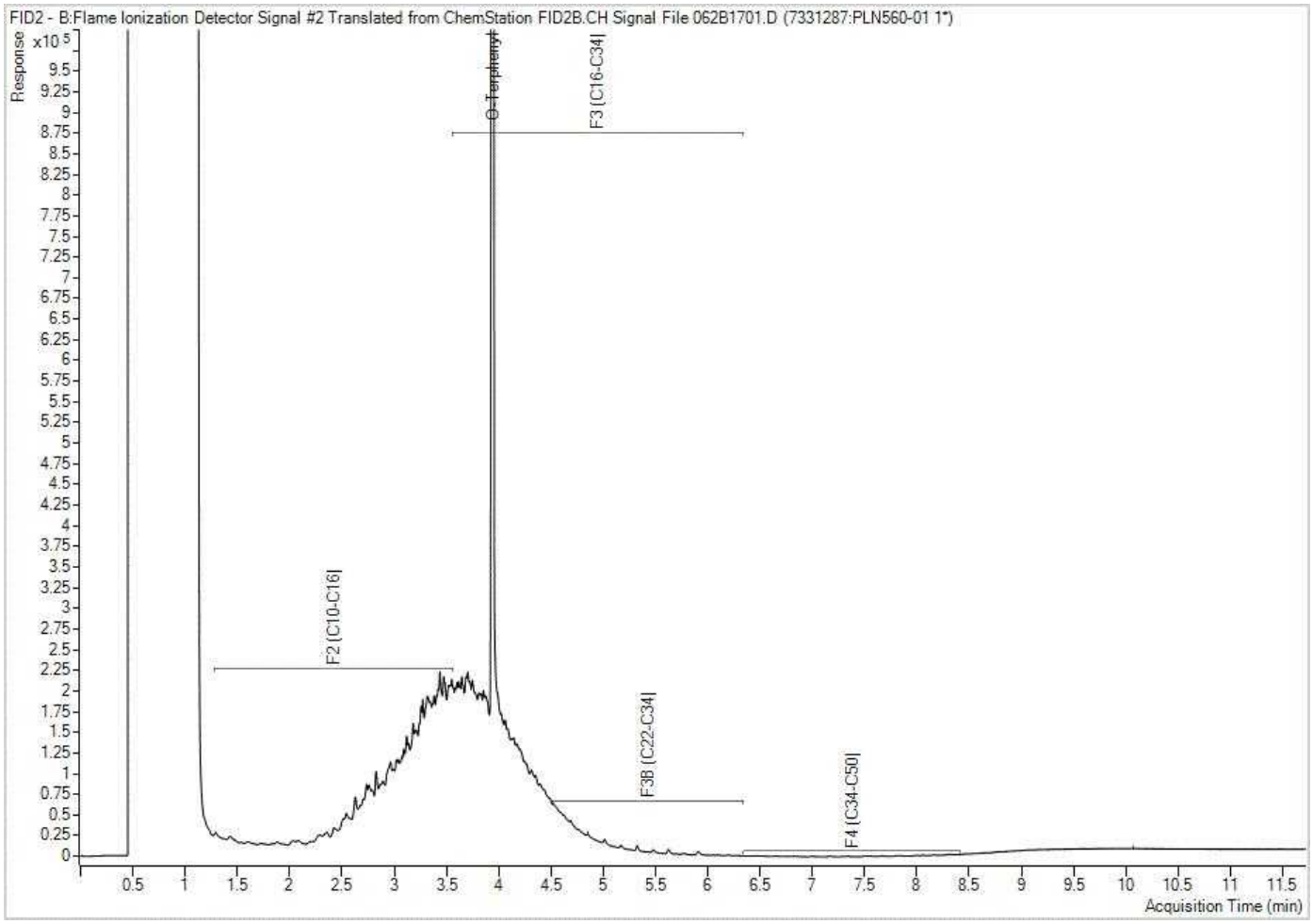


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B6083
Report Date: 2021/05/06
BV Labs Sample: PLN560

Pinchin Ltd
Client Project #: 285722.003
Client ID: BH105 SS-7

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

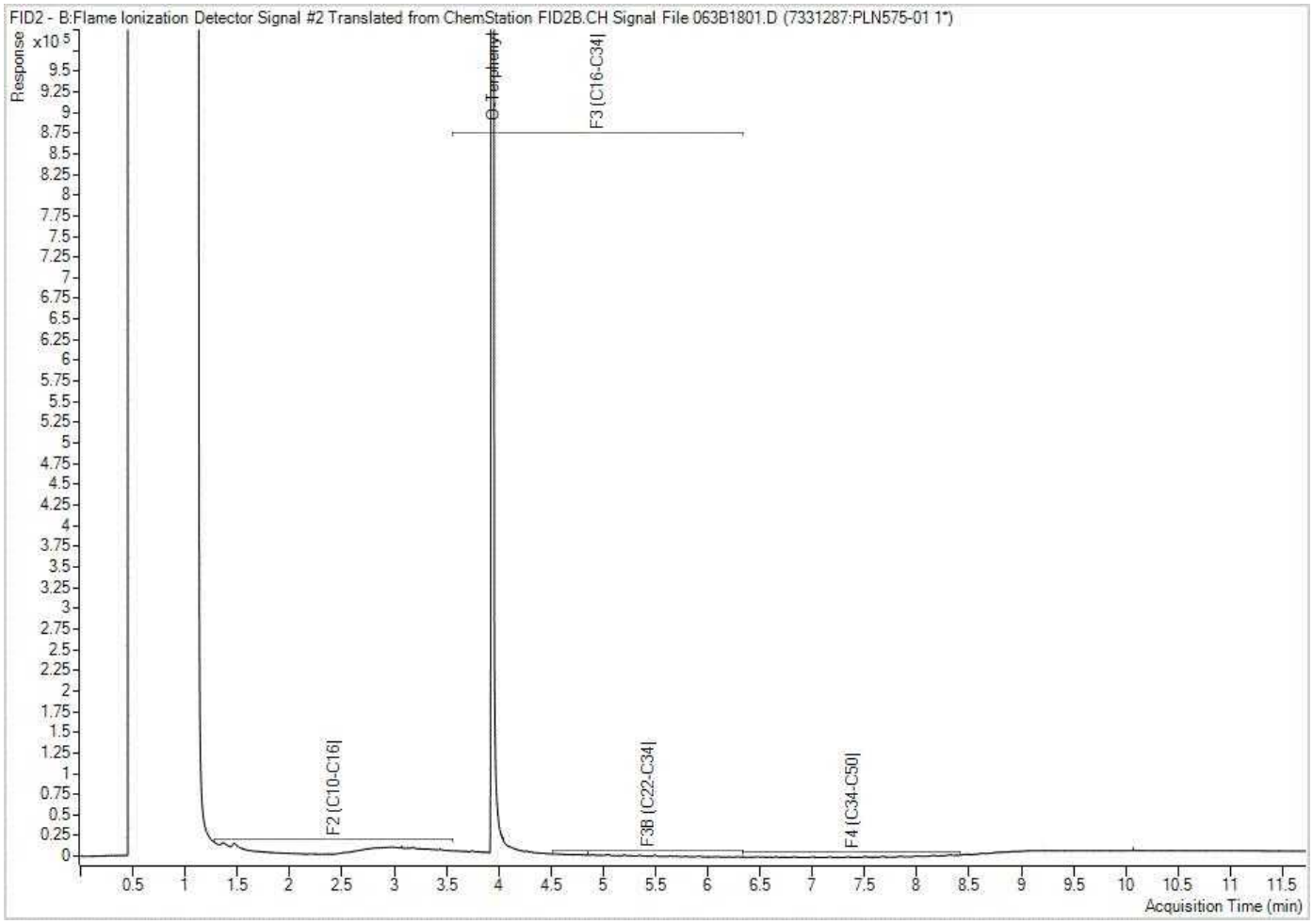


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B6083
Report Date: 2021/05/06
BV Labs Sample: PLN575

Pinchin Ltd
Client Project #: 285722.003
Client ID: BH106 SS-4

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

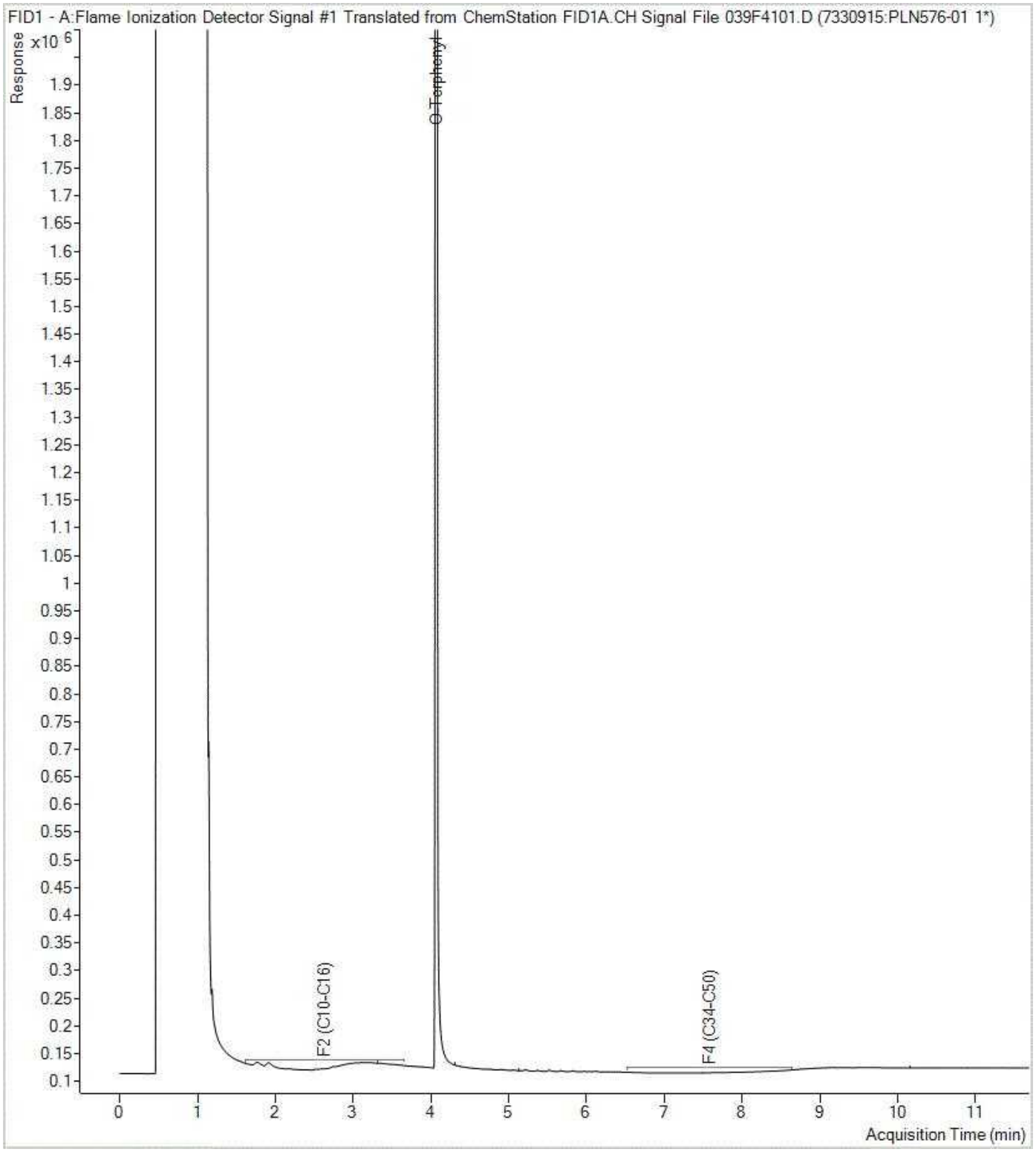


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B6083
Report Date: 2021/05/06
BV Labs Sample: PLN576

Pinchin Ltd
Client Project #: 285722.003
Client ID: BH106 SS-8

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



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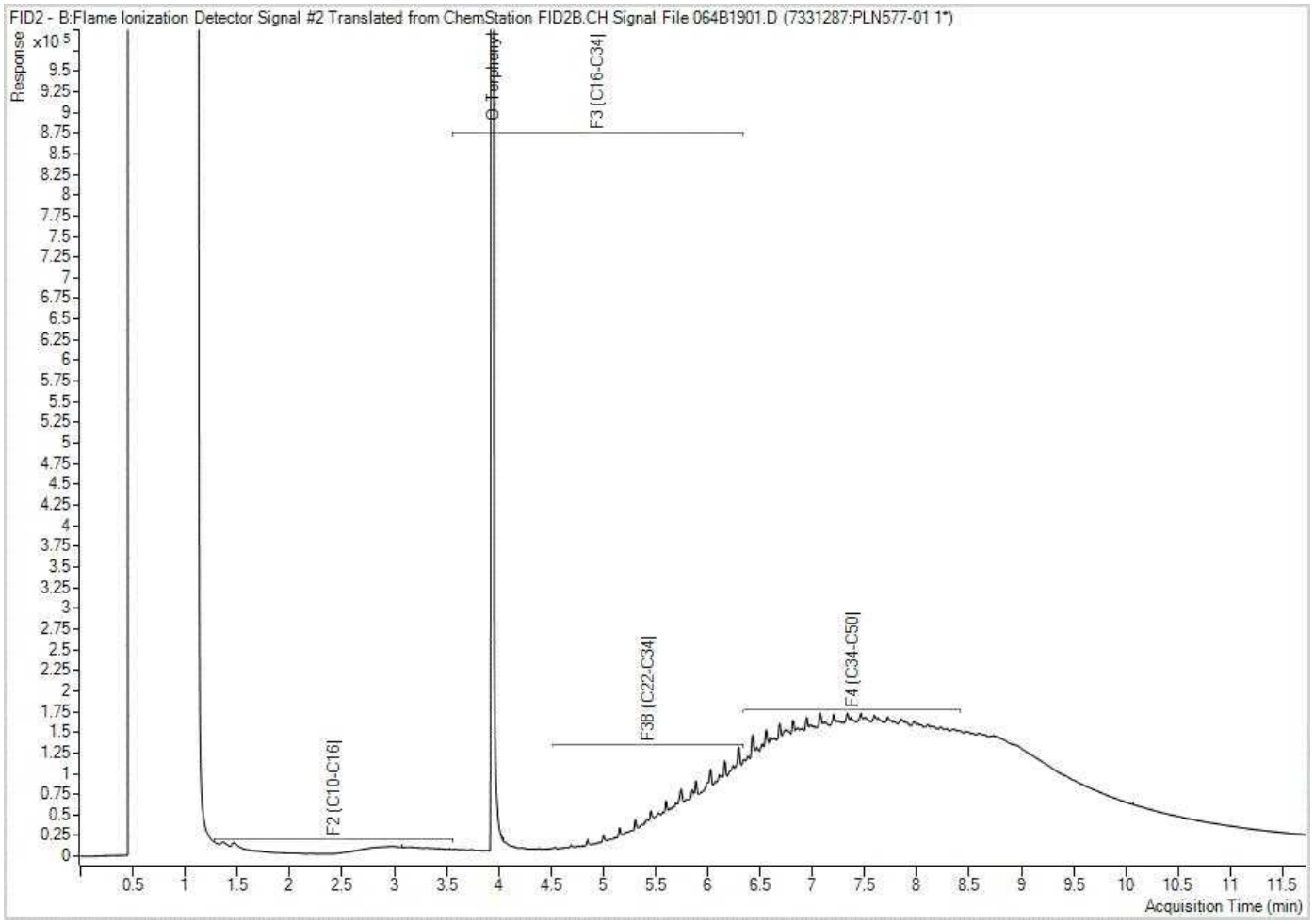
BV Labs Job #: C1B6083
Report Date: 2021/05/06
BV Labs Sample: PLN577

Pinchin Ltd
Client Project #: 285722.003
Client ID: BH107 SS-3

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

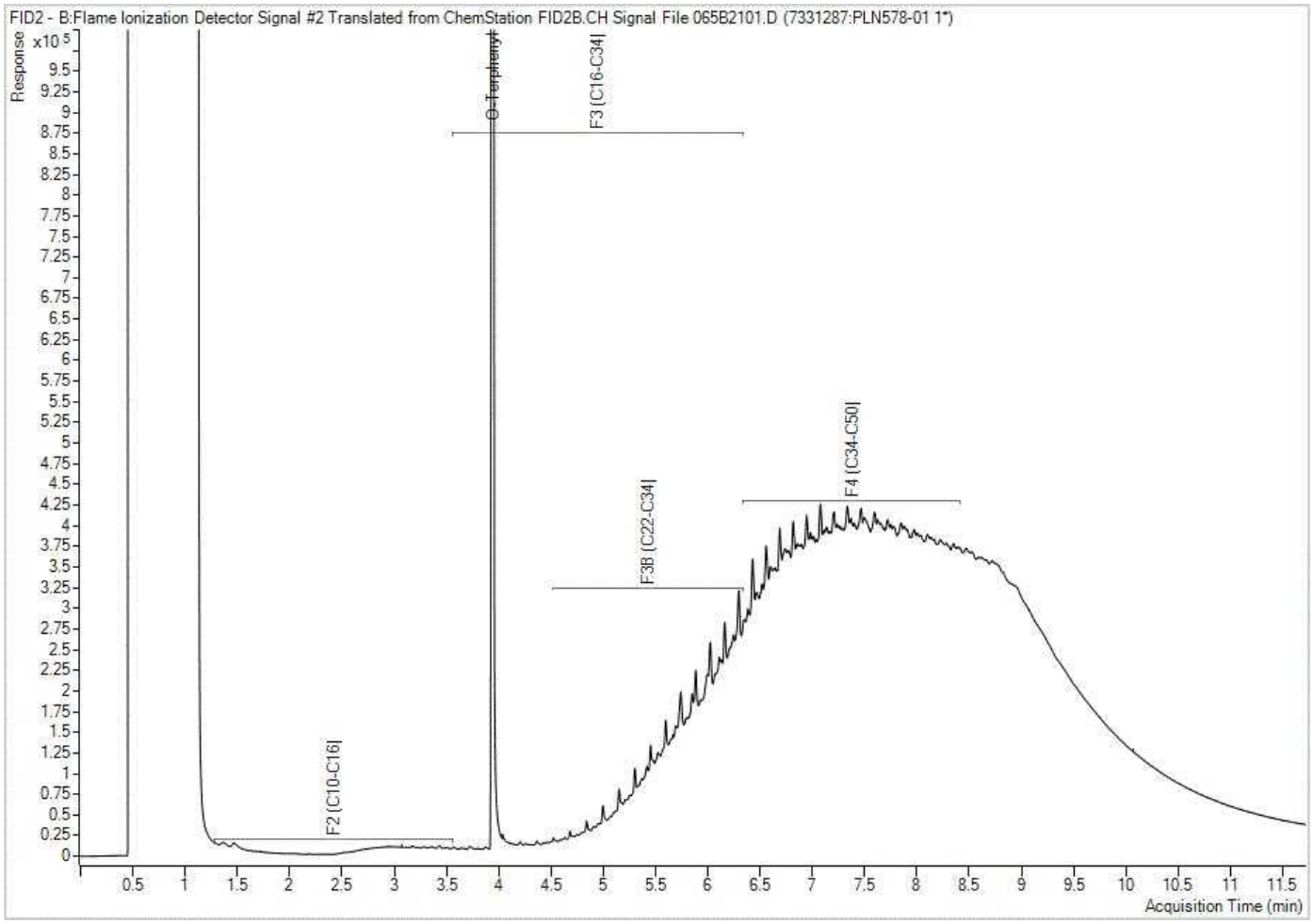


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B6083
Report Date: 2021/05/06
BV Labs Sample: PLN578

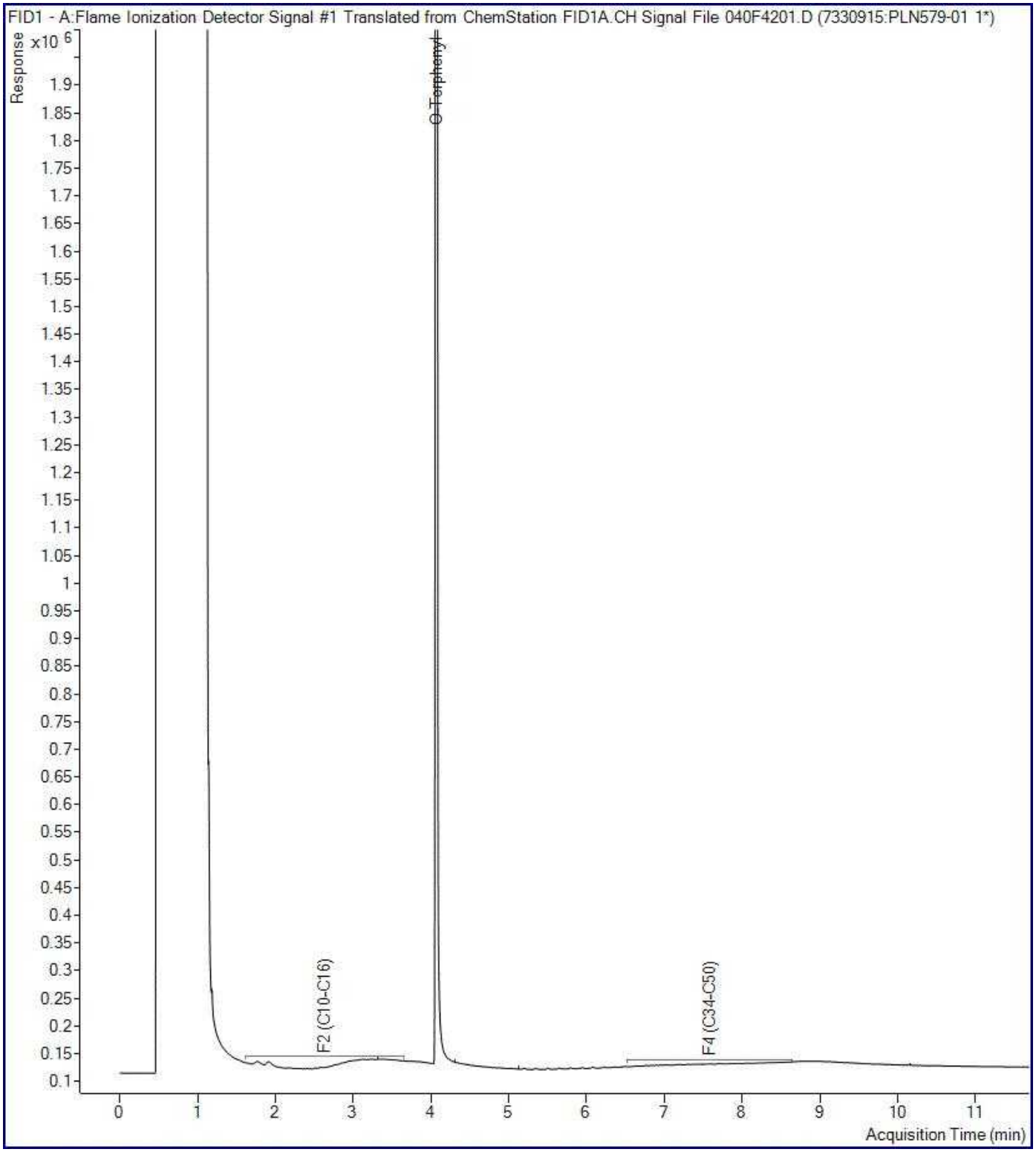
Pinchin Ltd
Client Project #: 285722.003
Client ID: DUP-1

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

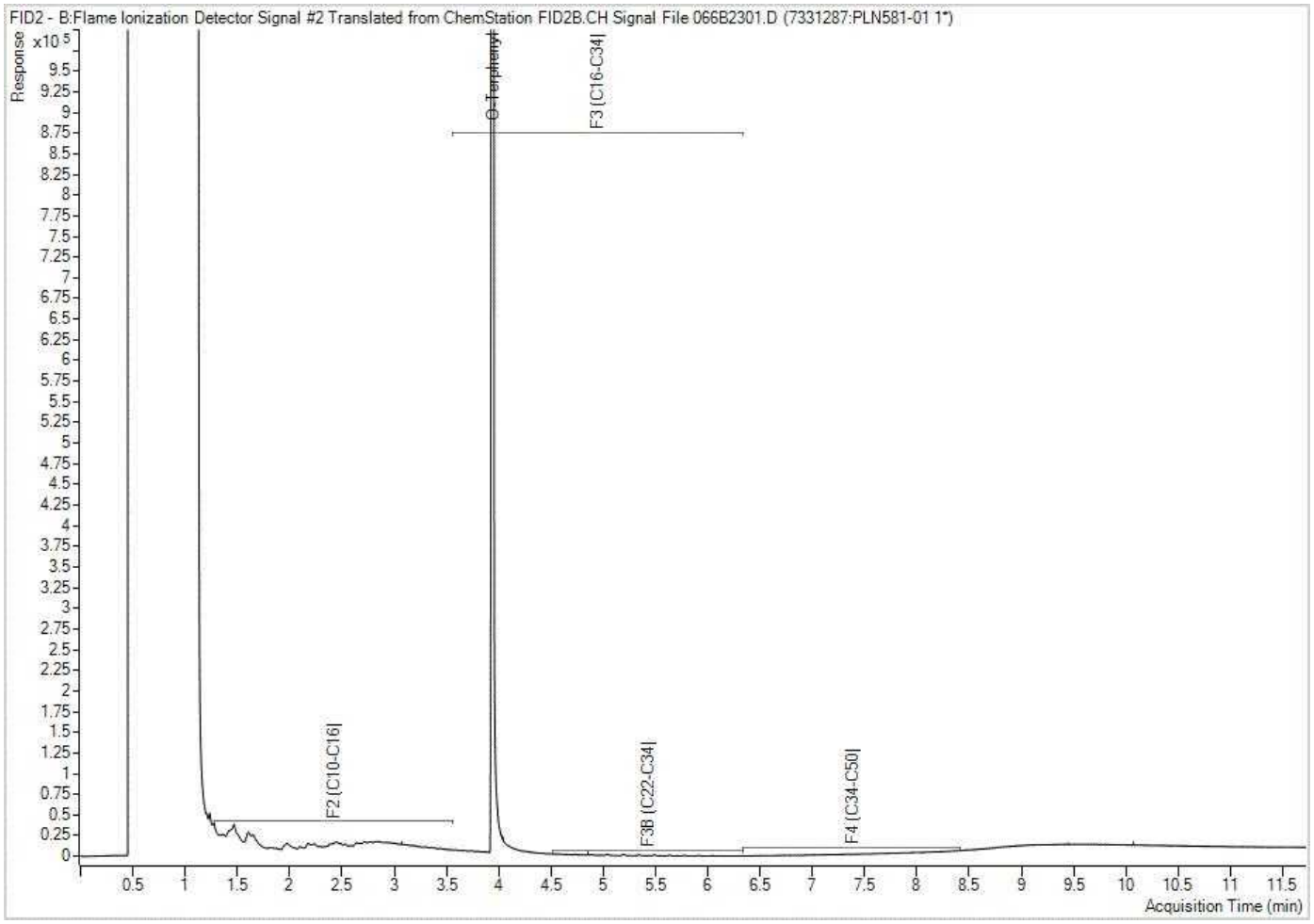


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B6083
Report Date: 2021/05/06
BV Labs Sample: PLN581

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW108 SS-8

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

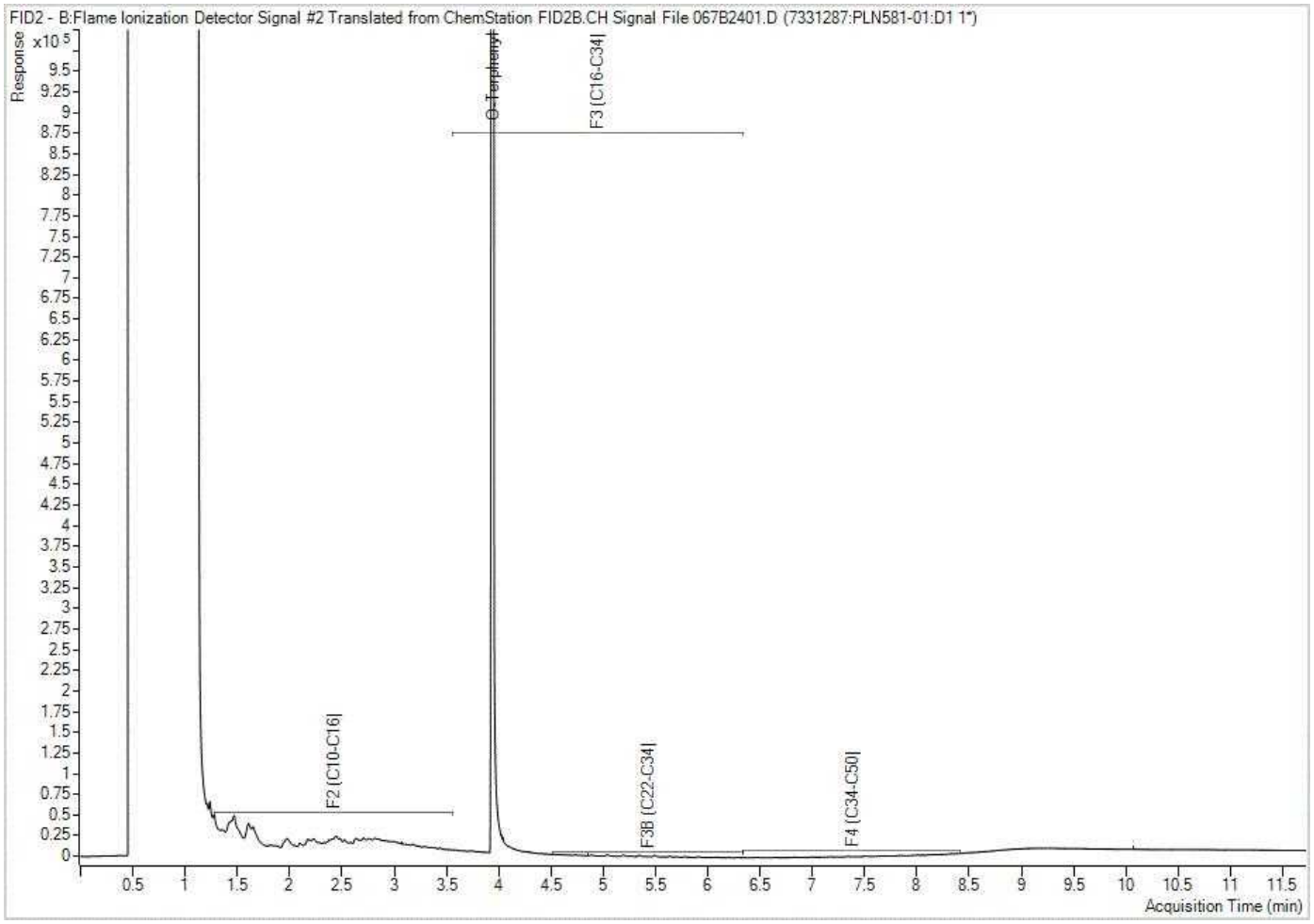


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B6083
Report Date: 2021/05/06
BV Labs Sample: PLN581 Lab-Dup

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW108 SS-8

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

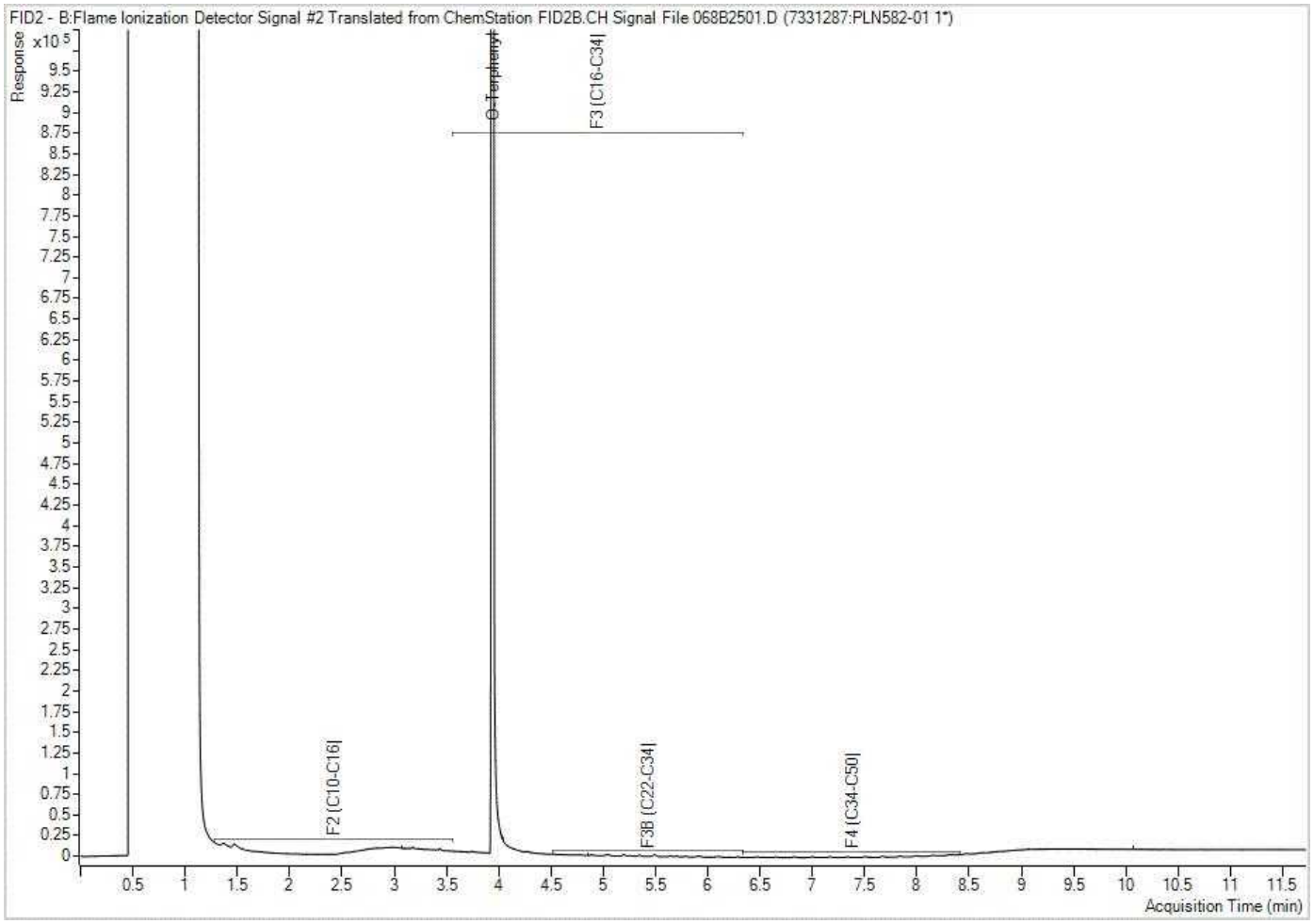


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B6083
Report Date: 2021/05/06
BV Labs Sample: PLN582

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW109 SS-7

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

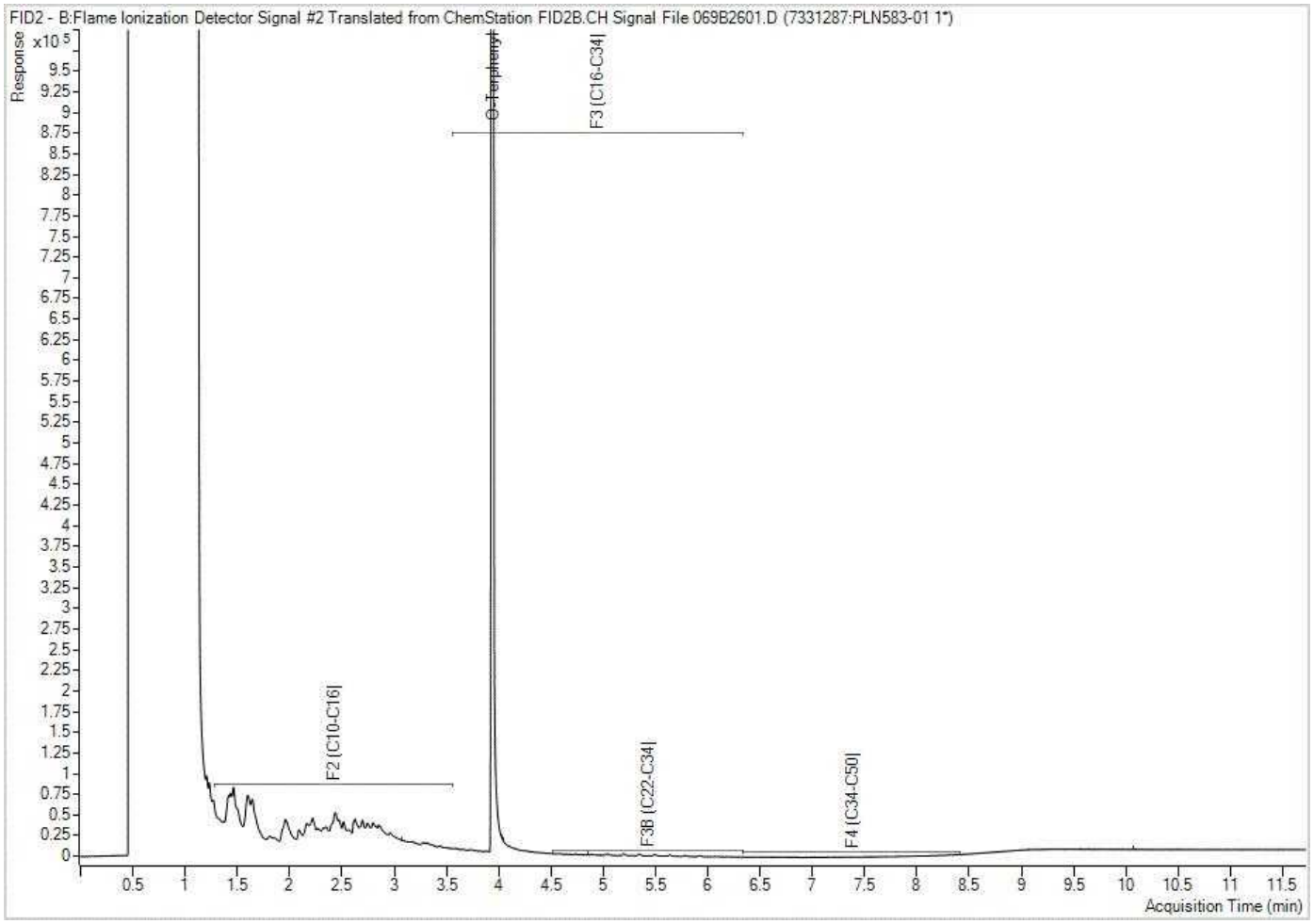


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B6083
Report Date: 2021/05/06
BV Labs Sample: PLN583

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW110 SS-7

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

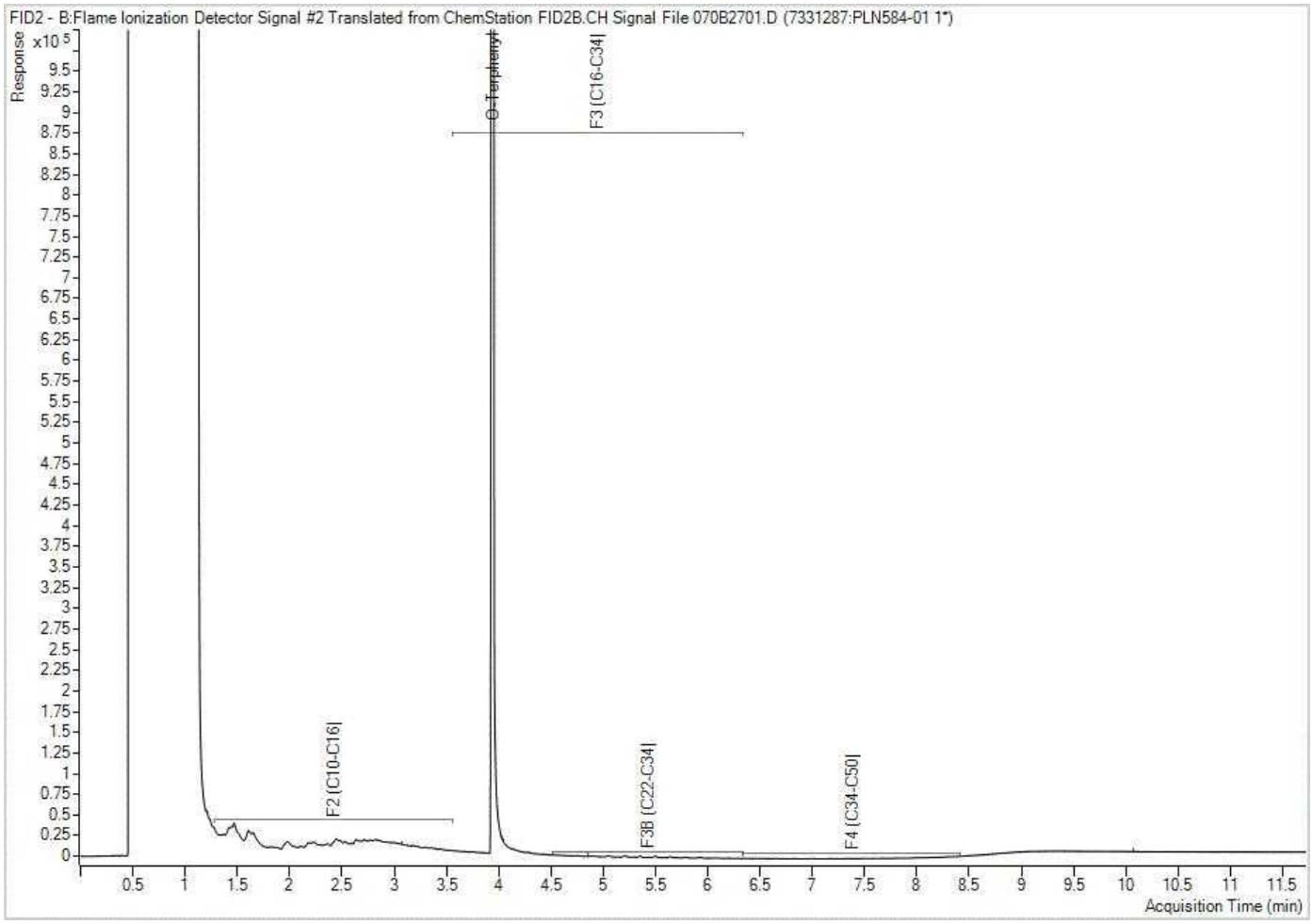


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B6083
Report Date: 2021/05/06
BV Labs Sample: PLN584

Pinchin Ltd
Client Project #: 285722.003
Client ID: DUP-2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

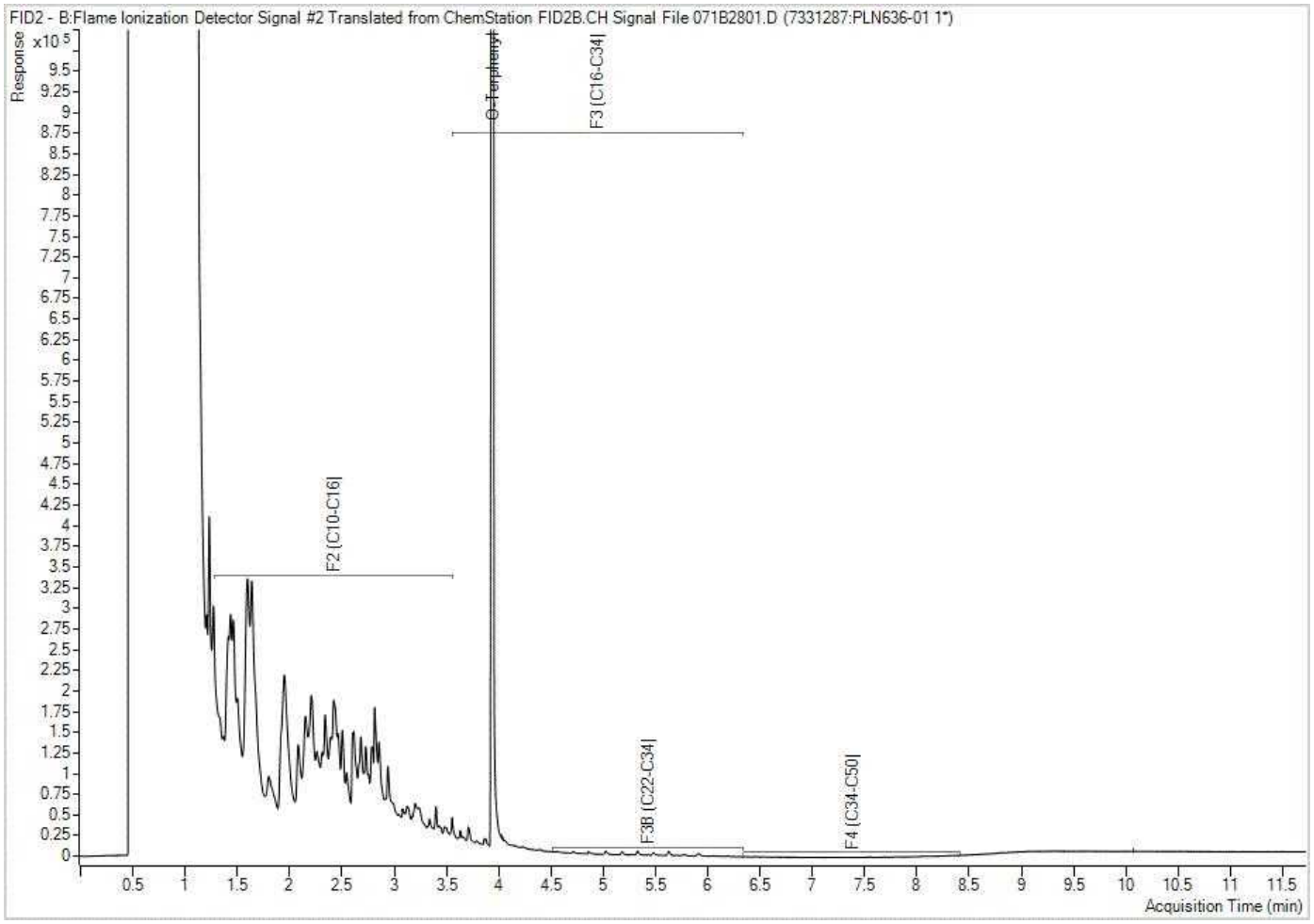


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B6083
Report Date: 2021/05/06
BV Labs Sample: PLN636

