FINAL

Phase II Environmental Site Assessment

81 Consecon Main Street
Consecon, Ontario

Prepared for:

The Corporation of the County of Prince Edward
332 Picton Main Street
Picton, ON K0K 2T0

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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 The Corporation of the County of Prince Edward (Client) to conduct a Phase II Environmental Site Assessment (ESA) of the property located at 81 Consecon Main Street in Consecon, Ontario (hereafter referred to as the Site).

The Site is developed with one single-storey commercial building (Site Building).

The purpose of this Phase II ESA was to address potential issues of environmental concern identified during previous environmental work conducted by Pinchin at the Site in relation to the potential divestiture of the Site.

Pinchin previously completed a Phase One ESA of the Site for the Client, the findings of which were provided in the report entitled "*Phase One Environmental Site Assessment, 81 Consecon Main Street, Consecon, Ontario*", dated August 4, 2017. The results of the Phase One ESA completed by Pinchin identified the following areas of potential environmental concern (APECs) that could give rise to potential subsurface impacts in connection with the Site:

- The Site Building was formerly utilized as a fire station with the inferred bulk storage of fire retardant materials. Based on the inferred bulk storage of fire-retardant materials, it was Pinchin's opinion that the fire-retardant materials could result in potential subsurface impacts at the Site;
- It was reported that a quantity of fill material of unknown quality was imported to the central and west portions of the Site. Based on the unknown quantity and quality of fill material deposited on the Site, it was Pinchin's opinion that the unknown fill materials could result in potential subsurface impacts at the Site; and
- A historical automotive repair facility with associated structures (i.e., aboveground storage tanks (ASTs)) was located adjacent to the south-central portion of the Site. Based on the nature of operations and the close proximity between this property and the Site, it was Pinchin's opinion that this property could result in potential subsurface impacts at the Site.

Based on the above-mentioned findings, it was Pinchin's recommendation that a Phase Two ESA be conducted at the Site in order to assess the above-noted APECs for the presence of environmental impacts.

A Phase Two ESA was initiated at the Site in October 2017 and consisted of the advancement of four boreholes, one of which was completed as a groundwater monitoring well (MW1).

Select “worst case” soil samples collected during the borehole drilling program were submitted for laboratory analysis of volatile organic compounds (VOCs), petroleum hydrocarbons (PHCs) in the F1 to F4 (F1-F4) fraction ranges, polycyclic aromatic hydrocarbons (PAHs) and metals.

Based on Site specific information, the soil quality was assessed based on the Ministry of the Environment, Conservation and Parks (MECP) *Table 6 Standards* for industrial/commercial/community land use and medium/fine-textured soil.

Reported concentration in the soil samples submitted for laboratory analysis of PHCs (F1-F4), VOCs, PAHs and metals satisfied their respective *Table 6 Standards,* with the following exceptions:

- The soil sample collected at borehole BH4-S1 exceeded the *Table 6 Standards* for arsenic (19.8 micrograms per gram (µg/g) vs. the *Table 6 Standards* of 18 µg/g);
- The soil sample collected at borehole BH5-S2 exceeded the *Table 6 Standards* for arsenic (19.8 µg/g vs. the *Table 6 Standards* of 18 µg/g), lead (151 µg/g vs. the *Table 6 Standards* of 120 µg/g);
- The soil sample collected at borehole BH7-S1 exceeded the *Table 6 Standards* for lead (406 µg/g vs. the *Table 6 Standards* of 120 µg/g); and
- The soil sample collected at borehole BH8-S1 exceeded the *Table 6 Standards* for lead (224 µg/g vs. the *Table 6 Standards* of 120 µg/g), acenaphthylene (0.40 µg/g vs. the *Table 6 Standards* of 0.17 µg/g), benzo(a)anthracene (1.40 µg/g vs. the *Table 6 Standards* of 0.96 µg/g), benzo(a)pyrene (1.57 µg/g vs. the *Table 6 Standards* of 0.3 µg/g), benzo(b)fluoranthene (1.58 µg/g vs. the *Table 6 Standards* of 0.96 µg/g), dibenzo(a,h) anthracene (0.29 µg/g vs. the *Table 6 Standards* of 0.1 µg/g) and indeno(1,2,3-cd)pyrene (0.98 µg/g vs. the *Table 6 Standards* of 0.95 µg/g).

Based on the findings noted above, Pinchin recommended that the advancement of two additional boreholes completed as monitoring wells be completed at the Site in order to satisfy the MECP requirements for a record of Site condition (RSC) filing for the Site. In addition, in an email summary with the Client, Pinchin recommended that a remedial excavation and verification soil sampling program be completed at the Site or alternatively a risk assessment could be completed for the soil to remain on-Site.

The Phase II ESA was completed at the Site by Pinchin between September 13, 2023 and October 27, 2023, which consisted of the advancement of six boreholes, two of which were completed as groundwater monitoring wells (MW101 and MW106).

Select “worst case” soil samples collected during the borehole drilling program were submitted for laboratory analysis of PHCs (F1-F4), VOCs, PAHs, PFAS and metals. The two newly installed groundwater monitoring wells (MW101 and MW106) were observed to be dry. The groundwater sample collected from the previously installed monitoring well (MW1) was submitted for laboratory analysis of PHCs (F1-F4), VOCs, PAHs and metals.

Based on Site-specific information, the soil and groundwater quality was assessed based on the Ontario Ministry of the Environment, Conservation and Parks *Table 6 Standards* for industrial/commercial/community land use and medium/fine-textured soil.

The reported concentrations in the soil samples submitted for analysis of PHCs (F1-F4), VOCs, PAHs, metals and/or PFAS satisfied their respective *Table 6 Standards*, with the following exceptions:

- Soil sample BH104-S2 exceeded the *Table 6 Standard* for PAHs (benzo(a)pyrene);
- Soil sample BH105-AS1 exceeded the *Table 6 Standard* for metals (arsenic, lead and zinc); and
- Soil sample MW106-S2 exceeded the *Table 6 Standard* for PAHs (benzo(a)pyrene) and metals (barium, cadmium, lead and zinc).

The reported concentrations in the groundwater samples submitted for analysis of PHCs (F1-F4), VOCs, PAHs and metals satisfied their respective *Table 6 Standards,* with the following exceptions:

- Groundwater sample collected on September 29, 2023 at monitoring well MW1 which exceeded the *Table 6 Standard* for VOCs (carbon tetrachloride, 1,1-Dichloroethylene) and metals (barium, molybdenum, selenium, uranium); and
- Groundwater sample collected on October 27, 2023 at monitoring well MW1, which exceeded the *Table 6 Standard* for metals (barium, molybdenum, selenium, uranium).

Pinchin notes that the laboratory was required to dilute the groundwater sample collected at monitoring well MW1 during analysis, which resulted in the laboratory reportable detection limits for VOC parameters 1,1-dichloroethylene and carbon tetrachloride being raised to levels above the *Table 6 Standards*. However, given that these parameters were not detected in any soil samples collected at the Site, it is Pinchin’s opinion that these VOC parameters are unlikely to be present in groundwater at monitoring well MW1 at concentrations above the *Table 6 Standards*.

Based on the findings of this Phase II ESA, the metal (arsenic, barium, cadmium, lead and zinc) and PAH (benzo(a)pyrene) impacts within the soil are inferred to be limited to fill material that was imported to the central and west portions of the Site. It is Pinchin's opinion that the soil impacts are unlikely to represent a risk to human health given the non-volatile nature of the contaminants and the fact that they have a low propensity to dissolve and migrate into the groundwater which is at significant depth (i.e., >21 m).

The metal parameters which exceeded the *Table 6 Standards* in the groundwater sample collected at monitoring well MW1 (barium, molybdenum, selenium and uranium) differ from the metal parameters which exceeded the soil samples, indicating that the source of the metal exceedances in groundwater is unlikely related to the fill material on-Site. Given the potable groundwater condition on-Site, Pinchin compared the groundwater results to the Ontario Drinking Water Quality Standards – Ontario Regulation 169/03 (as amended) (ODWQS), and identified concentrations of barium and selenium exceeding the ODWQS. As such, if the groundwater on-Site will be utilized in the future for drinking water purposes, Pinchin recommends completing a potable water sampling program of the on-Site drinking water well.

With the exception of the recommended potable drinking water sampling program, it is Pinchin's opinion that no further subsurface investigation is required for the Site at this time in relation to the findings of the 2017 Pinchin Phase One ESA or identified impacts at the Site, provided that the intended use of the Site remains for commercial/light industrial purposes. Should the Site be redeveloped in the future, it is Pinchin's recommendation that remediation and/or risk mitigation measures will be required at that time to manage the soil and groundwater impacts at the Site.

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 The Corporation of the County of Prince Edward (Client) to conduct a Phase II Environmental Site Assessment (ESA) of the property located at 81 Consecon Main Street in Consecon, Ontario (hereafter referred to as the Site). The Site location is shown on Figure 1 (all Figures are provided in Appendix I).

The Site is developed with one single-storey commercial building (Site Building).

The purpose of this Phase II ESA was to address potential issues of environmental concern identified during previous environmental work conducted by Pinchin at the Site in relation to the potential divestiture of the Site.

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

1.1 Background

Pinchin completed a Phase One ESA of the Site for the Client, the findings of which were provided in the report entitled "*Phase One Environmental Site Assessment, 81 Consecon Main Street, Consecon, Ontario*", dated August 4, 2017. The results of the Phase One ESA completed by Pinchin identified the following areas of potential environmental concern (APECs) that could give rise to potential subsurface impacts in connection with the Site:

- The Site Building was formerly utilized as a fire station with the inferred bulk storage of fire retardant materials. Based on the inferred bulk storage of fire-retardant materials, it was Pinchin's opinion that the fire-retardant materials could result in potential subsurface impacts at the Site;
- It was reported that a quantity of fill material of unknown quality was imported to the central and west portions of the Site. Based on the unknown quantity and quality of fill material deposited on the Site, it was Pinchin's opinion that the unknown fill materials could result in potential subsurface impacts at the Site; and
- A historical automotive repair facility with associated structures (i.e., aboveground storage tanks (ASTs)) was located adjacent to the south-central portion of the Site. Based on the nature of operations and the close proximity between this property and the Site, it was Pinchin's opinion that this property could result in potential subsurface impacts at the Site.

Based on the above-mentioned findings, it was Pinchin's recommendation that a Phase Two ESA be conducted at the Site in order to assess the above-noted APECs for the presence of environmental impacts.

A Phase Two ESA was initiated at the Site in October 2017 and consisted of the advancement of four boreholes, one of which was completed as a groundwater monitoring well (MW1).

Select "worst case" soil samples collected during the borehole drilling program were submitted for laboratory analysis of volatile organic compounds (VOCs), petroleum hydrocarbons (PHCs) in the F1 to F4 (F1-F4) fraction ranges, polycyclic aromatic hydrocarbons (PAHs) and metals.

Based on Site specific information, the soil quality was assessed based on the Ministry of the Environment, Conservation and Parks (MECP) *Table 6 Standards* for industrial/commercial/community land use and medium/fine-textured soil.

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Based on the findings noted above, Pinchin recommended that the advancement of two additional boreholes completed as monitoring wells be completed at the Site in order to satisfy the MECP requirements for a record of Site condition (RSC) filing for the Site. In addition, in an email summary with the Client, Pinchin recommended that a remedial excavation and verification soil sampling program be completed at the Site or alternatively a risk assessment could be completed for the soil to remain on-Site.

1.2 Scope of Work

The scope of work completed by Pinchin, as outlined in the Pinchin work plan entitled, *"PEC-CSPI-0003-2023 – Environmental Site Assessment"*, submitted to the Client on June 19, 2023, included the following:

- Advancement of five boreholes following the clearance of underground services, three of which were instrumented with a monitoring well;
- Submission of select "worst case" soil samples for laboratory analysis of VOCs, PHCs (F1-F4), PAHs, metals and/or perfluoroalkyl and polyfluoroakyl substances (PFAS);
- Collection of groundwater samples from each of the newly installed monitoring wells and previously installed monitoring well (MW1) (if viable), following well development and purging, for laboratory analysis of VOCs, PHCs (F1-F4), PAHs, metals and/or PFAS;
- Completion of an elevation survey and depth to groundwater measurements for the newly installed monitoring wells and previously installed monitoring well;
- Comparison of the soil and groundwater laboratory analytical results to the applicable regulatory criteria; and
- Preparation of a factual report detailing the findings of the Phase II ESA and recommendations.

The scope of work described in the Pinchin proposal included the advancement of five boreholes, three of which were to be instrumented as groundwater monitoring wells. However, due to the viable usage of the existing monitoring well (MW1), Pinchin advanced two boreholes completed as monitoring wells (MW101 and MW106) and four boreholes (BH2-BH5). In addition, Pinchin proposed that groundwater sampling be completed at each of the newly installed monitoring wells (MW101 and MW106) and existing monitoring well MW1 (if viable). However, there was insufficient groundwater present in monitoring wells MW101 and MW106 at the time of the Phase II ESA to permit groundwater sampling or the completion of an elevation survey.

2.0 METHODOLOGY

The investigation methodology was conducted in general accordance with the Ontario Ministry of the Environment, Conservation and Parks (MECP) document entitled *"Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario"* dated December 1996 (*MECP Sampling Guideline*), the 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).

2.1 Borehole Investigation

Pinchin retained Canadian Environmental Drilling and Contracting (Canadian) to complete the borehole drilling program at the Site on September 13, 2023 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. Canadian 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 21.34 metres below ground surface (mbgs) using a CME-55 LC direct push drill rig with air rotary capabilities to advance through bedrock stratigraphy. Soil samples were collected at regular intervals using 5.08 centimetre (cm) inner diameter (ID) direct push soil samplers with dedicated single-use sample liners. Discrete soil samples were collected from the single-use liners and containerized in laboratory-supplied glass sampling jars.

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

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

2.2 Monitoring Well Installation

Groundwater monitoring wells were installed in boreholes MW101 and MW106 to enable groundwater monitoring and sampling. The monitoring wells were constructed with 5.08 cm ID flush-threaded Schedule 40 polyvinyl chloride (PVC) risers, followed by a length of 5.08 cm ID No. 10 slot PVC screen that intersected the suspected static groundwater level.

Each well screen was sealed at the bottom using a threaded cap and each riser was sealed at the top with a lockable J-plug cap. Silica sand was placed around and above the screened interval to form a filter pack around the well screen. A layer of bentonite was placed above the silica sand and was extended to just below the ground surface. A 7.6 cm ID Schedule 40 PVC outer casing, approximately 45 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 aboveground monument casing was installed at the ground surface over each riser pipe and outer casing and cemented in place.

The locations of the monitoring wells are shown on Figure 2. The monitoring well construction details are shown on the borehole logs included in Appendix II and on Table 3 in Appendix III (all Tables are provided within Appendix III).

2.3 Groundwater Monitoring

The water levels within the monitoring wells were measured on September 15, 2023 and October 27, 2023 using an interface probe. The presence/absence of non-aqueous phase liquid (NAPL) was also assessed during groundwater monitoring using the interface probe.

2.4 Sampling and Laboratory Analysis

2.4.1 Soil

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

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

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

2.4.2 Groundwater

On September 15, 2023 the existing monitoring well (MW1) was developed by removing three to five well casing volumes, or was purged until dry, in accordance with Pinchin's SOPs.

On September 29, 2023, the existing monitoring well (MW1) was sampled using Pinchin's SOPs for low flow purging and sampling. The groundwater sample collected from the monitoring well (MW1) was submitted for laboratory analysis of VOCs, PHCs (F1-F4), PAHs and metals.

All monitoring well development activities were conducted using dedicated inertial pumps comprised of Waterra polyethylene tubing and foot valves. The purging and sampling of the monitoring wells were completed using a peristaltic pump and dedicated polyethylene tubing. Samples collected for metals analysis were filtered in the field using dedicated 0.45-micron in-line filters prior to preservation.

On October 27, 2023, Pinchin returned to the Site to resample the existing monitoring well (MW1). The groundwater sample collected from this monitoring well was submitted for laboratory analysis of metals.

Samples collected for metals analysis were filtered in the field using dedicated 0.45-micron in-line filters prior to preservation. The sampling for the monitoring well (MW1) was conducted using a peristaltic pump and dedicated polyethylene tubing.

Pinchin notes that the groundwater recovery at monitoring wells MW101 and MW106 was non-existent at the time of development and no groundwater was available for sampling.

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

2.4.3 Analytical Laboratory

Selected soil and groundwater samples were delivered to AGAT Laboratories (AGAT) in Mississauga, Ontario] for analysis. AGAT is an independent laboratory accredited by the Standards Council of Canada and the Canadian Association for Laboratory Accreditation. Formal chain of custody records of the sample submissions were maintained between Pinchin and the staff at AGAT.

2.5 QA/QC Protocols

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

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

- Care was exercised not to obtain soil samples that were in direct contact with the drilling equipment or that had been smeared along the edge of the borehole;
- 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 (i.e., interface probe) was cleaned before initial use and between uses to minimize the potential for cross-contamination by

washing with an Alconox™/potable water mixture followed by a deionized water rinse; and

- Sample collection and handling procedures were performed in general accordance with the *MECP Sampling Guideline*, the *APGO Guideline* and Pinchin's SOPs for Phase II ESAs.

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

2.6 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. Canadian 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).

2.7 Site Condition Standards

The Site is a commercial property located in the Town of Consecon. It is Pinchin's understanding that potable water for the Site and surrounding area is supplied by privately-owned supply wells. The Site contains land within 30 metres (m) of an unnamed creek; however, no borehole or monitoring well locations are located within 30 m of the creek.

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

Two representative soil samples collected from the boreholes advanced at the Site were submitted for 75 micron single-sieve grain size analysis. In addition, based on a review of the previous Phase Two ESA completed at the Site (refer to Section 1.1), four representative soil samples collected from the boreholes advanced at the Site in 2017 were submitted for 75 micron single-sieve grain size analysis as well. Based on the results of the current and 2017 grain size analysis, the soil at the Site is interpreted to be medium/fine-textured for the purpose of selecting the appropriate *MECP Standards.*

The pH and grain size analytical results are summarized in Table 2.

The results of the borehole drilling program indicated that the overburden was less than two metres thick over more than one-third of the Site area, classifying the Site as a "shallow soil property" as per Ontario Regulation 153/04 (as amended).

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

- "Table 6: Generic Site Condition Standards for Shallow Soils in a Potable Ground Water Condition", provided in the *MECP Standards* (*Table 6 Standards*) for:
  - Medium/fine-textured soils; and
  - Industrial/commercial/community property use.

As such, the analytical results have been compared to these *Table 6 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 grass generally consists of fill material comprised of loose brown sand and gravel to a depth between approximately 0.76 and 1.52 mbgs, extending to the bedrock surface.

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

The water level information obtained during groundwater monitoring is presented in Table 4 and on the borehole logs in Appendix II. The depth to groundwater measured in monitoring well MW1 was 0.32 mbgs on September 15, 2023.

An unnamed creek is located approximately 20 m west of the Site and Weller's Bay is located approximately 430 m northwest of the Site. The topography of the Site and surrounding area were observed to be generally flat with a slight grade downwards towards the unnamed creek located west of the Site. Groundwater flow at the Site is inferred to be towards the west based on the topography of the Site area and the location of the unnamed creek.

3.2 Soil Headspace Vapour Concentrations

Vapour concentrations measured in the headspace of soil samples collected during the drilling investigation are presented on the borehole logs in Appendix II and ranged from 0 parts per million by volume (ppm_v) to a maximum of 15 ppm_v in soil sample BH104-S1 collected at a depth of 0.15 to 0.30 mbgs.

3.3 Field Observations

No odours or staining were observed in the soil samples collected during the borehole drilling program or during the groundwater monitoring and sampling.

3.4 Analytical

3.4.1 Soil

As indicated in Tables 5 through 9, reported concentrations of PHCs (F1-F4), VOCs, PAHs, metals and/or PFAS in the soil samples submitted for analysis met the *Table 6 Standards,* with the with the following exceptions:

- Soil sample BH104-S2 exceeded the *Table 6 Standards* for benzo(a)pyrene (0.45 micrograms per gram (µg/g) vs. the *Table 6 Standard* of 0.30 µg/g);
- Soil sample BH105-AS1 exceeded the *Table 6 Standards* for arsenic (23 µg/g vs. the *Table 6 Standard* of 18 µg/g), lead (161 µg/g vs. the *Table 6 Standard* of 120 µg/g), zinc (346 µg/g vs. the *Table 6 Standard* of 340 µg/g); and
- Soil sample MW106-S2 exceeded the *Table 6 Standards* for benzo(a)pyrene (0.59 µg/g vs. the *Table 6 Standard* of 0.30 µg/g), barium (759 µg/g vs. the *Table 6 Standard* of 670 µg/g), cadmium (13.1 µg/g vs. the *Table 6 Standard* of 1.9 µg/g), lead (1,350 µg/g vs. the *Table 6 Standard* of 120 µg/g) and zinc (2,580 µg/g vs. the *Table 6 Standard* of 340 µg/g).

The summary of the TCLP analytical results along with the leachate quality criteria listed in Schedule 4 of Ontario Regulation 347 (as amended) (*Schedule 4 Criteria)* can be found in Table 10.

As indicated in Table 10, the leachate concentrations in the soil sample were below the applicable *Schedule 4 Criteria*. Based on these findings, the excess soil generated by the borehole drilling program is suitable for off-Site disposal as non-hazardous solid waste.