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW111 SS-6

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

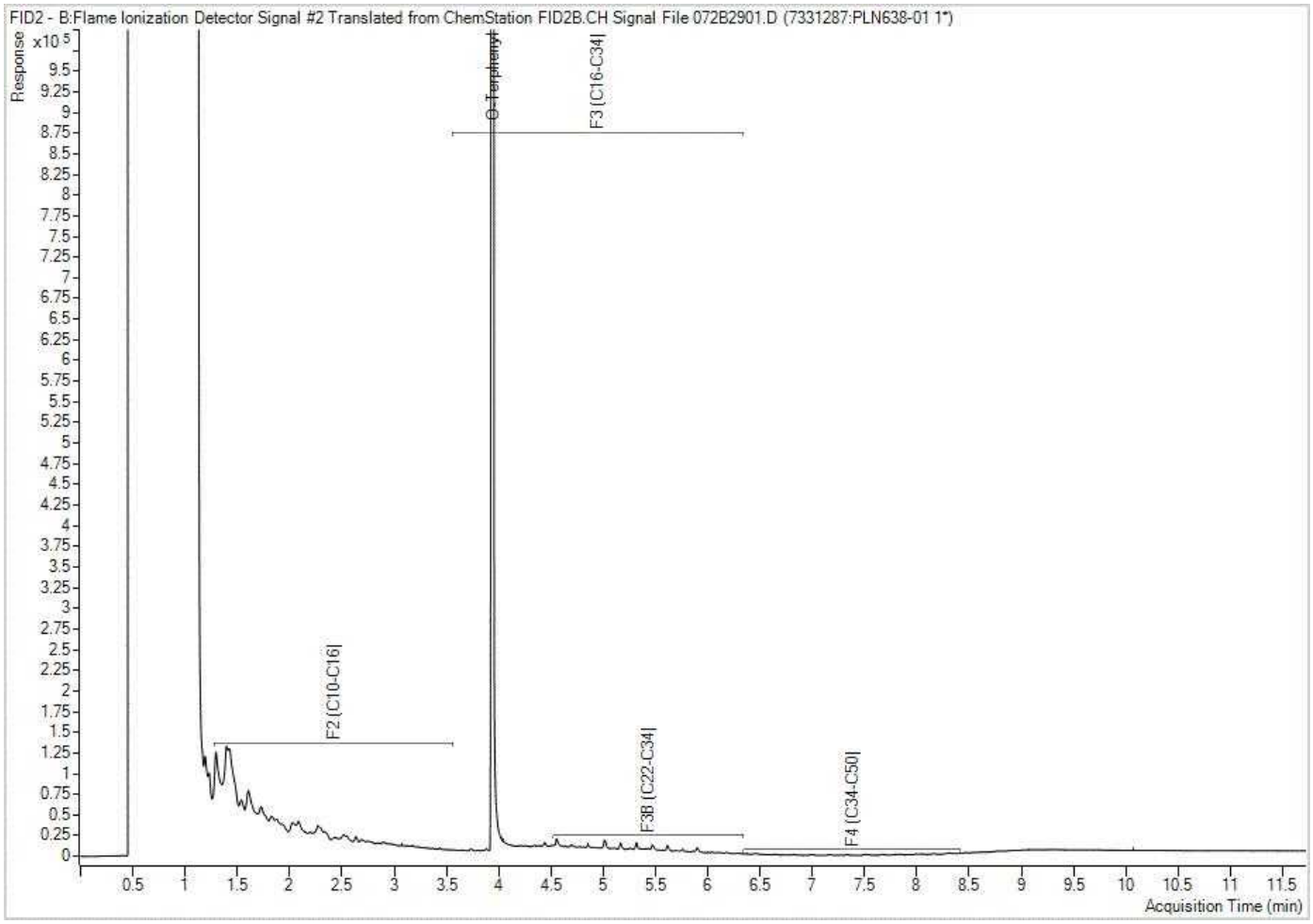


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B6083
Report Date: 2021/05/06
BV Labs Sample: PLN638

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW12 SS-7

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

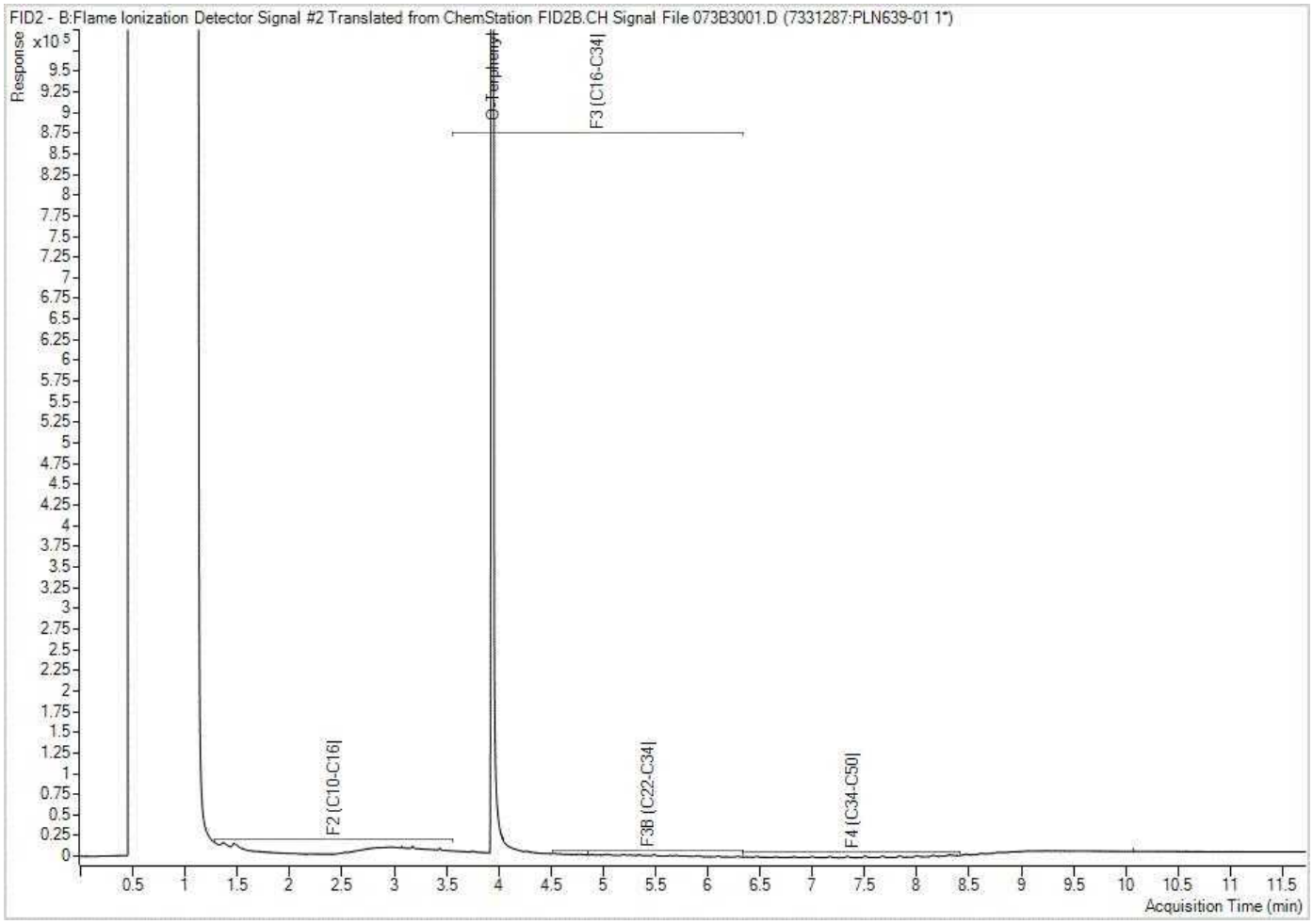


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B6083
Report Date: 2021/05/06
BV Labs Sample: PLN639

Pinchin Ltd
Client Project #: 285722.003
Client ID: BH113 SS-3

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

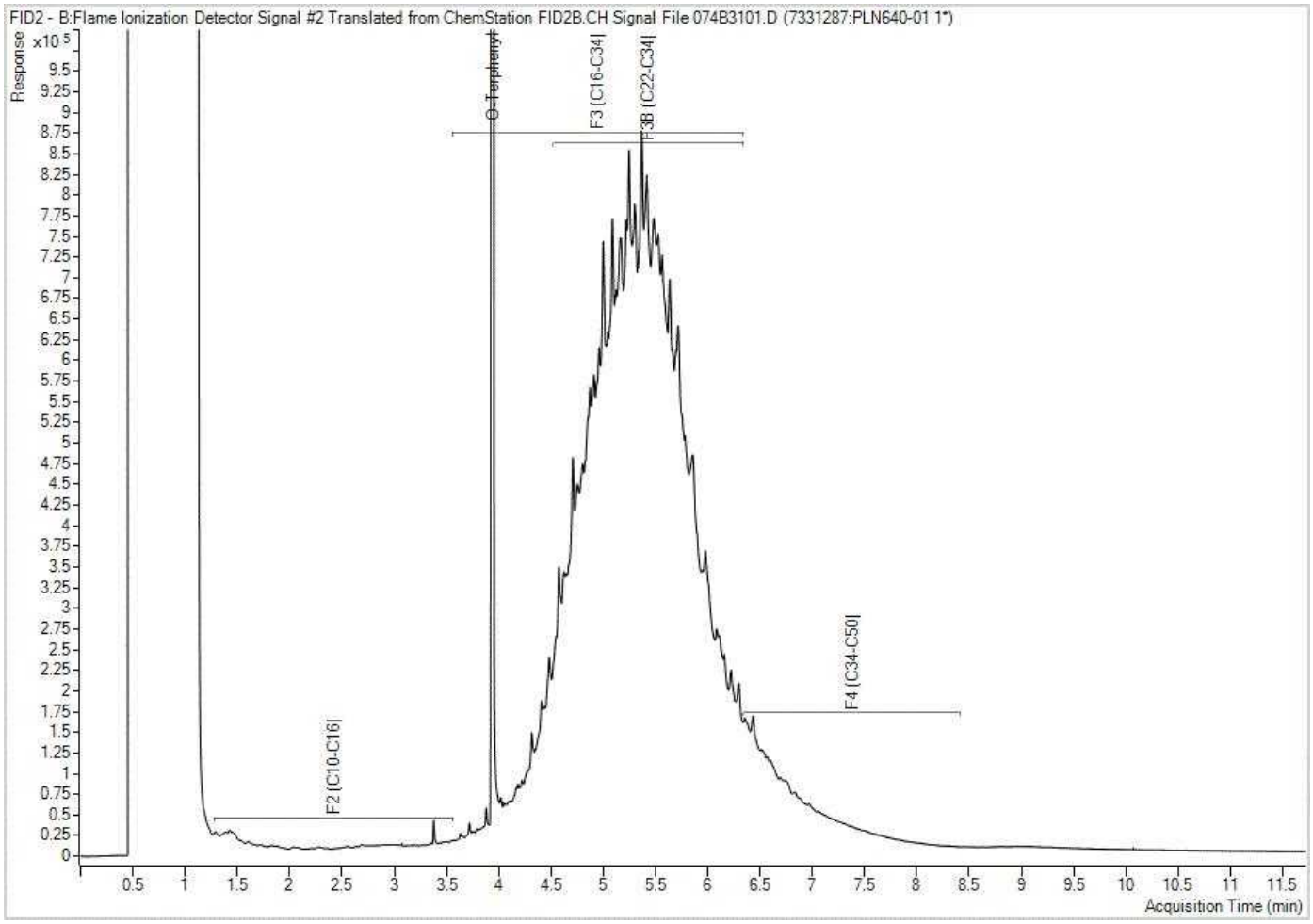


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B6083
Report Date: 2021/05/06
BV Labs Sample: PLN640

Pinchin Ltd
Client Project #: 285722.003
Client ID: BH113 SS-7

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

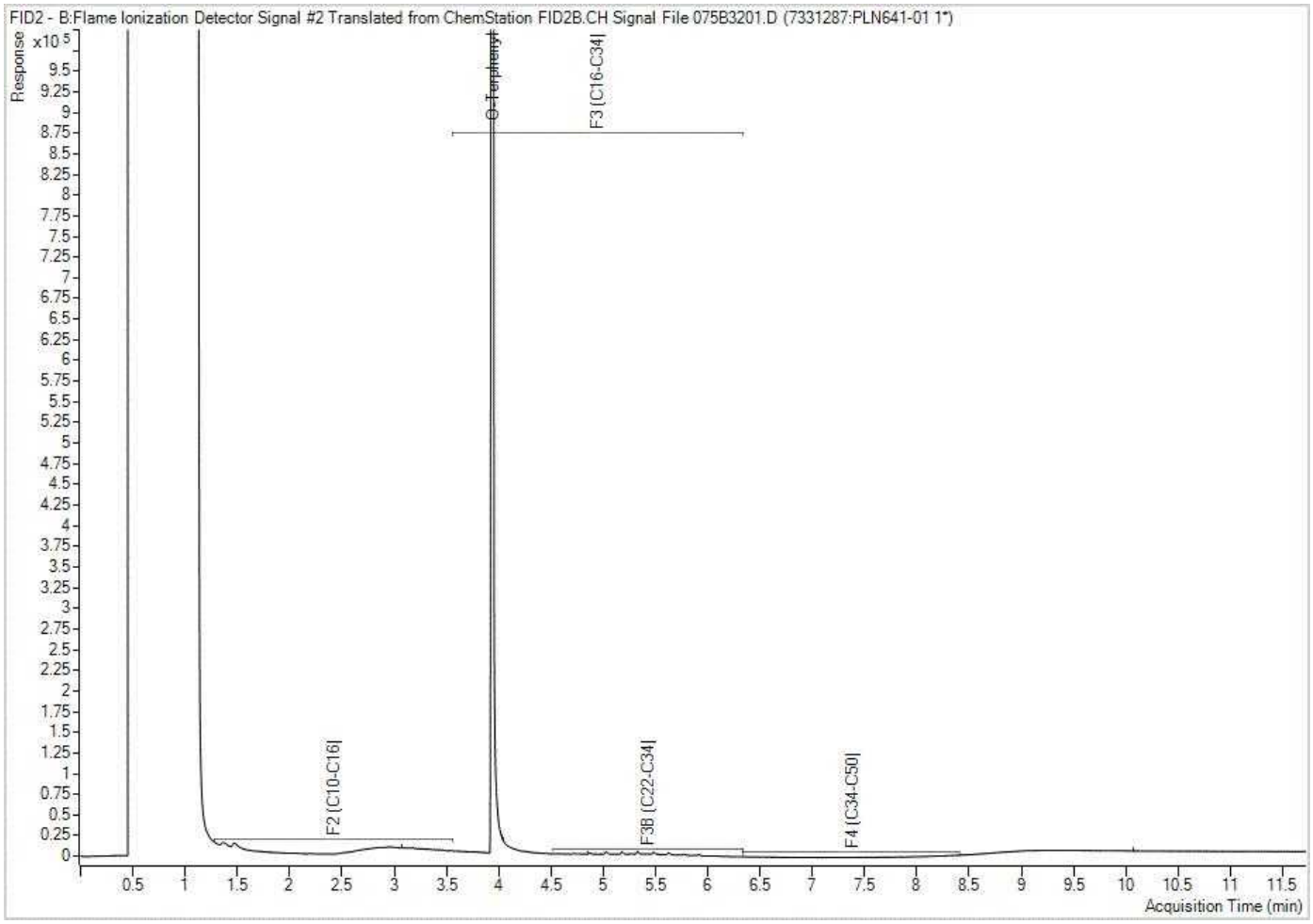


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B6083
Report Date: 2021/05/06
BV Labs Sample: PLN641

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW115 SS-3

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

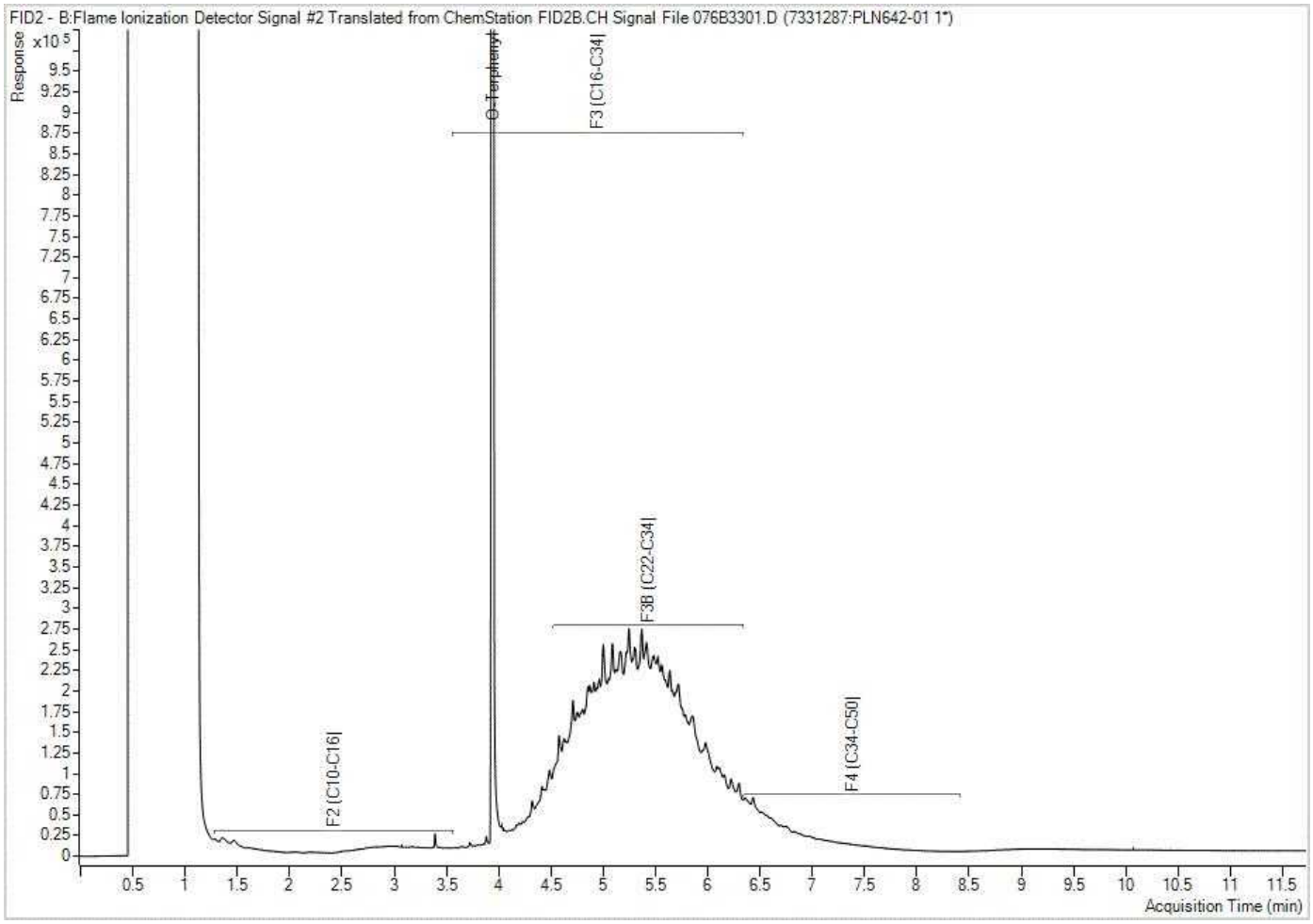


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B6083
Report Date: 2021/05/06
BV Labs Sample: PLN642

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW115 SS-7

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 #: 285722.003
Your C.O.C. #: 796018-26-01

Attention: Matt, Ryan, Mike

Pinchin Ltd
Ottawa
1 Hines Road
Suite 200
Kanata, ON
CANADA K2K 3C7

Report Date: 2021/05/10
Report #: R6628520
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1B8527
Received: 2021/05/03, 14:45

Sample Matrix: Soil
Samples Received: 7

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum (1)	4	N/A	2021/05/07	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum (1)	5	N/A	2021/05/10		EPA 8260C m
Petroleum Hydro. CCME F1 & BTEX in Soil (1, 2)	2	N/A	2021/05/07	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (1, 3)	7	2021/05/06	2021/05/06	CAM SOP-00316	CCME CWS m
F4G (CCME Hydrocarbons Gravimetric) (1)	1	2021/05/10	2021/05/10	CAM SOP-00316	CCME PHC-CWS m
Acid Extractable Metals by ICPMS (1)	5	2021/05/06	2021/05/06	CAM SOP-00447	EPA 6020B m
Moisture (1)	7	N/A	2021/05/05	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM) (1)	4	2021/05/06	2021/05/07	CAM SOP-00318	EPA 8270D m
Volatile Organic Compounds and F1 PHCs (1)	5	N/A	2021/05/08	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.

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) This test was performed by Bureau Veritas Mississauga

Your Project #: 285722.003
Your C.O.C. #: 796018-26-01

Attention: Matt, Ryan, Mike

Pinchin Ltd
Ottawa
1 Hines Road
Suite 200
Kanata, ON
CANADA K2K 3C7

Report Date: 2021/05/10
Report #: R6628520
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1B8527
Received: 2021/05/03, 14:45

(2) 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.
(3) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas Laboratories 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

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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BV Labs 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.

O.REG 153 ICPMS METALS (SOIL)

BV Labs ID		PMA917	PMA919	PMA920	PMA921	PMA922		
Sampling Date		2021/04/29	2021/04/30	2021/04/30	2021/04/30	2021/04/30		
COC Number		796018-26-01	796018-26-01	796018-26-01	796018-26-01	796018-26-01		
	UNITS	BHMW114 SS-9	BHMW116 SS-7	BHMW117 SS-3	BHMW118 SS-2	DUP-3	RDL	QC Batch
Metals								
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	1.4	0.28	<0.20	0.20	7337564
Acid Extractable Arsenic (As)	ug/g	<1.0	<1.0	4.5	3.1	1.9	1.0	7337564
Acid Extractable Barium (Ba)	ug/g	38	41	220	320	240	0.50	7337564
Acid Extractable Beryllium (Be)	ug/g	<0.20	<0.20	0.55	0.66	0.24	0.20	7337564
Acid Extractable Boron (B)	ug/g	<5.0	<5.0	6.3	7.0	7.2	5.0	7337564
Acid Extractable Cadmium (Cd)	ug/g	<0.10	<0.10	0.13	0.18	<0.10	0.10	7337564
Acid Extractable Chromium (Cr)	ug/g	9.4	9.7	49	72	10	1.0	7337564
Acid Extractable Cobalt (Co)	ug/g	3.5	3.6	12	16	3.9	0.10	7337564
Acid Extractable Copper (Cu)	ug/g	7.1	8.1	31	40	9.2	0.50	7337564
Acid Extractable Lead (Pb)	ug/g	2.0	2.4	21	90	21	1.0	7337564
Acid Extractable Molybdenum (Mo)	ug/g	0.54	<0.50	0.50	0.88	1.2	0.50	7337564
Acid Extractable Nickel (Ni)	ug/g	6.4	7.0	33	44	11	0.50	7337564
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7337564
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7337564
Acid Extractable Thallium (Tl)	ug/g	0.055	0.062	0.25	0.38	0.14	0.050	7337564
Acid Extractable Uranium (U)	ug/g	0.64	0.66	0.55	0.64	0.40	0.050	7337564
Acid Extractable Vanadium (V)	ug/g	18	19	56	70	15	5.0	7337564
Acid Extractable Zinc (Zn)	ug/g	12	13	84	120	22	5.0	7337564
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	0.054	0.26	<0.050	0.050	7337564

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 PAHS (SOIL)

BV Labs ID		PMA918	PMA920	PMA921		PMA922		
Sampling Date		2021/04/30	2021/04/30	2021/04/30		2021/04/30		
COC Number		796018-26-01	796018-26-01	796018-26-01		796018-26-01		
	UNITS	BHMW116 SS-4	BHMW117 SS-3	BHMW118 SS-2	RDL	DUP-3	RDL	QC Batch
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	<0.0071	0.042	0.0071	<0.071	0.071	7332757
Polyaromatic Hydrocarbons								
Acenaphthene	ug/g	<0.0050	0.0070	0.018	0.0050	<0.050	0.050	7338111
Acenaphthylene	ug/g	<0.0050	0.0061	0.019	0.0050	<0.050	0.050	7338111
Anthracene	ug/g	<0.0050	0.028	0.079	0.0050	<0.050	0.050	7338111
Benzo(a)anthracene	ug/g	<0.0050	0.094	0.23	0.0050	<0.050	0.050	7338111
Benzo(a)pyrene	ug/g	<0.0050	0.092	0.21	0.0050	<0.050	0.050	7338111
Benzo(b/j)fluoranthene	ug/g	<0.0050	0.12	0.25	0.0050	<0.050	0.050	7338111
Benzo(g,h,i)perylene	ug/g	<0.0050	0.055	0.13	0.0050	<0.050	0.050	7338111
Benzo(k)fluoranthene	ug/g	<0.0050	0.047	0.091	0.0050	<0.050	0.050	7338111
Chrysene	ug/g	<0.0050	0.083	0.21	0.0050	<0.050	0.050	7338111
Dibenzo(a,h)anthracene	ug/g	<0.0050	0.014	0.037	0.0050	<0.050	0.050	7338111
Fluoranthene	ug/g	<0.0050	0.21	0.42	0.0050	0.059	0.050	7338111
Fluorene	ug/g	<0.0050	0.0080	0.053	0.0050	<0.050	0.050	7338111
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	0.056	0.13	0.0050	<0.050	0.050	7338111
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	0.026	0.0050	<0.050	0.050	7338111
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	0.016	0.0050	<0.050	0.050	7338111
Naphthalene	ug/g	<0.0050	<0.0050	0.0053	0.0050	<0.050	0.050	7338111
Phenanthrene	ug/g	<0.0050	0.099	0.36	0.0050	<0.050	0.050	7338111
Pyrene	ug/g	<0.0050	0.17	0.56	0.0050	0.075	0.050	7338111
Surrogate Recovery (%)								
D10-Anthracene	%	94	94	90		108		7338111
D14-Terphenyl (FS)	%	101	99	105		88		7338111
D8-Acenaphthylene	%	84	84	83		77		7338111

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

BV Labs ID		PMA917		PMA919			PMA919		
Sampling Date		2021/04/29		2021/04/30			2021/04/30		
COC Number		796018-26-01		796018-26-01			796018-26-01		
	UNITS	BHMW114 SS-9	QC Batch	BHMW116 SS-7	RDL	QC Batch	BHMW116 SS-7 Lab-Dup	RDL	QC Batch
Inorganics									
Moisture	%	17	7336355	10	1.0	7336467	11	1.0	7336467
BTEX & F1 Hydrocarbons									
Benzene	ug/g	0.097	7338926	<0.020	0.020	7338926			
Toluene	ug/g	<0.020	7338926	<0.020	0.020	7338926			
Ethylbenzene	ug/g	<0.020	7338926	<0.020	0.020	7338926			
o-Xylene	ug/g	<0.020	7338926	<0.020	0.020	7338926			
p+m-Xylene	ug/g	<0.040	7338926	<0.040	0.040	7338926			
Total Xylenes	ug/g	<0.040	7338926	<0.040	0.040	7338926			
F1 (C6-C10)	ug/g	<10	7338926	<10	10	7338926			
F1 (C6-C10) - BTEX	ug/g	<10	7338926	<10	10	7338926			
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/g	<10	7336885	<10	10	7336885			
F3 (C16-C34 Hydrocarbons)	ug/g	<50	7336885	<50	50	7336885			
F4 (C34-C50 Hydrocarbons)	ug/g	<50	7336885	<50	50	7336885			
Reached Baseline at C50	ug/g	Yes	7336885	Yes		7336885			
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	95	7338926	95		7338926			
4-Bromofluorobenzene	%	99	7338926	97		7338926			
D10-o-Xylene	%	86	7338926	89		7338926			
D4-1,2-Dichloroethane	%	103	7338926	103		7338926			
o-Terphenyl	%	89	7336885	86		7336885			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

BV Labs ID		PMA916		PMA918		PMA920		
Sampling Date		2021/04/29		2021/04/30		2021/04/30		
COC Number		796018-26-01		796018-26-01		796018-26-01		
	UNITS	BHMW114 SS-3	QC Batch	BHMW116 SS-4	QC Batch	BHMW117 SS-3	RDL	QC Batch
Inorganics								
Moisture	%	8.7	7336467	28	7336355	19	1.0	7336467
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	7332586	<0.050	7332586	<0.050	0.050	7332586
Volatile Organics								
Acetone (2-Propanone)	ug/g	<0.50	7335245	<0.50	7335245	<0.50	0.50	7335245
Benzene	ug/g	<0.020	7335245	<0.020	7335245	<0.020	0.020	7335245
Bromodichloromethane	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
Bromoform	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
Bromomethane	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
Carbon Tetrachloride	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
Chlorobenzene	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
Chloroform	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
Dibromochloromethane	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
1,2-Dichlorobenzene	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
1,3-Dichlorobenzene	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
1,4-Dichlorobenzene	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
Dichlorodifluoromethane (FREON 12)	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
1,1-Dichloroethane	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
1,2-Dichloroethane	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
1,1-Dichloroethylene	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
cis-1,2-Dichloroethylene	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
trans-1,2-Dichloroethylene	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
1,2-Dichloropropane	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
cis-1,3-Dichloropropene	ug/g	<0.030	7335245	<0.030	7335245	<0.030	0.030	7335245
trans-1,3-Dichloropropene	ug/g	<0.040	7335245	<0.040	7335245	<0.040	0.040	7335245
Ethylbenzene	ug/g	<0.020	7335245	<0.020	7335245	<0.020	0.020	7335245
Ethylene Dibromide	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
Hexane	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
Methylene Chloride(Dichloromethane)	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.50	7335245	<0.50	7335245	<0.50	0.50	7335245
Methyl Isobutyl Ketone	ug/g	<0.50	7335245	<0.50	7335245	<0.50	0.50	7335245
Methyl t-butyl ether (MTBE)	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
Styrene	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
1,1,1,2-Tetrachloroethane	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
1,1,2,2-Tetrachloroethane	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
Tetrachloroethylene	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

BV Labs ID		PMA916		PMA918		PMA920		
Sampling Date		2021/04/29		2021/04/30		2021/04/30		
COC Number		796018-26-01		796018-26-01		796018-26-01		
	UNITS	BHMW114 SS-3	QC Batch	BHMW116 SS-4	QC Batch	BHMW117 SS-3	RDL	QC Batch
Toluene	ug/g	<0.020	7335245	<0.020	7335245	<0.020	0.020	7335245
1,1,1-Trichloroethane	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
1,1,2-Trichloroethane	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
Trichloroethylene	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
Trichlorofluoromethane (FREON 11)	ug/g	<0.050	7335245	<0.050	7335245	<0.050	0.050	7335245
Vinyl Chloride	ug/g	<0.020	7335245	<0.020	7335245	<0.020	0.020	7335245
p+m-Xylene	ug/g	<0.020	7335245	<0.020	7335245	<0.020	0.020	7335245
o-Xylene	ug/g	<0.020	7335245	<0.020	7335245	<0.020	0.020	7335245
Total Xylenes	ug/g	<0.020	7335245	<0.020	7335245	<0.020	0.020	7335245
F1 (C6-C10)	ug/g	<10	7335245	<10	7335245	<10	10	7335245
F1 (C6-C10) - BTEX	ug/g	<10	7335245	<10	7335245	<10	10	7335245
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	<10	7336885	10	7336885	<10	10	7336885
F3 (C16-C34 Hydrocarbons)	ug/g	260	7336885	61	7336885	<50	50	7336885
F4 (C34-C50 Hydrocarbons)	ug/g	<50	7336885	<50	7336885	<50	50	7336885
Reached Baseline at C50	ug/g	Yes	7336885	Yes	7336885	Yes		7336885
Surrogate Recovery (%)								
o-Terphenyl	%	88	7336885	91	7336885	89		7336885
4-Bromofluorobenzene	%	84	7335245	89	7335245	84		7335245
D10-o-Xylene	%	89	7335245	91	7335245	91		7335245
D4-1,2-Dichloroethane	%	101	7335245	101	7335245	101		7335245
D8-Toluene	%	100	7335245	98	7335245	101		7335245

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

BV Labs ID		PMA921		PMA922		
Sampling Date		2021/04/30		2021/04/30		
COC Number		796018-26-01		796018-26-01		
	UNITS	BHMW118 SS-2	QC Batch	DUP-3	RDL	QC Batch
Inorganics						
Moisture	%	18	7336467	4.8	1.0	7336467
Calculated Parameters						
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	7332586	<0.050	0.050	7333084
Volatile Organics						
Acetone (2-Propanone)	ug/g	<0.50	7335245	<0.50	0.50	7335245
Benzene	ug/g	<0.020	7335245	<0.020	0.020	7335245
Bromodichloromethane	ug/g	<0.050	7335245	<0.050	0.050	7335245
Bromoform	ug/g	<0.050	7335245	<0.050	0.050	7335245
Bromomethane	ug/g	<0.050	7335245	<0.050	0.050	7335245
Carbon Tetrachloride	ug/g	<0.050	7335245	<0.050	0.050	7335245
Chlorobenzene	ug/g	<0.050	7335245	<0.050	0.050	7335245
Chloroform	ug/g	<0.050	7335245	<0.050	0.050	7335245
Dibromochloromethane	ug/g	<0.050	7335245	<0.050	0.050	7335245
1,2-Dichlorobenzene	ug/g	<0.050	7335245	<0.050	0.050	7335245
1,3-Dichlorobenzene	ug/g	<0.050	7335245	<0.050	0.050	7335245
1,4-Dichlorobenzene	ug/g	<0.050	7335245	<0.050	0.050	7335245
Dichlorodifluoromethane (FREON 12)	ug/g	<0.050	7335245	<0.050	0.050	7335245
1,1-Dichloroethane	ug/g	<0.050	7335245	<0.050	0.050	7335245
1,2-Dichloroethane	ug/g	<0.050	7335245	<0.050	0.050	7335245
1,1-Dichloroethylene	ug/g	<0.050	7335245	<0.050	0.050	7335245
cis-1,2-Dichloroethylene	ug/g	<0.050	7335245	<0.050	0.050	7335245
trans-1,2-Dichloroethylene	ug/g	<0.050	7335245	<0.050	0.050	7335245
1,2-Dichloropropane	ug/g	<0.050	7335245	<0.050	0.050	7335245
cis-1,3-Dichloropropene	ug/g	<0.030	7335245	<0.030	0.030	7335245
trans-1,3-Dichloropropene	ug/g	<0.040	7335245	<0.040	0.040	7335245
Ethylbenzene	ug/g	<0.020	7335245	<0.020	0.020	7335245
Ethylene Dibromide	ug/g	<0.050	7335245	<0.050	0.050	7335245
Hexane	ug/g	<0.050	7335245	<0.050	0.050	7335245
Methylene Chloride(Dichloromethane)	ug/g	<0.050	7335245	<0.050	0.050	7335245
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.50	7335245	<0.50	0.50	7335245
Methyl Isobutyl Ketone	ug/g	<0.50	7335245	<0.50	0.50	7335245
Methyl t-butyl ether (MTBE)	ug/g	<0.050	7335245	<0.050	0.050	7335245
Styrene	ug/g	<0.050	7335245	<0.050	0.050	7335245
1,1,1,2-Tetrachloroethane	ug/g	<0.050	7335245	<0.050	0.050	7335245
1,1,2,2-Tetrachloroethane	ug/g	<0.050	7335245	<0.050	0.050	7335245
Tetrachloroethylene	ug/g	<0.050	7335245	<0.050	0.050	7335245

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

BV Labs ID		PMA921		PMA922		
Sampling Date		2021/04/30		2021/04/30		
COC Number		796018-26-01		796018-26-01		
	UNITS	BHMW118 SS-2	QC Batch	DUP-3	RDL	QC Batch
Toluene	ug/g	<0.020	7335245	<0.020	0.020	7335245
1,1,1-Trichloroethane	ug/g	<0.050	7335245	<0.050	0.050	7335245
1,1,2-Trichloroethane	ug/g	<0.050	7335245	<0.050	0.050	7335245
Trichloroethylene	ug/g	<0.050	7335245	<0.050	0.050	7335245
Trichlorofluoromethane (FREON 11)	ug/g	<0.050	7335245	<0.050	0.050	7335245
Vinyl Chloride	ug/g	<0.020	7335245	<0.020	0.020	7335245
p+m-Xylene	ug/g	<0.020	7335245	<0.020	0.020	7335245
o-Xylene	ug/g	<0.020	7335245	<0.020	0.020	7335245
Total Xylenes	ug/g	<0.020	7335245	<0.020	0.020	7335245
F1 (C6-C10)	ug/g	<10	7335245	<10	10	7335245
F1 (C6-C10) - BTEX	ug/g	<10	7335245	<10	10	7335245
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/g	<10	7336885	<10	10	7336885
F3 (C16-C34 Hydrocarbons)	ug/g	<50	7336885	<50	50	7336885
F4 (C34-C50 Hydrocarbons)	ug/g	<50	7336885	250	50	7336885
Reached Baseline at C50	ug/g	Yes	7336885	No		7336885
Surrogate Recovery (%)						
o-Terphenyl	%	89	7336885	90		7336885
4-Bromofluorobenzene	%	84	7335245	83		7335245
D10-o-Xylene	%	83	7335245	81		7335245
D4-1,2-Dichloroethane	%	102	7335245	103		7335245
D8-Toluene	%	99	7335245	100		7335245

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

PETROLEUM HYDROCARBONS (CCME)

BV Labs ID		PMA922		
Sampling Date		2021/04/30		
COC Number		796018-26-01		
	UNITS	DUP-3	RDL	QC Batch
F2-F4 Hydrocarbons				
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	1000	100	7342457

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

TEST SUMMARY

BV Labs ID: PMA916
Sample ID: BHMW114 SS-3
Matrix: Soil

Collected: 2021/04/29
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7332586	N/A	2021/05/10	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7336885	2021/05/06	2021/05/06	Ksenia Trofimova
Moisture	BAL	7336467	N/A	2021/05/05	Kruti Jitesh Patel
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7335245	N/A	2021/05/08	Rebecca McClean

BV Labs ID: PMA917
Sample ID: BHMW114 SS-9
Matrix: Soil

Collected: 2021/04/29
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7338926	N/A	2021/05/07	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7336885	2021/05/06	2021/05/06	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7337564	2021/05/06	2021/05/06	Daniel Teclu
Moisture	BAL	7336355	N/A	2021/05/05	Kruti Jitesh Patel

BV Labs ID: PMA918
Sample ID: BHMW116 SS-4
Matrix: Soil

Collected: 2021/04/30
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7332757	N/A	2021/05/07	Automated Statchk
1,3-Dichloropropene Sum	CALC	7332586	N/A	2021/05/10	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7336885	2021/05/06	2021/05/06	Ksenia Trofimova
Moisture	BAL	7336355	N/A	2021/05/05	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7338111	2021/05/06	2021/05/07	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7335245	N/A	2021/05/08	Rebecca McClean

BV Labs ID: PMA919
Sample ID: BHMW116 SS-7
Matrix: Soil

Collected: 2021/04/30
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7338926	N/A	2021/05/07	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7336885	2021/05/06	2021/05/06	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7337564	2021/05/06	2021/05/06	Daniel Teclu
Moisture	BAL	7336467	N/A	2021/05/05	Kruti Jitesh Patel

BV Labs ID: PMA919 Dup
Sample ID: BHMW116 SS-7
Matrix: Soil

Collected: 2021/04/30
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7336467	N/A	2021/05/05	Kruti Jitesh Patel

TEST SUMMARY

BV Labs ID: PMA920
Sample ID: BHMW117 SS-3
Matrix: Soil

Collected: 2021/04/30
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7332757	N/A	2021/05/07	Automated Statchk
1,3-Dichloropropene Sum	CALC	7332586	N/A	2021/05/10	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7336885	2021/05/06	2021/05/06	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7337564	2021/05/06	2021/05/06	Daniel Teclu
Moisture	BAL	7336467	N/A	2021/05/05	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7338111	2021/05/06	2021/05/07	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7335245	N/A	2021/05/08	Rebecca McClean

BV Labs ID: PMA921
Sample ID: BHMW118 SS-2
Matrix: Soil

Collected: 2021/04/30
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7332757	N/A	2021/05/07	Automated Statchk
1,3-Dichloropropene Sum	CALC	7332586	N/A	2021/05/10	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7336885	2021/05/06	2021/05/06	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7337564	2021/05/06	2021/05/06	Daniel Teclu
Moisture	BAL	7336467	N/A	2021/05/05	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7338111	2021/05/06	2021/05/07	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7335245	N/A	2021/05/08	Rebecca McClean

BV Labs ID: PMA922
Sample ID: DUP-3
Matrix: Soil

Collected: 2021/04/30
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7332757	N/A	2021/05/07	Automated Statchk
1,3-Dichloropropene Sum	CALC	7333084	N/A	2021/05/10	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7336885	2021/05/06	2021/05/06	Ksenia Trofimova
F4G (CCME Hydrocarbons Gravimetric)	BAL	7342457	2021/05/10	2021/05/10	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	7337564	2021/05/06	2021/05/06	Daniel Teclu
Moisture	BAL	7336467	N/A	2021/05/05	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7338111	2021/05/06	2021/05/07	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7335245	N/A	2021/05/08	Rebecca McClean

GENERAL COMMENTS

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

Package 1	6.7°C

Cooler custody seal was present and intact.F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample PMA922 [DUP-3] : PAH Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7335245	RSC	Matrix Spike	4-Bromofluorobenzene	2021/05/08		92	%	60 - 140
			D10-o-Xylene	2021/05/08		92	%	60 - 130
			D4-1,2-Dichloroethane	2021/05/08		96	%	60 - 140
			D8-Toluene	2021/05/08		111	%	60 - 140
			Acetone (2-Propanone)	2021/05/08		89	%	60 - 140
			Benzene	2021/05/08		90	%	60 - 140
			Bromodichloromethane	2021/05/08		88	%	60 - 140
			Bromoform	2021/05/08		73	%	60 - 140
			Bromomethane	2021/05/08		100	%	60 - 140
			Carbon Tetrachloride	2021/05/08		95	%	60 - 140
			Chlorobenzene	2021/05/08		90	%	60 - 140
			Chloroform	2021/05/08		89	%	60 - 140
			Dibromochloromethane	2021/05/08		81	%	60 - 140
			1,2-Dichlorobenzene	2021/05/08		91	%	60 - 140
			1,3-Dichlorobenzene	2021/05/08		96	%	60 - 140
			1,4-Dichlorobenzene	2021/05/08		114	%	60 - 140
			Dichlorodifluoromethane (FREON 12)	2021/05/08		89	%	60 - 140
			1,1-Dichloroethane	2021/05/08		93	%	60 - 140
			1,2-Dichloroethane	2021/05/08		86	%	60 - 140
			1,1-Dichloroethylene	2021/05/08		105	%	60 - 140
			cis-1,2-Dichloroethylene	2021/05/08		91	%	60 - 140
			trans-1,2-Dichloroethylene	2021/05/08		98	%	60 - 140
			1,2-Dichloropropane	2021/05/08		90	%	60 - 140
			cis-1,3-Dichloropropene	2021/05/08		81	%	60 - 140
			trans-1,3-Dichloropropene	2021/05/08		90	%	60 - 140
			Ethylbenzene	2021/05/08		89	%	60 - 140
			Ethylene Dibromide	2021/05/08		82	%	60 - 140
			Hexane	2021/05/08		109	%	60 - 140
			Methylene Chloride(Dichloromethane)	2021/05/08		110	%	60 - 140
			Methyl Ethyl Ketone (2-Butanone)	2021/05/08		84	%	60 - 140
			Methyl Isobutyl Ketone	2021/05/08		76	%	60 - 140
			Methyl t-butyl ether (MTBE)	2021/05/08		85	%	60 - 140
			Styrene	2021/05/08		64	%	60 - 140
			1,1,1,2-Tetrachloroethane	2021/05/08		89	%	60 - 140
			1,1,2,2-Tetrachloroethane	2021/05/08		78	%	60 - 140
			Tetrachloroethylene	2021/05/08		94	%	60 - 140
			Toluene	2021/05/08		96	%	60 - 140
			1,1,1-Trichloroethane	2021/05/08		100	%	60 - 140
			1,1,2-Trichloroethane	2021/05/08		91	%	60 - 140
			Trichloroethylene	2021/05/08		95	%	60 - 140
			Trichlorofluoromethane (FREON 11)	2021/05/08		99	%	60 - 140
			Vinyl Chloride	2021/05/08		95	%	60 - 140
			p+m-Xylene	2021/05/08		93	%	60 - 140
			o-Xylene	2021/05/08		86	%	60 - 140
			F1 (C6-C10)	2021/05/08		101	%	60 - 140
7335245	RSC	Spiked Blank	4-Bromofluorobenzene	2021/05/08		93	%	60 - 140
			D10-o-Xylene	2021/05/08		95	%	60 - 130
			D4-1,2-Dichloroethane	2021/05/08		97	%	60 - 140
			D8-Toluene	2021/05/08		111	%	60 - 140
			Acetone (2-Propanone)	2021/05/08		95	%	60 - 140
			Benzene	2021/05/08		91	%	60 - 130
			Bromodichloromethane	2021/05/08		88	%	60 - 130
			Bromoform	2021/05/08		76	%	60 - 130
			Bromomethane	2021/05/08		98	%	60 - 140