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

3.4.2 Groundwater

As indicated in Tables 11 through 14, reported concentrations in the groundwater samples submitted for analysis of PHCs (F1-F4), VOCs, PAHs and/or metals met the *Table 6 Standards,* with the following exceptions:

- The groundwater sample collected from monitoring well MW1 on September 29, 2023 exceeded the *Table 6 Standards* for carbon tetrachloride (0.40 micrograms per litre (µg/L) vs. the *Table 6 Standard* of 0.2 µg/L), 1,1-dichloroethylene (0.60 µg/L vs. the *Table 6 Standard* of 0.50 µg/L), barium (2,070 µg/L vs. the *Table 6 Standard* of 1,000 µg/L), molybdenum (86.8 µg/L vs. the *Table 6 Standard* of 70 µg/L), selenium (10.8 µg/L vs. the *Table 6 Standard* of 10 µg/L) and uranium (36.4 µg/L vs. the *Table 6 Standard* of 20 µg/L); and
- The groundwater sample collected from monitoring well MW1 on October 27, 2023 for metals exceeded the *Table 6 Standard* for barium (2850 µg/L vs. the *table 6 Standard* of 1000 µg/L), molybdenum (85.1 µg/L vs. the *table 6 Standard* of 70 µg/L), selenium (10.6 µg/L vs. the *table 6 Standard* of 10 µg/L) and uranium (28.9 µg/L vs. the *table 6 Standard* of 20 µg/L).

As indicated in Table 12, Pinchin notes that the laboratory was required to dilute the groundwater sample collected at monitoring well MW1 during analysis, which resulted in the laboratory reportable detection limits (RDLs) for VOC parameters 1,1-dichloroethylene and carbon tetrachloride being raised to levels above the *Table 6 Standards*. However, given that these parameters were not detected in any soil samples collected at the Site, it is Pinchin's opinion that these VOC parameters are unlikely to be present in groundwater at monitoring well MW1 at concentrations above the *Table 6 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 II ESA:

- Pinchin retained Canadian to advance six boreholes at the Site on September 13, 2023. The boreholes were advanced to a maximum depth of 21.34 mbgs using a CME-55 LC direct push drill rig. Two of the boreholes were instrumented with monitoring wells to enable groundwater monitoring and sampling;

- The soil stratigraphy at the drilling locations generally consists of loose brown sand and gravel fill material to a depth between approximately 0.76 and 1.52 mbgs, extending to the bedrock surface;
- Groundwater levels at the Site measured on September 15, 2023 was 0.32 mbgs at existing monitoring well MW1. The two newly installed groundwater monitoring wells (MW101 and MW106) were observed to be dry. Inferred groundwater flow is expected to be west based on topography and the presence of an unnamed creek located west of the Site;
- Based on Site-specific information, the soil and groundwater quality was assessed based on the *Table 6 Standards* for industrial/commercial/community land use and medium/fine-textured soils;
- Select "worst case" soil samples based on the results of field screening were submitted for laboratory analysis of PHCs (F1-F4), VOCs, PAHs, metals and/or PFAS;
- Groundwater samples were collected from existing monitoring well MW1 installed by Pinchin on September 29, 2023 and were submitted for laboratory analysis of PHCs (F1-F4), VOCs, PAHs and metals. Pinchin returned to the Site on October 27, 2023 to collect a groundwater sample from existing monitoring well MW1 and was submitted for laboratory analysis of metals;
- Reported concentrations in the soil samples submitted for analysis of PHCs (F1-F4), VOCs, PAHS, metals and/or PFAS satisfied their respective *Table 6 Standards*, with the following exceptions:
    - Soil sample BH104-S2 exceeded the *Table 6 Standard* for PAHs (benzo(a)pyrene);
    - Soil sample BH105-AS1 exceeded the *Table 6 Standard* for metals (arsenic, lead and zinc); and
    - Soil sample MW106-S2 exceeded the *Table 6 Standard* for PAHs (benzo(a)pyrene) and metals (barium, cadmium, lead and zinc).
- Reported concentrations in the groundwater samples submitted for analysis of PHCs (F1-F4), VOCs, PAHs and metals satisfied their respective *Table 6 Standards,* with the following exceptions:
    - Groundwater sample collected on September 29, 2023 at monitoring well MW1 which exceeded the *Table 6 Standard* for VOCs (carbon tetrachloride, 1,1-Dichloroethylene) and metals (barium, molybdenum, selenium, uranium); and

- Groundwater sample collected on October 27, 2023 at monitoring well MW1, which exceeded the *Table 6 Standard* for metals (barium, molybdenum, selenium, uranium).

- Pinchin notes that the laboratory was required to dilute the groundwater sample collected at monitoring well MW1 during analysis, which resulted in the laboratory RDLs for VOC parameters 1,1-dichloroethylene and carbon tetrachloride being raised to levels above the *Table 6 Standards*. However, given that these parameters were not detected in any soil samples collected at the Site, it is Pinchin's opinion that these VOC parameters are unlikely to be present in groundwater at monitoring well MW1 at concentrations above the *Table 6 Standards*.

Based on the findings of this Phase II ESA, the metal (arsenic, barium, cadmium, lead and zinc) and PAH (benzo(a)pyrene) impacts within the soil are inferred to be limited to fill material that was imported to the central and west portions of the Site. It is Pinchin's opinion that the soil impacts are unlikely to represent a risk to human health given the non-volatile nature of the contaminants and the fact that they have a low propensity to dissolve and migrate into the groundwater which is at significant depth (i.e., >21 m).

The metal parameters which exceeded the *Table 6 Standards* in the groundwater sample collected at monitoring well MW1 (barium, molybdenum, selenium and uranium) differ from the metal parameters which exceeded the soil samples, indicating that the source of the metal exceedances in groundwater is unlikely related to the fill material on-Site. Given the potable groundwater condition on-Site, Pinchin compared the groundwater results to the Ontario Drinking Water Quality Standards – Ontario Regulation 169/03 (as amended) (ODWQS), and identified concentrations of barium and selenium exceeding the ODWQS. As such, if the groundwater on-Site will be utilized in the future for drinking water purposes, Pinchin recommends completing a potable water sampling program of the on-Site drinking water well.

With the exception of the recommended potable drinking water sampling program, it is Pinchin's opinion that no further subsurface investigation is required for the Site at this time in relation to the findings of the 2017 Pinchin Phase One ESA or identified impacts at the Site, provided that the intended use of the Site remains for commercial/light industrial purposes. Should the Site be redeveloped in the future, it is Pinchin's recommendation that remediation and/or risk mitigation measures will be required at that time to manage the soil and groundwater impacts at the Site.

5.0 TERMS AND LIMITATIONS

This Phase II ESA was performed for The Corporation of the County of Prince Edward (Client) in order to investigate potential environmental impacts at 81 Consecon Main Street in Consecon, Ontario (Site). This Phase II ESA does not quantify the extent of the current and/or potential environmental impacts or the cost of any remediation.

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

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

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

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

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

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

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Template: Master Report for Phase II ESA - Stage 2 PSI, EDR, January 13, 2021

APPENDIX I
Figures

PINCHIN

PROJECT NAME:	PHASE II ENVIRONMENTAL SITE ASSESSMENT
CLIENT NAME:	THE CORPORATION OF THE COUNTY OF PRINCE EDWARD
PROJECT LOCATION:	81 CONSECON MAIN STREET, CONSECON, ONTARIO
FIGURE NAME:	KEY MAP
FIGURE NUMBER	1

PROJECT NUMBER:	SCALE:	DRAWN BY:	REVIEWED BY:	DATE:
327928	1:20,000	KL	JM	NOVEMBER 2023

N

LEGEND

- SITE BOUNDARY
- SITE BUILDING
- BOREHOLE
- MONITORING WELL
- WATERBODY
- RES RESIDENTIAL
- MONITORING WELL INSTALLED (PINCHIN, 2017)

INFERRED GROUNDWATER FLOW DIRECTION

0 5 15 25 m

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

PINCHIN

PROJECT NAME:
PHASE II ENVIRONMENTAL SITE ASSESSMENT

CLIENT NAME:
THE CORPORATION OF THE COUNTY OF PRINCE EDWARD

PROJECT LOCATION:
81 CONSECON MAIN STREET, CONSECON, ONTARIO

FIGURE NAME:
BOREHOLE AND MONITORING WELL LOCATION PLAN

PROJECT NUMBER:	SCALE:
327928	AS SHOWN
DRAWN BY:	REVIEWED BY:
KL	JM
DATE:	FIGURE NUMBER:
NOVEMBER 2023	2

APPENDIX II

Borehole Logs

Log of Borehole: BH102

Project #: 327928.000 **Logged By:** JM

Project: Phase II Environmental Site Assessment

Client: The Corporation of the County of Prince Edward

Location: 81 Consecon Main Street, Consecon, Ontario

Drill Date: September 13, 2023

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				
		Grass	0.00 -0.15					
		TopSoil	0.15 -0.30		40	S1	0/0	Metals
1		***Sand and Gravel*** Loose chunks	0.30 -0.61					
2		***Sand*** Brown, dry, loose	0.61		20	S2	0/0	PAHs, PHCs (F1-F4), and VOCs
3 / 1			-1.07					
		End of Borehole	1.07					
4								

Contractor: Canadian Environmental Drilling

Drilling Method: Auger/Air Hammer

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: BH103

Project #: 327928.000 **Logged By:** JM

Project: Phase II Environmental Site Assessment

Client: The Corporation of the Country of Prince Edward

Location: 81 Consecon Main Street, Consecon, Ontario

Drill Date: September 13, 2023

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				
		Grass	0.00					
			-0.15					
		TopSoil	0.15		50	SS1	10/0	PAHs, PHCs (F1-F4), VOCs, and Metals
1			-0.30					
		Sand and Gravel Dry, loose	0.30		0			
2								
3								
1								
			-1.19					
4		End of Borehole	1.19					
5								

Contractor: Canadian Environmental Drilling

Drilling Method: Auger/Air Hammer

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: BH104

Project #: 327928.000 **Logged By:** JM

Project: Phase II Environmental Site Assessment

Client: The Corporation of the County of Prince Edward

Location: 81 Consecon Main Street, Consecon, Ontario

Drill Date: September 13, 2023

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				
		Grass	0.00		100	AS1	15/0	Metals, and Texture
			-0.15					
		Sand Dark brown, loose	0.15					
1					20	S2	5/0	PAHs, PHCs (F1-F4), VOCs, and pH
2					0			
			-0.76					
		End of Borehole	0.76					
3 / 1								
4								

Contractor: Canadian Environmental Drilling

Drilling Method: Auger/Air Hammer

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: BH105

Project #: 327928.000 **Logged By:** JM

Project: Phase II Environmental Site Assessment

Client: The Corporation of the County of Prince Edward

Location: 81 Consecon Main Street, Consecon, Ontario

Drill Date: September 13, 2023

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				
		Grass	0.00		100	AS1	0/0	Metals, and Texture
			-0.15					
		Sand Brown, loose	0.15		40	S2	0/0	PFAS
			-0.76					
		Grave and Sand	0.76		40	S3	0/0	PAHs, PHCs (F1-F4), and VOCs
1			-1.07					
		End of Borehole	1.07					
2								
3								
4								
5								

Contractor: Canadian Environmental Drilling

Drilling Method: Auger/Air Hammer

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: MW106

Project #: 327928.000 **Logged By:** JM

Project: Phase II Environmental Site Assessment

Client: The Corporation of the County of Prince Edward

Location: 81 Consecon Main Street, Consecon, Ontario

Drill Date: September 13, 2023

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					
		Grass	0.00					
1		***TopSoil***			20	S1	5/0	
2 / 1		***Sand***			30	S2	10/0	PAHs, PHCs (F1-F4), VOCs, and Metals
3		Loose, some gravel	-1.52					
4		***Bedrock***	1.52					
5 / 2								
6								
7 / 3								
8								
9 / 4								
10								
11 / 5								
12								
13 / 6								
14								
15 / 7								
16								
17 / 8								
18								
19 / 9								
20								
21 / 10								
22								
23 / 11								
24								
25 / 12								
26								
27 / 13								
28								
29 / 14								
30								
31 / 15								
32								
33 / 16								
34								
35 / 17								
36								

Bentonite

Contractor: Canadian Environmental Drilling

Drilling Method: Auger/Air Hammer

Well Casing Size: 2"

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

Log of Borehole: MW106

Project #: 327928.000 ***Logged By:*** JM

Project: Phase II Environmental Site Assessment

Client: The Corporation of the County of Prince Edward

Location: 81 Consecon Main Street, Consecon, Ontario

Drill Date: September 13, 2023

SUBSURFACE PROFILE					SAMPLE			
Depth	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
12								
13								
14								
15								
16								
17								
18				Riser, Silica Sand				
19								
20				Screen				
21			-21.34					
		End of Borehole	21.34					

Contractor: Canadian Environmental Drilling

Drilling Method: Auger/Air Hammer

Well Casing Size: 2"

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: 2 of 2

Log of Borehole: MW101

Project #: 327928.000 **Logged By:** JM

Project: Phase II Environmental Site Assessment

Client: The Corporation of the County of Prince Edward

Location: 81 Consecon Main Street, Consecon, Ontario

Drill Date: September 15, 2023

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					
		Grass	0.00					
		Top Soil and Sand	-0.76		30	S1	5/0	PAHs, PHCs (F1-F4), and VOCs
3 / 1		Dark brown	0.76		20	S2	5/0	Metals, and pH
		Sand and Gravel						
		Dry, loose						
6 / 2		***Bedrock***						
10 / 3				Bentonite				
13 / 4								
16 / 5								
20 / 6								
23 / 7								
26 / 8								
29 / 9								
33 / 10								
36								

Contractor: Canadian Environmental Drilling

Drilling Method: Auger/Air Hammer

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

Log of Borehole: MW101

Project #: 327928.000 ***Logged By:*** JM

Project: Phase II Environmental Site Assessment

Client: The Corporation of the County of Prince Edward

Location: 81 Consecon Main Street, Consecon, Ontario

Drill Date: September 15, 2023

SUBSURFACE PROFILE					SAMPLE			
Depth	Symbol	Description	Measured Depth (m)	Monitoring Well Details	Recovery (%)	Sample ID	Soil Vapour Concentration* (ppm) CGI/PID	Laboratory Analysis
37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72		End of Borehole	-21.34 21.34	Riser Screen Silica Sand				

Contractor: Canadian Environmental Drilling

Drilling Method: Auger/Air Hammer

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: 2 of 2

APPENDIX III
Summary Tables

TABLE 1

SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

The Corporation of The County of Prince Edward County

81 Consecon Main Street, Consecon, Ontario

Samples			Parameters													
			SOIL SAMPLES									GROUNDWATER SAMPLES				
Borehole / Monitoring Well ID	Sample ID	Sample Depth Range (mbgs)	PHCs (F1-F4)	VOCs	PAHs	Metals	PFAS/PFOS	pH	Grain Size Analysis	TCLP	PHCs (F1-F4)	VOCs	PAHs	Metals	Rationale/Notes
MW101	S1	0.15-0.61				●		●							Assess soil and groundwater quality in relation to poor quality fill material and former bulk storage of fire retardant materials within the Site Building.
	S2	0.61-1.22	●	●	●										
	MW101	-									●	●	●	●	
BH102	S1	0.15-0.61				●									Assess soil quality in relation to poor quality fill material.
	S2	0.61-1.07	●	●	●										
BH103	S1	0.15-0.61	●	●	●	●									
BH104	AS1	0-0.61				●			●						
	S2	0.15-0.76	●	●	●			●							
BH105	AS1	0.15-0.61				●			●						Assess soil and/or groundwater quality in relation to former bulk storage of fire retardant materials within the Site Building and former automotive repair facility with associated structures (i.e., aboveground storage tanks) located adjacent to the south elevation of the Site.
	S2	0.15-0.61					●								
	S3	0.61-1.07	●	●	●										
MW106	S2	0.61-1.22	●	●	●	●									
	MW106	-													
TCLP	TCLP	Composite								●					Classify soil cuttings generated by borehole drilling for off-Site disposal.

Notes:

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

Pinchin File: 327928

TABLE 2
pH AND GRAIN SIZE ANALYSIS FOR SOIL
The Corportation of The County of Prince Edward County
81 Consecon Main Street, Consecon, Ontario

Parameter	***Units***	***MECP Site Condition Standard Selection Criteria***	***Sample Designation***			
			Sample Collection Date (dd/mm/yyyy)			
			Sample Depth (mbgs)			
			MW101-S1	*BH104-AS1*	*BH104-S2*	*BH105-AS1*
			13/09/2023	*13/09/2023*	*13/09/2023*	*13/09/2023*
			0.15-0.61	*0.15-0.61*	*0.15-0.76*	*0.15-0.61*
					Surface	
pH		Surface: 5 < pH < 9 Subsurface: 5 < pH < 11		-	6.90	-
Sieve #200 <0.075 mm	%	50%	-	54.20	-	45.20
Sieve #200 >0.075 mm	%	50%	-	45.80	-	54.80
		Grain Size Classification	-	Coarse	-	Fine

Notes:

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

TABLE 3
MONITORING WELL CONSTRUCTION DETAILS
The Corportation of The County of Prince Edward County
81 Consecon Main Street, Consecon, Ontario

Well Number	*Surveyed TOC Elevation (mREL)*	*Surveyed Ground Elevation (mREL)*	*Calculated Difference Between Ground and TOC (m)*	*Length of Screen (m)*
MW101	NM	NM	0.91	3.05
MW106	NM	NM	0.81	3.05

Notes:

mREL	Indicates Groundwater Elevation (metres) Relative to Site Benchmark with Assumed Elevation of 100.00 Metres
TOC	Indicates Top of Casing
NM	Not Measured
m	Metres

TABLE 4
GROUNDWATER ELEVATION DATA
The Corportation of The County of Prince Edward County
81 Consecon Main Street, Consecon, Ontario

Well Number	*Date (dd/mm/yyyy)*	*NAPL Level Measurement from TOC (m)*	*Water Level Measurement from TOC (m)*	*Water Level Measurement from Ground (mbgs)*	*Product Thickness (m)*	*Calculated Water Level Elevation (mREL)*
MW1	15/09/2023	NM	1.16	0.32	ND	NM
MW101	DRY	NM	0.00	0.00	ND	NM
MW106	DRY	NM	0.00	0.00	ND	NM

Notes:

mREL	Indicates Groundwater Elevation (metres) Relative To Site Benchmark with Assumed Elevation of 100.00 Metres
NAPL	Non-Aqueous Phase Liquid
ND	Not Detected
TOC	Indicates Top of Casing
m	Metres
mbgs	Metres Below Ground Surface

TABLE 5

PETROLEUM HYDROCARBON ANALYSIS FOR SOIL

The Corportation of The County of Prince Edward County

81 Consecon Main Street, Consecon, Ontario

Parameter	*MECP Table 6 Standards**	*Sample Designation*									
		Sample Collection Date (dd/mm/yyyy)									
		Sample Depth (mbgs)									
		MW101-S1	*MW101-S2*	*BH102-S1*	*BH102-S2*	*BH103-S1*	*BH104-AS1*	*BH104-S2*	*BH105-AS1*	*BH105-S3*	*MW106-S2*
		13/09/2023	*13/09/2023*	*13/09/2023*	*13/09/2023*	*13/09/2023*	*13/09/2023*	*13/09/2023*	*13/09/2023*	*13/09/2023*	*13/09/2023*
		0.15-0.61	*0.61-1.22*	*0.15-0.61*	*0.61-1.22*	*0.15-0.61*	*0.15-0.61*	*0.61-1.22*	*0.15-0.61*	*0.61-1.07*	*0.61-1.22*
Benzene	0.4	-	<0.02	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.02
Toluene	9	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
Ethylbenzene	1.6	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
Xylenes (Total)	30	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
Petroleum Hydrocarbons F1 (C_6 - C_{10})	65	-	<5	-	<5	<5	-	<5	-	<5	<5
Petroleum Hydrocarbons F2 (>C_{10} - C_{16})	250	-	<10	-	<10	<10	-	<10	-	<10	<10
Petroleum Hydrocarbons F3 (>C_{16} - C_{34})	2500	-	<50	-	<50	<50	-	<50	-	<50	115
Petroleum Hydrocarbons F4 (>C_{34} - C_{50})	6600	-	<50	-	<50	<50	-	<50	-	<50	<50

Notes:

MECP Table 6 Standards* Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 6 Standards, Medium/Fine-Textured Soils, Potable Groundwater Condition, for Industrial/Commercial/Community Property Use.

BOLD Exceeds Site Condition Standard

BOLD Reportable Detection Limit Exceeds Site Condition Standard

Units All Units in µg/g

mbgs Metres Below Ground Surface

BTEX Benzene, Toluene, Ethylbenzene and Xylenes

Pinchin File: 327928

TABLE 6
VOLATILE ORGANIC COMPOUND ANALYSIS FOR SOIL
The Corporation of The County of Prince Edward County
81 Consecon Main Street, Consecon, Ontario