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Carbon Tetrachloride	2021/05/08		96	%	60 - 130
			Chlorobenzene	2021/05/08		92	%	60 - 130
			Chloroform	2021/05/08		90	%	60 - 130
			Dibromochloromethane	2021/05/08		83	%	60 - 130
			1,2-Dichlorobenzene	2021/05/08		94	%	60 - 130
			1,3-Dichlorobenzene	2021/05/08		97	%	60 - 130
			1,4-Dichlorobenzene	2021/05/08		116	%	60 - 130
			Dichlorodifluoromethane (FREON 12)	2021/05/08		87	%	60 - 140
			1,1-Dichloroethane	2021/05/08		92	%	60 - 130
			1,2-Dichloroethane	2021/05/08		87	%	60 - 130
			1,1-Dichloroethylene	2021/05/08		109	%	60 - 130
			cis-1,2-Dichloroethylene	2021/05/08		92	%	60 - 130
			trans-1,2-Dichloroethylene	2021/05/08		97	%	60 - 130
			1,2-Dichloropropane	2021/05/08		90	%	60 - 130
			cis-1,3-Dichloropropene	2021/05/08		80	%	60 - 130
			trans-1,3-Dichloropropene	2021/05/08		93	%	60 - 130
			Ethylbenzene	2021/05/08		89	%	60 - 130
			Ethylene Dibromide	2021/05/08		84	%	60 - 130
			Hexane	2021/05/08		108	%	60 - 130
			Methylene Chloride(Dichloromethane)	2021/05/08		109	%	60 - 130
			Methyl Ethyl Ketone (2-Butanone)	2021/05/08		88	%	60 - 140
			Methyl Isobutyl Ketone	2021/05/08		79	%	60 - 130
			Methyl t-butyl ether (MTBE)	2021/05/08		85	%	60 - 130
			Styrene	2021/05/08		66	%	60 - 130
			1,1,1,2-Tetrachloroethane	2021/05/08		91	%	60 - 130
			1,1,2,2-Tetrachloroethane	2021/05/08		80	%	60 - 130
			Tetrachloroethylene	2021/05/08		95	%	60 - 130
			Toluene	2021/05/08		97	%	60 - 130
			1,1,1-Trichloroethane	2021/05/08		100	%	60 - 130
			1,1,2-Trichloroethane	2021/05/08		93	%	60 - 130
			Trichloroethylene	2021/05/08		95	%	60 - 130
			Trichlorofluoromethane (FREON 11)	2021/05/08		102	%	60 - 130
			Vinyl Chloride	2021/05/08		94	%	60 - 130
			p+m-Xylene	2021/05/08		94	%	60 - 130
			o-Xylene	2021/05/08		88	%	60 - 130
			F1 (C6-C10)	2021/05/08		90	%	80 - 120
7335245	RSC	Method Blank	4-Bromofluorobenzene	2021/05/08		84	%	60 - 140
			D10-o-Xylene	2021/05/08		90	%	60 - 130
			D4-1,2-Dichloroethane	2021/05/08		99	%	60 - 140
			D8-Toluene	2021/05/08		101	%	60 - 140
			Acetone (2-Propanone)	2021/05/08	<0.50		ug/g	
			Benzene	2021/05/08	<0.020		ug/g	
			Bromodichloromethane	2021/05/08	<0.050		ug/g	
			Bromoform	2021/05/08	<0.050		ug/g	
			Bromomethane	2021/05/08	<0.050		ug/g	
			Carbon Tetrachloride	2021/05/08	<0.050		ug/g	
			Chlorobenzene	2021/05/08	<0.050		ug/g	
			Chloroform	2021/05/08	<0.050		ug/g	
			Dibromochloromethane	2021/05/08	<0.050		ug/g	
			1,2-Dichlorobenzene	2021/05/08	<0.050		ug/g	
			1,3-Dichlorobenzene	2021/05/08	<0.050		ug/g	
			1,4-Dichlorobenzene	2021/05/08	<0.050		ug/g	
			Dichlorodifluoromethane (FREON 12)	2021/05/08	<0.050		ug/g	
			1,1-Dichloroethane	2021/05/08	<0.050		ug/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1,2-Dichloroethane	2021/05/08	<0.050		ug/g	
			1,1-Dichloroethylene	2021/05/08	<0.050		ug/g	
			cis-1,2-Dichloroethylene	2021/05/08	<0.050		ug/g	
			trans-1,2-Dichloroethylene	2021/05/08	<0.050		ug/g	
			1,2-Dichloropropane	2021/05/08	<0.050		ug/g	
			cis-1,3-Dichloropropene	2021/05/08	<0.030		ug/g	
			trans-1,3-Dichloropropene	2021/05/08	<0.040		ug/g	
			Ethylbenzene	2021/05/08	<0.020		ug/g	
			Ethylene Dibromide	2021/05/08	<0.050		ug/g	
			Hexane	2021/05/08	<0.050		ug/g	
			Methylene Chloride(Dichloromethane)	2021/05/08	<0.050		ug/g	
			Methyl Ethyl Ketone (2-Butanone)	2021/05/08	<0.50		ug/g	
			Methyl Isobutyl Ketone	2021/05/08	<0.50		ug/g	
			Methyl t-butyl ether (MTBE)	2021/05/08	<0.050		ug/g	
			Styrene	2021/05/08	<0.050		ug/g	
			1,1,1,2-Tetrachloroethane	2021/05/08	<0.050		ug/g	
			1,1,2,2-Tetrachloroethane	2021/05/08	<0.050		ug/g	
			Tetrachloroethylene	2021/05/08	<0.050		ug/g	
			Toluene	2021/05/08	<0.020		ug/g	
			1,1,1-Trichloroethane	2021/05/08	<0.050		ug/g	
			1,1,2-Trichloroethane	2021/05/08	<0.050		ug/g	
			Trichloroethylene	2021/05/08	<0.050		ug/g	
			Trichlorofluoromethane (FREON 11)	2021/05/08	<0.050		ug/g	
			Vinyl Chloride	2021/05/08	<0.020		ug/g	
			p+m-Xylene	2021/05/08	<0.020		ug/g	
			o-Xylene	2021/05/08	<0.020		ug/g	
			Total Xylenes	2021/05/08	<0.020		ug/g	
			F1 (C6-C10)	2021/05/08	<10		ug/g	
			F1 (C6-C10) - BTEX	2021/05/08	<10		ug/g	
7335245	RSC	RPD	Acetone (2-Propanone)	2021/05/08	NC		%	50
			Benzene	2021/05/08	NC		%	50
			Bromodichloromethane	2021/05/08	NC		%	50
			Bromoform	2021/05/08	NC		%	50
			Bromomethane	2021/05/08	NC		%	50
			Carbon Tetrachloride	2021/05/08	NC		%	50
			Chlorobenzene	2021/05/08	NC		%	50
			Chloroform	2021/05/08	NC		%	50
			Dibromochloromethane	2021/05/08	NC		%	50
			1,2-Dichlorobenzene	2021/05/08	NC		%	50
			1,3-Dichlorobenzene	2021/05/08	NC		%	50
			1,4-Dichlorobenzene	2021/05/08	NC		%	50
			Dichlorodifluoromethane (FREON 12)	2021/05/08	NC		%	50
			1,1-Dichloroethane	2021/05/08	NC		%	50
			1,2-Dichloroethane	2021/05/08	NC		%	50
			1,1-Dichloroethylene	2021/05/08	NC		%	50
			cis-1,2-Dichloroethylene	2021/05/08	NC		%	50
			trans-1,2-Dichloroethylene	2021/05/08	NC		%	50
			1,2-Dichloropropane	2021/05/08	NC		%	50
			cis-1,3-Dichloropropene	2021/05/08	NC		%	50
			trans-1,3-Dichloropropene	2021/05/08	NC		%	50
			Ethylbenzene	2021/05/08	NC		%	50
			Ethylene Dibromide	2021/05/08	NC		%	50
			Hexane	2021/05/08	NC		%	50
			Methylene Chloride(Dichloromethane)	2021/05/08	NC		%	50

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Methyl Ethyl Ketone (2-Butanone)	2021/05/08	NC		%	50
			Methyl Isobutyl Ketone	2021/05/08	NC		%	50
			Methyl t-butyl ether (MTBE)	2021/05/08	NC		%	50
			Styrene	2021/05/08	NC		%	50
			1,1,1,2-Tetrachloroethane	2021/05/08	NC		%	50
			1,1,2,2-Tetrachloroethane	2021/05/08	NC		%	50
			Tetrachloroethylene	2021/05/08	NC		%	50
			Toluene	2021/05/08	NC		%	50
			1,1,1-Trichloroethane	2021/05/08	NC		%	50
			1,1,2-Trichloroethane	2021/05/08	NC		%	50
			Trichloroethylene	2021/05/08	NC		%	50
			Trichlorofluoromethane (FREON 11)	2021/05/08	NC		%	50
			Vinyl Chloride	2021/05/08	NC		%	50
			p+m-Xylene	2021/05/08	NC		%	50
			o-Xylene	2021/05/08	NC		%	50
			Total Xylenes	2021/05/08	NC		%	50
			F1 (C6-C10)	2021/05/08	NC		%	30
			F1 (C6-C10) - BTEX	2021/05/08	NC		%	30
7336355	GYA	RPD	Moisture	2021/05/05	2.8		%	20
7336467	GYA	RPD [PMA919-01]	Moisture	2021/05/05	6.5		%	20
7336885	KTR	Matrix Spike	o-Terphenyl	2021/05/06		88	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/05/06		96	%	50 - 130
			F3 (C16-C34 Hydrocarbons)	2021/05/06		95	%	50 - 130
			F4 (C34-C50 Hydrocarbons)	2021/05/06		97	%	50 - 130
7336885	KTR	Spiked Blank	o-Terphenyl	2021/05/06		86	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/05/06		94	%	80 - 120
			F3 (C16-C34 Hydrocarbons)	2021/05/06		95	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2021/05/06		95	%	80 - 120
7336885	KTR	Method Blank	o-Terphenyl	2021/05/06		86	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/05/06	<10		ug/g	
			F3 (C16-C34 Hydrocarbons)	2021/05/06	<50		ug/g	
			F4 (C34-C50 Hydrocarbons)	2021/05/06	<50		ug/g	
7336885	KTR	RPD	F2 (C10-C16 Hydrocarbons)	2021/05/07	5.5		%	30
			F3 (C16-C34 Hydrocarbons)	2021/05/07	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2021/05/07	NC		%	30
7337564	DT1	Matrix Spike	Acid Extractable Antimony (Sb)	2021/05/06		86	%	75 - 125
			Acid Extractable Arsenic (As)	2021/05/06		94	%	75 - 125
			Acid Extractable Barium (Ba)	2021/05/06		NC	%	75 - 125
			Acid Extractable Beryllium (Be)	2021/05/06		97	%	75 - 125
			Acid Extractable Boron (B)	2021/05/06		85	%	75 - 125
			Acid Extractable Cadmium (Cd)	2021/05/06		95	%	75 - 125
			Acid Extractable Chromium (Cr)	2021/05/06		94	%	75 - 125
			Acid Extractable Cobalt (Co)	2021/05/06		94	%	75 - 125
			Acid Extractable Copper (Cu)	2021/05/06		92	%	75 - 125
			Acid Extractable Lead (Pb)	2021/05/06		88	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2021/05/06		90	%	75 - 125
			Acid Extractable Nickel (Ni)	2021/05/06		99	%	75 - 125
			Acid Extractable Selenium (Se)	2021/05/06		92	%	75 - 125
			Acid Extractable Silver (Ag)	2021/05/06		96	%	75 - 125
			Acid Extractable Thallium (Tl)	2021/05/06		87	%	75 - 125
			Acid Extractable Uranium (U)	2021/05/06		93	%	75 - 125
			Acid Extractable Vanadium (V)	2021/05/06		NC	%	75 - 125
			Acid Extractable Zinc (Zn)	2021/05/06		NC	%	75 - 125
			Acid Extractable Mercury (Hg)	2021/05/06		83	%	75 - 125

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7337564	DT1	Spiked Blank	Acid Extractable Antimony (Sb)	2021/05/06		101	%	80 - 120
			Acid Extractable Arsenic (As)	2021/05/06		97	%	80 - 120
			Acid Extractable Barium (Ba)	2021/05/06		99	%	80 - 120
			Acid Extractable Beryllium (Be)	2021/05/06		96	%	80 - 120
			Acid Extractable Boron (B)	2021/05/06		95	%	80 - 120
			Acid Extractable Cadmium (Cd)	2021/05/06		98	%	80 - 120
			Acid Extractable Chromium (Cr)	2021/05/06		97	%	80 - 120
			Acid Extractable Cobalt (Co)	2021/05/06		96	%	80 - 120
			Acid Extractable Copper (Cu)	2021/05/06		97	%	80 - 120
			Acid Extractable Lead (Pb)	2021/05/06		92	%	80 - 120
			Acid Extractable Molybdenum (Mo)	2021/05/06		96	%	80 - 120
			Acid Extractable Nickel (Ni)	2021/05/06		101	%	80 - 120
			Acid Extractable Selenium (Se)	2021/05/06		95	%	80 - 120
			Acid Extractable Silver (Ag)	2021/05/06		100	%	80 - 120
			Acid Extractable Thallium (Tl)	2021/05/06		94	%	80 - 120
			Acid Extractable Uranium (U)	2021/05/06		96	%	80 - 120
			Acid Extractable Vanadium (V)	2021/05/06		97	%	80 - 120
			Acid Extractable Zinc (Zn)	2021/05/06		99	%	80 - 120
			Acid Extractable Mercury (Hg)	2021/05/06		88	%	80 - 120
7337564	DT1	Method Blank	Acid Extractable Antimony (Sb)	2021/05/06	<0.20		ug/g	
			Acid Extractable Arsenic (As)	2021/05/06	<1.0		ug/g	
			Acid Extractable Barium (Ba)	2021/05/06	<0.50		ug/g	
			Acid Extractable Beryllium (Be)	2021/05/06	<0.20		ug/g	
			Acid Extractable Boron (B)	2021/05/06	<5.0		ug/g	
			Acid Extractable Cadmium (Cd)	2021/05/06	<0.10		ug/g	
			Acid Extractable Chromium (Cr)	2021/05/06	<1.0		ug/g	
			Acid Extractable Cobalt (Co)	2021/05/06	<0.10		ug/g	
			Acid Extractable Copper (Cu)	2021/05/06	<0.50		ug/g	
			Acid Extractable Lead (Pb)	2021/05/06	<1.0		ug/g	
			Acid Extractable Molybdenum (Mo)	2021/05/06	<0.50		ug/g	
			Acid Extractable Nickel (Ni)	2021/05/06	<0.50		ug/g	
			Acid Extractable Selenium (Se)	2021/05/06	<0.50		ug/g	
			Acid Extractable Silver (Ag)	2021/05/06	<0.20		ug/g	
			Acid Extractable Thallium (Tl)	2021/05/06	<0.050		ug/g	
			Acid Extractable Uranium (U)	2021/05/06	<0.050		ug/g	
			Acid Extractable Vanadium (V)	2021/05/06	<5.0		ug/g	
			Acid Extractable Zinc (Zn)	2021/05/06	<5.0		ug/g	
			Acid Extractable Mercury (Hg)	2021/05/06	<0.050		ug/g	
7337564	DT1	RPD	Acid Extractable Antimony (Sb)	2021/05/06	NC		%	30
			Acid Extractable Arsenic (As)	2021/05/06	0.25		%	30
			Acid Extractable Barium (Ba)	2021/05/06	3.6		%	30
			Acid Extractable Beryllium (Be)	2021/05/06	3.0		%	30
			Acid Extractable Boron (B)	2021/05/06	3.9		%	30
			Acid Extractable Cadmium (Cd)	2021/05/06	1.1		%	30
			Acid Extractable Chromium (Cr)	2021/05/06	1.6		%	30
			Acid Extractable Cobalt (Co)	2021/05/06	2.0		%	30
			Acid Extractable Copper (Cu)	2021/05/06	4.5		%	30
			Acid Extractable Lead (Pb)	2021/05/06	3.7		%	30
			Acid Extractable Molybdenum (Mo)	2021/05/06	NC		%	30
			Acid Extractable Nickel (Ni)	2021/05/06	4.9		%	30
			Acid Extractable Selenium (Se)	2021/05/06	NC		%	30
			Acid Extractable Silver (Ag)	2021/05/06	NC		%	30
			Acid Extractable Thallium (Tl)	2021/05/06	3.3		%	30
			Acid Extractable Uranium (U)	2021/05/06	0.45		%	30

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Vanadium (V)	2021/05/06	1.0		%	30
			Acid Extractable Zinc (Zn)	2021/05/06	3.1		%	30
			Acid Extractable Mercury (Hg)	2021/05/06	NC		%	30
7338111	RAJ	Matrix Spike	D10-Anthracene	2021/05/07		93	%	50 - 130
			D14-Terphenyl (FS)	2021/05/07		89	%	50 - 130
			D8-Acenaphthylene	2021/05/07		84	%	50 - 130
			Acenaphthene	2021/05/07		90	%	50 - 130
			Acenaphthylene	2021/05/07		81	%	50 - 130
			Anthracene	2021/05/07		89	%	50 - 130
			Benzo(a)anthracene	2021/05/07		92	%	50 - 130
			Benzo(a)pyrene	2021/05/07		80	%	50 - 130
			Benzo(b/j)fluoranthene	2021/05/07		91	%	50 - 130
			Benzo(g,h,i)perylene	2021/05/07		89	%	50 - 130
			Benzo(k)fluoranthene	2021/05/07		94	%	50 - 130
			Chrysene	2021/05/07		99	%	50 - 130
			Dibenzo(a,h)anthracene	2021/05/07		91	%	50 - 130
			Fluoranthene	2021/05/07		87	%	50 - 130
			Fluorene	2021/05/07		92	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/05/07		90	%	50 - 130
			1-Methylnaphthalene	2021/05/07		105	%	50 - 130
			2-Methylnaphthalene	2021/05/07		102	%	50 - 130
			Naphthalene	2021/05/07		89	%	50 - 130
			Phenanthrene	2021/05/07		92	%	50 - 130
			Pyrene	2021/05/07		91	%	50 - 130
7338111	RAJ	Spiked Blank	D10-Anthracene	2021/05/06		96	%	50 - 130
			D14-Terphenyl (FS)	2021/05/06		103	%	50 - 130
			D8-Acenaphthylene	2021/05/06		86	%	50 - 130
			Acenaphthene	2021/05/06		89	%	50 - 130
			Acenaphthylene	2021/05/06		81	%	50 - 130
			Anthracene	2021/05/06		88	%	50 - 130
			Benzo(a)anthracene	2021/05/06		89	%	50 - 130
			Benzo(a)pyrene	2021/05/06		80	%	50 - 130
			Benzo(b/j)fluoranthene	2021/05/06		93	%	50 - 130
			Benzo(g,h,i)perylene	2021/05/06		87	%	50 - 130
			Benzo(k)fluoranthene	2021/05/06		95	%	50 - 130
			Chrysene	2021/05/06		93	%	50 - 130
			Dibenzo(a,h)anthracene	2021/05/06		83	%	50 - 130
			Fluoranthene	2021/05/06		100	%	50 - 130
			Fluorene	2021/05/06		88	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/05/06		89	%	50 - 130
			1-Methylnaphthalene	2021/05/06		103	%	50 - 130
			2-Methylnaphthalene	2021/05/06		101	%	50 - 130
			Naphthalene	2021/05/06		89	%	50 - 130
			Phenanthrene	2021/05/06		90	%	50 - 130
			Pyrene	2021/05/06		100	%	50 - 130
7338111	RAJ	Method Blank	D10-Anthracene	2021/05/06		94	%	50 - 130
			D14-Terphenyl (FS)	2021/05/06		97	%	50 - 130
			D8-Acenaphthylene	2021/05/06		84	%	50 - 130
			Acenaphthene	2021/05/06	<0.0050		ug/g	
			Acenaphthylene	2021/05/06	<0.0050		ug/g	
			Anthracene	2021/05/06	<0.0050		ug/g	
			Benzo(a)anthracene	2021/05/06	<0.0050		ug/g	
			Benzo(a)pyrene	2021/05/06	<0.0050		ug/g	
			Benzo(b/j)fluoranthene	2021/05/06	<0.0050		ug/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Benzo(g,h,i)perylene	2021/05/06	<0.0050		ug/g	
			Benzo(k)fluoranthene	2021/05/06	<0.0050		ug/g	
			Chrysene	2021/05/06	<0.0050		ug/g	
			Dibenzo(a,h)anthracene	2021/05/06	<0.0050		ug/g	
			Fluoranthene	2021/05/06	<0.0050		ug/g	
			Fluorene	2021/05/06	<0.0050		ug/g	
			Indeno(1,2,3-cd)pyrene	2021/05/06	<0.0050		ug/g	
			1-Methylnaphthalene	2021/05/06	<0.0050		ug/g	
			2-Methylnaphthalene	2021/05/06	<0.0050		ug/g	
			Naphthalene	2021/05/06	<0.0050		ug/g	
			Phenanthrene	2021/05/06	<0.0050		ug/g	
			Pyrene	2021/05/06	<0.0050		ug/g	
7338111	RAJ	RPD	Acenaphthene	2021/05/07	NC		%	40
			Acenaphthylene	2021/05/07	NC		%	40
			Anthracene	2021/05/07	NC		%	40
			Benzo(a)anthracene	2021/05/07	NC		%	40
			Benzo(a)pyrene	2021/05/07	NC		%	40
			Benzo(b/j)fluoranthene	2021/05/07	NC		%	40
			Benzo(g,h,i)perylene	2021/05/07	NC		%	40
			Benzo(k)fluoranthene	2021/05/07	NC		%	40
			Chrysene	2021/05/07	5.6		%	40
			Dibenzo(a,h)anthracene	2021/05/07	NC		%	40
			Fluoranthene	2021/05/07	NC		%	40
			Fluorene	2021/05/07	NC		%	40
			Indeno(1,2,3-cd)pyrene	2021/05/07	NC		%	40
			1-Methylnaphthalene	2021/05/07	NC		%	40
			2-Methylnaphthalene	2021/05/07	NC		%	40
			Naphthalene	2021/05/07	NC		%	40
			Phenanthrene	2021/05/07	NC		%	40
			Pyrene	2021/05/07	NC		%	40
7338926	LRA	Matrix Spike	1,4-Difluorobenzene	2021/05/07		93	%	60 - 140
			4-Bromofluorobenzene	2021/05/07		100	%	60 - 140
			D10-o-Xylene	2021/05/07		91	%	60 - 140
			D4-1,2-Dichloroethane	2021/05/07		98	%	60 - 140
			Benzene	2021/05/07		95	%	50 - 140
			Toluene	2021/05/07		95	%	50 - 140
			Ethylbenzene	2021/05/07		105	%	50 - 140
			o-Xylene	2021/05/07		105	%	50 - 140
			p+m-Xylene	2021/05/07		96	%	50 - 140
			F1 (C6-C10)	2021/05/07		94	%	60 - 140
7338926	LRA	Spiked Blank	1,4-Difluorobenzene	2021/05/07		95	%	60 - 140
			4-Bromofluorobenzene	2021/05/07		100	%	60 - 140
			D10-o-Xylene	2021/05/07		89	%	60 - 140
			D4-1,2-Dichloroethane	2021/05/07		99	%	60 - 140
			Benzene	2021/05/07		94	%	50 - 140
			Toluene	2021/05/07		91	%	50 - 140
			Ethylbenzene	2021/05/07		101	%	50 - 140
			o-Xylene	2021/05/07		99	%	50 - 140
			p+m-Xylene	2021/05/07		91	%	50 - 140
			F1 (C6-C10)	2021/05/07		85	%	80 - 120
7338926	LRA	Method Blank	1,4-Difluorobenzene	2021/05/07		95	%	60 - 140
			4-Bromofluorobenzene	2021/05/07		97	%	60 - 140
			D10-o-Xylene	2021/05/07		82	%	60 - 140
			D4-1,2-Dichloroethane	2021/05/07		102	%	60 - 140

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Benzene	2021/05/07	<0.020		ug/g	
			Toluene	2021/05/07	<0.020		ug/g	
			Ethylbenzene	2021/05/07	<0.020		ug/g	
			o-Xylene	2021/05/07	<0.020		ug/g	
			p+m-Xylene	2021/05/07	<0.040		ug/g	
			Total Xylenes	2021/05/07	<0.040		ug/g	
			F1 (C6-C10)	2021/05/07	<10		ug/g	
			F1 (C6-C10) - BTEX	2021/05/07	<10		ug/g	
7338926	LRA	RPD	Benzene	2021/05/07	NC		%	50
			Toluene	2021/05/07	NC		%	50
			Ethylbenzene	2021/05/07	NC		%	50
			o-Xylene	2021/05/07	NC		%	50
			p+m-Xylene	2021/05/07	NC		%	50
			Total Xylenes	2021/05/07	NC		%	50
			F1 (C6-C10)	2021/05/07	NC		%	30
			F1 (C6-C10) - BTEX	2021/05/07	NC		%	30
7342457	RDU	Matrix Spike	F4G-sg (Grav. Heavy Hydrocarbons)	2021/05/10		89	%	65 - 135
7342457	RDU	Spiked Blank	F4G-sg (Grav. Heavy Hydrocarbons)	2021/05/10		102	%	65 - 135
7342457	RDU	Method Blank	F4G-sg (Grav. Heavy Hydrocarbons)	2021/05/10	<100		ug/g	
7342457	RDU	RPD	F4G-sg (Grav. Heavy Hydrocarbons)	2021/05/10	8.3		%	50

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.

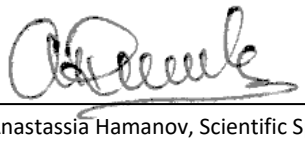
Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

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 <= 2x RDL).

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Anastassia Hamanov, Scientific Specialist

BV Labs 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 Laboratories 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvlabs.com

Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvlabs.com

CHAIN OF CUSTODY RECORD

Page 1 of 1

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#982 Pinchin Ltd	Company Name:		Quotation #:	A70927	BV Labs Job #:	Bottle Order #: 796018
Attention:	Accounts Payable	Attention:	Matt, Ryan, Mike	P.O. #:			
Address:	1 Hines Road Suite 200 Kanata ON K2K 3C7	Address:		Project:	285722003	COC #: C#796018-26-01	Project Manager: Antonella Brasil
Tel:	(613) 592-3387 Fax: (613) 592-5897	Tel:	Fax:	Project Name:			
Email:	ap@pinchin.com	Email:	mkosiw@Pinchin.com, rlaronde@pinchin.com; mryan@	Site #:			
				Sampled By:	M. Kosiw		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☒ Res/Park ☒ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☒ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___	☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ___ ☐ PWQO ☐ Reg 406 Table ___ ☐ Other ___	

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

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 Dioxins/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 #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	ANALYSIS REQUESTED (PLEASE BE SPECIFIC): O Reg 153 ICPMS Metals (Soil)	O Reg 153 PHCs, BTEX/F1-F4 (Soil)	O Reg 153 VOCs by HS (Soil)	O Reg 153 PAHs (Soil)	pH CaCl2 EXTRACT	Sieve, 75um	# of Bottles	Comments
1		BHMW114SS-3	April 29	PM	SOIL			X	X				2	
2		BHMW114SS-9	2021	↓	↓		X	X						
3		BHMW116SS-4	April 30	PM				X	X	X				
4		BHMW116SS-7					X	X						
5		DUP-1 (BHMW117SS-3)					X	X	X	X				
6		BHMW118SS2					X	X	X	X				
7		Dup-3	↓	↓	↓		X	X	X	X				
8														
9														
10														

RECEIVED IN OTTAWA

03-May-21 14:45
Antonella Brasil
C1B8527
VBV ENV-1372

ON Ice Packs

* 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: Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes	No
Mike Kosiw	May 3, 2021	2:00 PM		2021/05/03 04/25/04	14:45 of 20			7.7.6	Intact	☒	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

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

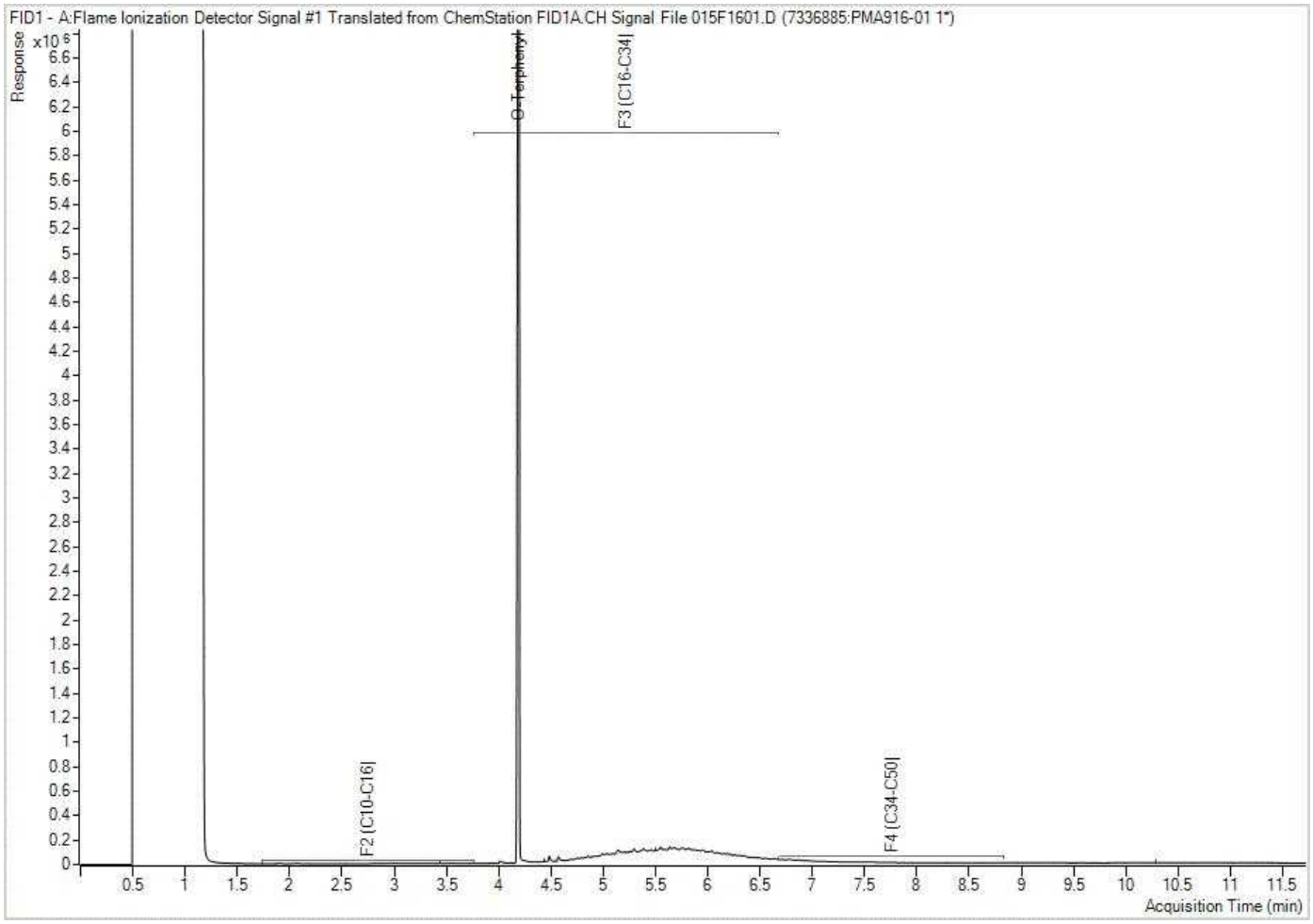
White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

BV Labs Job #: C1B8527
Report Date: 2021/05/10
BV Labs Sample: PMA916

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW114 SS-3

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

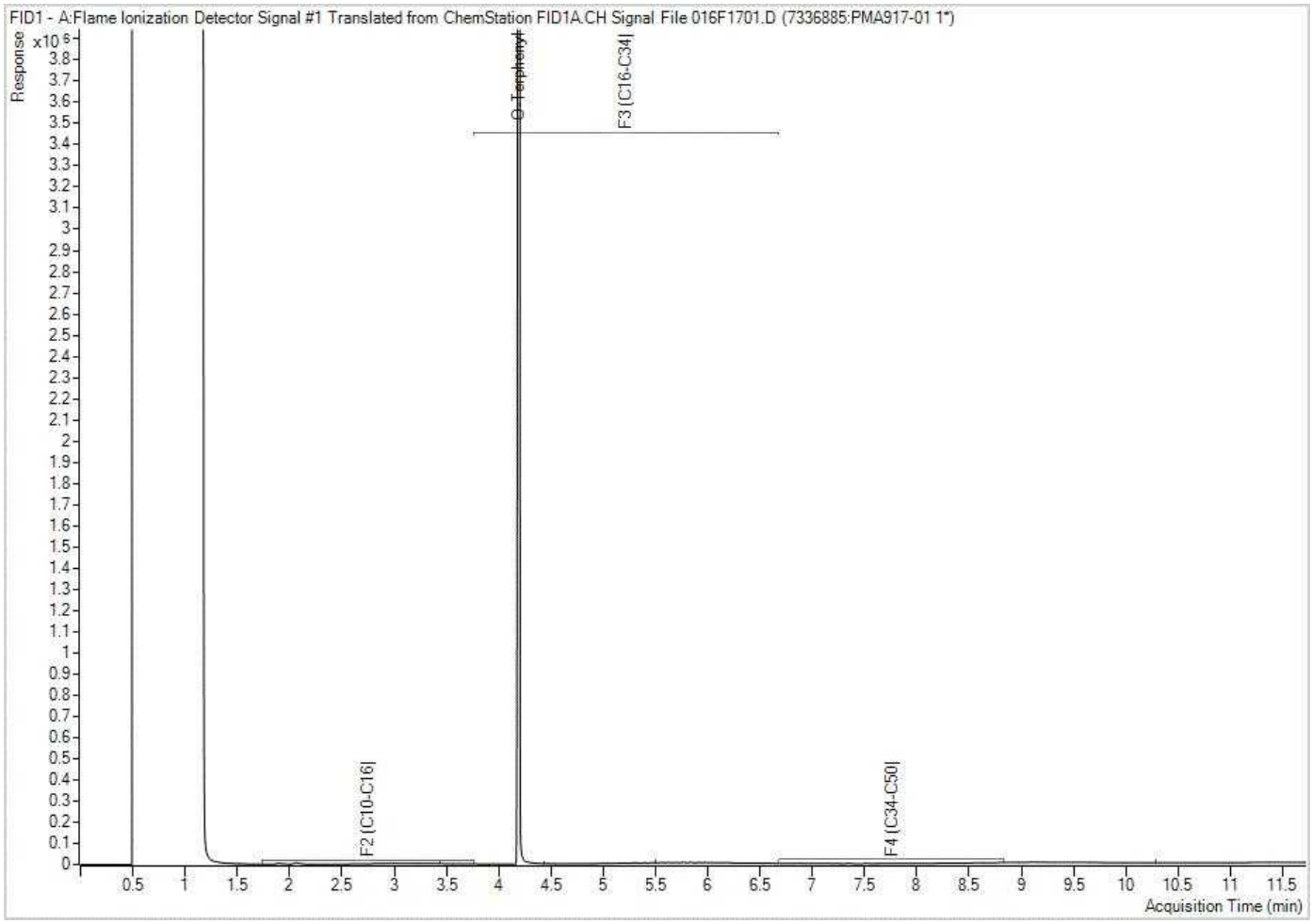


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B8527
Report Date: 2021/05/10
BV Labs Sample: PMA917

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW114 SS-9

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

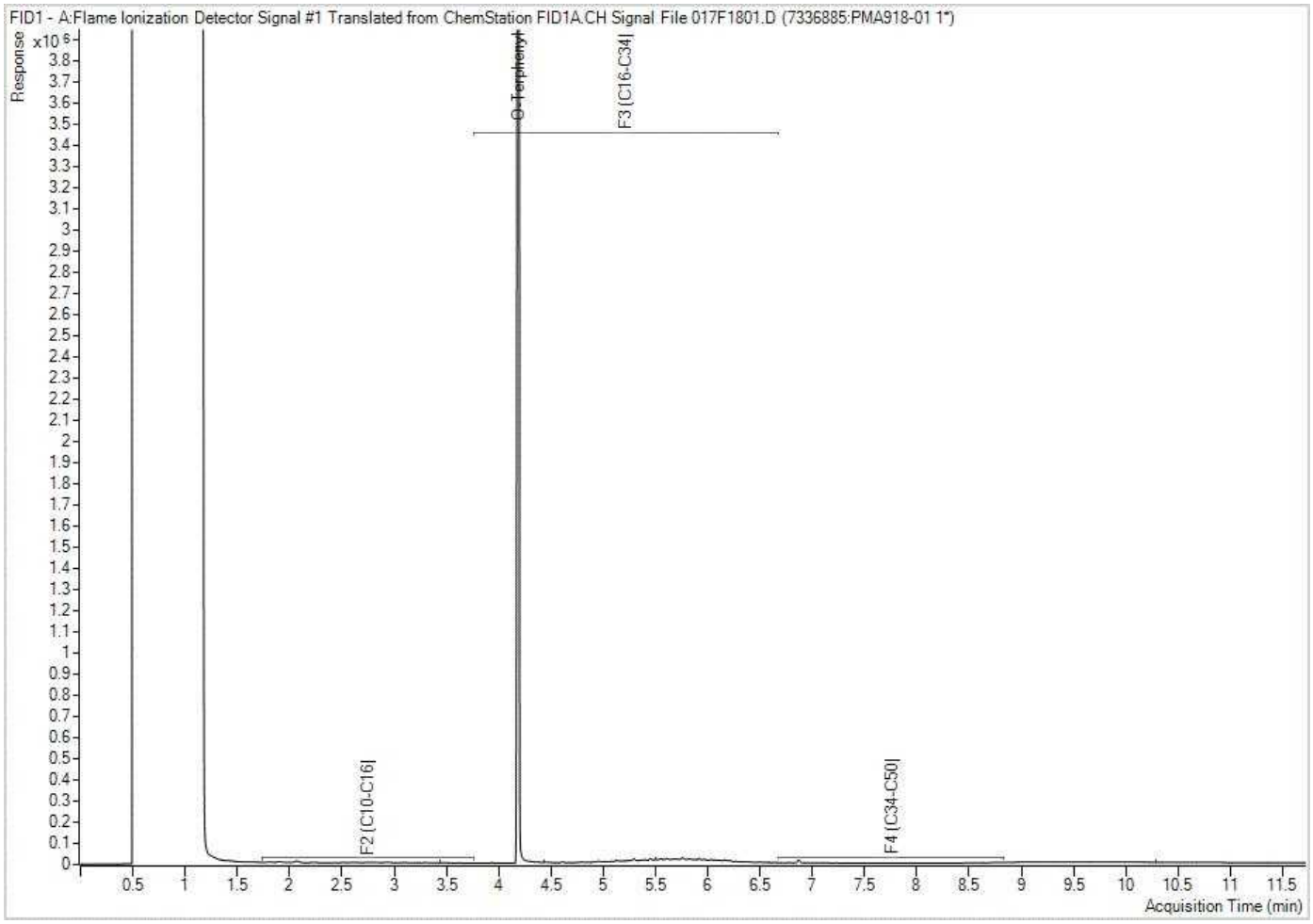


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B8527
Report Date: 2021/05/10
BV Labs Sample: PMA918

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW116 SS-4

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

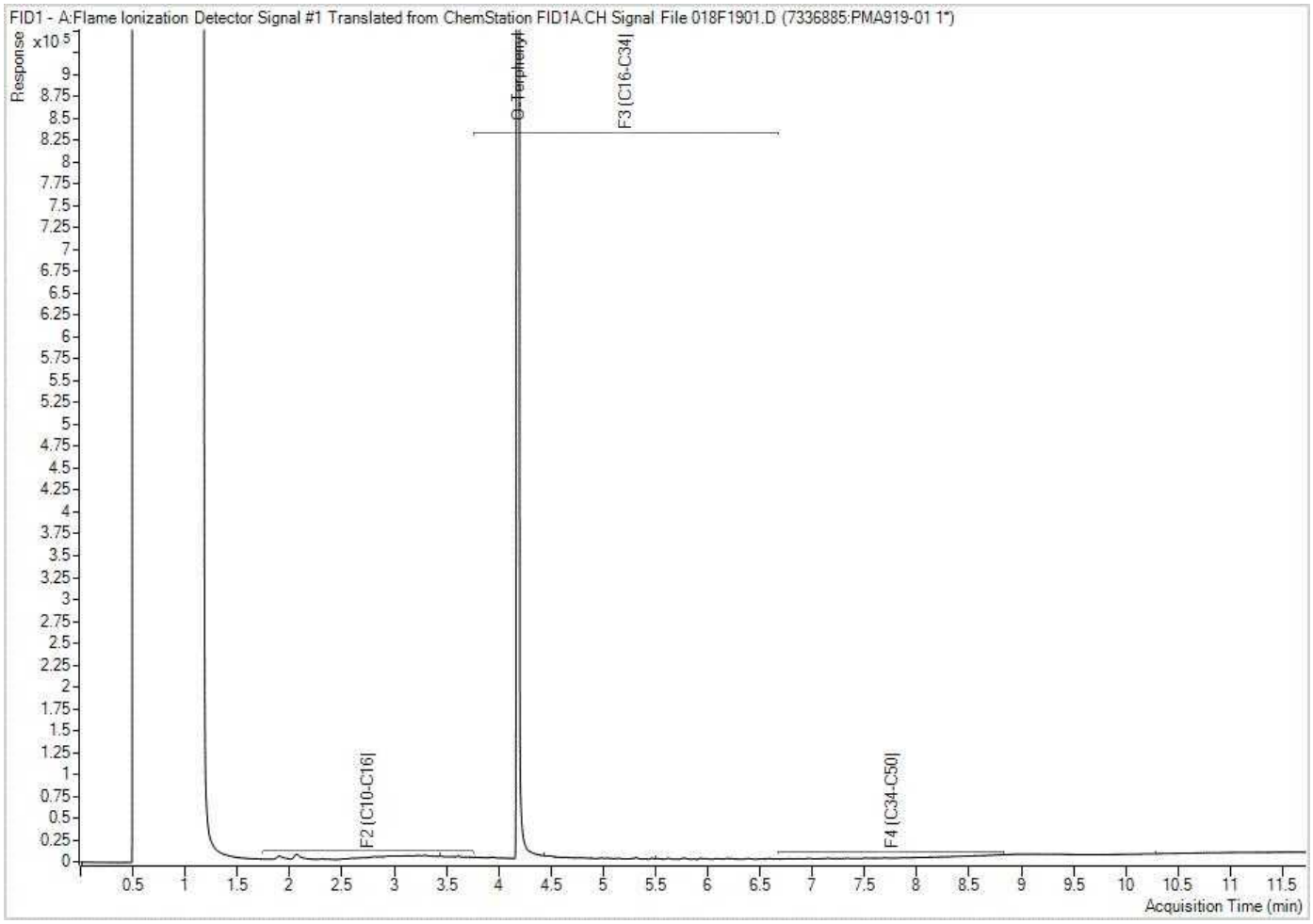


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B8527
Report Date: 2021/05/10
BV Labs Sample: PMA919

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW116 SS-7

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

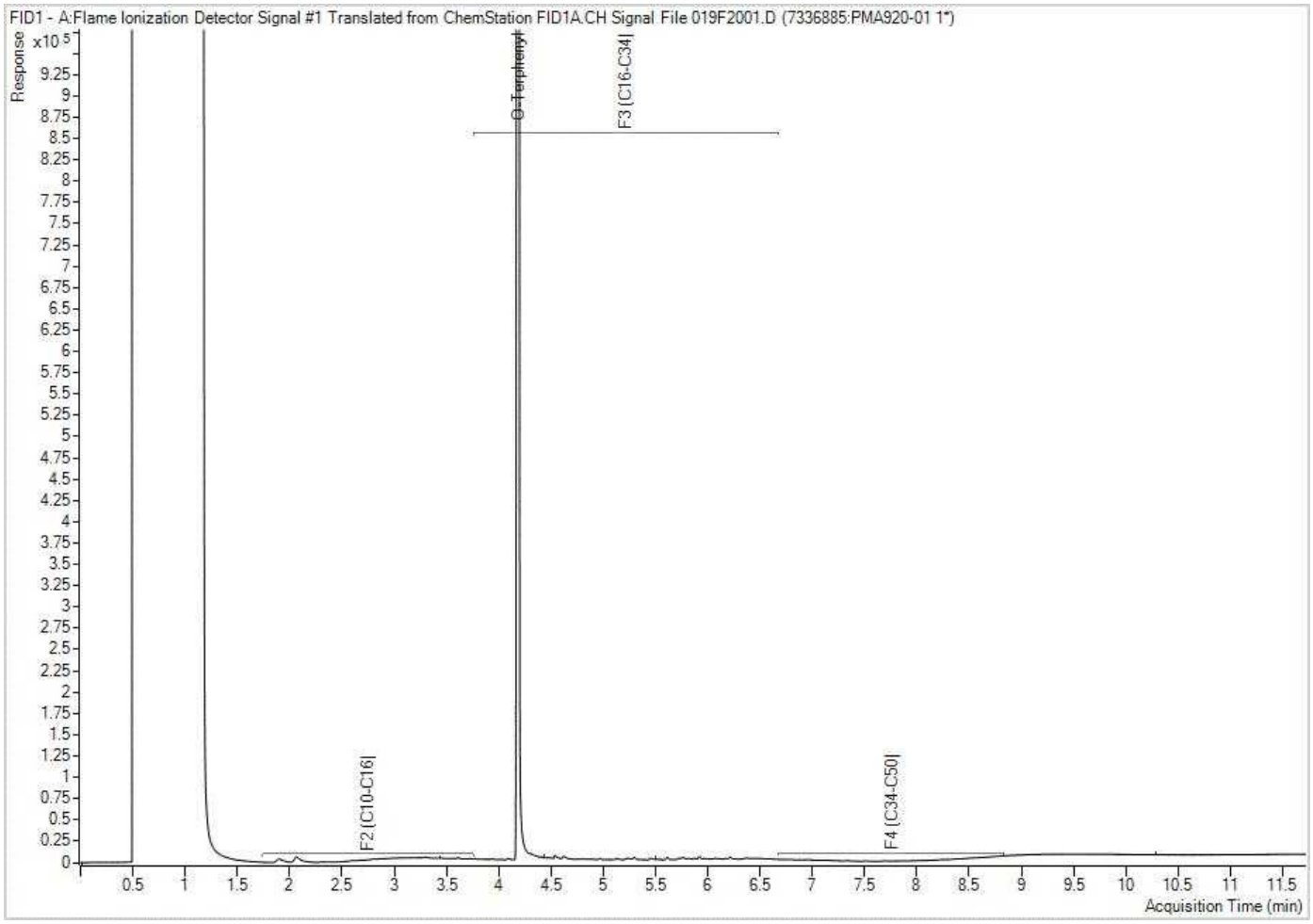


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B8527
Report Date: 2021/05/10
BV Labs Sample: PMA920

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW117 SS-3

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

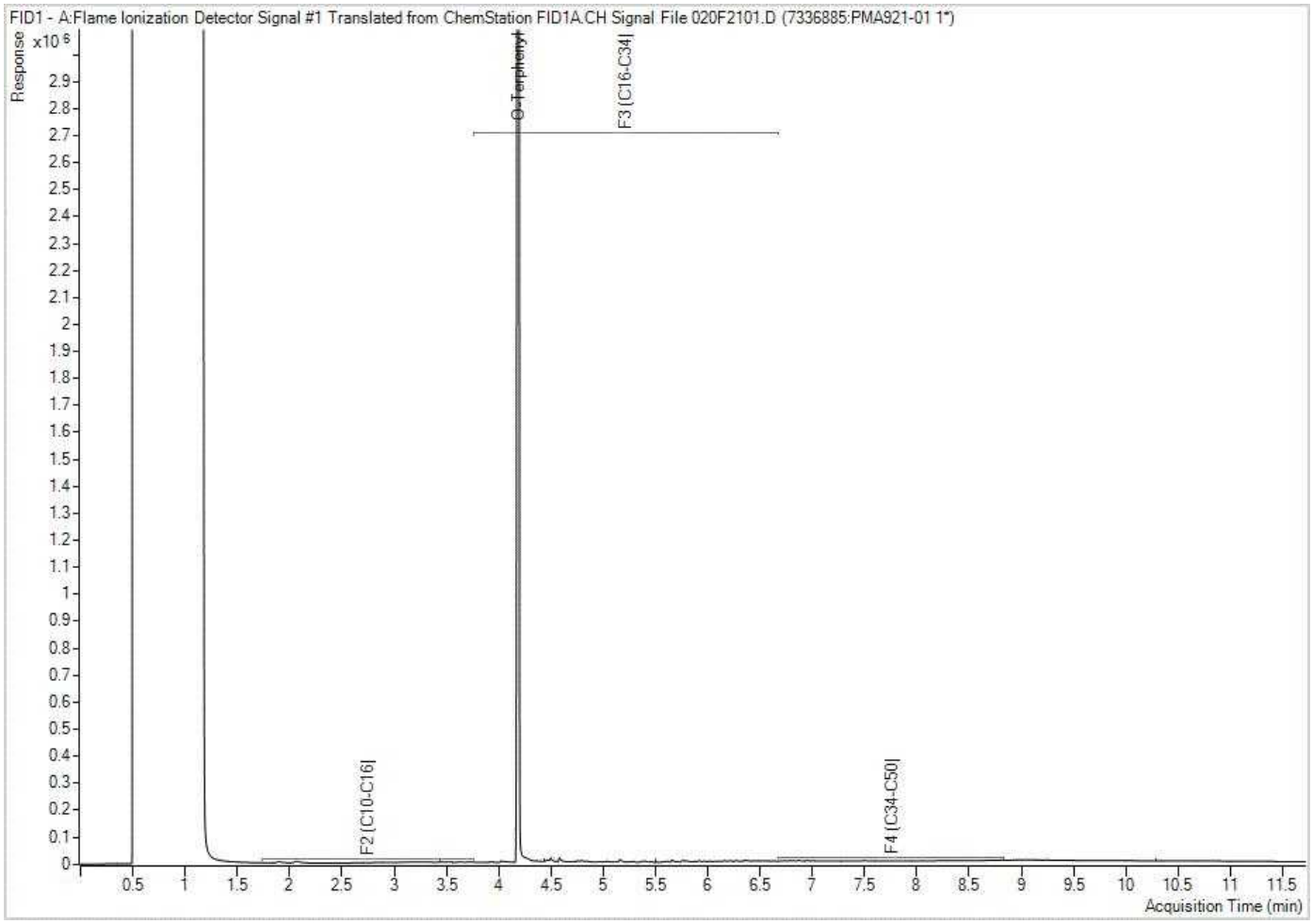


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B8527
Report Date: 2021/05/10
BV Labs Sample: PMA921

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW118 SS-2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

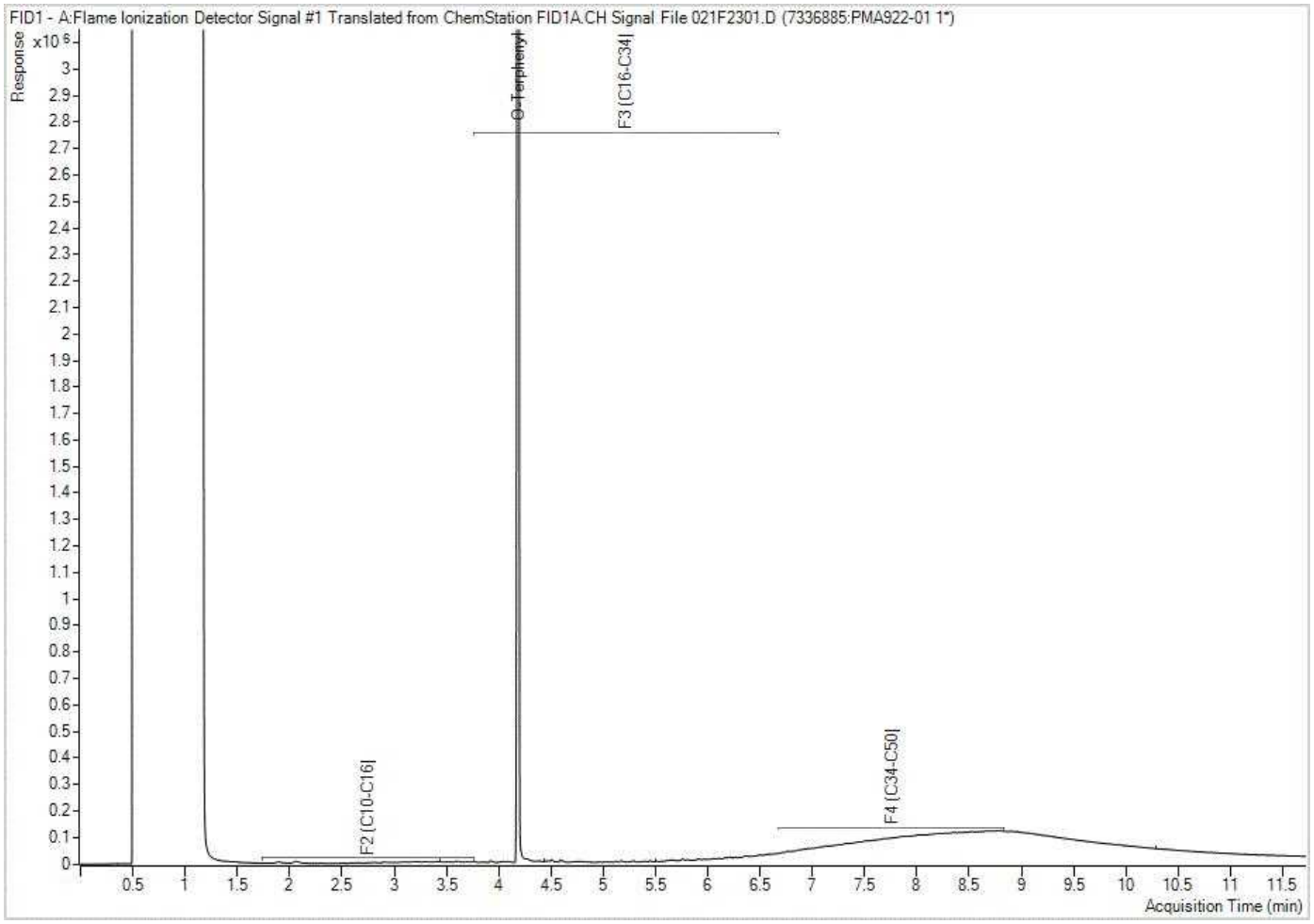


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1B8527
Report Date: 2021/05/10
BV Labs Sample: PMA922

Pinchin Ltd
Client Project #: 285722.003
Client ID: DUP-3

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 #: 285722.003
Your C.O.C. #: 770951-30-01

Attention: Matt, Ryan, Mike

Pinchin Ltd
Ottawa
1 Hines Road
Suite 200
Kanata, ON
CANADA K2K 3C7

Report Date: 2021/06/08
Report #: R6667623
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1E5924
Received: 2021/05/28, 12:45

Sample Matrix: Soil
Samples Received: 9

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum (1)	7	N/A	2021/06/04	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum (1)	4	N/A	2021/06/02		EPA 8260C m
1,3-Dichloropropene Sum (1)	1	N/A	2021/06/08		EPA 8260C m
Conductivity (1)	3	2021/06/03	2021/06/03	CAM SOP-00414	OMOE E3530 v1 m
Petroleum Hydro. CCME F1 & BTEX in Soil (1, 2)	2	N/A	2021/06/02	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (1, 3)	7	2021/06/02	2021/06/02	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS (1)	5	2021/06/02	2021/06/02	CAM SOP-00447	EPA 6020B m
Moisture (1)	7	N/A	2021/05/31	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture (1)	1	N/A	2021/06/07	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM) (1)	7	2021/06/02	2021/06/03	CAM SOP-00318	EPA 8270D m
Polychlorinated Biphenyl in Soil (1)	2	2021/06/02	2021/06/03	CAM SOP-00309	EPA 8082A m
Sodium Adsorption Ratio (SAR) (1)	3	N/A	2021/06/03	CAM SOP-00102	EPA 6010C
Volatile Organic Compounds and F1 PHCs (1)	4	N/A	2021/06/01	CAM SOP-00230	EPA 8260C m
Volatile Organic Compounds and F1 PHCs (1)	1	N/A	2021/06/08	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

Your Project #: 285722.003
Your C.O.C. #: 770951-30-01

Attention: Matt, Ryan, Mike

Pinchin Ltd
Ottawa
1 Hines Road
Suite 200
Kanata, ON
CANADA K2K 3C7

Report Date: 2021/06/08
Report #: R6667623
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1E5924
Received: 2021/05/28, 12:45

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

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) This test was performed by Bureau Veritas Mississauga
(2) 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.
(3) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas Laboratories 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

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
==========
BV Labs 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.

O.REG 153 ICPMS METALS (SOIL)

BV Labs ID		PRS146	PRS147	PRS148	PRS149	PRS150		
Sampling Date		2021/05/25	2021/05/25	2021/05/25	2021/05/25	2021/05/25		
COC Number		770951-30-01	770951-30-01	770951-30-01	770951-30-01	770951-30-01		
	UNITS	BHMW122SS-6	BHMW122SS-8	BHMW123SS-5	BHMW124SS-1	BHMW124SS-8	RDL	QC Batch
Metals								
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	<0.20	0.68	<0.20	0.20	7383983
Acid Extractable Arsenic (As)	ug/g	<1.0	<1.0	<1.0	3.3	<1.0	1.0	7383983
Acid Extractable Barium (Ba)	ug/g	290	54	51	85	380	0.50	7383983
Acid Extractable Beryllium (Be)	ug/g	0.80	<0.20	0.21	0.37	0.80	0.20	7383983
Acid Extractable Boron (B)	ug/g	7.9	<5.0	<5.0	7.4	10	5.0	7383983
Acid Extractable Cadmium (Cd)	ug/g	0.11	<0.10	<0.10	0.61	0.18	0.10	7383983
Acid Extractable Chromium (Cr)	ug/g	57	11	21	21	70	1.0	7383983
Acid Extractable Cobalt (Co)	ug/g	16	4.3	6.6	7.2	18	0.10	7383983
Acid Extractable Copper (Cu)	ug/g	33	9.2	13	23	38	0.50	7383983
Acid Extractable Lead (Pb)	ug/g	6.5	2.7	2.7	80	7.2	1.0	7383983
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	<0.50	<0.50	0.86	0.79	0.50	7383983
Acid Extractable Nickel (Ni)	ug/g	34	7.2	15	18	40	0.50	7383983
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7383983
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7383983
Acid Extractable Thallium (Tl)	ug/g	0.35	0.064	0.15	0.20	0.45	0.050	7383983
Acid Extractable Uranium (U)	ug/g	0.63	0.77	0.61	0.54	0.97	0.050	7383983
Acid Extractable Vanadium (V)	ug/g	81	21	57	37	91	5.0	7383983
Acid Extractable Zinc (Zn)	ug/g	93	13	40	130	110	5.0	7383983
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	<0.050	0.066	<0.050	0.050	7383983

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 PAHS (SOIL)

BV Labs ID		PRS144		PRS145			PRS145		
Sampling Date		2021/05/25		2021/05/25			2021/05/25		
COC Number		770951-30-01		770951-30-01			770951-30-01		
	UNITS	BH121SS-1	QC Batch	DUP101	RDL	QC Batch	DUP101 Lab-Dup	RDL	QC Batch
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	7379608	<0.0071	0.0071	7379976			
Polyaromatic Hydrocarbons									
Acenaphthene	ug/g	<0.0050	7386229	<0.0050	0.0050	7386229	<0.0050	0.0050	7386229
Acenaphthylene	ug/g	<0.0050	7386229	<0.0050	0.0050	7386229	<0.0050	0.0050	7386229
Anthracene	ug/g	0.0051	7386229	<0.0050	0.0050	7386229	0.0082	0.0050	7386229
Benzo(a)anthracene	ug/g	0.029	7386229	0.019	0.0050	7386229	0.054 (1)	0.0050	7386229
Benzo(a)pyrene	ug/g	0.029	7386229	0.021	0.0050	7386229	0.053 (1)	0.0050	7386229
Benzo(b/j)fluoranthene	ug/g	0.038	7386229	0.026	0.0050	7386229	0.065 (1)	0.0050	7386229
Benzo(g,h,i)perylene	ug/g	0.017	7386229	0.013	0.0050	7386229	0.035 (1)	0.0050	7386229
Benzo(k)fluoranthene	ug/g	0.013	7386229	0.0091	0.0050	7386229	0.022 (1)	0.0050	7386229
Chrysene	ug/g	0.026	7386229	0.017	0.0050	7386229	0.044 (1)	0.0050	7386229
Dibenzo(a,h)anthracene	ug/g	<0.0050	7386229	<0.0050	0.0050	7386229	0.0074	0.0050	7386229
Fluoranthene	ug/g	0.058	7386229	0.036	0.0050	7386229	0.10 (1)	0.0050	7386229
Fluorene	ug/g	<0.0050	7386229	<0.0050	0.0050	7386229	<0.0050	0.0050	7386229
Indeno(1,2,3-cd)pyrene	ug/g	0.020	7386229	0.014	0.0050	7386229	0.039 (1)	0.0050	7386229
1-Methylnaphthalene	ug/g	<0.0050	7386229	<0.0050	0.0050	7386229	<0.0050	0.0050	7386229
2-Methylnaphthalene	ug/g	<0.0050	7386229	<0.0050	0.0050	7386229	<0.0050	0.0050	7386229
Naphthalene	ug/g	<0.0050	7386229	<0.0050	0.0050	7386229	<0.0050	0.0050	7386229
Phenanthrene	ug/g	0.024	7386229	0.015	0.0050	7386229	0.031 (1)	0.0050	7386229
Pyrene	ug/g	0.049	7386229	0.035	0.0050	7386229	0.087 (1)	0.0050	7386229
Surrogate Recovery (%)									
D10-Anthracene	%	92	7386229	83		7386229	93		7386229
D14-Terphenyl (FS)	%	85	7386229	80		7386229	80		7386229
D8-Acenaphthylene	%	80	7386229	76		7386229	82		7386229

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

O.REG 153 PAHS (SOIL)

BV Labs ID		PRS146		PRS147	PRS148	PRS149	PRS150		
Sampling Date		2021/05/25		2021/05/25	2021/05/25	2021/05/25	2021/05/25		
COC Number		770951-30-01		770951-30-01	770951-30-01	770951-30-01	770951-30-01		
	UNITS	BHMW122SS-6	RDL	BHMW122SS-8	BHMW123SS-5	BHMW124SS-1	BHMW124SS-8	RDL	QC Batch
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	0.0071	<0.0071	<0.0071	0.073	<0.0071	0.0071	7379608
Polyaromatic Hydrocarbons									
Acenaphthene	ug/g	0.085	0.0050	<0.0050	<0.0050	0.042	<0.0050	0.0050	7386229
Acenaphthylene	ug/g	<0.010 (1)	0.010	<0.0050	<0.0050	0.034	<0.0050	0.0050	7386229
Anthracene	ug/g	0.032	0.0050	<0.0050	<0.0050	0.13	<0.0050	0.0050	7386229
Benzo(a)anthracene	ug/g	<0.0050	0.0050	<0.0050	<0.0050	0.45	<0.0050	0.0050	7386229
Benzo(a)pyrene	ug/g	<0.0050	0.0050	<0.0050	<0.0050	0.42	<0.0050	0.0050	7386229
Benzo(b/j)fluoranthene	ug/g	<0.0050	0.0050	<0.0050	<0.0050	0.56	<0.0050	0.0050	7386229
Benzo(g,h,i)perylene	ug/g	<0.0050	0.0050	<0.0050	<0.0050	0.29	<0.0050	0.0050	7386229
Benzo(k)fluoranthene	ug/g	<0.0050	0.0050	<0.0050	<0.0050	0.20	<0.0050	0.0050	7386229
Chrysene	ug/g	<0.0050	0.0050	<0.0050	<0.0050	0.39	<0.0050	0.0050	7386229
Dibenzo(a,h)anthracene	ug/g	<0.0050	0.0050	<0.0050	<0.0050	0.071	<0.0050	0.0050	7386229
Fluoranthene	ug/g	0.014	0.0050	<0.0050	<0.0050	0.84	<0.0050	0.0050	7386229
Fluorene	ug/g	<0.030 (1)	0.030	<0.0050	<0.0050	0.048	<0.0050	0.0050	7386229
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	0.0050	<0.0050	<0.0050	0.32	<0.0050	0.0050	7386229
1-Methylnaphthalene	ug/g	<0.0050	0.0050	<0.0050	<0.0050	0.033	<0.0050	0.0050	7386229
2-Methylnaphthalene	ug/g	<0.0050	0.0050	<0.0050	<0.0050	0.040	<0.0050	0.0050	7386229
Naphthalene	ug/g	<0.030 (1)	0.030	<0.0050	<0.0050	0.041	<0.0050	0.0050	7386229
Phenanthrene	ug/g	0.038	0.0050	<0.0050	<0.0050	0.53	<0.0050	0.0050	7386229
Pyrene	ug/g	0.018	0.0050	<0.0050	<0.0050	0.72	<0.0050	0.0050	7386229
Surrogate Recovery (%)									
D10-Anthracene	%	90		99	94	88	93		7386229
D14-Terphenyl (FS)	%	92		95	91	82	89		7386229
D8-Acenaphthylene	%	79		89	76	73	85		7386229

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Detection Limit was raised due to matrix interferences.

O.REG 153 PCBS (SOIL)

BV Labs ID		PRS144	PRS145		
Sampling Date		2021/05/25	2021/05/25		
COC Number		770951-30-01	770951-30-01		
	UNITS	BH121SS-1	DUP101	RDL	QC Batch
PCBs					
Aroclor 1242	ug/g	<0.010	<0.010	0.010	7385541
Aroclor 1248	ug/g	<0.010	<0.010	0.010	7385541
Aroclor 1254	ug/g	<0.010	<0.010	0.010	7385541
Aroclor 1260	ug/g	<0.010	<0.010	0.010	7385541
Total PCB	ug/g	<0.010	<0.010	0.010	7385541
Surrogate Recovery (%)					
Decachlorobiphenyl	%	93	91		7385541

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

BV Labs ID		PRS144	PRS145		
Sampling Date		2021/05/25	2021/05/25		
COC Number		770951-30-01	770951-30-01		
	UNITS	BH121SS-1	DUP101	RDL	QC Batch
Inorganics					
Moisture	%	16	19	1.0	7380588
BTEX & F1 Hydrocarbons					
Benzene	ug/g	<0.020	<0.020	0.020	7385266
Toluene	ug/g	<0.020	<0.020	0.020	7385266
Ethylbenzene	ug/g	<0.020	<0.020	0.020	7385266
o-Xylene	ug/g	<0.020	<0.020	0.020	7385266
p+m-Xylene	ug/g	<0.040	<0.040	0.040	7385266
Total Xylenes	ug/g	<0.040	<0.040	0.040	7385266
F1 (C6-C10)	ug/g	<10	<10	10	7385266
F1 (C6-C10) - BTEX	ug/g	<10	<10	10	7385266
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	10	7385429
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	50	7385429
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	50	7385429
Reached Baseline at C50	ug/g	Yes	Yes		7385429
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	99	98		7385266
4-Bromofluorobenzene	%	99	96		7385266
D10-o-Xylene	%	108	110		7385266
D4-1,2-Dichloroethane	%	105	105		7385266
o-Terphenyl	%	87	87		7385429

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

BV Labs ID		PRS146	PRS147	PRS148			PRS149		
Sampling Date		2021/05/25	2021/05/25	2021/05/25			2021/05/25		
COC Number		770951-30-01	770951-30-01	770951-30-01			770951-30-01		
	UNITS	BHMW122SS-6	BHMW122SS-8	BHMW123SS-5	RDL	QC Batch	BHMW124SS-1	RDL	QC Batch
Inorganics									
Moisture	%	28	10	4.7	1.0	7380588	9.2	1.0	7380588
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	<0.050	0.050	7379671			
Volatile Organics									
Acetone (2-Propanone)	ug/g	<0.50	<0.50	<0.50	0.50	7380399			
Benzene	ug/g	<0.020	<0.020	<0.020	0.020	7380399			
Bromodichloromethane	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
Bromoform	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
Bromomethane	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
Carbon Tetrachloride	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
Chlorobenzene	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
Chloroform	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
Dibromochloromethane	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
1,2-Dichlorobenzene	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
1,3-Dichlorobenzene	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
1,4-Dichlorobenzene	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
Dichlorodifluoromethane (FREON 12)	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
1,1-Dichloroethane	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
1,2-Dichloroethane	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
1,1-Dichloroethylene	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
cis-1,2-Dichloroethylene	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
trans-1,2-Dichloroethylene	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
1,2-Dichloropropane	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	<0.030	0.030	7380399			
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	<0.040	0.040	7380399			
Ethylbenzene	ug/g	<0.020	<0.020	<0.020	0.020	7380399			
Ethylene Dibromide	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
Hexane	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
Methylene Chloride(Dichloromethane)	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.50	<0.50	<0.50	0.50	7380399			
Methyl Isobutyl Ketone	ug/g	<0.50	<0.50	<0.50	0.50	7380399			
Methyl t-butyl ether (MTBE)	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
Styrene	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
1,1,1,2-Tetrachloroethane	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
1,1,2,2-Tetrachloroethane	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
Tetrachloroethylene	ug/g	<0.050	<0.050	<0.050	0.050	7380399			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

BV Labs ID		PRS146	PRS147	PRS148			PRS149		
Sampling Date		2021/05/25	2021/05/25	2021/05/25			2021/05/25		
COC Number		770951-30-01	770951-30-01	770951-30-01			770951-30-01		
	UNITS	BHMW122SS-6	BHMW122SS-8	BHMW123SS-5	RDL	QC Batch	BHMW124SS-1	RDL	QC Batch
Toluene	ug/g	<0.020	<0.020	<0.020	0.020	7380399			
1,1,1-Trichloroethane	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
1,1,2-Trichloroethane	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
Trichloroethylene	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
Trichlorofluoromethane (FREON 11)	ug/g	<0.050	<0.050	<0.050	0.050	7380399			
Vinyl Chloride	ug/g	<0.020	<0.020	<0.020	0.020	7380399			
p+m-Xylene	ug/g	<0.020	<0.020	<0.020	0.020	7380399			
o-Xylene	ug/g	<0.020	<0.020	<0.020	0.020	7380399			
Total Xylenes	ug/g	<0.020	<0.020	<0.020	0.020	7380399			
F1 (C6-C10)	ug/g	<10	<10	<10	10	7380399			
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	10	7380399			
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/g	180	<10	<10	10	7385429	<10	10	7385429
F3 (C16-C34 Hydrocarbons)	ug/g	220	<50	59	50	7385429	150	50	7385429
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	50	7385429	100	50	7385429
Reached Baseline at C50	ug/g	Yes	Yes	Yes		7385429	Yes		7385429
Surrogate Recovery (%)									
o-Terphenyl	%	90	87	88		7385429	84		7385429
4-Bromofluorobenzene	%	98	98	97		7380399			
D10-o-Xylene	%	84	86	80		7380399			
D4-1,2-Dichloroethane	%	100	99	99		7380399			
D8-Toluene	%	102	102	102		7380399			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

BV Labs ID		PRS150			PRS150		
Sampling Date		2021/05/25			2021/05/25		
COC Number		770951-30-01			770951-30-01		
	UNITS	BHMW124SS-8	RDL	QC Batch	BHMW124SS-8 Lab-Dup	RDL	QC Batch
Inorganics							
Moisture	%	36	1.0	7380588	37	1.0	7380588
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	0.050	7379671			
Volatile Organics							
Acetone (2-Propanone)	ug/g	<0.50	0.50	7380399			
Benzene	ug/g	<0.020	0.020	7380399			
Bromodichloromethane	ug/g	<0.050	0.050	7380399			
Bromoform	ug/g	<0.050	0.050	7380399			
Bromomethane	ug/g	<0.050	0.050	7380399			
Carbon Tetrachloride	ug/g	<0.050	0.050	7380399			
Chlorobenzene	ug/g	<0.050	0.050	7380399			
Chloroform	ug/g	<0.050	0.050	7380399			
Dibromochloromethane	ug/g	<0.050	0.050	7380399			
1,2-Dichlorobenzene	ug/g	<0.050	0.050	7380399			
1,3-Dichlorobenzene	ug/g	<0.050	0.050	7380399			
1,4-Dichlorobenzene	ug/g	<0.050	0.050	7380399			
Dichlorodifluoromethane (FREON 12)	ug/g	<0.050	0.050	7380399			
1,1-Dichloroethane	ug/g	<0.050	0.050	7380399			
1,2-Dichloroethane	ug/g	<0.050	0.050	7380399			
1,1-Dichloroethylene	ug/g	<0.050	0.050	7380399			
cis-1,2-Dichloroethylene	ug/g	<0.050	0.050	7380399			
trans-1,2-Dichloroethylene	ug/g	<0.050	0.050	7380399			
1,2-Dichloropropane	ug/g	<0.050	0.050	7380399			
cis-1,3-Dichloropropene	ug/g	<0.030	0.030	7380399			
trans-1,3-Dichloropropene	ug/g	<0.040	0.040	7380399			
Ethylbenzene	ug/g	<0.020	0.020	7380399			
Ethylene Dibromide	ug/g	<0.050	0.050	7380399			
Hexane	ug/g	<0.050	0.050	7380399			
Methylene Chloride(Dichloromethane)	ug/g	<0.050	0.050	7380399			
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.50	0.50	7380399			
Methyl Isobutyl Ketone	ug/g	<0.50	0.50	7380399			
Methyl t-butyl ether (MTBE)	ug/g	<0.050	0.050	7380399			
Styrene	ug/g	<0.050	0.050	7380399			
1,1,1,2-Tetrachloroethane	ug/g	<0.050	0.050	7380399			
1,1,2,2-Tetrachloroethane	ug/g	<0.050	0.050	7380399			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

BV Labs ID		PRS150			PRS150		
Sampling Date		2021/05/25			2021/05/25		
COC Number		770951-30-01			770951-30-01		
	UNITS	BHMW124SS-8	RDL	QC Batch	BHMW124SS-8 Lab-Dup	RDL	QC Batch
Tetrachloroethylene	ug/g	<0.050	0.050	7380399			
Toluene	ug/g	<0.020	0.020	7380399			
1,1,1-Trichloroethane	ug/g	<0.050	0.050	7380399			
1,1,2-Trichloroethane	ug/g	<0.050	0.050	7380399			
Trichloroethylene	ug/g	<0.050	0.050	7380399			
Trichlorofluoromethane (FREON 11)	ug/g	<0.050	0.050	7380399			
Vinyl Chloride	ug/g	<0.020	0.020	7380399			
p+m-Xylene	ug/g	<0.020	0.020	7380399			
o-Xylene	ug/g	<0.020	0.020	7380399			
Total Xylenes	ug/g	<0.020	0.020	7380399			
F1 (C6-C10)	ug/g	<10	10	7380399			
F1 (C6-C10) - BTEX	ug/g	<10	10	7380399			
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	7385429			
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	7385429			
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	7385429			
Reached Baseline at C50	ug/g	Yes		7385429			
Surrogate Recovery (%)							
o-Terphenyl	%	89		7385429			
4-Bromofluorobenzene	%	97		7380399			
D10-o-Xylene	%	86		7380399			
D4-1,2-Dichloroethane	%	100		7380399			
D8-Toluene	%	102		7380399			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

RESULTS OF ANALYSES OF SOIL

BV Labs ID		PRS149	PRS150	PRS151		PRS151		
Sampling Date		2021/05/25	2021/05/25	2021/05/25		2021/05/25		
COC Number		770951-30-01	770951-30-01	770951-30-01		770951-30-01		
	UNITS	BHMW124SS-1	BHMW124SS-8	DUP102	QC Batch	DUP102 Lab-Dup	RDL	QC Batch
Calculated Parameters								
Sodium Adsorption Ratio	N/A	5.6	3.5	6.3	7379609			
Inorganics								
Conductivity	mS/cm	0.31	2.1	0.35	7386491	0.34	0.002	7386491

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

BV Labs ID		PTN419		
Sampling Date				
COC Number		770951-30-01		
	UNITS	BHMW124SS-1B	RDL	QC Batch
Inorganics				
Moisture	%	11	1.0	7393385

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (SOIL)

BV Labs ID		PTN419		
Sampling Date				
COC Number		770951-30-01		
	UNITS	BHMW124SS-1B	RDL	QC Batch
Calculated Parameters				
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	0.050	7392558
Volatile Organics				
Acetone (2-Propanone)	ug/g	<0.50	0.50	7392392
Benzene	ug/g	<0.020	0.020	7392392
Bromodichloromethane	ug/g	<0.050	0.050	7392392
Bromoform	ug/g	<0.050	0.050	7392392
Bromomethane	ug/g	<0.050	0.050	7392392
Carbon Tetrachloride	ug/g	<0.050	0.050	7392392
Chlorobenzene	ug/g	<0.050	0.050	7392392
Chloroform	ug/g	<0.050	0.050	7392392
Dibromochloromethane	ug/g	<0.050	0.050	7392392
1,2-Dichlorobenzene	ug/g	<0.050	0.050	7392392
1,3-Dichlorobenzene	ug/g	<0.050	0.050	7392392
1,4-Dichlorobenzene	ug/g	<0.050	0.050	7392392
Dichlorodifluoromethane (FREON 12)	ug/g	<0.050	0.050	7392392
1,1-Dichloroethane	ug/g	<0.050	0.050	7392392
1,2-Dichloroethane	ug/g	<0.050	0.050	7392392
1,1-Dichloroethylene	ug/g	<0.050	0.050	7392392
cis-1,2-Dichloroethylene	ug/g	<0.050	0.050	7392392
trans-1,2-Dichloroethylene	ug/g	<0.050	0.050	7392392
1,2-Dichloropropane	ug/g	<0.050	0.050	7392392
cis-1,3-Dichloropropene	ug/g	<0.030	0.030	7392392
trans-1,3-Dichloropropene	ug/g	<0.040	0.040	7392392
Ethylbenzene	ug/g	<0.020	0.020	7392392
Ethylene Dibromide	ug/g	<0.050	0.050	7392392
Hexane	ug/g	<0.050	0.050	7392392
Methylene Chloride(Dichloromethane)	ug/g	<0.050	0.050	7392392
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.50	0.50	7392392
Methyl Isobutyl Ketone	ug/g	<0.50	0.50	7392392
Methyl t-butyl ether (MTBE)	ug/g	<0.050	0.050	7392392
Styrene	ug/g	<0.050	0.050	7392392
1,1,1,2-Tetrachloroethane	ug/g	<0.050	0.050	7392392
1,1,2,2-Tetrachloroethane	ug/g	<0.050	0.050	7392392
Tetrachloroethylene	ug/g	<0.050	0.050	7392392
Toluene	ug/g	0.052	0.020	7392392
1,1,1-Trichloroethane	ug/g	<0.050	0.050	7392392

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (SOIL)

BV Labs ID		PTN419		
Sampling Date				
COC Number		770951-30-01		
	UNITS	BHMW124SS-1B	RDL	QC Batch
1,1,2-Trichloroethane	ug/g	<0.050	0.050	7392392
Trichloroethylene	ug/g	<0.050	0.050	7392392
Trichlorofluoromethane (FREON 11)	ug/g	<0.050	0.050	7392392
Vinyl Chloride	ug/g	<0.020	0.020	7392392
p+m-Xylene	ug/g	0.037	0.020	7392392
o-Xylene	ug/g	0.024	0.020	7392392
Total Xylenes	ug/g	0.061	0.020	7392392
F1 (C6-C10)	ug/g	<10	10	7392392
F1 (C6-C10) - BTEX	ug/g	<10	10	7392392
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	96		7392392
D10-o-Xylene	%	78		7392392
D4-1,2-Dichloroethane	%	94		7392392
D8-Toluene	%	102		7392392

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

TEST SUMMARY

BV Labs ID: PRS144
Sample ID: BH121SS-1
Matrix: Soil

Collected: 2021/05/25
Shipped:
Received: 2021/05/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7379608	N/A	2021/06/04	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7385266	N/A	2021/06/02	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7385429	2021/06/02	2021/06/02	Jeevaraj Jeevaratrnam
Moisture	BAL	7380588	N/A	2021/05/31	Gurpreet Kaur (ONT)
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7386229	2021/06/02	2021/06/03	Mitesh Raj
Polychlorinated Biphenyl in Soil	GC/ECD	7385541	2021/06/02	2021/06/03	Dawn Howard

BV Labs ID: PRS145
Sample ID: DUP101
Matrix: Soil

Collected: 2021/05/25
Shipped:
Received: 2021/05/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7379976	N/A	2021/06/04	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7385266	N/A	2021/06/02	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7385429	2021/06/02	2021/06/02	Jeevaraj Jeevaratrnam
Moisture	BAL	7380588	N/A	2021/05/31	Gurpreet Kaur (ONT)
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7386229	2021/06/02	2021/06/03	Mitesh Raj
Polychlorinated Biphenyl in Soil	GC/ECD	7385541	2021/06/02	2021/06/03	Dawn Howard

BV Labs ID: PRS145 Dup
Sample ID: DUP101
Matrix: Soil

Collected: 2021/05/25
Shipped:
Received: 2021/05/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7386229	2021/06/02	2021/06/03	Mitesh Raj

BV Labs ID: PRS146
Sample ID: BHMW122SS-6
Matrix: Soil

Collected: 2021/05/25
Shipped:
Received: 2021/05/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7379608	N/A	2021/06/04	Automated Statchk
1,3-Dichloropropene Sum	CALC	7379671	N/A	2021/06/02	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7385429	2021/06/02	2021/06/02	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	7383983	2021/06/02	2021/06/02	Daniel Teclu
Moisture	BAL	7380588	N/A	2021/05/31	Gurpreet Kaur (ONT)
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7386229	2021/06/02	2021/06/03	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7380399	N/A	2021/06/01	Manpreet Sarao

BV Labs ID: PRS147
Sample ID: BHMW122SS-8
Matrix: Soil

Collected: 2021/05/25
Shipped:
Received: 2021/05/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7379608	N/A	2021/06/04	Automated Statchk
1,3-Dichloropropene Sum	CALC	7379671	N/A	2021/06/02	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7385429	2021/06/02	2021/06/02	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	7383983	2021/06/02	2021/06/02	Daniel Teclu

TEST SUMMARY

BV Labs ID: PRS147
Sample ID: BHMW122SS-8
Matrix: Soil

Collected: 2021/05/25
Shipped:
Received: 2021/05/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7380588	N/A	2021/05/31	Gurpreet Kaur (ONT)
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7386229	2021/06/02	2021/06/03	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7380399	N/A	2021/06/01	Manpreet Sarao

BV Labs ID: PRS148
Sample ID: BHMW123SS-5
Matrix: Soil

Collected: 2021/05/25
Shipped:
Received: 2021/05/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7379608	N/A	2021/06/04	Automated Statchk
1,3-Dichloropropene Sum	CALC	7379671	N/A	2021/06/02	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7385429	2021/06/02	2021/06/02	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	7383983	2021/06/02	2021/06/02	Daniel Teclu
Moisture	BAL	7380588	N/A	2021/05/31	Gurpreet Kaur (ONT)
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7386229	2021/06/02	2021/06/03	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7380399	N/A	2021/06/01	Manpreet Sarao

BV Labs ID: PRS149
Sample ID: BHMW124SS-1
Matrix: Soil

Collected: 2021/05/25
Shipped:
Received: 2021/05/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7379608	N/A	2021/06/04	Automated Statchk
Conductivity	AT	7386491	2021/06/03	2021/06/03	Khushbu Vijay kumar Patel
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7385429	2021/06/02	2021/06/02	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	7383983	2021/06/02	2021/06/02	Daniel Teclu
Moisture	BAL	7380588	N/A	2021/05/31	Gurpreet Kaur (ONT)
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7386229	2021/06/02	2021/06/03	Mitesh Raj
Sodium Adsorption Ratio (SAR)	CALC/MET	7379609	N/A	2021/06/03	Automated Statchk

BV Labs ID: PRS150
Sample ID: BHMW124SS-8
Matrix: Soil

Collected: 2021/05/25
Shipped:
Received: 2021/05/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7379608	N/A	2021/06/04	Automated Statchk
1,3-Dichloropropene Sum	CALC	7379671	N/A	2021/06/02	Automated Statchk
Conductivity	AT	7386491	2021/06/03	2021/06/03	Khushbu Vijay kumar Patel
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7385429	2021/06/02	2021/06/02	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	7383983	2021/06/02	2021/06/02	Daniel Teclu
Moisture	BAL	7380588	N/A	2021/05/31	Gurpreet Kaur (ONT)
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7386229	2021/06/02	2021/06/03	Mitesh Raj
Sodium Adsorption Ratio (SAR)	CALC/MET	7379609	N/A	2021/06/03	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7380399	N/A	2021/06/01	Manpreet Sarao

TEST SUMMARY

BV Labs ID: PRS150 Dup
Sample ID: BHMW124SS-8
Matrix: Soil

Collected: 2021/05/25
Shipped:
Received: 2021/05/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7380588	N/A	2021/05/31	Gurpreet Kaur (ONT)

BV Labs ID: PRS151
Sample ID: DUP102
Matrix: Soil

Collected: 2021/05/25
Shipped:
Received: 2021/05/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7386491	2021/06/03	2021/06/03	Khushbu Vijay kumar Patel
Sodium Adsorption Ratio (SAR)	CALC/MET	7379609	N/A	2021/06/03	Automated Statchk

BV Labs ID: PRS151 Dup
Sample ID: DUP102
Matrix: Soil

Collected: 2021/05/25
Shipped:
Received: 2021/05/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7386491	2021/06/03	2021/06/03	Khushbu Vijay kumar Patel

BV Labs ID: PTN419
Sample ID: BHMW124SS-1B
Matrix: Soil

Collected:
Shipped:
Received: 2021/05/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7392558	N/A	2021/06/08	Automated Statchk
Moisture	BAL	7393385	N/A	2021/06/07	Gurpreet Kaur (ONT)
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7392392	N/A	2021/06/08	Manpreet Sarao

GENERAL COMMENTS

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

Package 1	5.3°C

Cooler custody seal was present and intact.

Please note that there was gasoline contamination present in the methanol vial for sample BHMW124SS-1 and so VOCF1 was run from the opened jar and data for VOCF1 for sample BHMW124SS-1B is really data for sample BHMW124SS-1.

Sample PRS145 [DUP101] : PAH ANALYSIS: Duplicate results exceeded RPD acceptance criteria due to the sample heterogeneity. The variability in the results for flagged analytes may be more pronounced.

Sample PRS149 [BHMW124SS-1] : VOCF1 Analysis: Data was not reportable due to possible sample contamination.Re-work was intiated.

Sample PTN419 [BHMW124SS-1B] : VOCF1 Analysis: The soil samples were submitted in jars with headspace.

Results relate only to the items tested.