Parameter	*MECP Table 6 Standards**	*Sample Designation*									
		Sample Collection Date (dd/mm/yyyy)									
		Sample Depth (mbgs)									
		MW101-S1	*MW101-S2*	*BH102-S1*	*BH102-S2*	*BH103-S1*	*BH104-AS1*	*BH104-S2*	*BH105-AS1*	*BH105-S3*	*MW106-S2*
		13/09/2023	*13/09/2023*	*13/09/2023*	*13/09/2023*	*13/09/2023*	*13/09/2023*	*13/09/2023*	*13/09/2023*	*13/09/2023*	*13/09/2023*
		0.15-0.61	*0.61-1.22*	*0.15-0.61*	*0.61-1.22*	*0.15-0.61*	*0.15-0.61*	*0.61-1.22*	*0.15-0.61*	*0.61-1.07*	*0.61-1.22*
Acetone	28	-	<0.50	-	<0.50	<0.50	-	<0.50	-	<0.50	<0.50
Benzene	0.4	-	<0.02	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.02
Bromodichloromethane	1.9	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
Bromoform	1.7	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
Bromomethane	0.05	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
Carbon Tetrachloride	0.71	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
Chlorobenzene	2.7	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
Chloroform	0.18	-	<0.04	-	<0.04	<0.04	-	<0.04	-	<0.04	<0.04
Dibromochloromethane	2.9	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
1,2-Dichlorobenzene	1.7	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
1,3-Dichlorobenzene	12	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
1,4-Dichlorobenzene	0.57	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
Dichlorodifluoromethane	25	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
1,1-Dichloroethane	0.6	-	<0.02	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.02
1,2-Dichloroethane	0.05	-	<0.03	-	<0.03	<0.03	-	<0.03	-	<0.03	<0.03
1,1-Dichloroethylene	0.48	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
cis-1,2-Dichloroethylene	2.5	-	<0.02	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.02
trans-1,2-Dichloroethylene	2.5	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
1,2-Dichloropropane	0.68	-	<0.03	-	<0.03	<0.03	-	<0.03	-	<0.03	<0.03
1,3-Dichloropropene (Total)	0.081	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
Ethylbenzene	1.6	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
Ethylene Dibromide	0.05	-	<0.04	-	<0.04	<0.04	-	<0.04	-	<0.04	<0.04
Hexane	88	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
Methyl Ethyl Ketone	88	-	<0.50	-	<0.50	<0.50	-	<0.50	-	<0.50	<0.50
Methyl Isobutyl Ketone	210	-	<0.50	-	<0.50	<0.50	-	<0.50	-	<0.50	<0.50
Methyl t-Butyl Ether (MTBE)	2.3	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
Methylene Chloride	2	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
Styrene	43	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
1,1,1,2-Tetrachloroethane	0.11	-	<0.04	-	<0.04	<0.04	-	<0.04	-	<0.04	<0.04
1,1,2,2-Tetrachloroethane	0.094	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
Tetrachloroethylene	2.5	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
Toluene	9	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
1,1,1-Trichloroethane	12	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
1,1,2-Trichloroethane	0.11	-	<0.04	-	<0.04	<0.04	-	<0.04	-	<0.04	<0.04
Trichloroethylene	0.61	-	<0.03	-	<0.03	<0.03	-	<0.03	-	<0.03	<0.03
Trichlorofluoromethane	5.8	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
Vinyl Chloride	0.25	-	<0.02	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.02
Xylenes (Total)	30	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05

Notes:

MECP Table 6 Standards* Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 6 Standards, Medium/Fine-Textured Soils, Potable Groundwater Condition, for Industrial/Commercial/Community Property Use.

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

Pinchin File: 327928

TABLE 7

POLYCYCLIC AROMATIC HYDROCARBON ANALYSIS FOR SOIL

The Corportation of The County of Prince Edward County

81 Consecon Main Street, Consecon, Ontario

Parameter	*MECP Table 6 Standards**	*Sample Designation*									
		Sample Collection Date (dd/mm/yyyy)									
		Sample Depth (mbgs)									
		MW101-S1	*MW101-S2*	*BH102-S1*	*BH102-S2*	*BH103-S1*	*BH104-AS1*	*BH104-S2*	*BH105-AS1*	*BH105-S3*	*MW106-S2*
		13/09/2023	*13/09/2023*	*13/09/2023*	*13/09/2023*	*13/09/2023*	*13/09/2023*	*13/09/2023*	*13/09/2023*	*13/09/2023*	*13/09/2023*
		0.15-0.61	*0.61-1.22*	*0.15-0.61*	*0.61-1.22*	*0.15-0.61*	*0.15-0.61*	*0.61-1.22*	*0.15-0.61*	*0.61-1.07*	*0.61-1.22*
Acenaphthene	29	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
Acenaphthylene	0.17	-	<0.05	-	<0.05	<0.05	-	0.12	-	<0.05	0.06
Anthracene	0.74	-	<0.05	-	<0.05	<0.05	-	0.16	-	<0.05	0.31
Benzo(a)anthracene	0.96	-	<0.05	-	<0.05	0.07	-	0.42	-	<0.05	0.6
Benzo(a)pyrene	0.3	-	<0.05	-	<0.05	0.06	-	**0.45**	-	<0.05	**0.59**
Benzo(b)fluoranthene	0.96	-	<0.05	-	<0.05	0.08	-	0.45	-	<0.05	0.57
Benzo(ghi)perylene	9.6	-	<0.05	-	<0.05	0.06	-	0.26	-	<0.05	0.34
Benzo(k)fluoranthene	0.96	-	<0.05	-	<0.05	0.06	-	0.3	-	<0.05	0.35
Chrysene	9.6	-	<0.05	-	<0.05	0.07	-	0.38	-	<0.05	0.46
Dibenzo(a,h)anthracene	0.1	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
Fluoranthene	9.6	-	<0.05	-	0.14	0.27	-	1.24	-	<0.05	1.67
Fluorene	69	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	0.12
Indeno(1,2,3-cd)pyrene	0.95	-	<0.05	-	<0.05	<0.05	-	0.22	-	<0.05	0.28
Methylnaphthalene 2-(1-)	42	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
Naphthalene	28	-	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05
Phenanthrene	16	-	<0.05	-	<0.05	0.09	-	0.63	-	<0.05	1.01
Pyrene	96	-	<0.05	-	0.1	0.21	-	0.97	-	<0.05	1.3

Notes:

MECP Table 6 Standards* Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 6 Standards, Medium/Fine-Textured Soils, Potable Groundwater Condition, for Industrial/Commercial/Community Property Use.

BOLD Exceeds Site Condition Standard

BOLD Reportable Detection Limit Exceeds Site Condition Standard

Units All Units in µg/g

mbgs Metres Below Ground Surface

TABLE 9

PERFLUORAKLKYL AND POLYFLUROALKYL SUBSTANCE ANALYSIS FOR SOIL

The Corportation of The County of Prince Edward County

81 Consecon Main Street, Consecon, Ontario

Parameter	CCME $SoQG_{HH}$	ECCC PFC FSQG	*MECP Table 6 Standards**	*Sample Designation* *Sample Collection Date (dd/mm/yyyy)* *Sample Depth (mbgs)*
				MW101-S1 *13/09/2023* *0.15-0.61*
Perfluorobutanoic acid (PFBA)	-	-	NV	<0.5
Perfluoropentanoic acid (PFPeA)	-	-	NV	<0.2
Perfluorohexanoic acid (PFHxA)	-	-	NV	0.1
Perfluoroheptanoic acid (PFHpA)	-	-	NV	<0.1
Perfluorooctanoic acid (PFOA)	-	-	NV	0.2
Perfluorononanoic acid (PFNA)	-	-	NV	<0.1
Perfluorodecanoic acid (PFDA)	-	-	NV	<0.1
Perfluoroundecanoic acid (PFUnA)	-	-	NV	<0.1
Perfluorododecanoic acid (PFDoA)	-	-	NV	<0.1
Perfluorotridecanoic acid (PFTrDA)	-	-	NV	<0.1
Perfluorotetradecanoic acid (PFTeDA)	-	-	NV	<0.1
Perfluorobutanesulfonic acid (PFBS)	-	-	NV	<0.1
Perfluorohexanesulfonic acid (PFHxS)	-	-	NV	<0.1
Perfluoroheptanesulfonic acid (PFHpS)	-	-	NV	<0.1
Perfluorooctanesulfonic acid (PFOS)	-	-	NV	0.5
Perfluorodecanesulfonic acid (PFDS)	-	-	NV	<0.1
Perfluorooctanesulfonamide (PFOSA)	-	-	NV	<0.1
N-methyl perfluorooctanesulfonamidoac. (NMeFOSAA)	-	-	NV	<0.1
N-ethyl perfluorooctanesulfonamidoac. (NEtFOSAA)	-	-	NV	<0.1

Notes:

MECP Table 6 Standards*: Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 6 Standards, Medium/Fine-Textured Soils, Potable Groundwater Condition, for Industrial/Commercial/Community Property Use.

CCME $SoQG_{HH}$: Canadian Council of Ministers of the Environment. Canadian Soil and Groundwater Quality Guidelines for the Protection of Environmental and Human Health, Perfluorooctane Sulfonate (PFOS), 2021, Protection of Potable Groundwater, Commercial Land Use.

ECCC PFC FSQG: Federal Environmental Quality Guidelines, Perfluorinated Chemicals (PFC) (including Perfluorooctane Sulfonate (PFOS)) for Use Under Canadian Environmental Protection Act, Environment and Climate Change Canada (ECCC), February 2017, Soil for Medium/Fine-Textured Soils and Commercial Property Use.

***: Where no PFAS compounds were detected, the total PFAS concentration was calculated as the square root of the sum of the squares of the RDLs.

BOLD: Exceeds Site Condition Standard

BOLD: Reportable Detection Limit Exceeds Site Condition Standard

Units: All Units in µk/kg

mbgs: Metres Below Ground Surface

NV: No Value

TABLE 8
METALS ANALYSIS FOR SOIL
The Corportation of The County of Prince Edward County
81 Consecon Main Street, Consecon, Ontario

Parameter	*MECP Table 6 Standards**	*Sample Designation*									
		Sample Collection Date (dd/mm/yyyy)									
		Sample Depth (mbgs)									
		MW101-S1	*MW101-S2*	*BH102-S1*	*BH102-S2*	*BH103-S1*	*BH104-AS1*	*BH104-S2*	*BH105-AS1*	*BH105-S3*	*MW106-S2*
		13/09/2023	*13/09/2023*	*13/09/2023*	*13/09/2023*	*13/09/2023*	*13/09/2023*	*13/09/2023*	*13/09/2023*	*13/09/2023*	*13/09/2023*
		0.15-0.61	*0.61-1.22*	*0.15-0.61*	*0.61-1.22*	*0.15-0.61*	*0.15-0.61*	*0.61-1.22*	*0.15-0.61*	*0.61-1.07*	*0.61-1.22*
Antimony	50	<0.8	-	<0.8	-	<0.8	<0.8	-	<0.8	-	4.6
Arsenic	18	14	-	6	-	6	5	-	**23**	-	13
Barium	670	74.8	-	50.9	-	51	121	-	144	-	**759**
Beryllium	10	0.6	-	0.6	-	0.6	0.6	-	0.8	-	0.6
Boron (Total)	120		-		-			-		-	
Boron (Hot Water Soluble)	2	0.45	-	0.27	-	0.3	0.6	-	1.18	-	1
Cadmium	1.9	<0.5	-	<0.5	-	<0.5	<0.5	-	0.8	-	**13.1**
Chromium (Total)	160	21	-	22	-	20	25	-	31	-	54
Chromium (Hexavalent)	10	<0.2	-	<0.2	-	<0.2	<0.2	-	<0.2	-	<0.2
Cobalt	100	6.1	-	5.9	-	5.6	6.7	-	8	-	22.3
Copper	300	15.5	-	8.2	-	7.8	19.7	-	29.6	-	143
Lead	120	82	-	44	-	51	120	-	**161**	-	**1350**
Mercury	20	0.14	-	0.13	-	0.11	0.31	-	0.3	-	0.16
Molybdenum	40	0.8	-	1	-	1	0.5	-	1.3	-	3
Nickel	340	13	-	13	-	13	13	-	17	-	31
Selenium	5.5	<0.8	-	<0.8	-	<0.8	<0.8	-	1	-	2.5
Silver	50	<0.5	-	<0.5	-	<0.5	<0.5	-	<0.5	-	<0.5
Thallium	3.3	<0.5	-	<0.5	-	<0.5	<0.5	-	<0.5	-	<0.5
Uranium	33	0.52	-	0.56	-	0.57	<0.50	-	0.6	-	<0.50
Vanadium	86	28.8	-	29.6	-	26.8	33.6	-	38.7	-	29.8
Zinc	340	157	-	89	-	80	157	-	**346**	-	**2580**

Notes:

MECP Table 6 Standards* — Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 6 Standards, Medium/Fine-Textured Soils, Potable Groundwater Condition, for Industrial/Commercial/Community Property Use.