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7380399	MS4	Matrix Spike	4-Bromofluorobenzene	2021/06/01		100	%	60 - 140
			D10-o-Xylene	2021/06/01		84	%	60 - 130
			D4-1,2-Dichloroethane	2021/06/01		102	%	60 - 140
			D8-Toluene	2021/06/01		104	%	60 - 140
			Acetone (2-Propanone)	2021/06/01		90	%	60 - 140
			Benzene	2021/06/01		93	%	60 - 140
			Bromodichloromethane	2021/06/01		98	%	60 - 140
			Bromoform	2021/06/01		94	%	60 - 140
			Bromomethane	2021/06/01		92	%	60 - 140
			Carbon Tetrachloride	2021/06/01		99	%	60 - 140
			Chlorobenzene	2021/06/01		97	%	60 - 140
			Chloroform	2021/06/01		97	%	60 - 140
			Dibromochloromethane	2021/06/01		96	%	60 - 140
			1,2-Dichlorobenzene	2021/06/01		98	%	60 - 140
			1,3-Dichlorobenzene	2021/06/01		102	%	60 - 140
			1,4-Dichlorobenzene	2021/06/01		123	%	60 - 140
			Dichlorodifluoromethane (FREON 12)	2021/06/01		82	%	60 - 140
			1,1-Dichloroethane	2021/06/01		94	%	60 - 140
			1,2-Dichloroethane	2021/06/01		94	%	60 - 140
			1,1-Dichloroethylene	2021/06/01		96	%	60 - 140
			cis-1,2-Dichloroethylene	2021/06/01		98	%	60 - 140
			trans-1,2-Dichloroethylene	2021/06/01		99	%	60 - 140
			1,2-Dichloropropane	2021/06/01		95	%	60 - 140
			cis-1,3-Dichloropropene	2021/06/01		92	%	60 - 140
			trans-1,3-Dichloropropene	2021/06/01		102	%	60 - 140
			Ethylbenzene	2021/06/01		94	%	60 - 140
			Ethylene Dibromide	2021/06/01		95	%	60 - 140
			Hexane	2021/06/01		94	%	60 - 140
			Methylene Chloride(Dichloromethane)	2021/06/01		95	%	60 - 140
			Methyl Ethyl Ketone (2-Butanone)	2021/06/01		93	%	60 - 140
			Methyl Isobutyl Ketone	2021/06/01		89	%	60 - 140
			Methyl t-butyl ether (MTBE)	2021/06/01		88	%	60 - 140
			Styrene	2021/06/01		101	%	60 - 140
			1,1,1,2-Tetrachloroethane	2021/06/01		100	%	60 - 140
			1,1,2,2-Tetrachloroethane	2021/06/01		92	%	60 - 140
			Tetrachloroethylene	2021/06/01		97	%	60 - 140
			Toluene	2021/06/01		93	%	60 - 140
			1,1,1-Trichloroethane	2021/06/01		103	%	60 - 140
			1,1,2-Trichloroethane	2021/06/01		103	%	60 - 140
			Trichloroethylene	2021/06/01		105	%	60 - 140
			Trichlorofluoromethane (FREON 11)	2021/06/01		97	%	60 - 140
			Vinyl Chloride	2021/06/01		89	%	60 - 140
			p+m-Xylene	2021/06/01		97	%	60 - 140
			o-Xylene	2021/06/01		93	%	60 - 140
			F1 (C6-C10)	2021/06/01		93	%	60 - 140
7380399	MS4	Spiked Blank	4-Bromofluorobenzene	2021/06/01		101	%	60 - 140
			D10-o-Xylene	2021/06/01		87	%	60 - 130
			D4-1,2-Dichloroethane	2021/06/01		105	%	60 - 140
			D8-Toluene	2021/06/01		100	%	60 - 140
			Acetone (2-Propanone)	2021/06/01		93	%	60 - 140
			Benzene	2021/06/01		93	%	60 - 130
			Bromodichloromethane	2021/06/01		101	%	60 - 130
			Bromoform	2021/06/01		99	%	60 - 130
			Bromomethane	2021/06/01		93	%	60 - 140
			Carbon Tetrachloride	2021/06/01		97	%	60 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Chlorobenzene	2021/06/01		98	%	60 - 130
			Chloroform	2021/06/01		99	%	60 - 130
			Dibromochloromethane	2021/06/01		99	%	60 - 130
			1,2-Dichlorobenzene	2021/06/01		98	%	60 - 130
			1,3-Dichlorobenzene	2021/06/01		101	%	60 - 130
			1,4-Dichlorobenzene	2021/06/01		122	%	60 - 130
			Dichlorodifluoromethane (FREON 12)	2021/06/01		83	%	60 - 140
			1,1-Dichloroethane	2021/06/01		94	%	60 - 130
			1,2-Dichloroethane	2021/06/01		98	%	60 - 130
			1,1-Dichloroethylene	2021/06/01		94	%	60 - 130
			cis-1,2-Dichloroethylene	2021/06/01		99	%	60 - 130
			trans-1,2-Dichloroethylene	2021/06/01		98	%	60 - 130
			1,2-Dichloropropane	2021/06/01		97	%	60 - 130
			cis-1,3-Dichloropropene	2021/06/01		96	%	60 - 130
			trans-1,3-Dichloropropene	2021/06/01		106	%	60 - 130
			Ethylbenzene	2021/06/01		92	%	60 - 130
			Ethylene Dibromide	2021/06/01		99	%	60 - 130
			Hexane	2021/06/01		92	%	60 - 130
			Methylene Chloride(Dichloromethane)	2021/06/01		96	%	60 - 130
			Methyl Ethyl Ketone (2-Butanone)	2021/06/01		101	%	60 - 140
			Methyl Isobutyl Ketone	2021/06/01		99	%	60 - 130
			Methyl t-butyl ether (MTBE)	2021/06/01		92	%	60 - 130
			Styrene	2021/06/01		103	%	60 - 130
			1,1,1,2-Tetrachloroethane	2021/06/01		101	%	60 - 130
			1,1,2,2-Tetrachloroethane	2021/06/01		98	%	60 - 130
			Tetrachloroethylene	2021/06/01		94	%	60 - 130
			Toluene	2021/06/01		92	%	60 - 130
			1,1,1-Trichloroethane	2021/06/01		101	%	60 - 130
			1,1,2-Trichloroethane	2021/06/01		109	%	60 - 130
			Trichloroethylene	2021/06/01		105	%	60 - 130
			Trichlorofluoromethane (FREON 11)	2021/06/01		94	%	60 - 130
			Vinyl Chloride	2021/06/01		88	%	60 - 130
			p+m-Xylene	2021/06/01		95	%	60 - 130
			o-Xylene	2021/06/01		93	%	60 - 130
			F1 (C6-C10)	2021/06/01		99	%	80 - 120
7380399	MS4	Method Blank	4-Bromofluorobenzene	2021/06/01		98	%	60 - 140
			D10-o-Xylene	2021/06/01		88	%	60 - 130
			D4-1,2-Dichloroethane	2021/06/01		104	%	60 - 140
			D8-Toluene	2021/06/01		101	%	60 - 140
			Acetone (2-Propanone)	2021/06/01	<0.50		ug/g	
			Benzene	2021/06/01	<0.020		ug/g	
			Bromodichloromethane	2021/06/01	<0.050		ug/g	
			Bromoform	2021/06/01	<0.050		ug/g	
			Bromomethane	2021/06/01	<0.050		ug/g	
			Carbon Tetrachloride	2021/06/01	<0.050		ug/g	
			Chlorobenzene	2021/06/01	<0.050		ug/g	
			Chloroform	2021/06/01	<0.050		ug/g	
			Dibromochloromethane	2021/06/01	<0.050		ug/g	
			1,2-Dichlorobenzene	2021/06/01	<0.050		ug/g	
			1,3-Dichlorobenzene	2021/06/01	<0.050		ug/g	
			1,4-Dichlorobenzene	2021/06/01	<0.050		ug/g	
			Dichlorodifluoromethane (FREON 12)	2021/06/01	<0.050		ug/g	
			1,1-Dichloroethane	2021/06/01	<0.050		ug/g	
			1,2-Dichloroethane	2021/06/01	<0.050		ug/g	
			1,1-Dichloroethylene	2021/06/01	<0.050		ug/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			cis-1,2-Dichloroethylene	2021/06/01	<0.050		ug/g	
			trans-1,2-Dichloroethylene	2021/06/01	<0.050		ug/g	
			1,2-Dichloropropane	2021/06/01	<0.050		ug/g	
			cis-1,3-Dichloropropene	2021/06/01	<0.030		ug/g	
			trans-1,3-Dichloropropene	2021/06/01	<0.040		ug/g	
			Ethylbenzene	2021/06/01	<0.020		ug/g	
			Ethylene Dibromide	2021/06/01	<0.050		ug/g	
			Hexane	2021/06/01	<0.050		ug/g	
			Methylene Chloride(Dichloromethane)	2021/06/01	<0.050		ug/g	
			Methyl Ethyl Ketone (2-Butanone)	2021/06/01	<0.50		ug/g	
			Methyl Isobutyl Ketone	2021/06/01	<0.50		ug/g	
			Methyl t-butyl ether (MTBE)	2021/06/01	<0.050		ug/g	
			Styrene	2021/06/01	<0.050		ug/g	
			1,1,1,2-Tetrachloroethane	2021/06/01	<0.050		ug/g	
			1,1,2,2-Tetrachloroethane	2021/06/01	<0.050		ug/g	
			Tetrachloroethylene	2021/06/01	<0.050		ug/g	
			Toluene	2021/06/01	<0.020		ug/g	
			1,1,1-Trichloroethane	2021/06/01	<0.050		ug/g	
			1,1,2-Trichloroethane	2021/06/01	<0.050		ug/g	
			Trichloroethylene	2021/06/01	<0.050		ug/g	
			Trichlorofluoromethane (FREON 11)	2021/06/01	<0.050		ug/g	
			Vinyl Chloride	2021/06/01	<0.020		ug/g	
			p+m-Xylene	2021/06/01	<0.020		ug/g	
			o-Xylene	2021/06/01	<0.020		ug/g	
			Total Xylenes	2021/06/01	<0.020		ug/g	
			F1 (C6-C10)	2021/06/01	<10		ug/g	
			F1 (C6-C10) - BTEX	2021/06/01	<10		ug/g	
7380399	MS4	RPD	Acetone (2-Propanone)	2021/06/01	NC		%	50
			Benzene	2021/06/01	NC		%	50
			Bromodichloromethane	2021/06/01	NC		%	50
			Bromoform	2021/06/01	NC		%	50
			Bromomethane	2021/06/01	NC		%	50
			Carbon Tetrachloride	2021/06/01	NC		%	50
			Chlorobenzene	2021/06/01	NC		%	50
			Chloroform	2021/06/01	NC		%	50
			Dibromochloromethane	2021/06/01	NC		%	50
			1,2-Dichlorobenzene	2021/06/01	NC		%	50
			1,3-Dichlorobenzene	2021/06/01	NC		%	50
			1,4-Dichlorobenzene	2021/06/01	NC		%	50
			Dichlorodifluoromethane (FREON 12)	2021/06/01	NC		%	50
			1,1-Dichloroethane	2021/06/01	NC		%	50
			1,2-Dichloroethane	2021/06/01	NC		%	50
			1,1-Dichloroethylene	2021/06/01	NC		%	50
			cis-1,2-Dichloroethylene	2021/06/01	NC		%	50
			trans-1,2-Dichloroethylene	2021/06/01	NC		%	50
			1,2-Dichloropropane	2021/06/01	NC		%	50
			cis-1,3-Dichloropropene	2021/06/01	NC		%	50
			trans-1,3-Dichloropropene	2021/06/01	NC		%	50
			Ethylbenzene	2021/06/01	NC		%	50
			Ethylene Dibromide	2021/06/01	NC		%	50
			Hexane	2021/06/01	NC		%	50
			Methylene Chloride(Dichloromethane)	2021/06/01	NC		%	50
			Methyl Ethyl Ketone (2-Butanone)	2021/06/01	NC		%	50
			Methyl Isobutyl Ketone	2021/06/01	NC		%	50
			Methyl t-butyl ether (MTBE)	2021/06/01	NC		%	50

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Styrene	2021/06/01	NC		%	50
			1,1,1,2-Tetrachloroethane	2021/06/01	NC		%	50
			1,1,2,2-Tetrachloroethane	2021/06/01	NC		%	50
			Tetrachloroethylene	2021/06/01	NC		%	50
			Toluene	2021/06/01	NC		%	50
			1,1,1-Trichloroethane	2021/06/01	NC		%	50
			1,1,2-Trichloroethane	2021/06/01	NC		%	50
			Trichloroethylene	2021/06/01	NC		%	50
			Trichlorofluoromethane (FREON 11)	2021/06/01	NC		%	50
			Vinyl Chloride	2021/06/01	NC		%	50
			p+m-Xylene	2021/06/01	NC		%	50
			o-Xylene	2021/06/01	NC		%	50
			Total Xylenes	2021/06/01	NC		%	50
			F1 (C6-C10)	2021/06/01	NC		%	30
			F1 (C6-C10) - BTEX	2021/06/01	NC		%	30
7380588	MUC	RPD [PRS150-01]	Moisture	2021/05/31	2.2		%	20
7383983	DT1	Matrix Spike	Acid Extractable Antimony (Sb)	2021/06/02		88	%	75 - 125
			Acid Extractable Arsenic (As)	2021/06/02		96	%	75 - 125
			Acid Extractable Barium (Ba)	2021/06/02		NC	%	75 - 125
			Acid Extractable Beryllium (Be)	2021/06/02		100	%	75 - 125
			Acid Extractable Boron (B)	2021/06/02		101	%	75 - 125
			Acid Extractable Cadmium (Cd)	2021/06/02		97	%	75 - 125
			Acid Extractable Chromium (Cr)	2021/06/02		NC	%	75 - 125
			Acid Extractable Cobalt (Co)	2021/06/02		92	%	75 - 125
			Acid Extractable Copper (Cu)	2021/06/02		NC	%	75 - 125
			Acid Extractable Lead (Pb)	2021/06/02		100	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2021/06/02		97	%	75 - 125
			Acid Extractable Nickel (Ni)	2021/06/02		NC	%	75 - 125
			Acid Extractable Selenium (Se)	2021/06/02		99	%	75 - 125
			Acid Extractable Silver (Ag)	2021/06/02		95	%	75 - 125
			Acid Extractable Thallium (Tl)	2021/06/02		91	%	75 - 125
			Acid Extractable Uranium (U)	2021/06/02		100	%	75 - 125
			Acid Extractable Vanadium (V)	2021/06/02		NC	%	75 - 125
			Acid Extractable Zinc (Zn)	2021/06/02		NC	%	75 - 125
			Acid Extractable Mercury (Hg)	2021/06/02		82	%	75 - 125
7383983	DT1	Spiked Blank	Acid Extractable Antimony (Sb)	2021/06/02		98	%	80 - 120
			Acid Extractable Arsenic (As)	2021/06/02		96	%	80 - 120
			Acid Extractable Barium (Ba)	2021/06/02		97	%	80 - 120
			Acid Extractable Beryllium (Be)	2021/06/02		99	%	80 - 120
			Acid Extractable Boron (B)	2021/06/02		102	%	80 - 120
			Acid Extractable Cadmium (Cd)	2021/06/02		97	%	80 - 120
			Acid Extractable Chromium (Cr)	2021/06/02		97	%	80 - 120
			Acid Extractable Cobalt (Co)	2021/06/02		94	%	80 - 120
			Acid Extractable Copper (Cu)	2021/06/02		95	%	80 - 120
			Acid Extractable Lead (Pb)	2021/06/02		98	%	80 - 120
			Acid Extractable Molybdenum (Mo)	2021/06/02		98	%	80 - 120
			Acid Extractable Nickel (Ni)	2021/06/02		97	%	80 - 120
			Acid Extractable Selenium (Se)	2021/06/02		99	%	80 - 120
			Acid Extractable Silver (Ag)	2021/06/02		96	%	80 - 120
			Acid Extractable Thallium (Tl)	2021/06/02		95	%	80 - 120
			Acid Extractable Uranium (U)	2021/06/02		98	%	80 - 120
			Acid Extractable Vanadium (V)	2021/06/02		99	%	80 - 120
			Acid Extractable Zinc (Zn)	2021/06/02		92	%	80 - 120
			Acid Extractable Mercury (Hg)	2021/06/02		91	%	80 - 120
7383983	DT1	Method Blank	Acid Extractable Antimony (Sb)	2021/06/02	<0.20		ug/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Arsenic (As)	2021/06/02	<1.0		ug/g	
			Acid Extractable Barium (Ba)	2021/06/02	<0.50		ug/g	
			Acid Extractable Beryllium (Be)	2021/06/02	<0.20		ug/g	
			Acid Extractable Boron (B)	2021/06/02	<5.0		ug/g	
			Acid Extractable Cadmium (Cd)	2021/06/02	<0.10		ug/g	
			Acid Extractable Chromium (Cr)	2021/06/02	<1.0		ug/g	
			Acid Extractable Cobalt (Co)	2021/06/02	<0.10		ug/g	
			Acid Extractable Copper (Cu)	2021/06/02	<0.50		ug/g	
			Acid Extractable Lead (Pb)	2021/06/02	<1.0		ug/g	
			Acid Extractable Molybdenum (Mo)	2021/06/02	<0.50		ug/g	
			Acid Extractable Nickel (Ni)	2021/06/02	<0.50		ug/g	
			Acid Extractable Selenium (Se)	2021/06/02	<0.50		ug/g	
			Acid Extractable Silver (Ag)	2021/06/02	<0.20		ug/g	
			Acid Extractable Thallium (Tl)	2021/06/02	<0.050		ug/g	
			Acid Extractable Uranium (U)	2021/06/02	<0.050		ug/g	
			Acid Extractable Vanadium (V)	2021/06/02	<5.0		ug/g	
			Acid Extractable Zinc (Zn)	2021/06/02	<5.0		ug/g	
			Acid Extractable Mercury (Hg)	2021/06/02	<0.050		ug/g	
7383983	DT1	RPD	Acid Extractable Antimony (Sb)	2021/06/02	5.1		%	30
			Acid Extractable Arsenic (As)	2021/06/02	9.7		%	30
			Acid Extractable Barium (Ba)	2021/06/02	0.86		%	30
			Acid Extractable Beryllium (Be)	2021/06/02	3.7		%	30
			Acid Extractable Boron (B)	2021/06/02	6.3		%	30
			Acid Extractable Cadmium (Cd)	2021/06/02	6.1		%	30
			Acid Extractable Chromium (Cr)	2021/06/02	2.8		%	30
			Acid Extractable Cobalt (Co)	2021/06/02	3.0		%	30
			Acid Extractable Copper (Cu)	2021/06/02	2.8		%	30
			Acid Extractable Lead (Pb)	2021/06/02	7.7		%	30
			Acid Extractable Molybdenum (Mo)	2021/06/02	NC		%	30
			Acid Extractable Nickel (Ni)	2021/06/02	3.1		%	30
			Acid Extractable Selenium (Se)	2021/06/02	NC		%	30
			Acid Extractable Silver (Ag)	2021/06/02	NC		%	30
			Acid Extractable Thallium (Tl)	2021/06/02	3.4		%	30
			Acid Extractable Uranium (U)	2021/06/02	0.75		%	30
			Acid Extractable Vanadium (V)	2021/06/02	6.1		%	30
			Acid Extractable Zinc (Zn)	2021/06/02	4.8		%	30
			Acid Extractable Mercury (Hg)	2021/06/02	NC		%	30
7385266	LRA	Matrix Spike	1,4-Difluorobenzene	2021/06/02		94	%	60 - 140
			4-Bromofluorobenzene	2021/06/02		101	%	60 - 140
			D10-o-Xylene	2021/06/02		104	%	60 - 140
			D4-1,2-Dichloroethane	2021/06/02		98	%	60 - 140
			Benzene	2021/06/02		111	%	50 - 140
			Toluene	2021/06/02		111	%	50 - 140
			Ethylbenzene	2021/06/02		124	%	50 - 140
			o-Xylene	2021/06/02		120	%	50 - 140
			p+m-Xylene	2021/06/02		120	%	50 - 140
			F1 (C6-C10)	2021/06/02		107	%	60 - 140
7385266	LRA	Spiked Blank	1,4-Difluorobenzene	2021/06/02		95	%	60 - 140
			4-Bromofluorobenzene	2021/06/02		102	%	60 - 140
			D10-o-Xylene	2021/06/02		100	%	60 - 140
			D4-1,2-Dichloroethane	2021/06/02		98	%	60 - 140
			Benzene	2021/06/02		103	%	50 - 140
			Toluene	2021/06/02		103	%	50 - 140
			Ethylbenzene	2021/06/02		114	%	50 - 140
			o-Xylene	2021/06/02		110	%	50 - 140

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			p+m-Xylene	2021/06/02		112	%	50 - 140
			F1 (C6-C10)	2021/06/02		94	%	80 - 120
7385266	LRA	Method Blank	1,4-Difluorobenzene	2021/06/02		97	%	60 - 140
			4-Bromofluorobenzene	2021/06/02		97	%	60 - 140
			D10-o-Xylene	2021/06/02		105	%	60 - 140
			D4-1,2-Dichloroethane	2021/06/02		104	%	60 - 140
			Benzene	2021/06/02	<0.020		ug/g	
			Toluene	2021/06/02	<0.020		ug/g	
			Ethylbenzene	2021/06/02	<0.020		ug/g	
			o-Xylene	2021/06/02	<0.020		ug/g	
			p+m-Xylene	2021/06/02	<0.040		ug/g	
			Total Xylenes	2021/06/02	<0.040		ug/g	
			F1 (C6-C10)	2021/06/02	<10		ug/g	
			F1 (C6-C10) - BTEX	2021/06/02	<10		ug/g	
7385266	LRA	RPD	Benzene	2021/06/02	NC		%	50
			Toluene	2021/06/02	NC		%	50
			Ethylbenzene	2021/06/02	NC		%	50
			o-Xylene	2021/06/02	NC		%	50
			p+m-Xylene	2021/06/02	NC		%	50
			Total Xylenes	2021/06/02	NC		%	50
			F1 (C6-C10)	2021/06/02	NC		%	30
			F1 (C6-C10) - BTEX	2021/06/02	NC		%	30
7385429	JJE	Matrix Spike	o-Terphenyl	2021/06/02		91	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/06/02		106	%	50 - 130
			F3 (C16-C34 Hydrocarbons)	2021/06/02		105	%	50 - 130
			F4 (C34-C50 Hydrocarbons)	2021/06/02		106	%	50 - 130
7385429	JJE	Spiked Blank	o-Terphenyl	2021/06/02		93	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/06/02		109	%	80 - 120
			F3 (C16-C34 Hydrocarbons)	2021/06/02		108	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2021/06/02		108	%	80 - 120
7385429	JJE	Method Blank	o-Terphenyl	2021/06/02		92	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/06/02	<10		ug/g	
			F3 (C16-C34 Hydrocarbons)	2021/06/02	<50		ug/g	
			F4 (C34-C50 Hydrocarbons)	2021/06/02	<50		ug/g	
7385429	JJE	RPD	F2 (C10-C16 Hydrocarbons)	2021/06/03	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2021/06/03	2.3		%	30
			F4 (C34-C50 Hydrocarbons)	2021/06/03	NC		%	30
7385541	DH	Matrix Spike	Decachlorobiphenyl	2021/06/02		95	%	60 - 130
			Aroclor 1260	2021/06/02		108	%	30 - 130
			Total PCB	2021/06/02		108	%	30 - 130
7385541	DH	Spiked Blank	Decachlorobiphenyl	2021/06/02		105	%	60 - 130
			Aroclor 1260	2021/06/02		115	%	30 - 130
			Total PCB	2021/06/02		115	%	30 - 130
7385541	DH	Method Blank	Decachlorobiphenyl	2021/06/02		100	%	60 - 130
			Aroclor 1242	2021/06/02	<0.010		ug/g	
			Aroclor 1248	2021/06/02	<0.010		ug/g	
			Aroclor 1254	2021/06/02	<0.010		ug/g	
			Aroclor 1260	2021/06/02	<0.010		ug/g	
			Total PCB	2021/06/02	<0.010		ug/g	
7385541	DH	RPD	Aroclor 1242	2021/06/02	NC		%	50
			Aroclor 1248	2021/06/02	NC		%	50
			Aroclor 1254	2021/06/02	NC		%	50
			Aroclor 1260	2021/06/02	NC		%	50
			Total PCB	2021/06/02	NC		%	50
7386229	RAJ	Matrix Spike [PRS145-01]	D10-Anthracene	2021/06/03		94	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			D14-Terphenyl (FS)	2021/06/03		87	%	50 - 130
			D8-Acenaphthylene	2021/06/03		74	%	50 - 130
			Acenaphthene	2021/06/03		88	%	50 - 130
			Acenaphthylene	2021/06/03		82	%	50 - 130
			Anthracene	2021/06/03		90	%	50 - 130
			Benzo(a)anthracene	2021/06/03		98	%	50 - 130
			Benzo(a)pyrene	2021/06/03		82	%	50 - 130
			Benzo(b/j)fluoranthene	2021/06/03		88	%	50 - 130
			Benzo(g,h,i)perylene	2021/06/03		84	%	50 - 130
			Benzo(k)fluoranthene	2021/06/03		81	%	50 - 130
			Chrysene	2021/06/03		98	%	50 - 130
			Dibenzo(a,h)anthracene	2021/06/03		84	%	50 - 130
			Fluoranthene	2021/06/03		100	%	50 - 130
			Fluorene	2021/06/03		88	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/06/03		91	%	50 - 130
			1-Methylnaphthalene	2021/06/03		75	%	50 - 130
			2-Methylnaphthalene	2021/06/03		74	%	50 - 130
			Naphthalene	2021/06/03		77	%	50 - 130
			Phenanthrene	2021/06/03		95	%	50 - 130
			Pyrene	2021/06/03		97	%	50 - 130
7386229	RAJ	Spiked Blank	D10-Anthracene	2021/06/03		101	%	50 - 130
			D14-Terphenyl (FS)	2021/06/03		86	%	50 - 130
			D8-Acenaphthylene	2021/06/03		96	%	50 - 130
			Acenaphthene	2021/06/03		91	%	50 - 130
			Acenaphthylene	2021/06/03		87	%	50 - 130
			Anthracene	2021/06/03		93	%	50 - 130
			Benzo(a)anthracene	2021/06/03		94	%	50 - 130
			Benzo(a)pyrene	2021/06/03		80	%	50 - 130
			Benzo(b/j)fluoranthene	2021/06/03		88	%	50 - 130
			Benzo(g,h,i)perylene	2021/06/03		95	%	50 - 130
			Benzo(k)fluoranthene	2021/06/03		85	%	50 - 130
			Chrysene	2021/06/03		98	%	50 - 130
			Dibenzo(a,h)anthracene	2021/06/03		82	%	50 - 130
			Fluoranthene	2021/06/03		91	%	50 - 130
			Fluorene	2021/06/03		91	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/06/03		101	%	50 - 130
			1-Methylnaphthalene	2021/06/03		78	%	50 - 130
			2-Methylnaphthalene	2021/06/03		77	%	50 - 130
			Naphthalene	2021/06/03		83	%	50 - 130
			Phenanthrene	2021/06/03		95	%	50 - 130
			Pyrene	2021/06/03		90	%	50 - 130
7386229	RAJ	Method Blank	D10-Anthracene	2021/06/03		96	%	50 - 130
			D14-Terphenyl (FS)	2021/06/03		84	%	50 - 130
			D8-Acenaphthylene	2021/06/03		90	%	50 - 130
			Acenaphthene	2021/06/03	<0.0050		ug/g	
			Acenaphthylene	2021/06/03	<0.0050		ug/g	
			Anthracene	2021/06/03	<0.0050		ug/g	
			Benzo(a)anthracene	2021/06/03	<0.0050		ug/g	
			Benzo(a)pyrene	2021/06/03	<0.0050		ug/g	
			Benzo(b/j)fluoranthene	2021/06/03	<0.0050		ug/g	
			Benzo(g,h,i)perylene	2021/06/03	<0.0050		ug/g	
			Benzo(k)fluoranthene	2021/06/03	<0.0050		ug/g	
			Chrysene	2021/06/03	<0.0050		ug/g	
			Dibenzo(a,h)anthracene	2021/06/03	<0.0050		ug/g	
			Fluoranthene	2021/06/03	<0.0050		ug/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Fluorene	2021/06/03	<0.0050		ug/g	
			Indeno(1,2,3-cd)pyrene	2021/06/03	<0.0050		ug/g	
			1-Methylnaphthalene	2021/06/03	<0.0050		ug/g	
			2-Methylnaphthalene	2021/06/03	<0.0050		ug/g	
			Naphthalene	2021/06/03	<0.0050		ug/g	
			Phenanthrene	2021/06/03	<0.0050		ug/g	
			Pyrene	2021/06/03	<0.0050		ug/g	
7386229	RAJ	RPD [PRS145-01]	Acenaphthene	2021/06/03	NC		%	40
			Acenaphthylene	2021/06/03	NC		%	40
			Anthracene	2021/06/03	NC		%	40
			Benzo(a)anthracene	2021/06/03	97 (1)		%	40
			Benzo(a)pyrene	2021/06/03	89 (1)		%	40
			Benzo(b/j)fluoranthene	2021/06/03	86 (1)		%	40
			Benzo(g,h,i)perylene	2021/06/03	90 (1)		%	40
			Benzo(k)fluoranthene	2021/06/03	85 (1)		%	40
			Chrysene	2021/06/03	87 (1)		%	40
			Dibenzo(a,h)anthracene	2021/06/03	39		%	40
			Fluoranthene	2021/06/03	97 (1)		%	40
			Fluorene	2021/06/03	NC		%	40
			Indeno(1,2,3-cd)pyrene	2021/06/03	95 (1)		%	40
			1-Methylnaphthalene	2021/06/03	NC		%	40
			2-Methylnaphthalene	2021/06/03	NC		%	40
			Naphthalene	2021/06/03	NC		%	40
			Phenanthrene	2021/06/03	73 (1)		%	40
			Pyrene	2021/06/03	85 (1)		%	40
7386491	KHP	Spiked Blank	Conductivity	2021/06/03		100	%	90 - 110
7386491	KHP	Method Blank	Conductivity	2021/06/03	<0.002		mS/cm	
7386491	KHP	RPD [PRS151-01]	Conductivity	2021/06/03	2.8		%	10
7392392	MS4	Matrix Spike	4-Bromofluorobenzene	2021/06/08		99	%	60 - 140
			D10-o-Xylene	2021/06/08		82	%	60 - 130
			D4-1,2-Dichloroethane	2021/06/08		94	%	60 - 140
			D8-Toluene	2021/06/08		102	%	60 - 140
			Acetone (2-Propanone)	2021/06/08		88	%	60 - 140
			Benzene	2021/06/08		95	%	60 - 140
			Bromodichloromethane	2021/06/08		93	%	60 - 140
			Bromoform	2021/06/08		94	%	60 - 140
			Bromomethane	2021/06/08		92	%	60 - 140
			Carbon Tetrachloride	2021/06/08		87	%	60 - 140
			Chlorobenzene	2021/06/08		96	%	60 - 140
			Chloroform	2021/06/08		92	%	60 - 140
			Dibromochloromethane	2021/06/08		93	%	60 - 140
			1,2-Dichlorobenzene	2021/06/08		97	%	60 - 140
			1,3-Dichlorobenzene	2021/06/08		100	%	60 - 140
			1,4-Dichlorobenzene	2021/06/08		121	%	60 - 140
			Dichlorodifluoromethane (FREON 12)	2021/06/08		83	%	60 - 140
			1,1-Dichloroethane	2021/06/08		94	%	60 - 140
			1,2-Dichloroethane	2021/06/08		87	%	60 - 140
			1,1-Dichloroethylene	2021/06/08		90	%	60 - 140
			cis-1,2-Dichloroethylene	2021/06/08		97	%	60 - 140
			trans-1,2-Dichloroethylene	2021/06/08		98	%	60 - 140
			1,2-Dichloropropane	2021/06/08		99	%	60 - 140
			cis-1,3-Dichloropropene	2021/06/08		94	%	60 - 140
			trans-1,3-Dichloropropene	2021/06/08		101	%	60 - 140
			Ethylbenzene	2021/06/08		90	%	60 - 140
			Ethylene Dibromide	2021/06/08		95	%	60 - 140

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Hexane	2021/06/08		97	%	60 - 140
			Methylene Chloride(Dichloromethane)	2021/06/08		97	%	60 - 140
			Methyl Ethyl Ketone (2-Butanone)	2021/06/08		100	%	60 - 140
			Methyl Isobutyl Ketone	2021/06/08		91	%	60 - 140
			Methyl t-butyl ether (MTBE)	2021/06/08		87	%	60 - 140
			Styrene	2021/06/08		102	%	60 - 140
			1,1,1,2-Tetrachloroethane	2021/06/08		96	%	60 - 140
			1,1,2,2-Tetrachloroethane	2021/06/08		95	%	60 - 140
			Tetrachloroethylene	2021/06/08		93	%	60 - 140
			Toluene	2021/06/08		91	%	60 - 140
			1,1,1-Trichloroethane	2021/06/08		92	%	60 - 140
			1,1,2-Trichloroethane	2021/06/08		93	%	60 - 140
			Trichloroethylene	2021/06/08		102	%	60 - 140
			Trichlorofluoromethane (FREON 11)	2021/06/08		84	%	60 - 140
			Vinyl Chloride	2021/06/08		98	%	60 - 140
			p+m-Xylene	2021/06/08		93	%	60 - 140
			o-Xylene	2021/06/08		90	%	60 - 140
			F1 (C6-C10)	2021/06/08		94	%	60 - 140
7392392	MS4	Spiked Blank	4-Bromofluorobenzene	2021/06/08		99	%	60 - 140
			D10-o-Xylene	2021/06/08		95	%	60 - 130
			D4-1,2-Dichloroethane	2021/06/08		93	%	60 - 140
			D8-Toluene	2021/06/08		102	%	60 - 140
			Acetone (2-Propanone)	2021/06/08		86	%	60 - 140
			Benzene	2021/06/08		95	%	60 - 130
			Bromodichloromethane	2021/06/08		94	%	60 - 130
			Bromoform	2021/06/08		95	%	60 - 130
			Bromomethane	2021/06/08		91	%	60 - 140
			Carbon Tetrachloride	2021/06/08		88	%	60 - 130
			Chlorobenzene	2021/06/08		96	%	60 - 130
			Chloroform	2021/06/08		92	%	60 - 130
			Dibromochloromethane	2021/06/08		93	%	60 - 130
			1,2-Dichlorobenzene	2021/06/08		98	%	60 - 130
			1,3-Dichlorobenzene	2021/06/08		100	%	60 - 130
			1,4-Dichlorobenzene	2021/06/08		121	%	60 - 130
			Dichlorodifluoromethane (FREON 12)	2021/06/08		84	%	60 - 140
			1,1-Dichloroethane	2021/06/08		94	%	60 - 130
			1,2-Dichloroethane	2021/06/08		86	%	60 - 130
			1,1-Dichloroethylene	2021/06/08		90	%	60 - 130
			cis-1,2-Dichloroethylene	2021/06/08		97	%	60 - 130
			trans-1,2-Dichloroethylene	2021/06/08		97	%	60 - 130
			1,2-Dichloropropane	2021/06/08		99	%	60 - 130
			cis-1,3-Dichloropropene	2021/06/08		94	%	60 - 130
			trans-1,3-Dichloropropene	2021/06/08		101	%	60 - 130
			Ethylbenzene	2021/06/08		91	%	60 - 130
			Ethylene Dibromide	2021/06/08		95	%	60 - 130
			Hexane	2021/06/08		97	%	60 - 130
			Methylene Chloride(Dichloromethane)	2021/06/08		96	%	60 - 130
			Methyl Ethyl Ketone (2-Butanone)	2021/06/08		99	%	60 - 140
			Methyl Isobutyl Ketone	2021/06/08		93	%	60 - 130
			Methyl t-butyl ether (MTBE)	2021/06/08		88	%	60 - 130
			Styrene	2021/06/08		102	%	60 - 130
			1,1,1,2-Tetrachloroethane	2021/06/08		97	%	60 - 130
			1,1,2,2-Tetrachloroethane	2021/06/08		97	%	60 - 130
			Tetrachloroethylene	2021/06/08		93	%	60 - 130
			Toluene	2021/06/08		91	%	60 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1,1,1-Trichloroethane	2021/06/08		93	%	60 - 130
			1,1,2-Trichloroethane	2021/06/08		93	%	60 - 130
			Trichloroethylene	2021/06/08		102	%	60 - 130
			Trichlorofluoromethane (FREON 11)	2021/06/08		85	%	60 - 130
			Vinyl Chloride	2021/06/08		97	%	60 - 130
			p+m-Xylene	2021/06/08		94	%	60 - 130
			o-Xylene	2021/06/08		91	%	60 - 130
			F1 (C6-C10)	2021/06/08		91	%	80 - 120
7392392	MS4	Method Blank	4-Bromofluorobenzene	2021/06/08		95	%	60 - 140
			D10-o-Xylene	2021/06/08		83	%	60 - 130
			D4-1,2-Dichloroethane	2021/06/08		94	%	60 - 140
			D8-Toluene	2021/06/08		103	%	60 - 140
			Acetone (2-Propanone)	2021/06/08	<0.50		ug/g	
			Benzene	2021/06/08	<0.020		ug/g	
			Bromodichloromethane	2021/06/08	<0.050		ug/g	
			Bromoform	2021/06/08	<0.050		ug/g	
			Bromomethane	2021/06/08	<0.050		ug/g	
			Carbon Tetrachloride	2021/06/08	<0.050		ug/g	
			Chlorobenzene	2021/06/08	<0.050		ug/g	
			Chloroform	2021/06/08	<0.050		ug/g	
			Dibromochloromethane	2021/06/08	<0.050		ug/g	
			1,2-Dichlorobenzene	2021/06/08	<0.050		ug/g	
			1,3-Dichlorobenzene	2021/06/08	<0.050		ug/g	
			1,4-Dichlorobenzene	2021/06/08	<0.050		ug/g	
			Dichlorodifluoromethane (FREON 12)	2021/06/08	<0.050		ug/g	
			1,1-Dichloroethane	2021/06/08	<0.050		ug/g	
			1,2-Dichloroethane	2021/06/08	<0.050		ug/g	
			1,1-Dichloroethylene	2021/06/08	<0.050		ug/g	
			cis-1,2-Dichloroethylene	2021/06/08	<0.050		ug/g	
			trans-1,2-Dichloroethylene	2021/06/08	<0.050		ug/g	
			1,2-Dichloropropane	2021/06/08	<0.050		ug/g	
			cis-1,3-Dichloropropene	2021/06/08	<0.030		ug/g	
			trans-1,3-Dichloropropene	2021/06/08	<0.040		ug/g	
			Ethylbenzene	2021/06/08	<0.020		ug/g	
			Ethylene Dibromide	2021/06/08	<0.050		ug/g	
			Hexane	2021/06/08	<0.050		ug/g	
			Methylene Chloride(Dichloromethane)	2021/06/08	<0.050		ug/g	
			Methyl Ethyl Ketone (2-Butanone)	2021/06/08	<0.50		ug/g	
			Methyl Isobutyl Ketone	2021/06/08	<0.50		ug/g	
			Methyl t-butyl ether (MTBE)	2021/06/08	<0.050		ug/g	
			Styrene	2021/06/08	<0.050		ug/g	
			1,1,1,2-Tetrachloroethane	2021/06/08	<0.050		ug/g	
			1,1,2,2-Tetrachloroethane	2021/06/08	<0.050		ug/g	
			Tetrachloroethylene	2021/06/08	<0.050		ug/g	
			Toluene	2021/06/08	<0.020		ug/g	
			1,1,1-Trichloroethane	2021/06/08	<0.050		ug/g	
			1,1,2-Trichloroethane	2021/06/08	<0.050		ug/g	
			Trichloroethylene	2021/06/08	<0.050		ug/g	
			Trichlorofluoromethane (FREON 11)	2021/06/08	<0.050		ug/g	
			Vinyl Chloride	2021/06/08	<0.020		ug/g	
			p+m-Xylene	2021/06/08	<0.020		ug/g	
			o-Xylene	2021/06/08	<0.020		ug/g	
			Total Xylenes	2021/06/08	<0.020		ug/g	
			F1 (C6-C10)	2021/06/08	<10		ug/g	
			F1 (C6-C10) - BTEX	2021/06/08	<10		ug/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7392392	MS4	RPD	Acetone (2-Propanone)	2021/06/08	NC		%	50
			Benzene	2021/06/08	NC		%	50
			Bromodichloromethane	2021/06/08	NC		%	50
			Bromoform	2021/06/08	NC		%	50
			Bromomethane	2021/06/08	NC		%	50
			Carbon Tetrachloride	2021/06/08	NC		%	50
			Chlorobenzene	2021/06/08	NC		%	50
			Chloroform	2021/06/08	NC		%	50
			Dibromochloromethane	2021/06/08	NC		%	50
			1,2-Dichlorobenzene	2021/06/08	NC		%	50
			1,3-Dichlorobenzene	2021/06/08	NC		%	50
			1,4-Dichlorobenzene	2021/06/08	NC		%	50
			Dichlorodifluoromethane (FREON 12)	2021/06/08	NC		%	50
			1,1-Dichloroethane	2021/06/08	NC		%	50
			1,2-Dichloroethane	2021/06/08	NC		%	50
			1,1-Dichloroethylene	2021/06/08	NC		%	50
			cis-1,2-Dichloroethylene	2021/06/08	NC		%	50
			trans-1,2-Dichloroethylene	2021/06/08	NC		%	50
			1,2-Dichloropropane	2021/06/08	NC		%	50
			cis-1,3-Dichloropropene	2021/06/08	NC		%	50
			trans-1,3-Dichloropropene	2021/06/08	NC		%	50
			Ethylbenzene	2021/06/08	NC		%	50
			Ethylene Dibromide	2021/06/08	NC		%	50
			Hexane	2021/06/08	NC		%	50
			Methylene Chloride(Dichloromethane)	2021/06/08	NC		%	50
			Methyl Ethyl Ketone (2-Butanone)	2021/06/08	NC		%	50
			Methyl Isobutyl Ketone	2021/06/08	NC		%	50
			Methyl t-butyl ether (MTBE)	2021/06/08	NC		%	50
			Styrene	2021/06/08	NC		%	50
			1,1,1,2-Tetrachloroethane	2021/06/08	NC		%	50
			1,1,2,2-Tetrachloroethane	2021/06/08	NC		%	50
			Tetrachloroethylene	2021/06/08	NC		%	50
			Toluene	2021/06/08	NC		%	50
			1,1,1-Trichloroethane	2021/06/08	NC		%	50
			1,1,2-Trichloroethane	2021/06/08	NC		%	50
			Trichloroethylene	2021/06/08	NC		%	50
			Trichlorofluoromethane (FREON 11)	2021/06/08	NC		%	50
			Vinyl Chloride	2021/06/08	NC		%	50
			p+m-Xylene	2021/06/08	NC		%	50
			o-Xylene	2021/06/08	NC		%	50
			Total Xylenes	2021/06/08	NC		%	50
			F1 (C6-C10)	2021/06/08	NC		%	30
			F1 (C6-C10) - BTEX	2021/06/08	NC		%	30

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7393385	MUC	RPD	Moisture	2021/06/07	1.7		%	20

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.

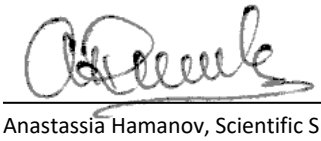
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

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 <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

VALIDATION SIGNATURE PAGE

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



Anastassia Hamanov, Scientific Specialist

BV Labs 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 Laboratories 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvlabs.com

Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvlabs.com

CHAIN OF CUSTODY RECORD

Page 1 of 1

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#982 Pinchin Ltd	Company Name:		Quotation #:	A70927	BV Labs Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Matt, Ryan, Mike	P.O. #:			770951
Address:	1 Hines Road Suite 200	Address:		Project:	285722.003	COC #:	Project Manager:
	Kanata ON K2K 3C7			Project Name:		C#770951-30-01	Antonella Brasil
Tel:	(613) 592-3387 Fax: (613) 592-5897	Tel:	Fax:	Site #:			
Email:	ap@pinchin.com	Email:	mkosiw@Pinchin.com, rlaronde@pinchin.com; mryan@	Sampled By:	M. Kosiw		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☒ Res/Park ☒ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☒ Table 3 ☐ Agri/Other ☒ For RSC ☐ Table ___	☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ______ ☐ PWQO ☐ Other ______	

Include Criteria on Certificate of Analysis (Y/N)? N

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

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 Dioxins/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 #)*

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	pH CaCl2 EXTRACT O.REG 153 metals	O.Reg 153 VOCs by HS & F1-F4 (Soil)	O.Reg 153 PAHs (Soil)	O.Reg 153 OC Pesticides (Soil)	O.Reg 153 Semivolatiles Package (Soil)	Sieve, 75um	PCBs	EC	SAR	PHCs F1-F4	# of Bottles	Comments
1		BH121 SS-1	May 25 2021	AM	SOIL				X				X			X	2	
2		Dup101		AM					X				X			X	2	
3		BHMW122 SS-6					X	X	X							X	2	
4		BHMW122 SS-8					X	X	X							X	2	
5		BHMW123 SS-5		PM			X	X	X							X	2	
6		BHMW124 SS-1					X	X	X					X	X	X	2	
7		BHMW124 SS-8					X	X	X					X	X	X	2	RECEIVED IN OTTAWA
8		Dup102												X	X		1	ON Ice
9																		
10																		

28-May-21 12:45
Antonella Brasil
C1E5924
MIK ENV-736

* 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		
Mike Kosiw	May 28 2021	10:30 AM	[signature]	2021/05/28	12:45		Time Sensitive	Temperature (°C) on Recei 5, 5, 6	Custody Seal Present / Intact: Yes
			[signature]	2021/05/29	08:30				

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.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.

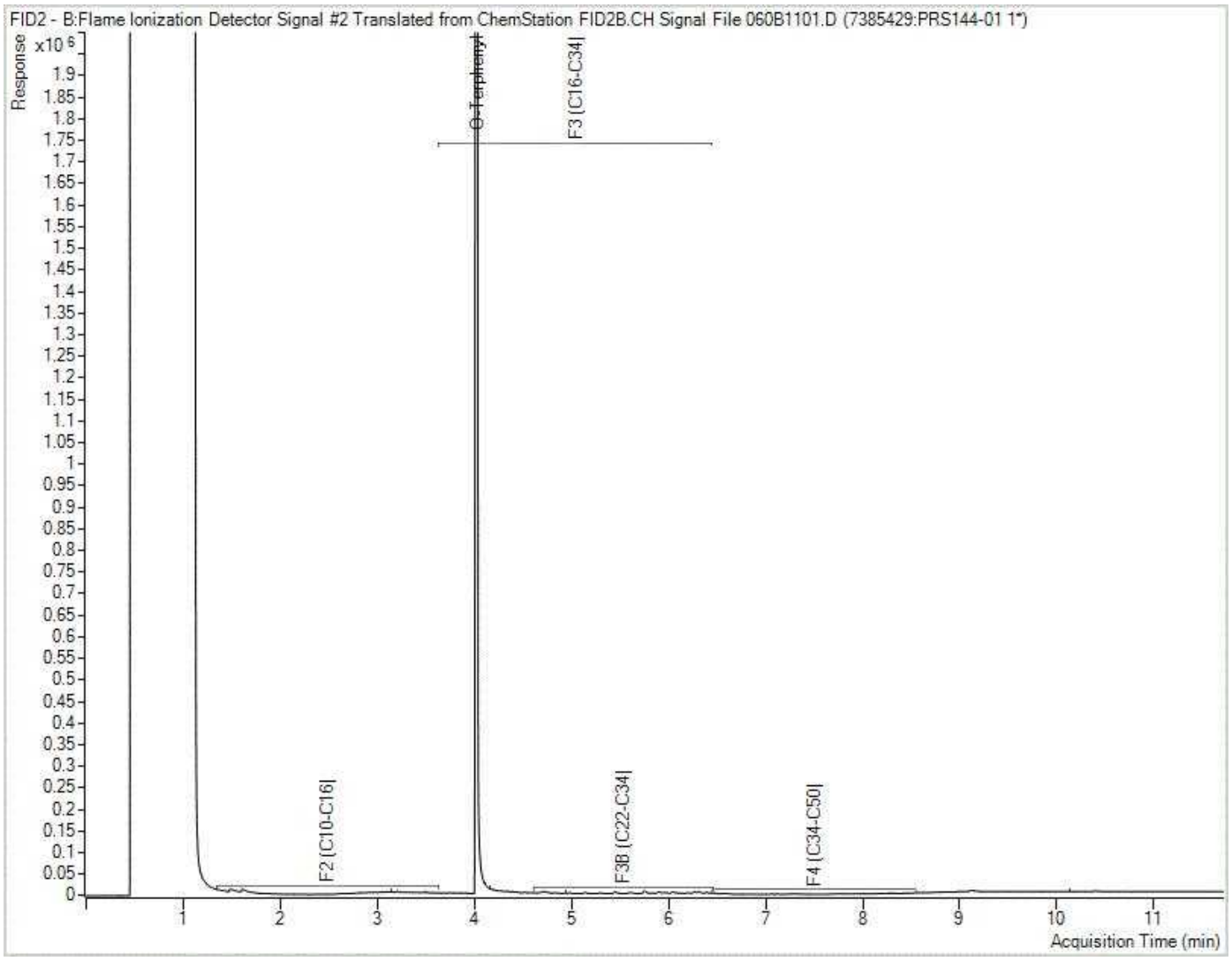
** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

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

White: BV Labs Yellow: Client

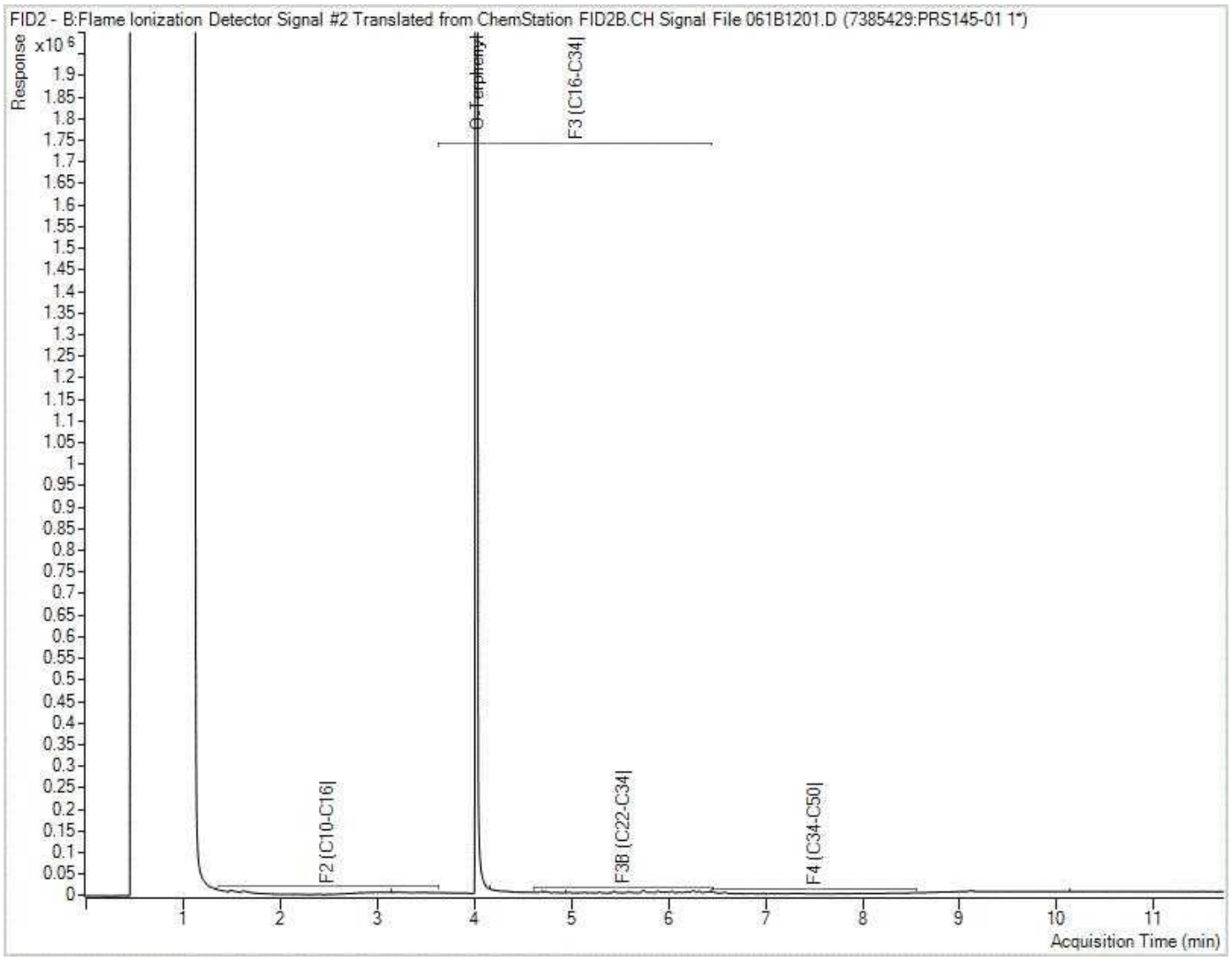
3/0/-1

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

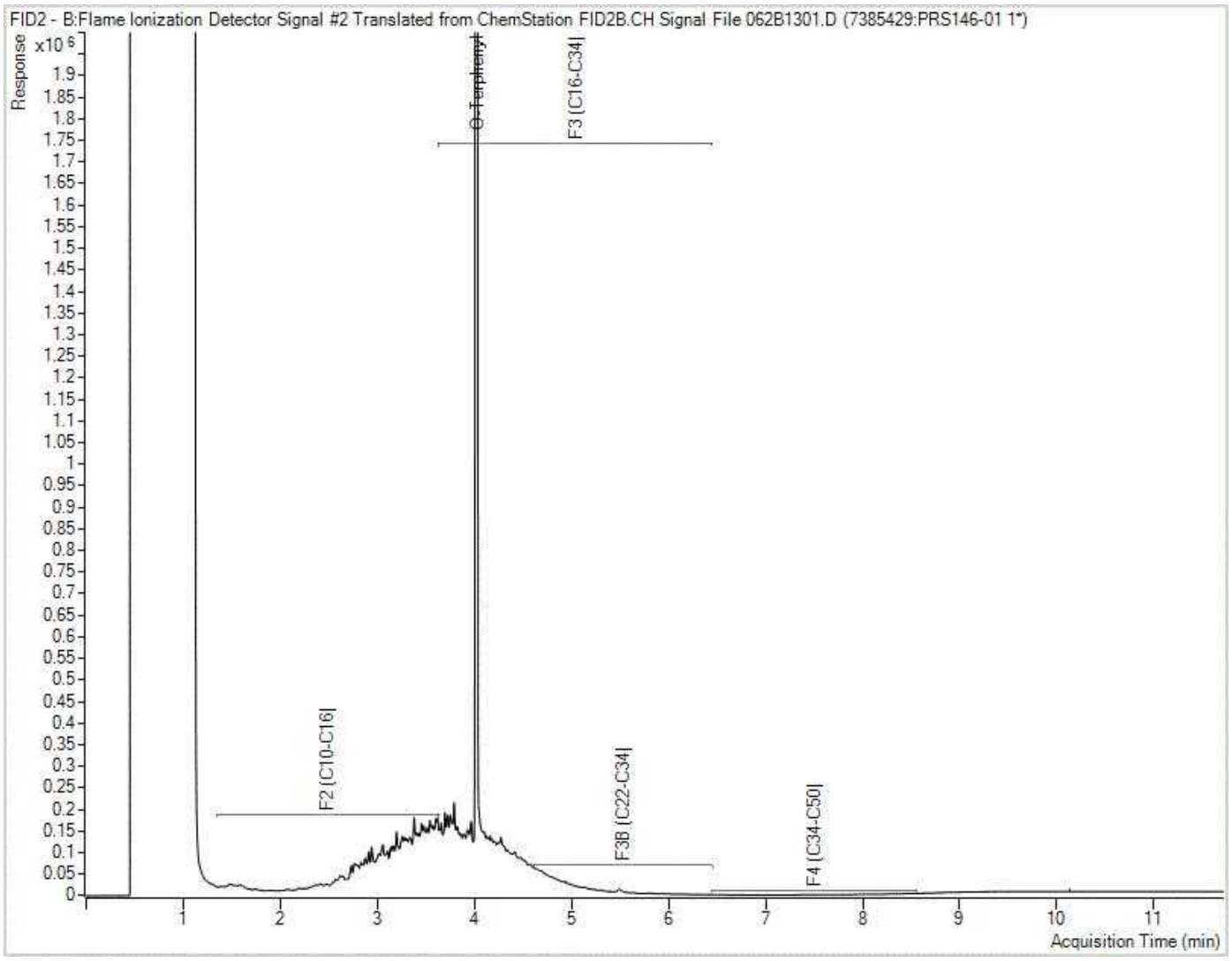


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1E5924
Report Date: 2021/06/08
BV Labs Sample: PRS146

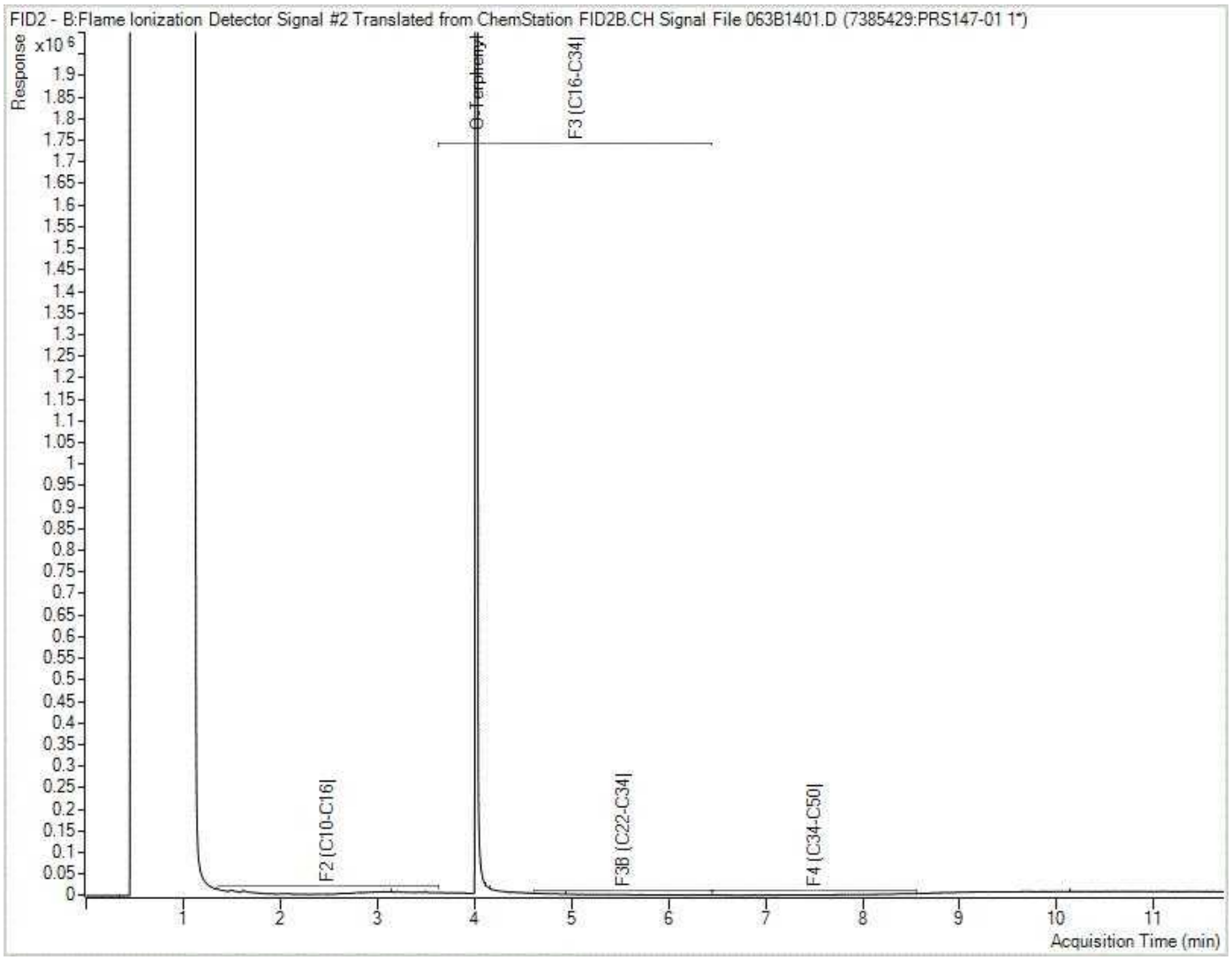
Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW122SS-6

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

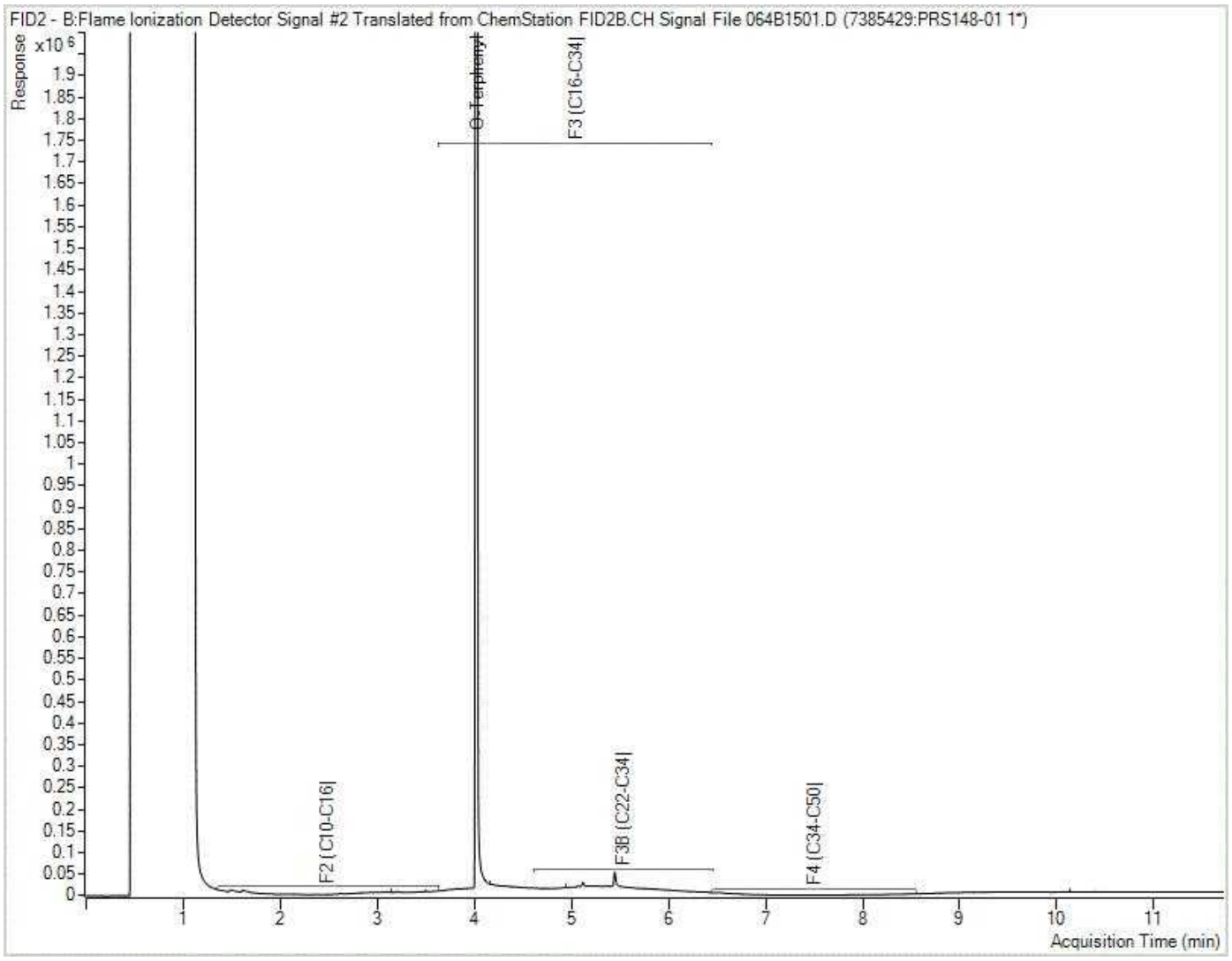


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1E5924
Report Date: 2021/06/08
BV Labs Sample: PRS148

Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW123SS-5

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

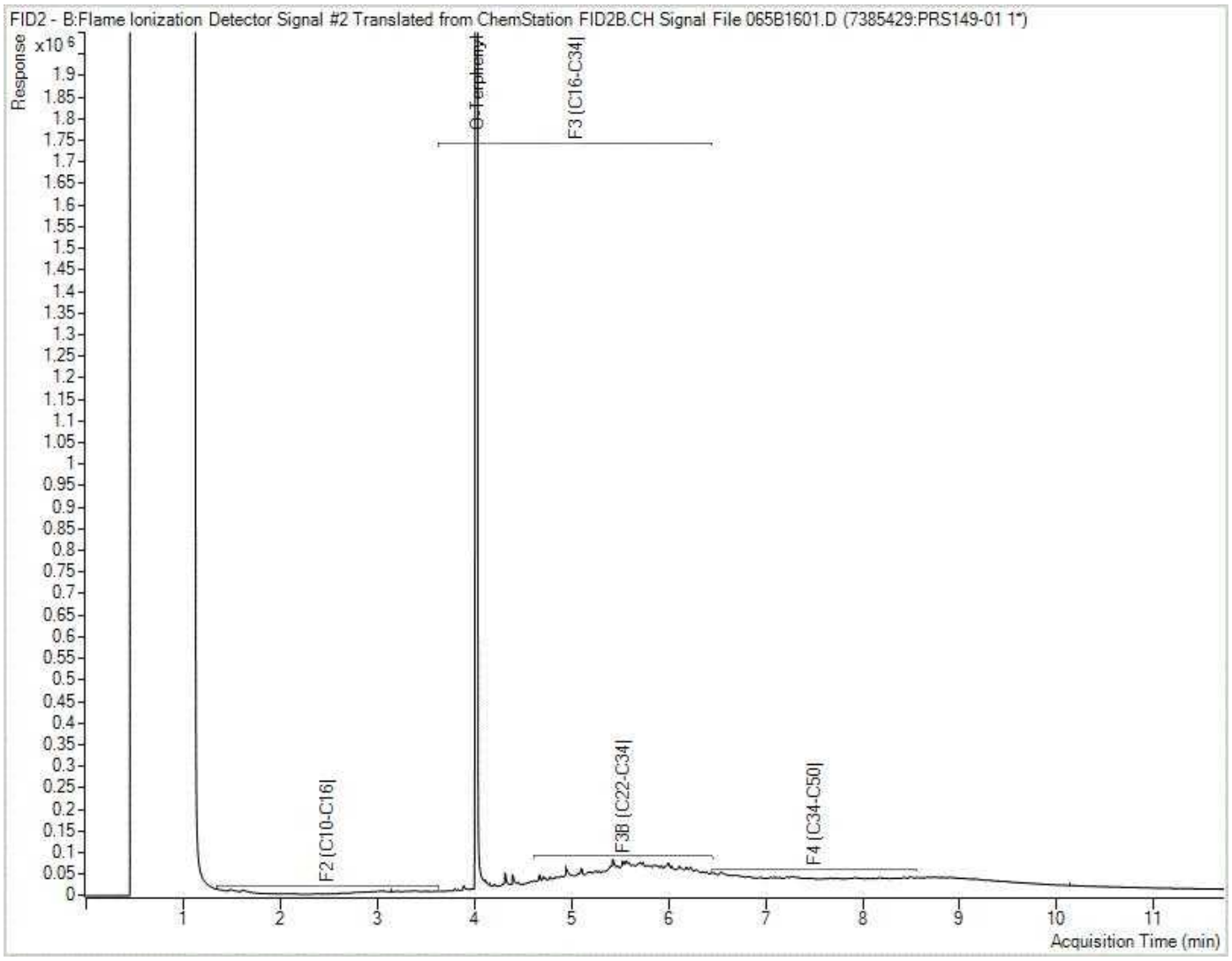


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C1E5924
Report Date: 2021/06/08
BV Labs Sample: PRS149

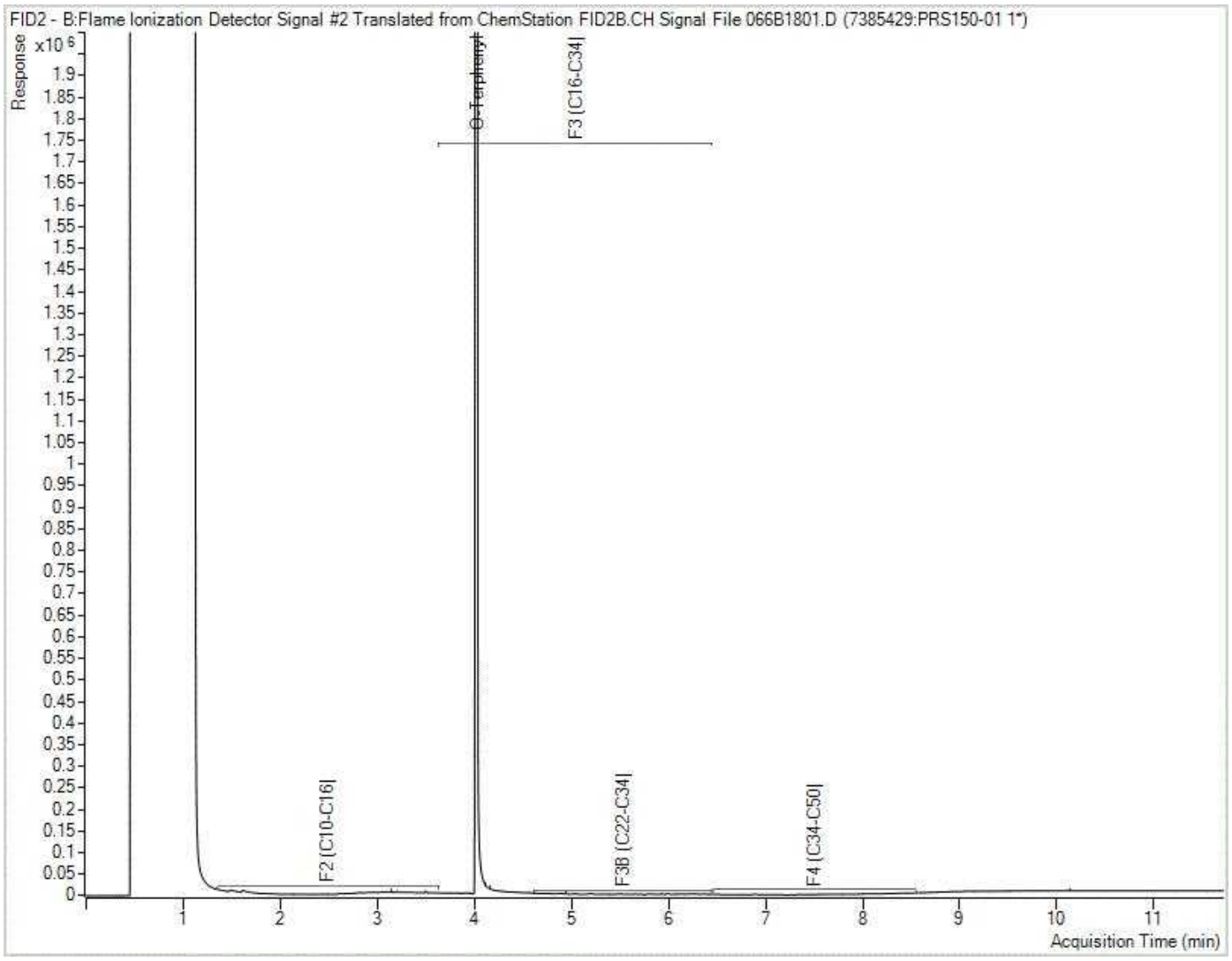
Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW124SS-1

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 #: 285722.003
Your C.O.C. #: 832329-06-01

Attention: Matt, Ryan, Mike

Pinchin Ltd
Ottawa
1 Hines Road
Suite 200
Kanata, ON
CANADA K2K 3C7

Report Date: 2021/10/21
Report #: R6862370
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1T8290
Received: 2021/10/13, 16:20

Sample Matrix: Soil
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum (1)	3	N/A	2021/10/20	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum (1)	3	N/A	2021/10/20		EPA 8260C m
Petroleum Hydrocarbons F2-F4 in Soil (1, 2)	3	2021/10/18	2021/10/19	CAM SOP-00316	CCME CWS m
Moisture (1)	3	N/A	2021/10/15	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM) (1)	3	2021/10/19	2021/10/20	CAM SOP-00318	EPA 8270D m
Volatile Organic Compounds and F1 PHCs (1)	3	N/A	2021/10/19	CAM SOP-00230	EPA 8260C m

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum (1)	2	N/A	2021/10/19	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum (1)	2	N/A	2021/10/20		EPA 8260C m
Petroleum Hydrocarbons F2-F4 in Water (1, 2)	2	2021/10/18	2021/10/19	CAM SOP-00316	CCME PHC-CWS m
PAH Compounds in Water by GC/MS (SIM) (1)	2	2021/10/18	2021/10/19	CAM SOP-00318	EPA 8270D m
Volatile Organic Compounds and F1 PHCs (1)	3	N/A	2021/10/20	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.

Your Project #: 285722.003
Your C.O.C. #: 832329-06-01

Attention: Matt, Ryan, Mike

Pinchin Ltd
Ottawa
1 Hines Road
Suite 200
Kanata, ON
CANADA K2K 3C7

Report Date: 2021/10/21
Report #: R6862370
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1T8290
Received: 2021/10/13, 16:20

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.

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) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8

(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas Laboratories 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

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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BV Labs 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.

O.REG 153 PAHS (SOIL)

Bureau Veritas ID		QXT935		QXT936		QXT937		
Sampling Date		2021/10/06		2021/10/06		2021/10/06		
COC Number		832329-06-01		832329-06-01		832329-06-01		
	UNITS	BHMW125 SS-7	RDL	BHMW126 SS-1	RDL	BHMW127 SS-6	RDL	QC Batch
Inorganics								
Moisture	%	10	1.0	8.9	1.0	15	1.0	7639393
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	0.0071	17	0.071	<0.0071	0.0071	7637968
Polyaromatic Hydrocarbons								
Acenaphthene	ug/g	<0.0050	0.0050	39	0.050	<0.0050	0.0050	7646770
Acenaphthylene	ug/g	<0.0050	0.0050	0.77	0.050	<0.0050	0.0050	7646770
Anthracene	ug/g	<0.0050	0.0050	110	0.050	<0.0050	0.0050	7646770
Benzo(a)anthracene	ug/g	<0.0050	0.0050	180	0.050	<0.0050	0.0050	7646770
Benzo(a)pyrene	ug/g	<0.0050	0.0050	120	0.050	<0.0050	0.0050	7646770
Benzo(b/j)fluoranthene	ug/g	<0.0050	0.0050	200	0.050	<0.0050	0.0050	7646770
Benzo(g,h,i)perylene	ug/g	<0.0050	0.0050	57	0.050	<0.0050	0.0050	7646770
Benzo(k)fluoranthene	ug/g	<0.0050	0.0050	65	0.050	<0.0050	0.0050	7646770
Chrysene	ug/g	<0.0050	0.0050	140	0.050	<0.0050	0.0050	7646770
Dibenzo(a,h)anthracene	ug/g	<0.0050	0.0050	18	0.050	<0.0050	0.0050	7646770
Fluoranthene	ug/g	<0.0050	0.0050	450	0.050	0.0079	0.0050	7646770
Fluorene	ug/g	<0.0050	0.0050	54	0.050	<0.0050	0.0050	7646770
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	0.0050	62	0.050	<0.0050	0.0050	7646770
1-Methylnaphthalene	ug/g	<0.0050	0.0050	7.2	0.050	<0.0050	0.0050	7646770
2-Methylnaphthalene	ug/g	<0.0050	0.0050	9.3	0.050	<0.0050	0.0050	7646770
Naphthalene	ug/g	<0.0050	0.0050	12	0.050	<0.0050	0.0050	7646770
Phenanthrene	ug/g	<0.0050	0.0050	430	0.050	0.0087	0.0050	7646770
Pyrene	ug/g	<0.0050	0.0050	330	0.050	0.0057	0.0050	7646770
Surrogate Recovery (%)								
D10-Anthracene	%	94		120		99		7646770
D14-Terphenyl (FS)	%	90		313 (1)		96		7646770
D8-Acenaphthylene	%	56		120		68		7646770

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

(1) Surrogate recovery was above the upper control limit due to matrix interference. This may represent a high bias in some results.

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

Bureau Veritas ID		QXT935	QXT936	QXT937		
Sampling Date		2021/10/06	2021/10/06	2021/10/06		
COC Number		832329-06-01	832329-06-01	832329-06-01		
	UNITS	BHMW125 SS-7	BHMW126 SS-1	BHMW127 SS-6	RDL	QC Batch
Calculated Parameters						
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	<0.050	0.050	7638071
Volatile Organics						
Acetone (2-Propanone)	ug/g	<0.49	<0.49	<0.49	0.49	7642664
Benzene	ug/g	<0.0060	0.0085	<0.0060	0.0060	7642664
Bromodichloromethane	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Bromoform	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Bromomethane	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Carbon Tetrachloride	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Chlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Chloroform	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Dibromochloromethane	ug/g	<0.040	<0.040	<0.040	0.040	7642664
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	7642664
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	7642664
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	<0.040	0.040	7642664
1,1-Dichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	7642664
1,2-Dichloroethane	ug/g	<0.049	<0.049	<0.049	0.049	7642664
1,1-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	7642664
cis-1,2-Dichloroethylene	ug/g	<0.040	0.057	<0.040	0.040	7642664
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	7642664
1,2-Dichloropropane	ug/g	<0.040	<0.040	<0.040	0.040	7642664
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	<0.030	0.030	7642664
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Ethylbenzene	ug/g	<0.010	0.017	<0.010	0.010	7642664
Ethylene Dibromide	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Hexane	ug/g	<0.040	0.058	<0.040	0.040	7642664
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	<0.049	0.049	7642664
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	<0.40	0.40	7642664
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	<0.40	0.40	7642664
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Styrene	ug/g	<0.040	<0.040	<0.040	0.040	7642664
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	0.040	7642664
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Tetrachloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Toluene	ug/g	<0.020	0.053	<0.020	0.020	7642664
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	7642664

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Bureau Veritas ID		QXT935	QXT936	QXT937		
Sampling Date		2021/10/06	2021/10/06	2021/10/06		
COC Number		832329-06-01	832329-06-01	832329-06-01		
	UNITS	BHMW125 SS-7	BHMW126 SS-1	BHMW127 SS-6	RDL	QC Batch
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Trichloroethylene	ug/g	<0.010	0.023	<0.010	0.010	7642664
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	<0.040	0.040	7642664
Vinyl Chloride	ug/g	<0.019	<0.019	<0.019	0.019	7642664
p+m-Xylene	ug/g	<0.020	0.088	<0.020	0.020	7642664
o-Xylene	ug/g	<0.020	0.053	<0.020	0.020	7642664
Total Xylenes	ug/g	<0.020	0.14	<0.020	0.020	7642664
F1 (C6-C10)	ug/g	<10	<10	<10	10	7642664
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	10	7642664
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/g	<10	290	<10	10	7644377
F3 (C16-C34 Hydrocarbons)	ug/g	<50	6200	<50	50	7644377
F4 (C34-C50 Hydrocarbons)	ug/g	<50	1400	<50	50	7644377
Reached Baseline at C50	ug/g	Yes	Yes	Yes		7644377
Surrogate Recovery (%)						
o-Terphenyl	%	86	99	84		7644377
4-Bromofluorobenzene	%	98	99	98		7642664
D10-o-Xylene	%	100	106	109		7642664
D4-1,2-Dichloroethane	%	89	89	88		7642664
D8-Toluene	%	97	97	97		7642664

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		QXT940		
Sampling Date		2021/10/12		
COC Number		832329-06-01		
	UNITS	TRIP BLANK	RDL	QC Batch
Volatile Organics				
Acetone (2-Propanone)	ug/L	<10	10	7640033
Benzene	ug/L	<0.17	0.17	7640033
Bromodichloromethane	ug/L	<0.50	0.50	7640033
Bromoform	ug/L	<1.0	1.0	7640033
Bromomethane	ug/L	<0.50	0.50	7640033
Carbon Tetrachloride	ug/L	<0.20	0.20	7640033
Chlorobenzene	ug/L	<0.20	0.20	7640033
Chloroform	ug/L	<0.20	0.20	7640033
Dibromochloromethane	ug/L	<0.50	0.50	7640033
1,2-Dichlorobenzene	ug/L	<0.50	0.50	7640033
1,3-Dichlorobenzene	ug/L	<0.50	0.50	7640033
1,4-Dichlorobenzene	ug/L	<0.50	0.50	7640033
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	7640033
1,1-Dichloroethane	ug/L	<0.20	0.20	7640033
1,2-Dichloroethane	ug/L	<0.50	0.50	7640033
1,1-Dichloroethylene	ug/L	<0.20	0.20	7640033
cis-1,2-Dichloroethylene	ug/L	<0.50	0.50	7640033
trans-1,2-Dichloroethylene	ug/L	<0.50	0.50	7640033
1,2-Dichloropropane	ug/L	<0.20	0.20	7640033
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	7640033
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	7640033
Ethylbenzene	ug/L	<0.20	0.20	7640033
Ethylene Dibromide	ug/L	<0.20	0.20	7640033
Hexane	ug/L	<1.0	1.0	7640033
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	7640033
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	7640033
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	7640033
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	7640033
Styrene	ug/L	<0.50	0.50	7640033
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	7640033
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	7640033
Tetrachloroethylene	ug/L	<0.20	0.20	7640033
Toluene	ug/L	<0.20	0.20	7640033
1,1,1-Trichloroethane	ug/L	<0.20	0.20	7640033
1,1,2-Trichloroethane	ug/L	<0.50	0.50	7640033
Trichloroethylene	ug/L	<0.20	0.20	7640033

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		QXT940		
Sampling Date		2021/10/12		
COC Number		832329-06-01		
	UNITS	**TRIP BLANK**	**RDL**	**QC Batch**
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	7640033
Vinyl Chloride	ug/L	<0.20	0.20	7640033
p+m-Xylene	ug/L	<0.20	0.20	7640033
o-Xylene	ug/L	<0.20	0.20	7640033
Total Xylenes	ug/L	<0.20	0.20	7640033
F1 (C6-C10)	ug/L	<25	25	7640033
F1 (C6-C10) - BTEX	ug/L	<25	25	7640033
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	87		7640033
D4-1,2-Dichloroethane	%	98		7640033
D8-Toluene	%	106		7640033

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

O.REG 153 PAHS (WATER)

Bureau Veritas ID		QXT938	QXT939		
Sampling Date		2021/10/12	2021/10/12		
COC Number		832329-06-01	832329-06-01		
	UNITS	BHMW125	BHM127	RDL	QC Batch
Calculated Parameters					
Methylnaphthalene, 2-(1-)	ug/L	<0.071	<0.071	0.071	7637229
Polyaromatic Hydrocarbons					
Acenaphthene	ug/L	<0.050	0.10	0.050	7643885
Acenaphthylene	ug/L	<0.050	<0.050	0.050	7643885
Anthracene	ug/L	<0.050	<0.050	0.050	7643885
Benzo(a)anthracene	ug/L	<0.050	<0.050	0.050	7643885
Benzo(a)pyrene	ug/L	<0.0090	0.040	0.0090	7643885
Benzo(b/j)fluoranthene	ug/L	<0.050	<0.050	0.050	7643885
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	0.050	7643885
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	0.050	7643885
Chrysene	ug/L	<0.050	0.057	0.050	7643885
Dibenzo(a,h)anthracene	ug/L	<0.050	<0.050	0.050	7643885
Fluoranthene	ug/L	<0.050	0.14	0.050	7643885
Fluorene	ug/L	<0.050	0.076	0.050	7643885
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	0.050	7643885
1-Methylnaphthalene	ug/L	<0.050	<0.050	0.050	7643885
2-Methylnaphthalene	ug/L	<0.050	<0.050	0.050	7643885
Naphthalene	ug/L	<0.050	0.053	0.050	7643885
Phenanthrene	ug/L	<0.030	0.25	0.030	7643885
Pyrene	ug/L	<0.050	0.11	0.050	7643885
Surrogate Recovery (%)					
D10-Anthracene	%	109	115		7643885
D14-Terphenyl (FS)	%	103	110		7643885
D8-Acenaphthylene	%	85	94		7643885

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

Bureau Veritas ID		QXT938			QXT938			QXT939		
Sampling Date		2021/10/12			2021/10/12			2021/10/12		
COC Number		832329-06-01			832329-06-01			832329-06-01		
	UNITS	BHMW125	RDL	QC Batch	BHMW125 Lab-Dup	RDL	QC Batch	BHM127	RDL	QC Batch
Calculated Parameters										
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	0.50	7637343				<0.50	0.50	7637343
Volatile Organics										
Acetone (2-Propanone)	ug/L	<10	10	7640033	<10	10	7640033	<10	10	7640033
Benzene	ug/L	<0.17	0.17	7640033	<0.17	0.17	7640033	0.47	0.17	7640033
Bromodichloromethane	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	<0.50	0.50	7640033
Bromoform	ug/L	<1.0	1.0	7640033	<1.0	1.0	7640033	<1.0	1.0	7640033
Bromomethane	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	<0.50	0.50	7640033
Carbon Tetrachloride	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
Chlorobenzene	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
Chloroform	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
Dibromochloromethane	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	<0.50	0.50	7640033
1,2-Dichlorobenzene	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	<0.50	0.50	7640033
1,3-Dichlorobenzene	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	<0.50	0.50	7640033
1,4-Dichlorobenzene	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	<0.50	0.50	7640033
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	7640033	<1.0	1.0	7640033	<1.0	1.0	7640033
1,1-Dichloroethane	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	0.48	0.20	7640033
1,2-Dichloroethane	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	1.1	0.50	7640033
1,1-Dichloroethylene	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
cis-1,2-Dichloroethylene	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	<0.50	0.50	7640033
trans-1,2-Dichloroethylene	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	<0.50	0.50	7640033
1,2-Dichloropropane	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	7640033	<0.30	0.30	7640033	<0.30	0.30	7640033
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	7640033	<0.40	0.40	7640033	<0.40	0.40	7640033
Ethylbenzene	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
Ethylene Dibromide	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
Hexane	ug/L	<1.0	1.0	7640033	<1.0	1.0	7640033	<1.0	1.0	7640033
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	7640033	<2.0	2.0	7640033	<2.0	2.0	7640033
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	7640033	<10	10	7640033	<10	10	7640033
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	7640033	<5.0	5.0	7640033	<5.0	5.0	7640033
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	46	0.50	7640033
Styrene	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	<0.50	0.50	7640033
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	<0.50	0.50	7640033
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	<0.50	0.50	7640033
Tetrachloroethylene	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
Toluene	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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

Bureau Veritas ID		QXT938			QXT938			QXT939		
Sampling Date		2021/10/12			2021/10/12			2021/10/12		
COC Number		832329-06-01			832329-06-01			832329-06-01		
	UNITS	BHMW125	RDL	QC Batch	BHMW125 Lab-Dup	RDL	QC Batch	BHM127	RDL	QC Batch
1,1,1-Trichloroethane	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
1,1,2-Trichloroethane	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	<0.50	0.50	7640033
Trichloroethylene	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	7640033	<0.50	0.50	7640033	<0.50	0.50	7640033
Vinyl Chloride	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
p+m-Xylene	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
o-Xylene	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
Total Xylenes	ug/L	<0.20	0.20	7640033	<0.20	0.20	7640033	<0.20	0.20	7640033
F1 (C6-C10)	ug/L	<25	25	7640033	<25	25	7640033	<25	25	7640033
F1 (C6-C10) - BTEX	ug/L	<25	25	7640033	<25	25	7640033	<25	25	7640033
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	7643884				<100	100	7643884
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	7643884				<200	200	7643884
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	7643884				<200	200	7643884
Reached Baseline at C50	ug/L	Yes		7643884				Yes		7643884
Surrogate Recovery (%)										
o-Terphenyl	%	89		7643884				92		7643884
4-Bromofluorobenzene	%	85		7640033	84		7640033	87		7640033
D4-1,2-Dichloroethane	%	94		7640033	91		7640033	98		7640033
D8-Toluene	%	108		7640033	110		7640033	106		7640033

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

TEST SUMMARY

Bureau Veritas ID: QXT935 **Collected:** 2021/10/06
Sample ID: BHMW125 SS-7 **Shipped:**
Matrix: Soil **Received:** 2021/10/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7637968	N/A	2021/10/20	Automated Statchk
1,3-Dichloropropene Sum	CALC	7638071	N/A	2021/10/20	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7644377	2021/10/18	2021/10/19	Ravinder Gaidhu
Moisture	BAL	7639393	N/A	2021/10/15	Muhammad Chhaidan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7646770	2021/10/19	2021/10/20	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7642664	N/A	2021/10/19	Anna Gabrielyan

Bureau Veritas ID: QXT936 **Collected:** 2021/10/06
Sample ID: BHMW126 SS-1 **Shipped:**
Matrix: Soil **Received:** 2021/10/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7637968	N/A	2021/10/20	Automated Statchk
1,3-Dichloropropene Sum	CALC	7638071	N/A	2021/10/20	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7644377	2021/10/18	2021/10/19	Ravinder Gaidhu
Moisture	BAL	7639393	N/A	2021/10/15	Muhammad Chhaidan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7646770	2021/10/19	2021/10/20	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7642664	N/A	2021/10/19	Anna Gabrielyan

Bureau Veritas ID: QXT937 **Collected:** 2021/10/06
Sample ID: BHMW127 SS-6 **Shipped:**
Matrix: Soil **Received:** 2021/10/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7637968	N/A	2021/10/20	Automated Statchk
1,3-Dichloropropene Sum	CALC	7638071	N/A	2021/10/20	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7644377	2021/10/18	2021/10/19	Ravinder Gaidhu
Moisture	BAL	7639393	N/A	2021/10/15	Muhammad Chhaidan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7646770	2021/10/19	2021/10/20	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7642664	N/A	2021/10/19	Anna Gabrielyan

Bureau Veritas ID: QXT938 **Collected:** 2021/10/12
Sample ID: BHMW125 **Shipped:**
Matrix: Water **Received:** 2021/10/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7637229	N/A	2021/10/19	Automated Statchk
1,3-Dichloropropene Sum	CALC	7637343	N/A	2021/10/20	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7643884	2021/10/18	2021/10/19	Ravinder Gaidhu
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7643885	2021/10/18	2021/10/19	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7640033	N/A	2021/10/20	Blair Gannon

TEST SUMMARY

Bureau Veritas ID: QXT938 Dup
Sample ID: BHMW125
Matrix: Water

Collected: 2021/10/12
Shipped:
Received: 2021/10/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7640033	N/A	2021/10/20	Blair Gannon

Bureau Veritas ID: QXT939
Sample ID: BHM127
Matrix: Water

Collected: 2021/10/12
Shipped:
Received: 2021/10/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7637229	N/A	2021/10/19	Automated Statchk
1,3-Dichloropropene Sum	CALC	7637343	N/A	2021/10/20	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7643884	2021/10/18	2021/10/19	Ravinder Gaidhu
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7643885	2021/10/18	2021/10/19	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7640033	N/A	2021/10/20	Blair Gannon

Bureau Veritas ID: QXT940
Sample ID: TRIP BLANK
Matrix: Water

Collected: 2021/10/12
Shipped:
Received: 2021/10/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7640033	N/A	2021/10/20	Blair Gannon

GENERAL COMMENTS

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

Package 1	6.0°C

Cooler custody seal was present and intact.

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.