BOLD	Exceeds Site Condition Standard
BOLD	Reportable Detection Limit Exceeds Site Condition Standard
Units	All Units in µg/g
mbgs	Metres Below Ground Surface
NA	Not Applicable

Pinchin File: 327928

TABLE 10
TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP) ANALYSIS FOR SOIL
The Corportation of The County of Prince Edward County
81 Consecon Main Street, Consecon, Ontario

Parameter	*Schedule 4 ++*	*Sample Designation*
		Sample Collection Date (dd/mm/yyyy)
		TCLP
		13/09/2023
METALS		
Arsenic	2.5	0.028
Barium	100	0.306
Boron	500	0.105
Cadmium	0.5	<0.010
Chromium	5	<0.050
Lead	5	0.014
Mercury	0.1	<0.01
Selenium	1	<0.020
Silver	5	<0.010
Uranium	10	<0.050
VOLATILE ORGANIC COMPOUNDS		
Benzene	0.5	<0.020
Carbon Tetrachloride	0.5	<0.020
Chlorobenzene	8	<0.010
Chloroform	10	<0.020
1,2-Dichlorobenzene	20	<0.010
1,4-Dichlorobenzene	0.5	<0.010
1,2-Dichloroethane	0.5	<0.020
1,1-Dichloroethylene	1.4	<0.020
Dichloromethane	5	<0.030
Methyl Ethyl Ketone	200	<0.090
Tetrachloroethylene	3	<0.050
Trichloroethylene	5	<0.020
Vinyl Chloride	0.2	<0.030
INORGANICS		
Fluoride	150	0.1
Free Cyanide	20	<0.05
Nitrite and Nitrate	1000	<0.70
POLYCHLORINATED BIPHENYLS		
Total PCBs	0.3	<0.005
SEMI-VOLATILE		
Benzo(a)pyrene	0.001	<0.001

Notes:

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

BOLD Exceeds Schedule 4 Criteria

Units All Values Reported in Units of mg/L.

Pinchin File: 327928

TABLE 11
PETROLEUM HYDROCARBON ANALYSIS FOR GROUNDWATER
The Corportation of The County of Prince Edward County
81 Consecon Main Street, Consecon, Ontario

Parameter	*MECP Table 6 Standards**	*Sample Designation*
		Sample Collection Date (dd/mm/yyyy)
		MW1
		29/09/2023
Benzene	0.5	<0.40
Toluene	24	<0.40
Ethylbenzene	2.4	<0.20
Xylenes (Total)	72	<0.20
Petroleum Hydrocarbons F1 (C_6 - C_{10})	420	<50
Petroleum Hydrocarbons F2 (>C_{10} - C_{16})	150	<100
Petroleum Hydrocarbons F3 (>C_{16} - C_{34})	500	<100
Petroleum Hydrocarbons F4 (>C_{34} - C_{50})	500	<100

Notes:

MECP Table 6 Standards*	Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 6 Standards, Medium/Fine-Textured Soils, Potable Groundwater Condition, for All Types of Property Use.
BOLD	Exceeds Site Condition Standard
BOLD	Reportable Detection Limit Exceeds Site Condition Standard
Units	All Units in µg/L
BTEX	Benzene, Toluene, Ethylbenzene and Xylenes

Pinchin File: 327928

TABLE 12
VOLATILE ORGANIC COMPOUND ANALYSIS FOR GROUNDWATER
The Corportation of The County of Prince Edward County
81 Consecon Main Street, Consecon, Ontario

Parameter	*MECP Table 6 Standards**	*Sample Designation*	
		Sample Collection Date (dd/mm/yyyy)	
		MW1	
		29/09/2023	
Acetone	2700	<2.0	
Benzene	0.5	<0.40	
Bromodichloromethane	16	<0.40	
Bromoform	5	<0.20	
Bromomethane	0.89	<0.40	
Carbon Tetrachloride	0.2	**<0.40**	
Chlorobenzene	30	<0.20	
Chloroform	2	<0.40	
Dibromochloromethane	25	<0.20	
1,2-Dichlorobenzene	3	<0.20	
1,3-Dichlorobenzene	59	<0.20	
1,4-Dichlorobenzene	0.5	<0.20	
Dichlorodifluoromethane	590	<0.80	
1,1-Dichloroethane	5	<0.60	
1,2-Dichloroethane	0.5	<0.40	
1,1-Dichloroethylene	0.5	**<0.60**	
cis-1,2-Dichloroethylene	1.6	<0.40	
trans-1,2-Dichloroethylene	1.6	<0.40	
1,2-Dichloropropane	0.58	<0.40	
Ethylbenzene	2.4	<0.20	
Ethylene Dibromide	0.2	<0.20	
Hexane	5	<0.40	
Methyl Ethyl Ketone	1800	<2.0	
Methyl Isobutyl Ketone	640	<2.0	
Methyl t-Butyl Ether (MTBE)	15	<0.40	
Methylene Chloride	26	<0.60	
Styrene	5.4	<0.20	
1,1,1,2-Tetrachloroethane	1.1	<0.20	
1,1,2,2-Tetrachloroethane	0.5	<0.20	
Tetrachloroethylene	0.5	<0.40	
Toluene	24	<0.40	
1,1,1-Trichloroethane	23	<0.60	
1,1,2-Trichloroethane	0.5	<0.40	
Trichloroethylene	0.5	<0.40	
Trichlorofluoromethane	150	<0.80	
Vinyl Chloride	0.5	<0.34	
Xylenes (Total)	72	<0.20	

Notes:

MECP Table 6 Standards* — Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 6 Standards, Medium/Fine-Textured Soils, Potable Groundwater Condition, for All Types of Property Use.

BOLD — Exceeds Site Condition Standard

BOLD — Reportable Detection Limit Exceeds Site Condition Standard

Units — All Units in µg/L

Pinchin File: 327928

TABLE 13
POLYCYCLIC AROMATIC HYDROCARBON ANALYSIS FOR GROUNDWATER
The Corportation of The County of Prince Edward County
81 Consecon Main Street, Consecon, Ontario

Parameter	*MECP Table 6 Standards**	*Sample Designation*
		Sample Collection Date (dd/mm/yyyy)
		MW1
		29/09/2023
Acenaphthene	4.1	<0.20
Acenaphthylene	1	<0.20
Anthracene	1	<0.10
Benzo(a)anthracene	1	<0.20
Benzo(a)pyrene	0.01	<0.01
Benzo(b)fluoranthene	0.1	<0.10
Benzo(ghi)perylene	0.2	<0.20
Benzo(k)fluoranthene	0.1	<0.10
Chrysene	0.1	<0.10
Dibenzo(a,h)anthracene	0.2	<0.20
Fluoranthene	0.41	<0.20
Fluorene	120	<0.20
Indeno(1,2,3-cd)pyrene	0.2	<0.20
Methylnaphthalene 2-(1-)	3.2	<0.20
Naphthalene	7	<0.20
Phenanthrene	1	<0.10
Pyrene	4.1	<0.20

Notes:

MECP Table 6 Standards* — Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 6 Standards, Medium/Fine-Textured Soils, Potable Groundwater Condition, for All Types of Property Use.

BOLD — Exceeds Site Condition Standard

BOLD — Reportable Detection Limit Exceeds Site Condition Standard

Units — All Units in µg/L

Pinchin File: 327928

TABLE 14
METALS ANALYSIS FOR GROUNDWATER
The Corportation of The County of Prince Edward County
81 Consecon Main Street, Consecon, Ontario

Parameter	*MECP Table 6 Standards**	*Sample Designation*	
		Sample Collection Date (dd/mm/yyyy)	
		MW1	*MW1*
		29/09/2023	*27/10/2023*
Antimony	6	2.1	<1.0
Arsenic	25	4.6	10.8
Barium	1000	**2070**	**2850**
Beryllium	4	<0.50	<0.50
Boron	5000	930	718
Cadmium	2.1	<0.20	<0.20
Chromium (Total)	50	<2.0	<2.0
Chromium (VI)	25	-	-
Cobalt	3.8	1.37	0.88
Copper	69	1.1	<1.0
Lead	10	<0.50	<0.50
Mercury	0.1	-	-
Molybdenum	70	**86.8**	**85.1**
Nickel	100	4.1	3.6
Selenium	10	**10.8**	**10.6**
Silver	1.2	<0.20	<0.20
Sodium	490000	-	-
Thallium	2	<0.30	<0.30
Uranium	20	**36.4**	**28.9**
Vanadium	6.2	3.17	1.69
Zinc	890	6.7	<5.0

Notes:

MECP Table 6 Standards* — Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011, Table 6 Standards, Medium/Fine-Textured Soils, Potable Groundwater Condition, for All Types of

BOLD — Exceeds Site Condition Standard

BOLD — Reportable Detection Limit Exceeds Site Condition Standard

Units — All Units in µg/L

Pinchin File: 327928

APPENDIX IV

Laboratory Certificates of Analysis

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

CLIENT NAME: PINCHIN LTD.
1456 Centennial Drive, Unit 2
KINGSTON, ON K7P 0K4
(613) 541-1013
ATTENTION TO: Jeanette McCann
PROJECT: 327928
AGAT WORK ORDER: 23P068861
SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganics Report Writer
TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist
DATE REPORTED: Sep 20, 2023
PAGES (INCLUDING COVER): 48
VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
- *AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.*
- *This Certificate shall not be reproduced except in full, without the written approval of the laboratory.*
- *The test results reported herewith relate only to the samples as received by the laboratory.*
- *Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.*
- *All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.*
- *For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.*