Sample QXT936 [BHMW126 SS-1] : PAH ANALYSIS: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7639393	MBW	RPD	Moisture	2021/10/15	15		%	20
7640033	BG1	Matrix Spike [QXT938-03]	4-Bromofluorobenzene	2021/10/19		98	%	70 - 130
			D4-1,2-Dichloroethane	2021/10/19		94	%	70 - 130
			D8-Toluene	2021/10/19		106	%	70 - 130
			Acetone (2-Propanone)	2021/10/19		86	%	60 - 140
			Benzene	2021/10/19		91	%	70 - 130
			Bromodichloromethane	2021/10/19		94	%	70 - 130
			Bromoform	2021/10/19		87	%	70 - 130
			Bromomethane	2021/10/19		95	%	60 - 140
			Carbon Tetrachloride	2021/10/19		101	%	70 - 130
			Chlorobenzene	2021/10/19		97	%	70 - 130
			Chloroform	2021/10/19		97	%	70 - 130
			Dibromochloromethane	2021/10/19		90	%	70 - 130
			1,2-Dichlorobenzene	2021/10/19		97	%	70 - 130
			1,3-Dichlorobenzene	2021/10/19		108	%	70 - 130
			1,4-Dichlorobenzene	2021/10/19		96	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2021/10/19		91	%	60 - 140
			1,1-Dichloroethane	2021/10/19		94	%	70 - 130
			1,2-Dichloroethane	2021/10/19		87	%	70 - 130
			1,1-Dichloroethylene	2021/10/19		102	%	70 - 130
			cis-1,2-Dichloroethylene	2021/10/19		97	%	70 - 130
			trans-1,2-Dichloroethylene	2021/10/19		99	%	70 - 130
			1,2-Dichloropropane	2021/10/19		92	%	70 - 130
			cis-1,3-Dichloropropene	2021/10/19		83	%	70 - 130
			trans-1,3-Dichloropropene	2021/10/19		90	%	70 - 130
			Ethylbenzene	2021/10/19		95	%	70 - 130
			Ethylene Dibromide	2021/10/19		91	%	70 - 130
			Hexane	2021/10/19		103	%	70 - 130
			Methylene Chloride(Dichloromethane)	2021/10/19		98	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2021/10/19		82	%	60 - 140
			Methyl Isobutyl Ketone	2021/10/19		66 (1)	%	70 - 130
			Methyl t-butyl ether (MTBE)	2021/10/19		84	%	70 - 130
			Styrene	2021/10/19		96	%	70 - 130
			1,1,1,2-Tetrachloroethane	2021/10/19		98	%	70 - 130
			1,1,2,2-Tetrachloroethane	2021/10/19		88	%	70 - 130
			Tetrachloroethylene	2021/10/19		100	%	70 - 130
			Toluene	2021/10/19		91	%	70 - 130
			1,1,1-Trichloroethane	2021/10/19		104	%	70 - 130
			1,1,2-Trichloroethane	2021/10/19		100	%	70 - 130
			Trichloroethylene	2021/10/19		106	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2021/10/19		104	%	70 - 130
			Vinyl Chloride	2021/10/19		98	%	70 - 130
			p+m-Xylene	2021/10/19		92	%	70 - 130
			o-Xylene	2021/10/19		90	%	70 - 130
			F1 (C6-C10)	2021/10/19		117	%	60 - 140
7640033	BG1	Spiked Blank	4-Bromofluorobenzene	2021/10/19		98	%	70 - 130
			D4-1,2-Dichloroethane	2021/10/19		102	%	70 - 130
			D8-Toluene	2021/10/19		102	%	70 - 130
			Acetone (2-Propanone)	2021/10/19		95	%	60 - 140
			Benzene	2021/10/19		88	%	70 - 130
			Bromodichloromethane	2021/10/19		97	%	70 - 130
			Bromoform	2021/10/19		92	%	70 - 130
			Bromomethane	2021/10/19		94	%	60 - 140
			Carbon Tetrachloride	2021/10/19		93	%	70 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Chlorobenzene	2021/10/19		94	%	70 - 130
			Chloroform	2021/10/19		96	%	70 - 130
			Dibromochloromethane	2021/10/19		92	%	70 - 130
			1,2-Dichlorobenzene	2021/10/19		94	%	70 - 130
			1,3-Dichlorobenzene	2021/10/19		98	%	70 - 130
			1,4-Dichlorobenzene	2021/10/19		94	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2021/10/19		83	%	60 - 140
			1,1-Dichloroethane	2021/10/19		92	%	70 - 130
			1,2-Dichloroethane	2021/10/19		93	%	70 - 130
			1,1-Dichloroethylene	2021/10/19		95	%	70 - 130
			cis-1,2-Dichloroethylene	2021/10/19		96	%	70 - 130
			trans-1,2-Dichloroethylene	2021/10/19		93	%	70 - 130
			1,2-Dichloropropane	2021/10/19		93	%	70 - 130
			cis-1,3-Dichloropropene	2021/10/19		86	%	70 - 130
			trans-1,3-Dichloropropene	2021/10/19		92	%	70 - 130
			Ethylbenzene	2021/10/19		87	%	70 - 130
			Ethylene Dibromide	2021/10/19		96	%	70 - 130
			Hexane	2021/10/19		95	%	70 - 130
			Methylene Chloride(Dichloromethane)	2021/10/19		100	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2021/10/19		96	%	60 - 140
			Methyl Isobutyl Ketone	2021/10/19		83	%	70 - 130
			Methyl t-butyl ether (MTBE)	2021/10/19		90	%	70 - 130
			Styrene	2021/10/19		95	%	70 - 130
			1,1,1,2-Tetrachloroethane	2021/10/19		96	%	70 - 130
			1,1,2,2-Tetrachloroethane	2021/10/19		95	%	70 - 130
			Tetrachloroethylene	2021/10/19		88	%	70 - 130
			Toluene	2021/10/19		85	%	70 - 130
			1,1,1-Trichloroethane	2021/10/19		96	%	70 - 130
			1,1,2-Trichloroethane	2021/10/19		103	%	70 - 130
			Trichloroethylene	2021/10/19		99	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2021/10/19		95	%	70 - 130
			Vinyl Chloride	2021/10/19		92	%	70 - 130
			p+m-Xylene	2021/10/19		84	%	70 - 130
			o-Xylene	2021/10/19		85	%	70 - 130
			F1 (C6-C10)	2021/10/19		97	%	60 - 140
7640033	BG1	Method Blank	4-Bromofluorobenzene	2021/10/19		90	%	70 - 130
			D4-1,2-Dichloroethane	2021/10/19		109	%	70 - 130
			D8-Toluene	2021/10/19		100	%	70 - 130
			Acetone (2-Propanone)	2021/10/19	<10		ug/L	
			Benzene	2021/10/19	<0.17		ug/L	
			Bromodichloromethane	2021/10/19	<0.50		ug/L	
			Bromoform	2021/10/19	<1.0		ug/L	
			Bromomethane	2021/10/19	<0.50		ug/L	
			Carbon Tetrachloride	2021/10/19	<0.20		ug/L	
			Chlorobenzene	2021/10/19	<0.20		ug/L	
			Chloroform	2021/10/19	<0.20		ug/L	
			Dibromochloromethane	2021/10/19	<0.50		ug/L	
			1,2-Dichlorobenzene	2021/10/19	<0.50		ug/L	
			1,3-Dichlorobenzene	2021/10/19	<0.50		ug/L	
			1,4-Dichlorobenzene	2021/10/19	<0.50		ug/L	
			Dichlorodifluoromethane (FREON 12)	2021/10/19	<1.0		ug/L	
			1,1-Dichloroethane	2021/10/19	<0.20		ug/L	
			1,2-Dichloroethane	2021/10/19	<0.50		ug/L	
			1,1-Dichloroethylene	2021/10/19	<0.20		ug/L	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			cis-1,2-Dichloroethylene	2021/10/19	<0.50		ug/L	
			trans-1,2-Dichloroethylene	2021/10/19	<0.50		ug/L	
			1,2-Dichloropropane	2021/10/19	<0.20		ug/L	
			cis-1,3-Dichloropropene	2021/10/19	<0.30		ug/L	
			trans-1,3-Dichloropropene	2021/10/19	<0.40		ug/L	
			Ethylbenzene	2021/10/19	<0.20		ug/L	
			Ethylene Dibromide	2021/10/19	<0.20		ug/L	
			Hexane	2021/10/19	<1.0		ug/L	
			Methylene Chloride(Dichloromethane)	2021/10/19	<2.0		ug/L	
			Methyl Ethyl Ketone (2-Butanone)	2021/10/19	<10		ug/L	
			Methyl Isobutyl Ketone	2021/10/19	<5.0		ug/L	
			Methyl t-butyl ether (MTBE)	2021/10/19	<0.50		ug/L	
			Styrene	2021/10/19	<0.50		ug/L	
			1,1,1,2-Tetrachloroethane	2021/10/19	<0.50		ug/L	
			1,1,2,2-Tetrachloroethane	2021/10/19	<0.50		ug/L	
			Tetrachloroethylene	2021/10/19	<0.20		ug/L	
			Toluene	2021/10/19	<0.20		ug/L	
			1,1,1-Trichloroethane	2021/10/19	<0.20		ug/L	
			1,1,2-Trichloroethane	2021/10/19	<0.50		ug/L	
			Trichloroethylene	2021/10/19	<0.20		ug/L	
			Trichlorofluoromethane (FREON 11)	2021/10/19	<0.50		ug/L	
			Vinyl Chloride	2021/10/19	<0.20		ug/L	
			p+m-Xylene	2021/10/19	<0.20		ug/L	
			o-Xylene	2021/10/19	<0.20		ug/L	
			Total Xylenes	2021/10/19	<0.20		ug/L	
			F1 (C6-C10)	2021/10/19	<25		ug/L	
			F1 (C6-C10) - BTEX	2021/10/19	<25		ug/L	
7640033	BG1	RPD [QXT938-03]	Acetone (2-Propanone)	2021/10/20	NC		%	30
			Benzene	2021/10/20	NC		%	30
			Bromodichloromethane	2021/10/20	NC		%	30
			Bromoform	2021/10/20	NC		%	30
			Bromomethane	2021/10/20	NC		%	30
			Carbon Tetrachloride	2021/10/20	NC		%	30
			Chlorobenzene	2021/10/20	NC		%	30
			Chloroform	2021/10/20	NC		%	30
			Dibromochloromethane	2021/10/20	NC		%	30
			1,2-Dichlorobenzene	2021/10/20	NC		%	30
			1,3-Dichlorobenzene	2021/10/20	NC		%	30
			1,4-Dichlorobenzene	2021/10/20	NC		%	30
			Dichlorodifluoromethane (FREON 12)	2021/10/20	NC		%	30
			1,1-Dichloroethane	2021/10/20	NC		%	30
			1,2-Dichloroethane	2021/10/20	NC		%	30
			1,1-Dichloroethylene	2021/10/20	NC		%	30
			cis-1,2-Dichloroethylene	2021/10/20	NC		%	30
			trans-1,2-Dichloroethylene	2021/10/20	NC		%	30
			1,2-Dichloropropane	2021/10/20	NC		%	30
			cis-1,3-Dichloropropene	2021/10/20	NC		%	30
			trans-1,3-Dichloropropene	2021/10/20	NC		%	30
			Ethylbenzene	2021/10/20	NC		%	30
			Ethylene Dibromide	2021/10/20	NC		%	30
			Hexane	2021/10/20	NC		%	30
			Methylene Chloride(Dichloromethane)	2021/10/20	NC		%	30
			Methyl Ethyl Ketone (2-Butanone)	2021/10/20	NC		%	30
			Methyl Isobutyl Ketone	2021/10/20	NC		%	30

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Methyl t-butyl ether (MTBE)	2021/10/20	NC		%	30
			Styrene	2021/10/20	NC		%	30
			1,1,1,2-Tetrachloroethane	2021/10/20	NC		%	30
			1,1,2,2-Tetrachloroethane	2021/10/20	NC		%	30
			Tetrachloroethylene	2021/10/20	NC		%	30
			Toluene	2021/10/20	NC		%	30
			1,1,1-Trichloroethane	2021/10/20	NC		%	30
			1,1,2-Trichloroethane	2021/10/20	NC		%	30
			Trichloroethylene	2021/10/20	NC		%	30
			Trichlorofluoromethane (FREON 11)	2021/10/20	NC		%	30
			Vinyl Chloride	2021/10/20	NC		%	30
			p+m-Xylene	2021/10/20	NC		%	30
			o-Xylene	2021/10/20	NC		%	30
			Total Xylenes	2021/10/20	NC		%	30
			F1 (C6-C10)	2021/10/20	NC		%	30
			F1 (C6-C10) - BTEX	2021/10/20	NC		%	30
7642664	AYA	Matrix Spike	4-Bromofluorobenzene	2021/10/18		109	%	60 - 140
			D10-o-Xylene	2021/10/18		112	%	60 - 130
			D4-1,2-Dichloroethane	2021/10/18		86	%	60 - 140
			D8-Toluene	2021/10/18		105	%	60 - 140
			Acetone (2-Propanone)	2021/10/18		83	%	60 - 140
			Benzene	2021/10/18		86	%	60 - 140
			Bromodichloromethane	2021/10/18		90	%	60 - 140
			Bromoform	2021/10/18		85	%	60 - 140
			Bromomethane	2021/10/18		92	%	60 - 140
			Carbon Tetrachloride	2021/10/18		93	%	60 - 140
			Chlorobenzene	2021/10/18		100	%	60 - 140
			Chloroform	2021/10/18		87	%	60 - 140
			Dibromochloromethane	2021/10/18		75	%	60 - 140
			1,2-Dichlorobenzene	2021/10/18		98	%	60 - 140
			1,3-Dichlorobenzene	2021/10/18		106	%	60 - 140
			1,4-Dichlorobenzene	2021/10/18		112	%	60 - 140
			Dichlorodifluoromethane (FREON 12)	2021/10/18		95	%	60 - 140
			1,1-Dichloroethane	2021/10/18		84	%	60 - 140
			1,2-Dichloroethane	2021/10/18		81	%	60 - 140
			1,1-Dichloroethylene	2021/10/18		96	%	60 - 140
			cis-1,2-Dichloroethylene	2021/10/18		94	%	60 - 140
			trans-1,2-Dichloroethylene	2021/10/18		93	%	60 - 140
			1,2-Dichloropropane	2021/10/18		88	%	60 - 140
			cis-1,3-Dichloropropene	2021/10/18		102	%	60 - 140
			trans-1,3-Dichloropropene	2021/10/18		105	%	60 - 140
			Ethylbenzene	2021/10/18		103	%	60 - 140
			Ethylene Dibromide	2021/10/18		84	%	60 - 140
			Hexane	2021/10/18		104	%	60 - 140
			Methylene Chloride(Dichloromethane)	2021/10/18		86	%	60 - 140
			Methyl Ethyl Ketone (2-Butanone)	2021/10/18		96	%	60 - 140
			Methyl Isobutyl Ketone	2021/10/18		79	%	60 - 140
			Methyl t-butyl ether (MTBE)	2021/10/18		98	%	60 - 140
			Styrene	2021/10/18		90	%	60 - 140
			1,1,1,2-Tetrachloroethane	2021/10/18		90	%	60 - 140
			1,1,2,2-Tetrachloroethane	2021/10/18		78	%	60 - 140
			Tetrachloroethylene	2021/10/18		88	%	60 - 140
			Toluene	2021/10/18		95	%	60 - 140
			1,1,1-Trichloroethane	2021/10/18		95	%	60 - 140

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1,1,2-Trichloroethane	2021/10/18		85	%	60 - 140
			Trichloroethylene	2021/10/18		102	%	60 - 140
			Trichlorofluoromethane (FREON 11)	2021/10/18		95	%	60 - 140
			Vinyl Chloride	2021/10/18		94	%	60 - 140
			p+m-Xylene	2021/10/18		110	%	60 - 140
			o-Xylene	2021/10/18		103	%	60 - 140
			F1 (C6-C10)	2021/10/18		88	%	60 - 140
7642664	AYA	Spiked Blank	4-Bromofluorobenzene	2021/10/18		109	%	60 - 140
			D10-o-Xylene	2021/10/18		113	%	60 - 130
			D4-1,2-Dichloroethane	2021/10/18		89	%	60 - 140
			D8-Toluene	2021/10/18		105	%	60 - 140
			Acetone (2-Propanone)	2021/10/18		84	%	60 - 140
			Benzene	2021/10/18		84	%	60 - 130
			Bromodichloromethane	2021/10/18		90	%	60 - 130
			Bromoform	2021/10/18		86	%	60 - 130
			Bromomethane	2021/10/18		84	%	60 - 140
			Carbon Tetrachloride	2021/10/18		92	%	60 - 130
			Chlorobenzene	2021/10/18		97	%	60 - 130
			Chloroform	2021/10/18		87	%	60 - 130
			Dibromochloromethane	2021/10/18		76	%	60 - 130
			1,2-Dichlorobenzene	2021/10/18		97	%	60 - 130
			1,3-Dichlorobenzene	2021/10/18		102	%	60 - 130
			1,4-Dichlorobenzene	2021/10/18		108	%	60 - 130
			Dichlorodifluoromethane (FREON 12)	2021/10/18		64	%	60 - 140
			1,1-Dichloroethane	2021/10/18		83	%	60 - 130
			1,2-Dichloroethane	2021/10/18		81	%	60 - 130
			1,1-Dichloroethylene	2021/10/18		92	%	60 - 130
			cis-1,2-Dichloroethylene	2021/10/18		93	%	60 - 130
			trans-1,2-Dichloroethylene	2021/10/18		92	%	60 - 130
			1,2-Dichloropropane	2021/10/18		88	%	60 - 130
			cis-1,3-Dichloropropene	2021/10/18		92	%	60 - 130
			trans-1,3-Dichloropropene	2021/10/18		95	%	60 - 130
			Ethylbenzene	2021/10/18		97	%	60 - 130
			Ethylene Dibromide	2021/10/18		84	%	60 - 130
			Hexane	2021/10/18		99	%	60 - 130
			Methylene Chloride(Dichloromethane)	2021/10/18		86	%	60 - 130
			Methyl Ethyl Ketone (2-Butanone)	2021/10/18		96	%	60 - 140
			Methyl Isobutyl Ketone	2021/10/18		77	%	60 - 130
			Methyl t-butyl ether (MTBE)	2021/10/18		92	%	60 - 130
			Styrene	2021/10/18		87	%	60 - 130
			1,1,1,2-Tetrachloroethane	2021/10/18		90	%	60 - 130
			1,1,2,2-Tetrachloroethane	2021/10/18		81	%	60 - 130
			Tetrachloroethylene	2021/10/18		88	%	60 - 130
			Toluene	2021/10/18		93	%	60 - 130
			1,1,1-Trichloroethane	2021/10/18		94	%	60 - 130
			1,1,2-Trichloroethane	2021/10/18		86	%	60 - 130
			Trichloroethylene	2021/10/18		100	%	60 - 130
			Trichlorofluoromethane (FREON 11)	2021/10/18		91	%	60 - 130
			Vinyl Chloride	2021/10/18		84	%	60 - 130
			p+m-Xylene	2021/10/18		102	%	60 - 130
			o-Xylene	2021/10/18		99	%	60 - 130
			F1 (C6-C10)	2021/10/18		96	%	80 - 120
7642664	AYA	Method Blank	4-Bromofluorobenzene	2021/10/18		96	%	60 - 140
			D10-o-Xylene	2021/10/18		107	%	60 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			D4-1,2-Dichloroethane	2021/10/18		91	%	60 - 140
			D8-Toluene	2021/10/18		95	%	60 - 140
			Acetone (2-Propanone)	2021/10/18	<0.49		ug/g	
			Benzene	2021/10/18	<0.0060		ug/g	
			Bromodichloromethane	2021/10/18	<0.040		ug/g	
			Bromoform	2021/10/18	<0.040		ug/g	
			Bromomethane	2021/10/18	<0.040		ug/g	
			Carbon Tetrachloride	2021/10/18	<0.040		ug/g	
			Chlorobenzene	2021/10/18	<0.040		ug/g	
			Chloroform	2021/10/18	<0.040		ug/g	
			Dibromochloromethane	2021/10/18	<0.040		ug/g	
			1,2-Dichlorobenzene	2021/10/18	<0.040		ug/g	
			1,3-Dichlorobenzene	2021/10/18	<0.040		ug/g	
			1,4-Dichlorobenzene	2021/10/18	<0.040		ug/g	
			Dichlorodifluoromethane (FREON 12)	2021/10/18	<0.040		ug/g	
			1,1-Dichloroethane	2021/10/18	<0.040		ug/g	
			1,2-Dichloroethane	2021/10/18	<0.049		ug/g	
			1,1-Dichloroethylene	2021/10/18	<0.040		ug/g	
			cis-1,2-Dichloroethylene	2021/10/18	<0.040		ug/g	
			trans-1,2-Dichloroethylene	2021/10/18	<0.040		ug/g	
			1,2-Dichloropropane	2021/10/18	<0.040		ug/g	
			cis-1,3-Dichloropropene	2021/10/18	<0.030		ug/g	
			trans-1,3-Dichloropropene	2021/10/18	<0.040		ug/g	
			Ethylbenzene	2021/10/18	<0.010		ug/g	
			Ethylene Dibromide	2021/10/18	<0.040		ug/g	
			Hexane	2021/10/18	<0.040		ug/g	
			Methylene Chloride(Dichloromethane)	2021/10/18	<0.049		ug/g	
			Methyl Ethyl Ketone (2-Butanone)	2021/10/18	<0.40		ug/g	
			Methyl Isobutyl Ketone	2021/10/18	<0.40		ug/g	
			Methyl t-butyl ether (MTBE)	2021/10/18	<0.040		ug/g	
			Styrene	2021/10/18	<0.040		ug/g	
			1,1,1,2-Tetrachloroethane	2021/10/18	<0.040		ug/g	
			1,1,2,2-Tetrachloroethane	2021/10/18	<0.040		ug/g	
			Tetrachloroethylene	2021/10/18	<0.040		ug/g	
			Toluene	2021/10/18	<0.020		ug/g	
			1,1,1-Trichloroethane	2021/10/18	<0.040		ug/g	
			1,1,2-Trichloroethane	2021/10/18	<0.040		ug/g	
			Trichloroethylene	2021/10/18	<0.010		ug/g	
			Trichlorofluoromethane (FREON 11)	2021/10/18	<0.040		ug/g	
			Vinyl Chloride	2021/10/18	<0.019		ug/g	
			p+m-Xylene	2021/10/18	<0.020		ug/g	
			o-Xylene	2021/10/18	<0.020		ug/g	
			Total Xylenes	2021/10/18	<0.020		ug/g	
			F1 (C6-C10)	2021/10/18	<10		ug/g	
			F1 (C6-C10) - BTEX	2021/10/18	<10		ug/g	
7642664	AYA	RPD	Acetone (2-Propanone)	2021/10/18	NC		%	50
			Benzene	2021/10/18	NC		%	50
			Bromodichloromethane	2021/10/18	NC		%	50
			Bromoform	2021/10/18	NC		%	50
			Bromomethane	2021/10/18	NC		%	50
			Carbon Tetrachloride	2021/10/18	NC		%	50
			Chlorobenzene	2021/10/18	NC		%	50
			Chloroform	2021/10/18	NC		%	50
			Dibromochloromethane	2021/10/18	NC		%	50

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1,2-Dichlorobenzene	2021/10/18	NC		%	50
			1,3-Dichlorobenzene	2021/10/18	NC		%	50
			1,4-Dichlorobenzene	2021/10/18	NC		%	50
			Dichlorodifluoromethane (FREON 12)	2021/10/18	NC		%	50
			1,1-Dichloroethane	2021/10/18	NC		%	50
			1,2-Dichloroethane	2021/10/18	NC		%	50
			1,1-Dichloroethylene	2021/10/18	NC		%	50
			cis-1,2-Dichloroethylene	2021/10/18	NC		%	50
			trans-1,2-Dichloroethylene	2021/10/18	NC		%	50
			1,2-Dichloropropane	2021/10/18	NC		%	50
			cis-1,3-Dichloropropene	2021/10/18	NC		%	50
			trans-1,3-Dichloropropene	2021/10/18	NC		%	50
			Ethylbenzene	2021/10/18	NC		%	50
			Ethylene Dibromide	2021/10/18	NC		%	50
			Hexane	2021/10/18	NC		%	50
			Methylene Chloride(Dichloromethane)	2021/10/18	NC		%	50
			Methyl Ethyl Ketone (2-Butanone)	2021/10/18	NC		%	50
			Methyl Isobutyl Ketone	2021/10/18	NC		%	50
			Methyl t-butyl ether (MTBE)	2021/10/18	NC		%	50
			Styrene	2021/10/18	NC		%	50
			1,1,1,2-Tetrachloroethane	2021/10/18	NC		%	50
			1,1,2,2-Tetrachloroethane	2021/10/18	NC		%	50
			Tetrachloroethylene	2021/10/18	NC		%	50
			Toluene	2021/10/18	0.41		%	50
			1,1,1-Trichloroethane	2021/10/18	NC		%	50
			1,1,2-Trichloroethane	2021/10/18	NC		%	50
			Trichloroethylene	2021/10/18	NC		%	50
			Trichlorofluoromethane (FREON 11)	2021/10/18	NC		%	50
			Vinyl Chloride	2021/10/18	NC		%	50
			p+m-Xylene	2021/10/18	NC		%	50
			o-Xylene	2021/10/18	NC		%	50
			Total Xylenes	2021/10/18	NC		%	50
			F1 (C6-C10)	2021/10/18	NC		%	30
			F1 (C6-C10) - BTEX	2021/10/18	NC		%	30
7643884	RGA	Matrix Spike	o-Terphenyl	2021/10/18		91	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/10/18		99	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2021/10/18		102	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2021/10/18		104	%	60 - 130
7643884	RGA	Spiked Blank	o-Terphenyl	2021/10/18		94	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/10/18		103	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2021/10/18		106	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2021/10/18		107	%	60 - 130
7643884	RGA	Method Blank	o-Terphenyl	2021/10/18		91	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/10/18	<100		ug/L	
			F3 (C16-C34 Hydrocarbons)	2021/10/18	<200		ug/L	
			F4 (C34-C50 Hydrocarbons)	2021/10/18	<200		ug/L	
7643884	RGA	RPD	F2 (C10-C16 Hydrocarbons)	2021/10/19	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2021/10/19	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2021/10/19	NC		%	30
7643885	JYO	Matrix Spike	D10-Anthracene	2021/10/19		110	%	50 - 130
			D14-Terphenyl (FS)	2021/10/19		109	%	50 - 130
			D8-Acenaphthylene	2021/10/19		96	%	50 - 130
			Acenaphthene	2021/10/19		91	%	50 - 130
			Acenaphthylene	2021/10/19		88	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Anthracene	2021/10/19		103	%	50 - 130
			Benzo(a)anthracene	2021/10/19		102	%	50 - 130
			Benzo(a)pyrene	2021/10/19		87	%	50 - 130
			Benzo(b/j)fluoranthene	2021/10/19		101	%	50 - 130
			Benzo(g,h,i)perylene	2021/10/19		102	%	50 - 130
			Benzo(k)fluoranthene	2021/10/19		106	%	50 - 130
			Chrysene	2021/10/19		100	%	50 - 130
			Dibenzo(a,h)anthracene	2021/10/19		95	%	50 - 130
			Fluoranthene	2021/10/19		118	%	50 - 130
			Fluorene	2021/10/19		94	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/10/19		102	%	50 - 130
			1-Methylnaphthalene	2021/10/19		97	%	50 - 130
			2-Methylnaphthalene	2021/10/19		91	%	50 - 130
			Naphthalene	2021/10/19		87	%	50 - 130
			Phenanthrene	2021/10/19		100	%	50 - 130
			Pyrene	2021/10/19		115	%	50 - 130
7643885	JYO	Spiked Blank	D10-Anthracene	2021/10/19		104	%	50 - 130
			D14-Terphenyl (FS)	2021/10/19		106	%	50 - 130
			D8-Acenaphthylene	2021/10/19		91	%	50 - 130
			Acenaphthene	2021/10/19		95	%	50 - 130
			Acenaphthylene	2021/10/19		93	%	50 - 130
			Anthracene	2021/10/19		107	%	50 - 130
			Benzo(a)anthracene	2021/10/19		106	%	50 - 130
			Benzo(a)pyrene	2021/10/19		92	%	50 - 130
			Benzo(b/j)fluoranthene	2021/10/19		108	%	50 - 130
			Benzo(g,h,i)perylene	2021/10/19		109	%	50 - 130
			Benzo(k)fluoranthene	2021/10/19		112	%	50 - 130
			Chrysene	2021/10/19		105	%	50 - 130
			Dibenzo(a,h)anthracene	2021/10/19		102	%	50 - 130
			Fluoranthene	2021/10/19		127	%	50 - 130
			Fluorene	2021/10/19		97	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/10/19		110	%	50 - 130
			1-Methylnaphthalene	2021/10/19		100	%	50 - 130
			2-Methylnaphthalene	2021/10/19		92	%	50 - 130
			Naphthalene	2021/10/19		89	%	50 - 130
			Phenanthrene	2021/10/19		104	%	50 - 130
			Pyrene	2021/10/19		121	%	50 - 130
7643885	JYO	Method Blank	D10-Anthracene	2021/10/19		118	%	50 - 130
			D14-Terphenyl (FS)	2021/10/19		115	%	50 - 130
			D8-Acenaphthylene	2021/10/19		93	%	50 - 130
			Acenaphthene	2021/10/19	<0.050		ug/L	
			Acenaphthylene	2021/10/19	<0.050		ug/L	
			Anthracene	2021/10/19	<0.050		ug/L	
			Benzo(a)anthracene	2021/10/19	<0.050		ug/L	
			Benzo(a)pyrene	2021/10/19	<0.0090		ug/L	
			Benzo(b/j)fluoranthene	2021/10/19	<0.050		ug/L	
			Benzo(g,h,i)perylene	2021/10/19	<0.050		ug/L	
			Benzo(k)fluoranthene	2021/10/19	<0.050		ug/L	
			Chrysene	2021/10/19	<0.050		ug/L	
			Dibenzo(a,h)anthracene	2021/10/19	<0.050		ug/L	
			Fluoranthene	2021/10/19	<0.050		ug/L	
			Fluorene	2021/10/19	<0.050		ug/L	
			Indeno(1,2,3-cd)pyrene	2021/10/19	<0.050		ug/L	
			1-Methylnaphthalene	2021/10/19	<0.050		ug/L	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			2-Methylnaphthalene	2021/10/19	<0.050		ug/L	
			Naphthalene	2021/10/19	<0.050		ug/L	
			Phenanthrene	2021/10/19	<0.030		ug/L	
			Pyrene	2021/10/19	<0.050		ug/L	
7643885	JYO	RPD	Acenaphthene	2021/10/19	NC		%	30
			Acenaphthylene	2021/10/19	NC		%	30
			Anthracene	2021/10/19	NC		%	30
			Benzo(a)anthracene	2021/10/19	NC		%	30
			Benzo(a)pyrene	2021/10/19	NC		%	30
			Benzo(b/j)fluoranthene	2021/10/19	NC		%	30
			Benzo(g,h,i)perylene	2021/10/19	NC		%	30
			Benzo(k)fluoranthene	2021/10/19	NC		%	30
			Chrysene	2021/10/19	NC		%	30
			Dibenzo(a,h)anthracene	2021/10/19	NC		%	30
			Fluoranthene	2021/10/19	NC		%	30
			Fluorene	2021/10/19	NC		%	30
			Indeno(1,2,3-cd)pyrene	2021/10/19	NC		%	30
			1-Methylnaphthalene	2021/10/19	NC		%	30
			2-Methylnaphthalene	2021/10/19	NC		%	30
			Naphthalene	2021/10/19	NC		%	30
			Phenanthrene	2021/10/19	NC		%	30
			Pyrene	2021/10/19	NC		%	30
7644377	RGA	Matrix Spike	o-Terphenyl	2021/10/19		84	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/10/19		NC	%	50 - 130
			F3 (C16-C34 Hydrocarbons)	2021/10/19		NC	%	50 - 130
			F4 (C34-C50 Hydrocarbons)	2021/10/19		NC	%	50 - 130
7644377	RGA	Spiked Blank	o-Terphenyl	2021/10/19		85	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/10/19		88	%	80 - 120
			F3 (C16-C34 Hydrocarbons)	2021/10/19		89	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2021/10/19		90	%	80 - 120
7644377	RGA	Method Blank	o-Terphenyl	2021/10/19		86	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2021/10/19	<10		ug/g	
			F3 (C16-C34 Hydrocarbons)	2021/10/19	<50		ug/g	
			F4 (C34-C50 Hydrocarbons)	2021/10/19	<50		ug/g	
7644377	RGA	RPD	F2 (C10-C16 Hydrocarbons)	2021/10/19	36 (2)		%	30
			F3 (C16-C34 Hydrocarbons)	2021/10/19	39 (2)		%	30
			F4 (C34-C50 Hydrocarbons)	2021/10/19	38 (2)		%	30
7646770	JYO	Matrix Spike	D10-Anthracene	2021/10/20		93	%	50 - 130
			D14-Terphenyl (FS)	2021/10/20		92	%	50 - 130
			D8-Acenaphthylene	2021/10/20		86	%	50 - 130
			Acenaphthene	2021/10/20		98	%	50 - 130
			Acenaphthylene	2021/10/20		95	%	50 - 130
			Anthracene	2021/10/20		102	%	50 - 130
			Benzo(a)anthracene	2021/10/20		107	%	50 - 130
			Benzo(a)pyrene	2021/10/20		94	%	50 - 130
			Benzo(b/j)fluoranthene	2021/10/20		96	%	50 - 130
			Benzo(g,h,i)perylene	2021/10/20		99	%	50 - 130
			Benzo(k)fluoranthene	2021/10/20		118	%	50 - 130
			Chrysene	2021/10/20		105	%	50 - 130
			Dibenzo(a,h)anthracene	2021/10/20		96	%	50 - 130
			Fluoranthene	2021/10/20		103	%	50 - 130
			Fluorene	2021/10/20		104	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/10/20		103	%	50 - 130
			1-Methylnaphthalene	2021/10/20		90	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			2-Methylnaphthalene	2021/10/20		89	%	50 - 130
			Naphthalene	2021/10/20		76	%	50 - 130
			Phenanthrene	2021/10/20		102	%	50 - 130
			Pyrene	2021/10/20		100	%	50 - 130
7646770	JYO	Spiked Blank	D10-Anthracene	2021/10/20		102	%	50 - 130
			D14-Terphenyl (FS)	2021/10/20		97	%	50 - 130
			D8-Acenaphthylene	2021/10/20		77	%	50 - 130
			Acenaphthene	2021/10/20		101	%	50 - 130
			Acenaphthylene	2021/10/20		100	%	50 - 130
			Anthracene	2021/10/20		114	%	50 - 130
			Benzo(a)anthracene	2021/10/20		112	%	50 - 130
			Benzo(a)pyrene	2021/10/20		99	%	50 - 130
			Benzo(b/j)fluoranthene	2021/10/20		110	%	50 - 130
			Benzo(g,h,i)perylene	2021/10/20		107	%	50 - 130
			Benzo(k)fluoranthene	2021/10/20		112	%	50 - 130
			Chrysene	2021/10/20		116	%	50 - 130
			Dibenzo(a,h)anthracene	2021/10/20		97	%	50 - 130
			Fluoranthene	2021/10/20		110	%	50 - 130
			Fluorene	2021/10/20		109	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/10/20		112	%	50 - 130
			1-Methylnaphthalene	2021/10/20		97	%	50 - 130
			2-Methylnaphthalene	2021/10/20		95	%	50 - 130
			Naphthalene	2021/10/20		77	%	50 - 130
			Phenanthrene	2021/10/20		110	%	50 - 130
			Pyrene	2021/10/20		108	%	50 - 130
7646770	JYO	Method Blank	D10-Anthracene	2021/10/20		108	%	50 - 130
			D14-Terphenyl (FS)	2021/10/20		99	%	50 - 130
			D8-Acenaphthylene	2021/10/20		65	%	50 - 130
			Acenaphthene	2021/10/20	<0.0050		ug/g	
			Acenaphthylene	2021/10/20	<0.0050		ug/g	
			Anthracene	2021/10/20	<0.0050		ug/g	
			Benzo(a)anthracene	2021/10/20	<0.0050		ug/g	
			Benzo(a)pyrene	2021/10/20	<0.0050		ug/g	
			Benzo(b/j)fluoranthene	2021/10/20	<0.0050		ug/g	
			Benzo(g,h,i)perylene	2021/10/20	<0.0050		ug/g	
			Benzo(k)fluoranthene	2021/10/20	<0.0050		ug/g	
			Chrysene	2021/10/20	<0.0050		ug/g	
			Dibenzo(a,h)anthracene	2021/10/20	<0.0050		ug/g	
			Fluoranthene	2021/10/20	<0.0050		ug/g	
			Fluorene	2021/10/20	<0.0050		ug/g	
			Indeno(1,2,3-cd)pyrene	2021/10/20	<0.0050		ug/g	
			1-Methylnaphthalene	2021/10/20	<0.0050		ug/g	
			2-Methylnaphthalene	2021/10/20	<0.0050		ug/g	
			Naphthalene	2021/10/20	<0.0050		ug/g	
			Phenanthrene	2021/10/20	<0.0050		ug/g	
			Pyrene	2021/10/20	<0.0050		ug/g	
7646770	JYO	RPD	Acenaphthene	2021/10/20	NC		%	40
			Acenaphthylene	2021/10/20	NC		%	40
			Anthracene	2021/10/20	NC		%	40
			Benzo(a)anthracene	2021/10/20	NC		%	40
			Benzo(a)pyrene	2021/10/20	NC		%	40
			Benzo(b/j)fluoranthene	2021/10/20	NC		%	40
			Benzo(g,h,i)perylene	2021/10/20	NC		%	40
			Benzo(k)fluoranthene	2021/10/20	NC		%	40

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Chrysene	2021/10/20	NC		%	40
			Dibenzo(a,h)anthracene	2021/10/20	NC		%	40
			Fluoranthene	2021/10/20	NC		%	40
			Fluorene	2021/10/20	NC		%	40
			Indeno(1,2,3-cd)pyrene	2021/10/20	NC		%	40
			1-Methylnaphthalene	2021/10/20	NC		%	40
			2-Methylnaphthalene	2021/10/20	NC		%	40
			Naphthalene	2021/10/20	NC		%	40
			Phenanthrene	2021/10/20	NC		%	40
			Pyrene	2021/10/20	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.

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)

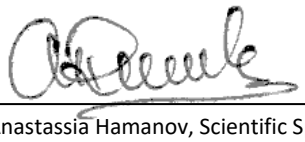
NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) The recovery was below the lower control limit. This may represent a low bias in some results for this specific analyte.

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

VALIDATION SIGNATURE PAGE

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



Anastassia Hamanov, Scientific Specialist

BV Labs 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 Laboratories 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvna.com

Affix Job Label Here

Presence of Visible Particulate/Sediment

Maxxam Analytics
CAM FCD-01013/5
Page 1 of 1

When there is >1cm of visible particulate/sediment, the amount will be recorded in the field below

	Sample ID	All	Bottle Types: Inorganics					Organics										Hydrocarbons							Volatiles				Other
			CrVI	CN	General	Hg	Metals (Diss.)	Organic 1 of 2	Organic 2 of 2	PCB 1 of 2	PCB 2 of 2	Pest/ Herb 1 of 2	Pest/ Herb 2 of 2	SVOC/ ABN 1 of 2	SVOC/ ABN 2 of 2	PAH 1 of 2	PAH 2 of 2	Dioxin /Furan	F1 Vial 1	F1 Vial 2	F1 Vial 3	F1 Vial 4	F2-F4 1 of 2	F2-F4 2 of 2	F4G	VOC Vial 1	VOC Vial 2	VOC Vial 3	VOC Vial 4	
1	BHMW125	TS																										
2	BHM127	TS																										
3	TRIP BLANK	TS																										
4																												
5																												
6																												
7																												
8																												
9																												
10																												

Comments:

Legend:

P	Suspended Particulate
TS	Trace Settled Sediment (just covers bottom of container or less)
S	Sediment greater than (>) Trace, but less than (<) 1 cm

Recorded By: (signature/print) MUSEAU

Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel (905) 817-5700 Toll-free 800-563-6266 Fax (905) 817-5777 www.bvlabs.com

CHAIN OF CUSTODY RECORD

Page 1 of 1

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#982 Pinchin Ltd	Company Name:		Quotation #:	A70927	BV Labs Job #:	Bottle Order #: 832329
Attention:	Accounts Payable	Attention:	Matt, Ryan, Mike	P.O. #:			
Address:	1 Hines Road Suite 200 Kanata ON K2K 3C7	Address:		Project:	285722.003	COC #: C#832329-06-01	Project Manager: Antonella Brasil
Tel:	(613) 592-3387 Fax: (613) 592-5897	Tel:	Fax:	Project Name:			
Email:	ap@pinchin.com	Email:	mkosiw@Pinchin.com, rlaronde@pinchin.com; mryan@	Site #:			
				Sampled By:	MKosiw		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☒ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☑ Coarse ☒ Table 3 ☐ Agri/Other ☒ For RSC ☐ Table ___	☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ___ ☐ PWQO ☐ Reg 406 Table ___ ☐ Other ___	

Include Criteria on Certificate of Analysis (Y/N)? N

Turnaround Time (TAT) Required
Please provide advance notice for rush projects

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 Dioxins/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 #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	O Reg 153 Metals & Inorganics Pkg (Soil)	O Reg 153 VOCs by HS & F1-F4 (Soil)	O Reg 153 PCBs (Soil)	O Reg 153 PAHs (Soil)	O Reg 153 Semivolatiles Package (Soil)	Acid Extractables by GC/MS	O Reg 153 OC Pesticides (Soil)	# of Bottles	Comments
1		BHMW125 SS-7	Oct 6 2021		Soil			X		X				2	PHCs F1-F4 VOCs
2		BHMW126 SS-1	↓		↓			X		X				2	PAHs
3		BHMW127 SS6	↓		↓			X		X				2	↓
4															
5		BHMW125	Oct 12		GW			X		X				5	PHCs, VOCs, PAHs
6		BHMW27	↓		↓			X		X				5	↓
7		Trip Blank	↓		↓			X						2	Trip Black VOCs/F1
8															
9															
10															

13-Oct-21 16:20
Antonella Brasil
C1T8290

RECEIVED IN OTTAWA
On Ice OWW 2021/10/13

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time
	Oct 13 2021	930 Am		2021/10/13	16:20
				2021/10/13	16:20

ENV 1528 not submitted

Time Sensitive

Laboratory Use Only
Temperature (°C) on Recei: 6, 6, 6

Custody Seal	Yes	No
Present	Y	
Intact	Y	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.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.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

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

White: BV Labs Yellow: Client

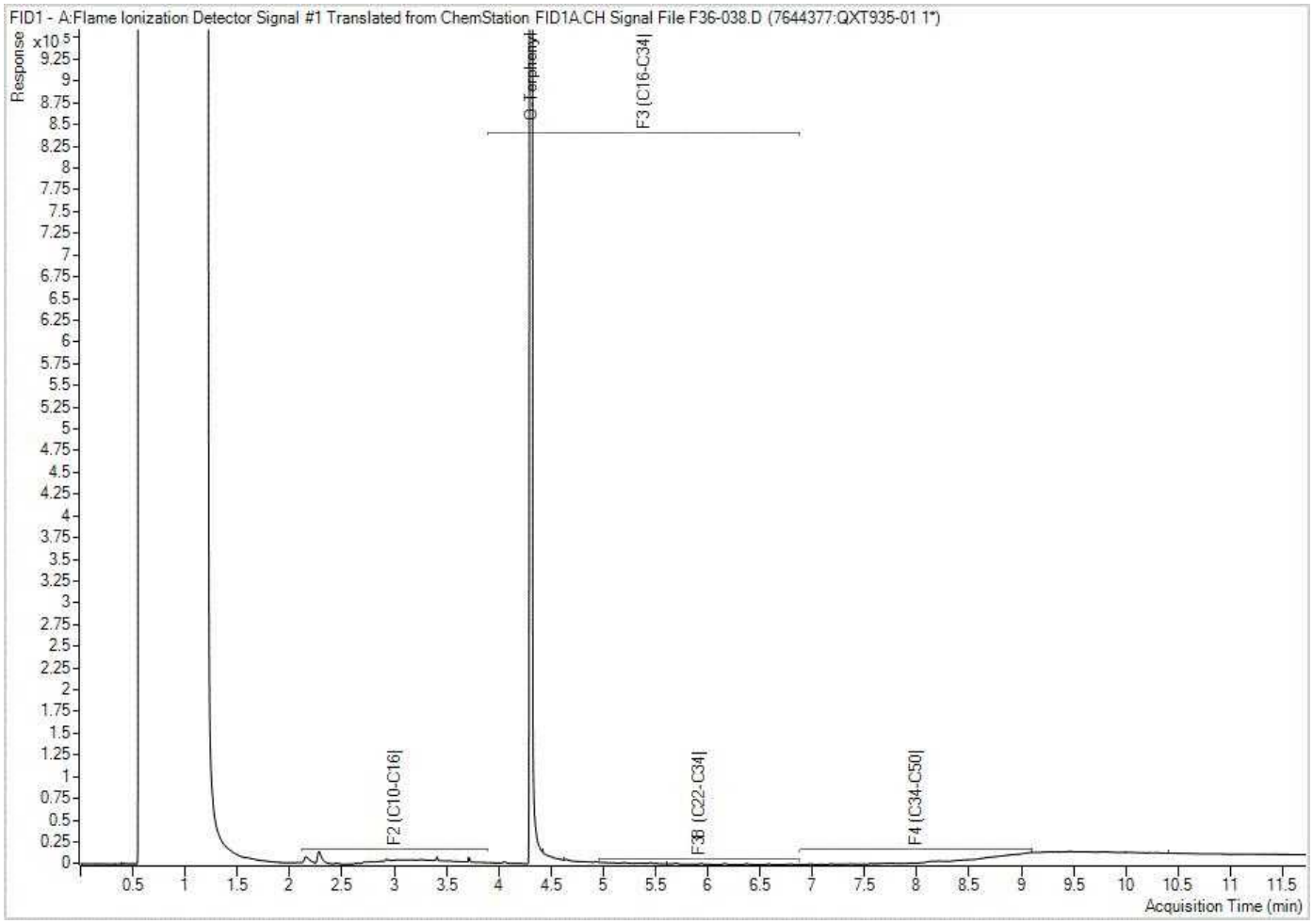
Bureau Veritas Canada (2019) Inc.