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2023-09-14

DATE REPORTED: 2023-09-20

SAMPLE DESCRIPTION:				MW101-S1	BH 102-S1	BH 103-S1	BH 104-AS1	BH 105-AS1		MW 106-S2
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil		Soil
DATE SAMPLED:				2023-09-13	2023-09-13	2023-09-13	2023-09-13	2023-09-13		2023-09-13
Parameter	Unit	G / S	RDL	5290357	5290376	5290381	5290458	5290464	RDL	5290468
Antimony	µg/g		0.8	<0.8	<0.8	<0.8	<0.8	<0.8	0.8	4.6
Arsenic	µg/g		1	14	6	6	5	23	1	13
Barium	µg/g		2.0	74.8	50.9	51.0	121	144	2.0	759
Beryllium	µg/g		0.5	0.6	0.6	0.6	0.6	0.8	0.5	0.6
Boron	µg/g		5	10	11	13	14	15	5	15
Boron (Hot Water Soluble)	µg/g		0.10	0.45	0.27	0.30	0.60	1.18	0.10	1.00
Cadmium	µg/g		0.5	<0.5	<0.5	<0.5	<0.5	0.8	0.5	13.1
Chromium	µg/g		5	21	22	20	25	31	5	54
Cobalt	µg/g		0.8	6.1	5.9	5.6	6.7	8.0	0.8	22.3
Copper	µg/g		1.0	15.5	8.2	7.8	19.7	29.6	1.0	143
Lead	µg/g		1	82	44	51	120	161	1	1350
Molybdenum	µg/g		0.5	0.8	1.0	1.0	0.5	1.3	0.5	3.0
Nickel	µg/g		1	13	13	13	13	17	1	31
Selenium	µg/g		0.8	<0.8	<0.8	<0.8	<0.8	1.0	0.8	2.5
Silver	µg/g		0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5
Thallium	µg/g		0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5
Uranium	µg/g		0.50	0.52	0.56	0.57	<0.50	0.60	0.50	<0.50
Vanadium	µg/g		2.0	28.8	29.6	26.8	33.6	38.7	2.0	29.8
Zinc	µg/g		5	157	89	80	157	346	50	2580
Chromium, Hexavalent	µg/g		0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2
Cyanide, WAD	µg/g		0.040	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	<0.040
Mercury	µg/g		0.10	0.14	0.13	0.11	0.31	0.30	0.10	0.16
Electrical Conductivity (2:1)	mS/cm		0.005	0.231	0.165	0.212	0.191	0.278	0.005	0.219
Sodium Adsorption Ratio (2:1) (Calc.)	N/A		N/A	0.070	0.092	0.092	0.050	0.076	N/A	0.111
pH, 2:1 CaCl2 Extraction	pH Units		NA	6.75	6.81	6.86	6.86	6.81	NA	6.80

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2023-09-14

DATE REPORTED: 2023-09-20

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

5290357-5290464 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.

5290468 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio. SAR is a calculated parameter.

Dilution required, RDL has been increased accordingly.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - ORPs (Soil)

DATE RECEIVED: 2023-09-14

DATE REPORTED: 2023-09-20

		SAMPLE DESCRIPTION:		BH 104-S2
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2023-09-13
Parameter	**Unit**	**G / S**	**RDL**	**5290461**
pH, 2:1 CaCl2 Extraction	pH Units		NA	6.90

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

5290461 pH was determined on the 0.01M CaCl2 extract obtained from 2:1 leaching procedure (2 parts extraction fluid:1 part wet soil).

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

O. Reg. 558 - Metals & Inorganics

DATE RECEIVED: 2023-09-14

DATE REPORTED: 2023-09-20

		SAMPLE DESCRIPTION:		TCLP
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2023-09-13
Parameter	Unit	G / S	RDL	5290469
Arsenic Leachate	mg/L	2.5	0.010	0.028
Barium Leachate	mg/L	100	0.020	0.306
Boron Leachate	mg/L	500	0.050	0.105
Cadmium Leachate	mg/L	0.5	0.010	<0.010
Chromium Leachate	mg/L	5	0.050	<0.050
Lead Leachate	mg/L	5	0.010	0.014
Mercury Leachate	mg/L	0.1	0.01	<0.01
Selenium Leachate	mg/L	1	0.020	<0.020
Silver Leachate	mg/L	5	0.010	<0.010
Uranium Leachate	mg/L	10	0.050	<0.050
Fluoride Leachate	mg/L	150	0.10	0.10
Cyanide Leachate	mg/L	20	0.05	<0.05
(Nitrate + Nitrite) as N Leachate	mg/L	1000	0.70	<0.70

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to O. Reg. 558 - Schedule IV Leachate Quality Criteria
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

Particle Size by Sieve (Wet)

DATE RECEIVED: 2023-09-14

DATE REPORTED: 2023-09-20

		SAMPLE DESCRIPTION:		BH 104-AS1	BH 105-AS1
		SAMPLE TYPE:		Soil	Soil
		DATE SAMPLED:		2023-09-13	2023-09-13
Parameter	Unit	G / S	RDL	5290458	5290464
Sieve Analysis - 75 µm (retained)	%		NA	54.20	45.20
Sieve Analysis - 75 µm (passing)	%		NA	45.80	54.80
Soil Texture (Toronto)				Coarse	Fine

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

5290458-5290464 Value reported is the amount of sample passing through or retained on sieve after wash with water and represents proportion by weight particles smaller or larger than indicated sieve size.
Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2023-09-14

DATE REPORTED: 2023-09-20

		SAMPLE DESCRIPTION:		MW101-S2	BH 102-S2	BH 103-S1	BH 104-S2	BH 105-S3	MW 106-S2
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2023-09-13	2023-09-13	2023-09-13	2023-09-13	2023-09-13	2023-09-13
Parameter	**Unit**	**G / S**	**RDL**	**5290372**	**5290379**	**5290381**	**5290461**	**5290466**	**5290468**
Naphthalene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g		0.05	<0.05	<0.05	<0.05	0.12	<0.05	0.06
Acenaphthene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g		0.05	<0.05	<0.05	<0.05	0.05	<0.05	0.12
Phenanthrene	µg/g		0.05	<0.05	<0.05	0.09	0.63	<0.05	1.01
Anthracene	µg/g		0.05	<0.05	<0.05	<0.05	0.16	<0.05	0.31
Fluoranthene	µg/g		0.05	<0.05	0.14	0.27	1.24	<0.05	1.67
Pyrene	µg/g		0.05	<0.05	0.10	0.21	0.97	<0.05	1.30
Benz(a)anthracene	µg/g		0.05	<0.05	<0.05	0.07	0.42	<0.05	0.60
Chrysene	µg/g		0.05	<0.05	<0.05	0.07	0.38	<0.05	0.46
Benzo(b)fluoranthene	µg/g		0.05	<0.05	<0.05	0.08	0.45	<0.05	0.57
Benzo(k)fluoranthene	µg/g		0.05	<0.05	<0.05	0.06	0.30	<0.05	0.35
Benzo(a)pyrene	µg/g		0.05	<0.05	<0.05	0.06	0.45	<0.05	0.59
Indeno(1,2,3-cd)pyrene	µg/g		0.05	<0.05	<0.05	<0.05	0.22	<0.05	0.28
Dibenz(a,h)anthracene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g		0.05	<0.05	<0.05	0.06	0.26	<0.05	0.34
1 and 2 Methlynaphthalene	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	14.1	19.1	5.5	13.8	13.3	14.2
Surrogate	**Unit**	**Acceptable Limits**							
Naphthalene-d8	%	50-140		75	70	80	85	70	90
Acridine-d9	%	50-140		85	75	110	75	95	75
Terphenyl-d14	%	50-140		95	95	80	80	100	70

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

5290372-5290468 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)

DATE RECEIVED: 2023-09-14 **DATE REPORTED: 2023-09-20**

		SAMPLE DESCRIPTION:		MW101-S2	BH 102-S2	BH 103-S1	BH 104-S2	BH 105-S3	MW 106-S2
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2023-09-13	2023-09-13	2023-09-13	2023-09-13	2023-09-13	2023-09-13
Parameter	**Unit**	**G / S**	**RDL**	**5290372**	**5290379**	**5290381**	**5290461**	**5290466**	**5290468**
F1 (C6 - C10)	µg/g		5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g		5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g		10	<10	<10	<10	<10	<10	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g		50	<50	<50	<50	<50	<50	115
F3 (C16 to C34) minus PAHs	µg/g		50	<50	<50	<50	<50	<50	109
F4 (C34 to C50)	µg/g		50	<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g		50	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	14.1	19.1	5.5	13.8	13.3	14.2
Surrogate	**Unit**	**Acceptable Limits**							
Toluene-d8	%	50-140		114	117	116	118	117	116
Terphenyl	%	60-140		75	77	72	86	75	98

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

5290372-5290468 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (with PHC) (Soil)

DATE RECEIVED: 2023-09-14

DATE REPORTED: 2023-09-20

		SAMPLE DESCRIPTION:		MW101-S2	BH 102-S2	BH 103-S1	BH 104-S2	BH 105-S3	MW 106-S2
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2023-09-13	2023-09-13	2023-09-13	2023-09-13	2023-09-13	2023-09-13
Parameter	Unit	G / S	RDL	5290372	5290379	5290381	5290461	5290466	5290468
Dichlorodifluoromethane	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g		0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g		0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g		0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g		0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g		0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g		0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g		0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g		0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g		0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g		0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g		0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Certified By: N Popowich

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Certificate of Analysis

AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (with PHC) (Soil)

DATE RECEIVED: 2023-09-14

DATE REPORTED: 2023-09-20

		SAMPLE DESCRIPTION:		MW101-S2	BH 102-S2	BH 103-S1	BH 104-S2	BH 105-S3	MW 106-S2
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		2023-09-13	2023-09-13	2023-09-13	2023-09-13	2023-09-13	2023-09-13
Parameter	**Unit**	**G / S**	**RDL**	**5290372**	**5290379**	**5290381**	**5290461**	**5290466**	**5290468**
Bromoform	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
n-Hexane	µg/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	14.1	19.1	5.5	13.8	13.3	14.2
Surrogate	**Unit**	**Acceptable Limits**							
Toluene-d8	% Recovery	50-140		114	117	116	118	117	116
4-Bromofluorobenzene	% Recovery	50-140		95	96	97	99	98	94

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

5290372-5290468 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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Certificate of Analysis

AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

O. Reg. 558 - Benzo(a) pyrene

DATE RECEIVED: 2023-09-14

DATE REPORTED: 2023-09-20

		SAMPLE DESCRIPTION:		TCLP
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2023-09-13
Parameter	**Unit**	**G / S**	**RDL**	**5290469**
Benzo(a)pyrene Leachate	mg/L	0.001	0.001	<0.001
Surrogate	**Unit**	**Acceptable Limits**		
Acridine-d9	%	50-140		71
Naphthalene-d8	%	50-140		75
Terphenyl-d14	%	50-140		65

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to O. Reg. 558 - Schedule IV Leachate Quality Criteria
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

5290469 The sample was leached according to Regulation 558 protocol. Analysis was performed on the leachate.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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Certificate of Analysis

AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

O. Reg. 558 - PCBs

DATE RECEIVED: 2023-09-14

DATE REPORTED: 2023-09-20

		SAMPLE DESCRIPTION:		TCLP
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2023-09-13
Parameter	**Unit**	**G / S**	**RDL**	**5290469**
PCB's Leachate	mg/L	0.3	0.005	<0.005
Surrogate	**Unit**	**Acceptable Limits**		
Decachlorobiphenyl	%	50-140		87

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to O. Reg. 558 - Schedule IV Leachate Quality Criteria
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

5290469 The soil sample was leached using the Regulation 558 procedure. Analysis was performed on the leachate.
PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.