7/6/6

Bureau Veritas Job #: C1T8290
Report Date: 2021/10/21
Bureau Veritas Sample: QXT935

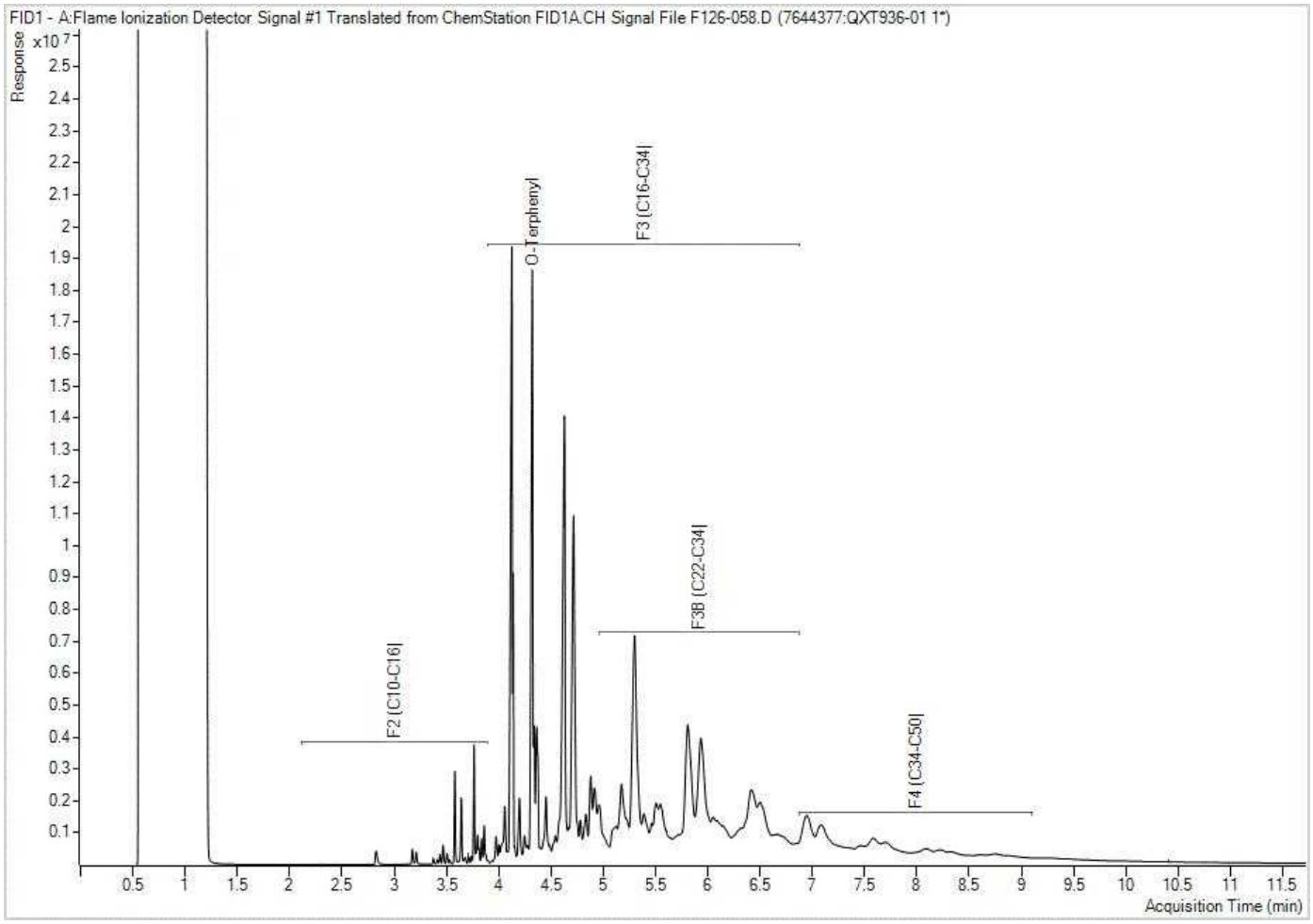
Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW125 SS-7

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



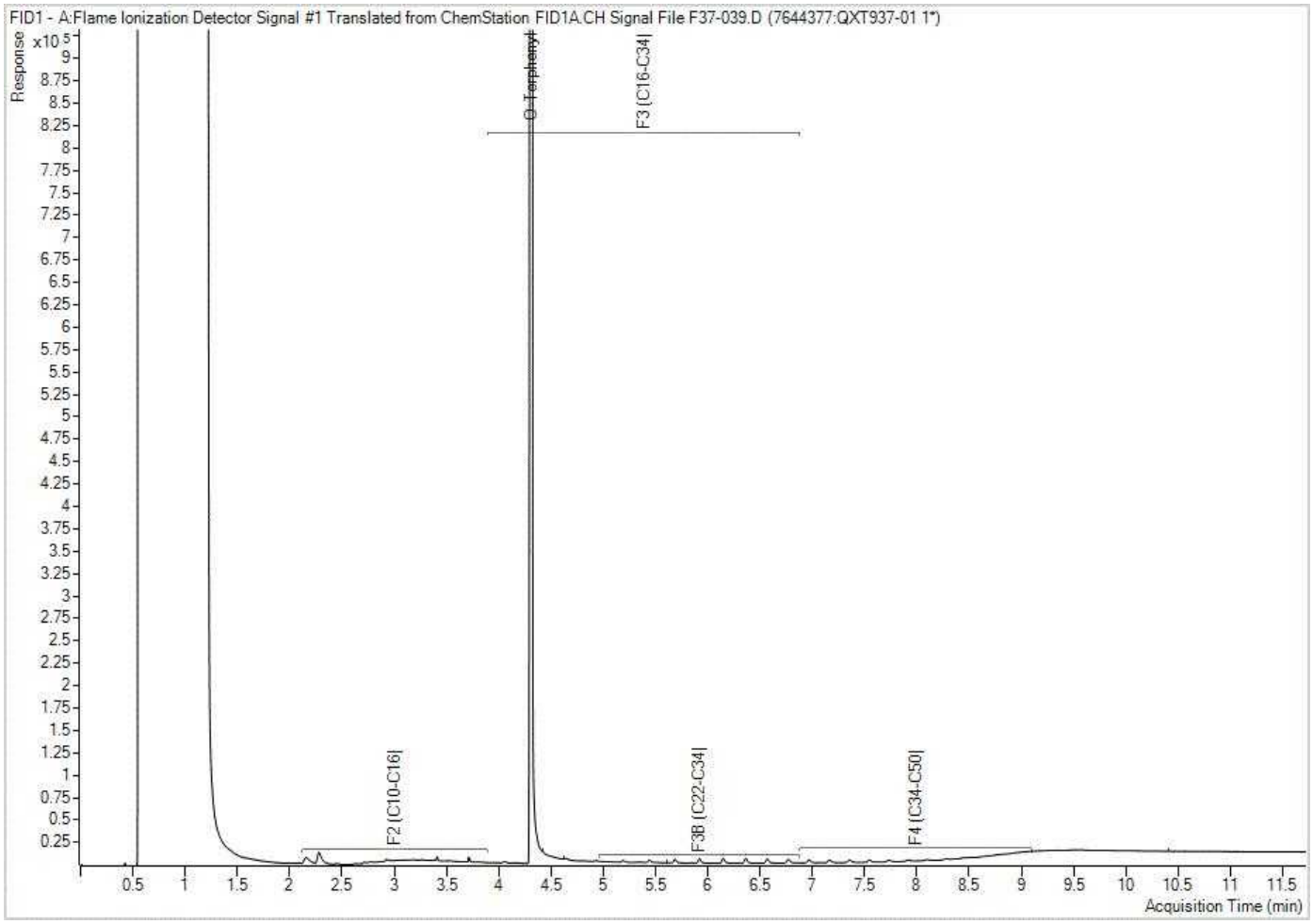
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

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

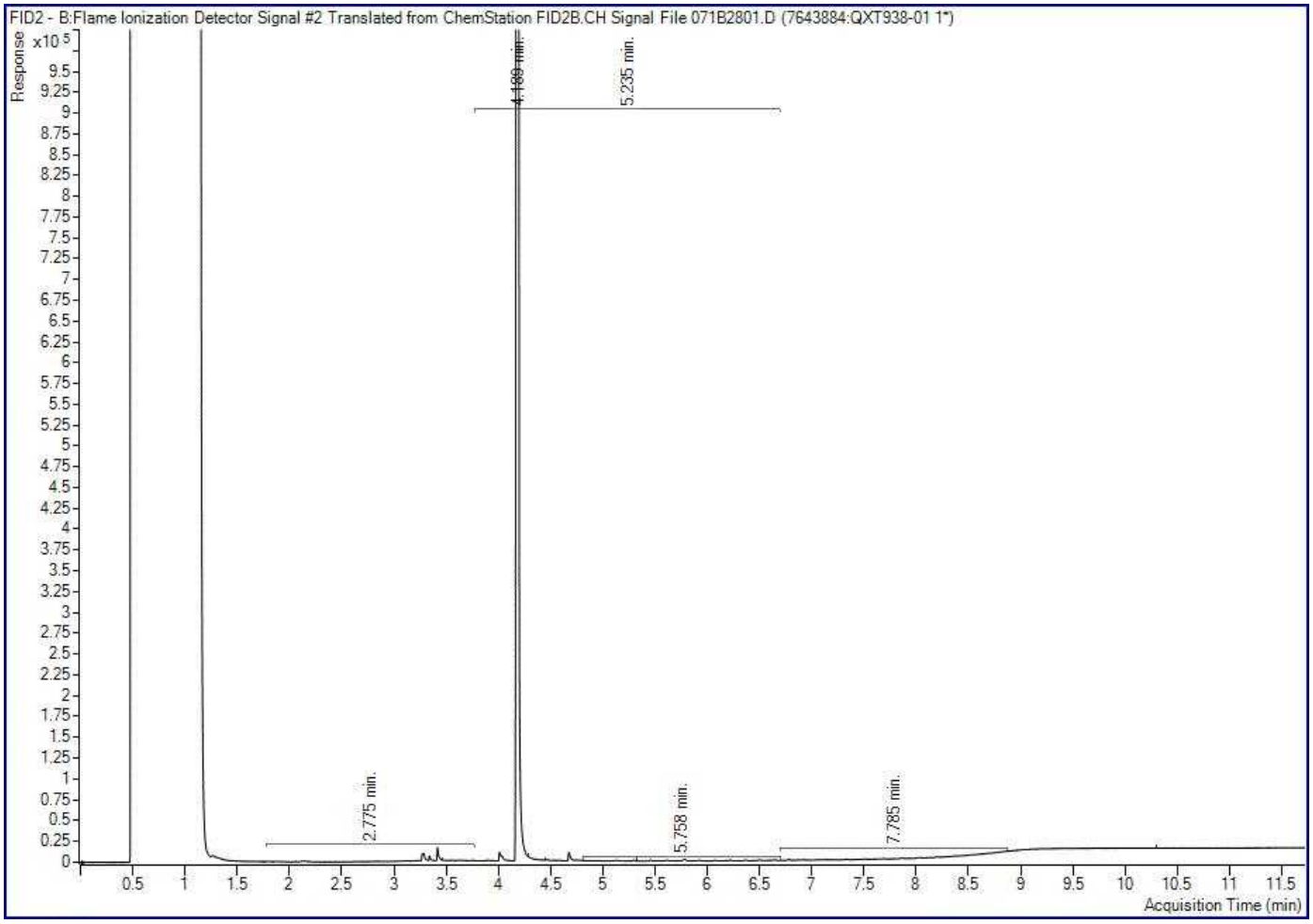


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C1T8290
Report Date: 2021/10/21
Bureau Veritas Sample: QXT938

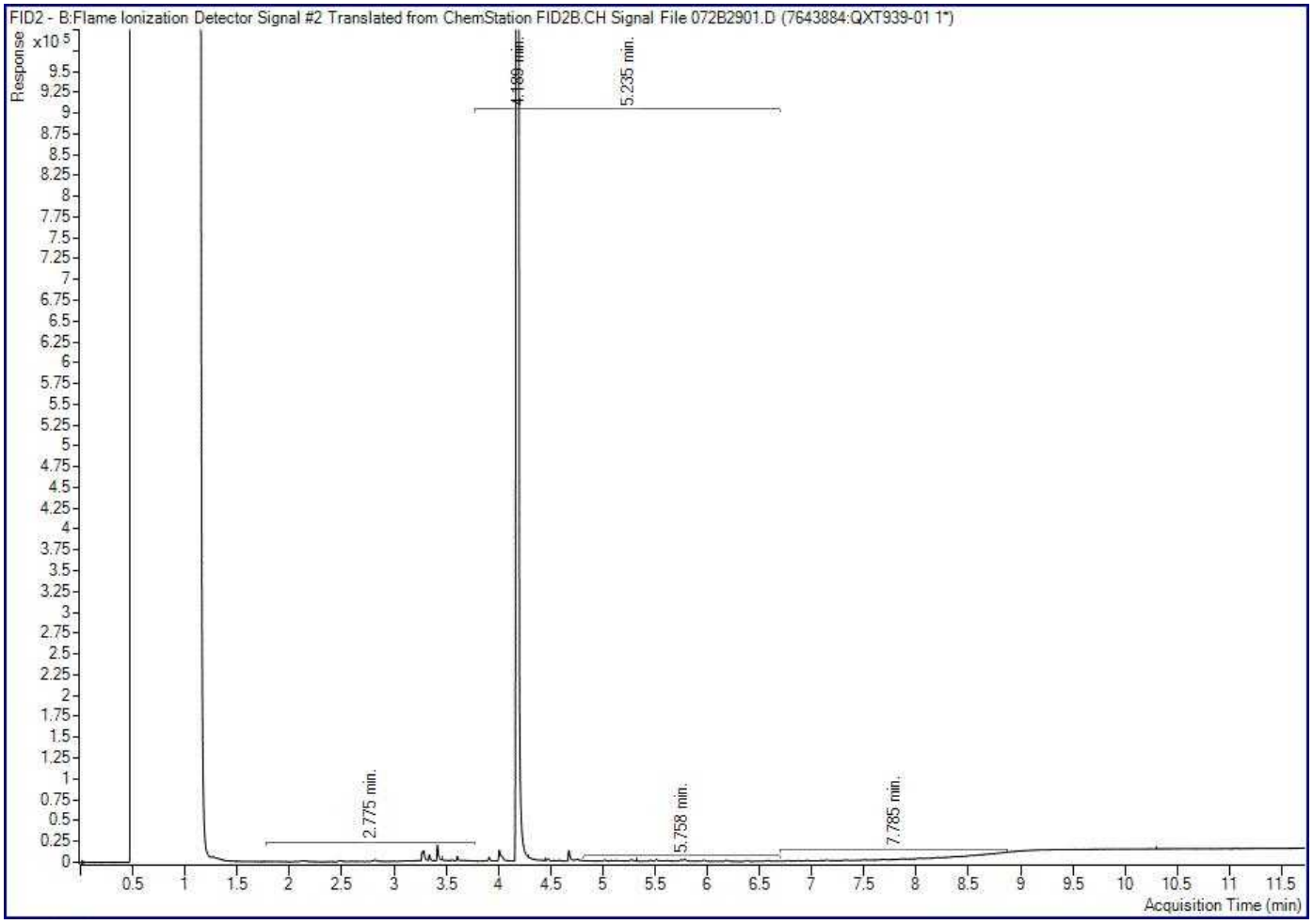
Pinchin Ltd
Client Project #: 285722.003
Client ID: BHMW125

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.

APPENDIX V

Legal Survey

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
2011886

THIS PLAN IS NOT VALID UNLESS IT IS EMBOSSED ORIGINAL AND ISSUED BY THE SURVEYOR
in accordance with Regulation 1026, Section 29(3).

SURVEYOR'S REAL PROPERTY REPORT
PART 1 - PLAN OF

PART OF LOT 1 & LOTS 2 & 3 (WEST CHAMPAGNE AVENUE) BLOCK C AND LOTS 1, 2 & 3 (EAST LORETTA AVENUE) BLOCK C AND LOTS 4, 5, 6, 7 & 8 BLOCK C AND PART OF BLOCK C AND PART OF CHAMPAGNE STREET
(CLOSED BY BY-LAW 4863)
REGISTERED PLAN 73
CITY OF OTTAWA

Scale 1:200
0 5 0 5 15 METRES

METRIC CONVERSION

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

BEARING NOTE

BEARINGS ARE ASTRONOMIC AND ARE REFERRED TO THE EASTERLY LIMIT OF LORETTA AVENUE NORTH AS SHOWN ON PLAN 4R-207, HAVING A BEARING OF N 23° 00' 15" W.

ELEVATION NOTE

POSITION OF SITE BENCHMARKS AS SHOWN HEREON.

ELEVATIONS SHOWN HEREON ARE GEODETIC (CGVD-1928:1978) AND ARE DERIVED FROM CITY OF OTTAWA VERTICAL CONTROL MONUMENTS No.'s 2011-0106 (ELEV=62.968m) AND 2011-0107 (ELEV=53.863m).

NOTE
- THIS PLAN OF SURVEY IS TO BE READ IN CONJUNCTION WITH THE REPORT SUMMARY NOTED AS PART 2 HEREON.
- THIS REPORT CAN ONLY BE UPDATED BY THIS OFFICE. NO ADDITIONAL PRINTS OF THIS ORIGINAL REPORT WILL BE ISSUED SUBSEQUENT TO THE DATE OF CERTIFICATION.
- ALL TIES ARE MINIMUM UNLESS OTHERWISE NOTED.
- ALL TIES TO CURVED BOUNDARY ARE RADIAL TO ARC.
- RISK OF UNDERGROUND SERVICES. MONUMENTATION PLANTED ACCORDINGLY.

PART 2

This Report was prepared for TRINITY and the undersigned accepts no responsibility for the use by other parties.

1. REGISTERED RIGHTS-OF-WAY/EASEMENTS
No rights-of-way or easements were found to be registered against the subject properties.
2. PROPERTY IMPROVEMENTS
See Part 1 of this Report for details.
3. COMPLIANCE WITH MUNICIPAL ZONING BYLAWS
Compliance is not certified by this report.
4. ADDITIONAL REMARKS

LEGEND (IF APPLICABLE)

■	DENOTES	FOUND MONUMENTS
□	-	SET MONUMENTS
IB	-	IRON BAR
IB@	-	ROUND IRON BAR
SIB	-	STANDARD IRON BAR
SSIB	-	SHORT STANDARD IRON BAR
CC	-	CUT CROSS
CP	-	CONCRETE PIN
WIT	-	WITNESS
PIN	-	PROPERTY IDENTIFICATION NUMBER
MEAS	-	MEASURED
PROP	-	PROPORTIONED
OU	-	ORIGIN UNKNOWN
SG	-	STANTEC GEOMATICS LTD.
P	-	REGISTERED PLAN 73
P1	-	PLAN BY 725 DATED AUGUST 23, 1967
P2	-	PLAN BY 857 DATED AUGUST 10, 1979
P3	-	PLAN BY GCM DATED AUGUST 10, 1951
P4	-	PLAN BY 857 DATED JUNE 21, 2001
P5	-	PLAN BY A&M DATED NOVEMBER 6, 1963
P6	-	PLAN 4R-207
P7	-	PLAN 4R-22151
ACU	-	AIR CONDITIONING UNIT
AN	-	ANCHOR
AP	-	AIR PUMP
ANT	-	ANTENNA
BH	-	BOREHOLE
BIB	-	HOSE BIB
BKR	-	BIKE RACK
BENCH	-	BENCH
BOL	-	BOLLARD
BOUL	-	BOULDER
CB	-	CATCH BASIN
DCB	-	DOUBLE CB
CBMH	-	CB MANHOLE
DCBMH	-	DOUBLE CB MANHOLE
CBSI	-	SIDE INLET CB
CHM	-	CHIMNEY
CSV	-	VALVE CURB STOP
DRN	-	DRAIN
ELECPOST	-	ELECTRICAL OUTLET
FP	-	FLAG POLE
FL	-	FLOOD LIGHT
FTF	-	FUEL TANK FILLER CAP
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GSR	-	GAS SERVICE REGULATOR
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UMO	-	MARKER OIL UNDERGROUND
UP	-	UTILITY POLE
VB	-	VALVE BOX
VC	-	VALVE CHAMBER
WV	-	WATER VALVE

SURVEYOR'S CERTIFICATE

I CERTIFY THAT :
1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 6th DAY OF JULY, 2017.

July 13/17
DATE

BRIAN J. WEBSTER
ONTARIO LAND SURVEYOR

SRO MAP COORDS: X= 366205, Y= 5029655

Stantec Geomatics Ltd.
CANADA LAND SURVEYORS
ONTARIO LAND SURVEYORS
1331 CLYDE AVENUE, SUITE 600
OTTAWA, ONTARIO, K2C 3G4
TEL 613.722.4420 FAX 613.722.2799
stantec.com

DRAWN: ME | CHECKED: KJ | PM: BW | FIELD: ES | PROJECT No.: 161613694-110

DETAIL
SCALE = 1:100 m

PART 1 4R-207

PART OF LOT 38 CONCESSION 1 (OTTAWA FRONT) (NEPEAN)

N44°31'50"W (P6&MEAS) N45°40'50"W (P2,P7) 75.63 (P6&MEAS) 75.78 (P7) 3.85 (P7&SET)

PIN 04107 - 0020

PART 35 4R-402

BLOCK C

73

PLAN

PIN 04107 - 0276

CHAMPAGNE AVENUE
(CLOSED BY BY-LAW 4863)
(FORMERLY FIRST AVENUE)

N61°05'10"E 21.89 (MEAS) N61°07'20"E 21.87 (P7)

PART 1 4R-22151
PIN 04107-0275

35.99 (P7&SET)

N28°54'50"W (SET)
N28°52'40"W (P7)
1.53 (P7&SET)

CP (IN ASPHALT)

N61°05'10"E (MEAS)
N61°07'20"E (P7)
9.73 (P7&SET)

N61°07'20"E (MEAS) N61°07'20"E (P7) 96.53 (P6&SET) 96.76 (P7)

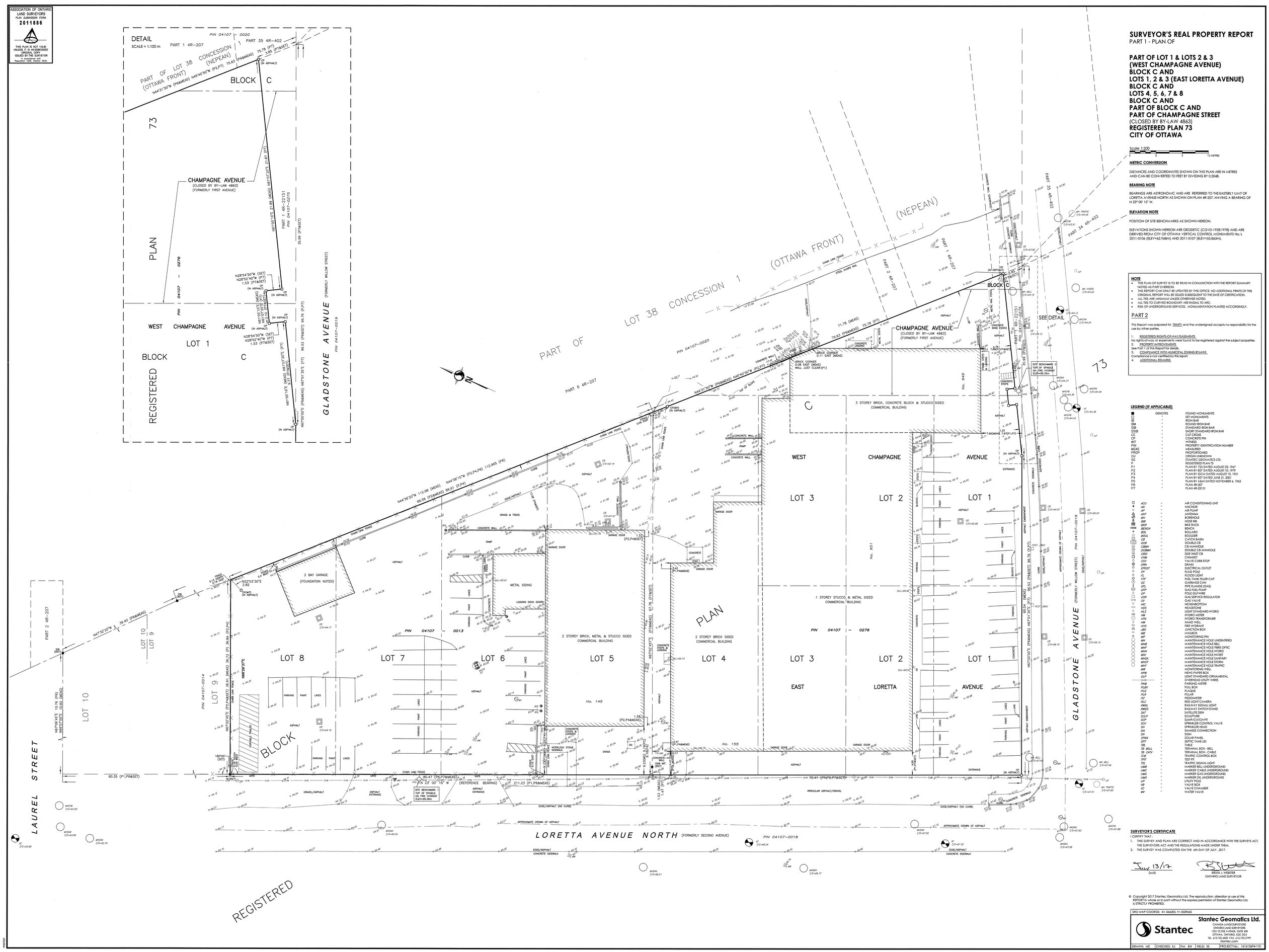
N28°54'50"W (SET)
N28°52'40"W (P7)
1.53 (P7&SET)

WEST CHAMPAGNE AVENUE
LOT 1
BLOCK C
REGISTERED

N61°05'10"E (MEAS) N61°07'20"E (P7) 9.73 (P7&SET)

N61°00'00"E (P6&MEAS) N61°01'35"E (P7)

GLADSTONE AVENUE (FORMERLY WILLOW STREET)
PIN 04107-0019



ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
2011886

THIS PLAN IS NOT VALID UNLESS IT IS EMBOSSED ORIGINAL AND ISSUED BY THE SURVEYOR
in accordance with Regulation 1026, Section 29(3).

SURVEYOR'S REAL PROPERTY REPORT
PART 1 - PLAN OF

PART OF LOT 1 & LOTS 2 & 3 (WEST CHAMPAGNE AVENUE) BLOCK C AND LOTS 1, 2 & 3 (EAST LORETTA AVENUE) BLOCK C AND LOTS 4, 5, 6, 7 & 8 BLOCK C AND PART OF BLOCK C AND PART OF CHAMPAGNE STREET
(CLOSED BY BY-LAW 4863)
REGISTERED PLAN 73
CITY OF OTTAWA

Scale 1:200
0 5 0 5 15 METRES

METRIC CONVERSION

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

BEARING NOTE

BEARINGS ARE ASTRONOMIC AND ARE REFERRED TO THE EASTERLY LIMIT OF LORETTA AVENUE NORTH AS SHOWN ON PLAN 4R-207, HAVING A BEARING OF N 23° 00' 15" W.

ELEVATION NOTE

POSITION OF SITE BENCHMARKS AS SHOWN HEREON.

ELEVATIONS SHOWN HEREON ARE GEODETIC (CGVD-1928:1978) AND ARE DERIVED FROM CITY OF OTTAWA VERTICAL CONTROL MONUMENTS No.'s 2011-0106 (ELEV=62.968m) AND 2011-0107 (ELEV=53.863m).

NOTE
- THIS PLAN OF SURVEY IS TO BE READ IN CONJUNCTION WITH THE REPORT SUMMARY NOTED AS PART 2 HEREON.
- THIS REPORT CAN ONLY BE UPDATED BY THIS OFFICE. NO ADDITIONAL PRINTS OF THIS ORIGINAL REPORT WILL BE ISSUED SUBSEQUENT TO THE DATE OF CERTIFICATION.
- ALL TIES ARE MINIMUM UNLESS OTHERWISE NOTED.
- ALL TIES TO CURVED BOUNDARY ARE RADIAL TO ARC.
- RISK OF UNDERGROUND SERVICES. MONUMENTATION PLANTED ACCORDINGLY.

PART 2

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1. REGISTERED RIGHTS-OF-WAY/EASEMENTS
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I CERTIFY THAT :
1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 6th DAY OF JULY, 2017.

July 13/17
DATE

BRIAN J. WEBSTER
ONTARIO LAND SURVEYOR

SRO MAP COORDS: X= 366205, Y= 5029655

Stantec Geomatics Ltd.
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DRAWN: ME | CHECKED: KJ | PM: BW | FIELD: ES | PROJECT No.: 161613694-110

DETAIL
SCALE = 1:100 m

PART 1 4R-207

PART OF LOT 38 CONCESSION 1 (OTTAWA FRONT) (NEPEAN)

N44°31'50"W (P6&MEAS) N45°40'50"W (P2,P7) 75.63 (P6&MEAS) 75.78 (P7) 3.85 (P7&SET)

PIN 04107 - 0020

PART 35 4R-402

BLOCK C

73

PLAN

PIN 04107 - 0276

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(CLOSED BY BY-LAW 4863)
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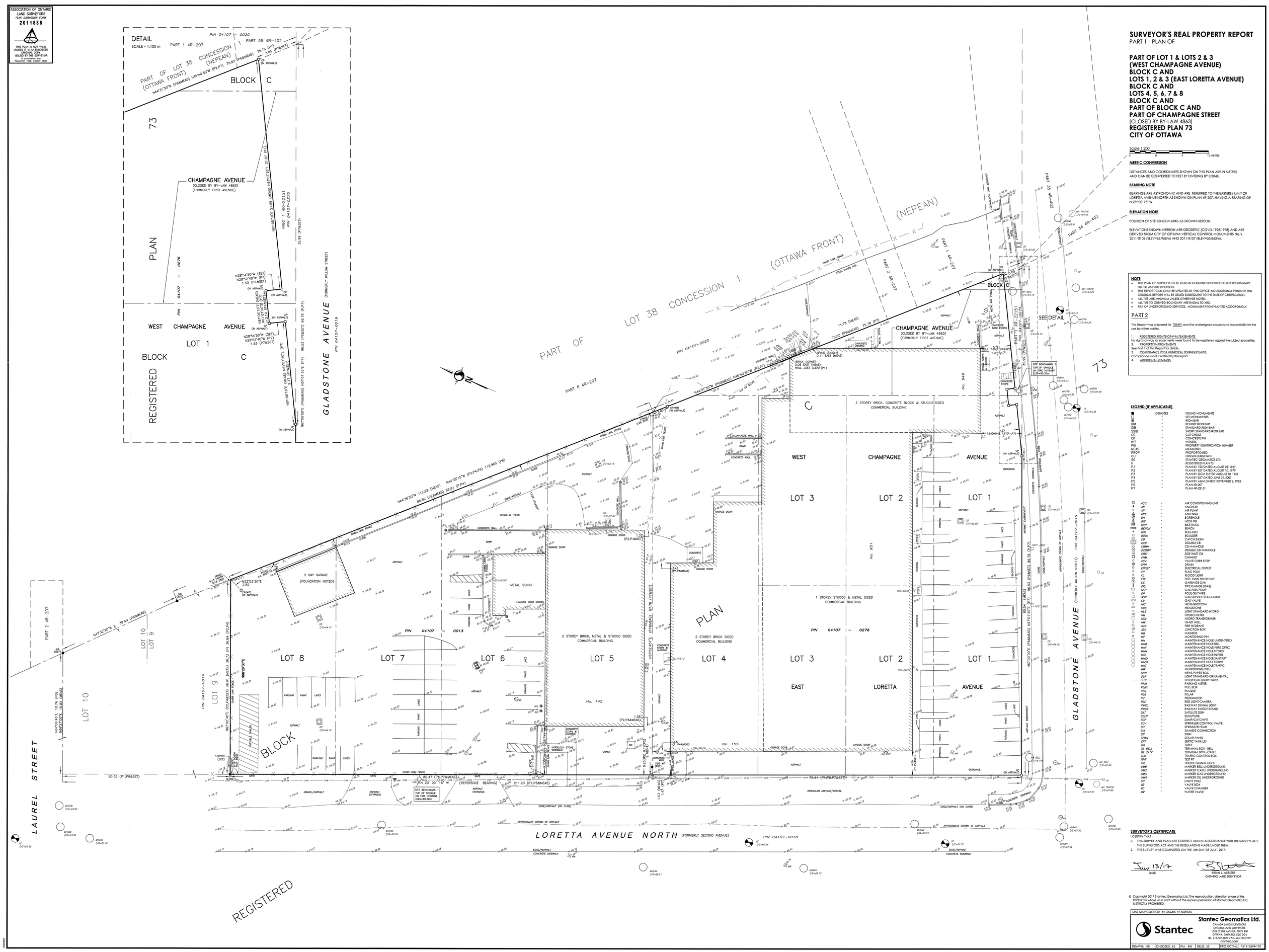
PIN 04107-0019



I REQUIRE THIS PLAN TO BE DEPOSITED UNDER THE LAND TITLES ACT.

DATE: Mar 8/19

BRIAN J. WEBSTER
ONTARIO LAND SURVEYOR

PLAN 4R-31991
RECEIVED AND DEPOSITED

DATE: June 6/2019

R. MATTA
REPRESENTATIVE FOR THE LAND REGISTRAR FOR THE LAND TITLES DIVISION OF OTTAWA-CARLETON No. 4

SCHEDULE

PART	LOT/BLOCK	PLAN	PIN
1	ALL OF S. 6, 7 AND 8 BLOCK C	73	ALL OF 04107-0013
2	PART OF 1 AND ALL OF 2 AND 3 (WEST CHAMPAGNE AVENUE) BLOCK C ALL OF 1, 2, 3 AND 4 (EAST LORETTA AVENUE) BLOCK C PART OF C AND PART OF CHAMPAGNE AVENUE (CLOSED BY BY-LAW #4863, INST. No. CR175096)		ALL OF 04107-0276

PLAN OF SURVEY of

PART OF LOT 1 & LOTS 2 & 3 (WEST CHAMPAGNE AVENUE) BLOCK C AND LOTS 1, 2, 3 & 4 (EAST LORETTA AVENUE) BLOCK C AND LOTS 5, 6, 7 & 8 BLOCK C AND PART OF BLOCK C AND PART OF CHAMPAGNE AVENUE (CLOSED BY BY-LAW #4863, INST. No. CR175096) **REGISTERED PLAN 73 CITY OF OTTAWA**

Scale 1:200
5 0 5 10 METRES

METRIC CONVERSION

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

BEARING NOTE

BEARINGS ARE ASTRONOMIC AND ARE REFERRED TO THE EASTERLY LIMIT OF LORETTA AVENUE NORTH AS SHOWN ON PLAN 4R-207, HAVING A BEARING OF N 23° 00' 15" W.

OBSERVED REFERENCE POINTS DERIVED FROM THE CAN-NET VRS NETWORK GPS OBSERVATIONS ON NCC HORIZONTAL CONTROL MONUMENTS 19770035 AND 19780191. CENTRAL MERIDIAN, 76° 30' WEST LONGITUDE MTM ZONE 9, NAD83 (ORIGINAL). COORDINATES TO URBAN ACCURACY PER SEC 14(2) OF O.REG. 216/10

ORP ID	NORTHING	EASTING
(A)	5029419.12	366288.15
(B)	5029577.84	366202.38

COORDINATES CANNOT, IN THEMSELVES, BE USED TO RE-ESTABLISH CORNERS OR BOUNDARIES SHOWN ON THIS PLAN.

LEGEND (IF APPLICABLE)

■	DENOTES	FOUND MONUMENTS
□	"	SET MONUMENTS
IB	"	IRON BAR
IB⊕	"	ROUND IRON BAR
SIB	"	STANDARD IRON BAR
SSIB	"	SHORT STANDARD IRON BAR
CC	"	CUT CROSS
CP	"	CONCRETE PIN
WIT	"	WITNESS
PIN	"	PROPERTY IDENTIFICATION NUMBER
MEAS	"	MEASURED
PROP	"	PROPORTIONED
OU	"	ORIGIN UNKNOWN
SCC	"	STANTEC GEOMATICS LTD.
P	"	REGISTERED PLAN 73
P1	"	PLAN BY 725 DATED AUGUST 23, 1967
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P5	"	PLAN BY A&W DATED NOVEMBER 6, 1963
P6	"	PLAN 4R-207
P7	"	PLAN 4R-22151

SURVEYOR'S CERTIFICATE

I CERTIFY THAT :

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE LAND TITLES ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 16th DAY OF JULY, 2018 .

Nov 9/18
DATE

BRIAN J. WEBSTER
ONTARIO LAND SURVEYOR

Stantec
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CANADA LANDS SURVEYORS
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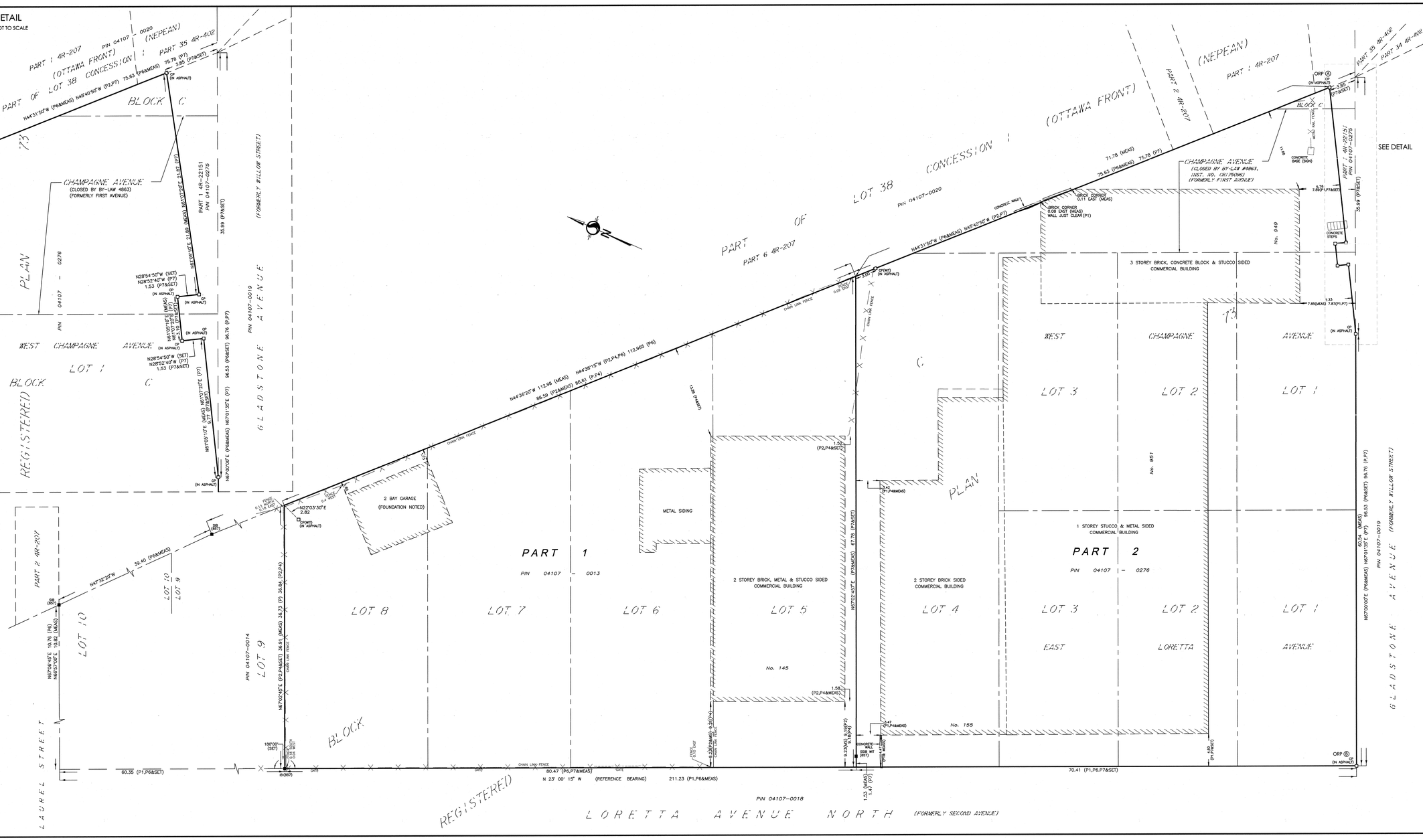
DRAWN: ME/CEC | CHECKED: BW | PM: BW | FIELD: ES | PROJECT No.: 161613694-114

DETAIL
NOT TO SCALE

SEE DETAIL



Appendix VI

Elevation Survey

SKETCH SHOWING MONITORING WELLS LOCATIONS

951 Gladstone Avenue & 145 Loretta Avenue North

CITY OF OTTAWA

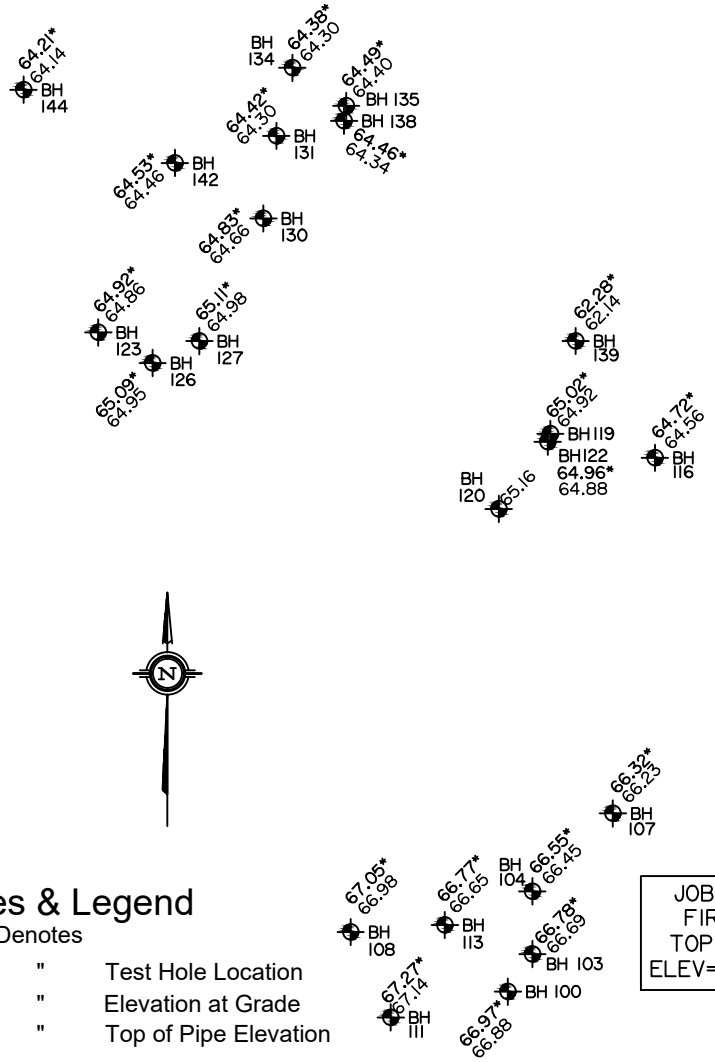
Prepared by Annis, O'Sullivan, Vollebekk Ltd.

Scale 1 : 1000

40 30 20 10 0 20 40 Metres

Metric

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



Point Number	Top of Pipe	Ground Elevation	Northing	Easting
100	66.88	66.97*	5029587.37	366219.21
103	66.69	66.78*	5029592.36	366222.47
104	66.45	66.55*	5029600.65	366222.44
107	66.23	66.32*	5029610.95	366233.10
108	66.98	67.05*	5029595.26	366198.42
111	67.14	67.27*	5029583.97	366203.73
113	66.65	66.77*	5029596.19	366210.88
115	62.82	62.96*	5029634.94	366268.22
116	64.56	64.72*	5029657.99	366238.67
119	64.92	65.02*	5029661.15	366224.84
120	65.16	65.25*	5029651.23	366218.00
122	64.88	64.96*	5029660.11	366224.49
123	64.86	64.92*	5029674.57	366165.03
126	64.95	65.09*	5029670.52	366172.22
127	64.98	65.11*	5029673.42	366178.42
130	64.66	64.83*	5029689.64	366186.88
131	64.30	64.42*	5029700.56	366188.59
134	64.30	64.38*	5029709.57	366190.70
135	64.40	64.49*	5029704.54	366197.82
138	64.34	64.46*	5029702.56	366197.54
139	62.14	62.28*	5029673.44	366228.18
142	64.46	64.53*	5029696.98	366175.17
144	64.14	64.21*	5029706.67	366155.14

Notes & Legend

Denotes

BH	"	Test Hole Location
99.99*	"	Elevation at Grade
99.99	"	Top of Pipe Elevation

Caution

This is NOT a Plan of Survey and shall not be used except for the purpose indicated in the title block.

Coordinates are derived from Can-Net 2016 Real Time Network GPS observations referenced to Specified Control Points 01919680005 and 01919680105,
MTM Zone 9 (76°30' West Longitude) NAD-83 (original).

Coordinate values are to urban accuracy in accordance with O. Reg. 216/10.

. 01919680005 Northing 5027191.26 Easting 361496.76
. 01919680105 Northing 5024915.16 Easting 373971.65

ELEVATION NOTES

1. Elevations shown are geodetic and are referred to the CGVD28 geodetic datum, derived from vertical control monument No. 2016-0355 having an elevation of 58.649 metres.
2. It is the responsibility of the user of this information to verify that the job benchmark has not been altered or disturbed and that it's relative elevation and description agrees with the information shown on this drawing.

ANNIS, O'SULLIVAN, VOLLEBEKK LTD.
14 Concourse Gate, Suite 500
Nepean, Ont. K2E 7S6
Phone: (613) 727-0850 / Fax: (613) 727-1079
Email: Nepean@aovltd.com
Ontario Land Surveyors

Job No. 21790-21 Test Holes June 29, 2021

Y:\2021\21790-21_Pinchin Ltd_951 Gladstone-145 Loretta Ave_Well Casing Elev_EH\Drawings\21790-21 Test Holes June 29, 2021.dwg