Analysis performed at AGAT Toronto (unless marked by *)

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Certificate of Analysis

AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

O. Reg. 558 - SVOCs

DATE RECEIVED: 2023-09-14

DATE REPORTED: 2023-09-20

		SAMPLE DESCRIPTION:		TCLP
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2023-09-13
Parameter	**Unit**	**G / S**	**RDL**	**5290469**
Pyridine Leachate	mg/L	5.0	0.010	<0.010
Cresols Leachate	mg/L	200	0.012	<0.012
o-Cresol Leachate	mg/L		0.004	<0.004
Meta & Para-Cresol Leachate	mg/L	200	0.008	<0.008
Hexachloroethane Leachate	mg/L	3	0.004	<0.004
Nitrobenzene Leachate	mg/L	2.0	0.004	<0.004
Hexachlorobutadiene Leachate	mg/L	0.5	0.004	<0.004
2,4,6-Trichlorophenol Leachate	mg/L	0.5	0.05	<0.05
2,4,5-Trichlorophenol Leachate	mg/L	400	0.004	<0.004
2,4-Dinitrotoluene Leachate	mg/L	0.13	0.004	<0.004
2,3,4,6-Tetrachlorophenol Leachate	mg/L	10	0.004	<0.004
Hexachlorobenzene Leachate	mg/L	0.13	0.004	<0.004
Dinoseb Leachate	mg/L	1	0.004	<0.004
Benzo(a)pyrene Leachate	mg/L	0.001	0.001	<0.001
Pentachlorophenol Leachate	mg/L	6	0.006	<0.006
Surrogate	**Unit**	**Acceptable Limits**		
2-Fluorophenol	%	50-140		98
Phenol-d6	%	50-140		99
2,4,6-Tribromophenol	%	50-140		87
Chrysene-d12	%	50-140		99

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to O. Reg. 558 - Schedule IV Leachate Quality Criteria
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

5290469 The sample was leached according to Regulation 558 protocol. Analysis was performed on the leachate.
Cresols total is a calculated parameter. The calculated value is the sum o-Cresol and m&p-Cresol.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: NPopowich

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Certificate of Analysis

AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

O. Reg. 558 - VOCs

DATE RECEIVED: 2023-09-14

DATE REPORTED: 2023-09-20

		SAMPLE DESCRIPTION:		TCLP
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2023-09-13
Parameter	**Unit**	**G / S**	**RDL**	**5290469**
Vinyl Chloride Leachate	mg/L	0.2	0.030	<0.030
1,1 Dichloroethene Leachate	mg/L	1.4	0.020	<0.020
Dichloromethane Leachate	mg/L	5.0	0.030	<0.030
Methyl Ethyl Ketone Leachate	mg/L	200	0.090	<0.090
Chloroform Leachate	mg/L	10.0	0.020	<0.020
1,2-Dichloroethane Leachate	mg/L	0.5	0.020	<0.020
Carbon Tetrachloride Leachate	mg/L	0.5	0.020	<0.020
Benzene Leachate	mg/L	0.5	0.020	<0.020
Trichloroethene Leachate	mg/L	5.0	0.020	<0.020
Tetrachloroethene Leachate	mg/L	3.0	0.050	<0.050
Chlorobenzene Leachate	mg/L	8.0	0.010	<0.010
1,2-Dichlorobenzene Leachate	mg/L	20.0	0.010	<0.010
1,4-Dichlorobenzene Leachate	mg/L	0.5	0.010	<0.010
Surrogate	**Unit**	**Acceptable Limits**		
Toluene-d8	% Recovery	50-140		102
4-Bromofluorobenzene	% Recovery	50-140		80

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to O. Reg. 558 - Schedule IV Leachate Quality Criteria
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

5290469 Sample was prepared using Regulation 558 protocol and a zero headspace extractor.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

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Quality Assurance

CLIENT NAME: PINCHIN LTD.
AGAT WORK ORDER: 23P068861
PROJECT: 327928
ATTENTION TO: Jeanette McCann
SAMPLING SITE:
SAMPLED BY:

Soil Analysis

RPT Date: Sep 20, 2023			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	5290698		<0.8	<0.8	NA	< 0.8	125%	70%	130%	103%	80%	120%	94%	70%	130%
Arsenic	5290698		6	6	4.8%	< 1	118%	70%	130%	105%	80%	120%	123%	70%	130%
Barium	5290698		46.9	50.3	7.0%	< 2.0	109%	70%	130%	100%	80%	120%	115%	70%	130%
Beryllium	5290698		0.5	0.6	NA	< 0.5	115%	70%	130%	102%	80%	120%	109%	70%	130%
Boron	5290698		7	9	NA	< 5	96%	70%	130%	102%	80%	120%	97%	70%	130%
Boron (Hot Water Soluble)	5295581		0.34	0.36	NA	< 0.10	115%	60%	140%	105%	70%	130%	105%	60%	140%
Cadmium	5290698		0.5	0.6	NA	< 0.5	126%	70%	130%	109%	80%	120%	120%	70%	130%
Chromium	5290698		16	17	NA	< 5	109%	70%	130%	107%	80%	120%	122%	70%	130%
Cobalt	5290698		7.1	7.4	4.7%	< 0.8	111%	70%	130%	104%	80%	120%	114%	70%	130%
Copper	5290698		22.7	23.7	4.1%	< 1.0	97%	70%	130%	104%	80%	120%	106%	70%	130%
Lead	5290698		35	37	4.7%	< 1	121%	70%	130%	92%	80%	120%	106%	70%	130%
Molybdenum	5290698		0.5	0.6	NA	< 0.5	126%	70%	130%	111%	80%	120%	125%	70%	130%
Nickel	5290698		14	15	4.4%	< 1	110%	70%	130%	104%	80%	120%	112%	70%	130%
Selenium	5290698		<0.8	<0.8	NA	< 0.8	133%	70%	130%	106%	80%	120%	121%	70%	130%
Silver	5290698		<0.5	<0.5	NA	< 0.5	113%	70%	130%	115%	80%	120%	112%	70%	130%
Thallium	5290698		<0.5	<0.5	NA	< 0.5	118%	70%	130%	119%	80%	120%	119%	70%	130%
Uranium	5290698		0.56	0.57	NA	< 0.50	110%	70%	130%	87%	80%	120%	103%	70%	130%
Vanadium	5290698		28.0	30.2	7.5%	< 2.0	121%	70%	130%	107%	80%	120%	123%	70%	130%
Zinc	5290698		213	224	5.3%	< 5	113%	70%	130%	112%	80%	120%	122%	70%	130%
Chromium, Hexavalent	5288076		<0.2	<0.2	NA	< 0.2	101%	70%	130%	100%	80%	120%	84%	70%	130%
Cyanide, WAD	5288076		<0.040	<0.040	NA	< 0.040	104%	70%	130%	98%	80%	120%	85%	70%	130%
Mercury	5290698		<0.10	<0.10	NA	< 0.10	124%	70%	130%	90%	80%	120%	106%	70%	130%
Electrical Conductivity (2:1)	5288076		0.301	0.273	9.8%	< 0.005	93%	80%	120%						
Sodium Adsorption Ratio (2:1) (Calc.)	5288076		1.39	1.35	2.8%	NA									
pH, 2:1 CaCl2 Extraction	5288076		6.29	6.50	3.2%	NA	100%	80%	120%						

Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.
Duplicate NA: results are under 5X the RDL and will not be calculated.

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

Particle Size by Sieve (Wet)									
Sieve Analysis - 75 µm (retained)	5279182	34.32	35.42	3.2%	NA	99%	75%	125%	
Sieve Analysis - 75 µm (passing)	5279182	65.68	64.58	1.7%	NA				

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

O. Reg. 153(511) - ORPs (Soil)									
pH, 2:1 CaCl2 Extraction	5288076	6.29	6.50	3.2%	NA	100%	80%	120%	

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Quality Assurance

CLIENT NAME: PINCHIN LTD.
AGAT WORK ORDER: 23P068861
PROJECT: 327928
ATTENTION TO: Jeanette McCann
SAMPLING SITE:
SAMPLED BY:

Soil Analysis (Continued)

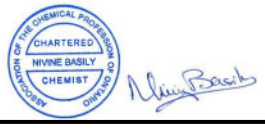
RPT Date: Sep 20, 2023			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 558 - Metals & Inorganics															
Arsenic Leachate	5283012		<0.010	<0.010	NA	< 0.010	96%	70%	130%	107%	80%	120%	126%	70%	130%
Barium Leachate	5283012		0.596	0.587	1.4%	< 0.020	101%	70%	130%	109%	80%	120%	105%	70%	130%
Boron Leachate	5283012		0.080	0.084	NA	< 0.050	100%	70%	130%	116%	80%	120%	124%	70%	130%
Cadmium Leachate	5283012		<0.010	<0.010	NA	< 0.010	99%	70%	130%	117%	80%	120%	113%	70%	130%
Chromium Leachate	5283012		<0.050	<0.050	NA	< 0.050	100%	70%	130%	118%	80%	120%	117%	70%	130%
Lead Leachate	5283012		0.275	0.284	3.2%	< 0.010	95%	70%	130%	108%	80%	120%	98%	70%	130%
Mercury Leachate	5283012		<0.01	<0.01	NA	< 0.01	105%	70%	130%	109%	80%	120%	109%	70%	130%
Selenium Leachate	5283012		<0.020	<0.020	NA	< 0.020	102%	70%	130%	115%	80%	120%	128%	70%	130%
Silver Leachate	5283012		<0.010	<0.010	NA	< 0.010	99%	70%	130%	118%	80%	120%	115%	70%	130%
Uranium Leachate	5283012		<0.050	<0.050	NA	< 0.050	99%	70%	130%	112%	80%	120%	109%	70%	130%
Fluoride Leachate	5283012		0.17	0.18	NA	< 0.10	103%	90%	110%	106%	90%	110%	97%	70%	130%
Cyanide Leachate	5283012		<0.05	<0.05	NA	< 0.05	104%	70%	130%	98%	80%	120%	92%	70%	130%
(Nitrate + Nitrite) as N Leachate	5283012		1.51	1.52	NA	< 0.70	97%	80%	120%	91%	80%	120%	97%	70%	130%

Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.

Duplicate NA: results are under 5X the RDL and will not be calculated.

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Certified By:



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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 23P068861

PROJECT: 327928

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

RPT Date: Sep 20, 2023			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)															
F1 (C6 - C10)	5289917		<5	<5	NA	< 5	133%	60%	140%	127%	60%	140%	92%	60%	140%
F2 (C10 to C16)	5291072		< 10	< 10	NA	< 10	120%	60%	140%	100%	60%	140%	102%	60%	140%
F3 (C16 to C34)	5291072		< 50	< 50	NA	< 50	113%	60%	140%	96%	60%	140%	103%	60%	140%
F4 (C34 to C50)	5291072		< 50	< 50	NA	< 50	83%	60%	140%	70%	60%	140%	108%	60%	140%
O. Reg. 153(511) - VOCs (with PHC) (Soil)															
Dichlorodifluoromethane	5289917		<0.05	<0.05	NA	< 0.05	97%	50%	140%	113%	50%	140%	93%	50%	140%
Vinyl Chloride	5289917		<0.02	<0.02	NA	< 0.02	110%	50%	140%	101%	50%	140%	100%	50%	140%
Bromomethane	5289917		<0.05	<0.05	NA	< 0.05	88%	50%	140%	80%	50%	140%	83%	50%	140%
Trichlorofluoromethane	5289917		<0.05	<0.05	NA	< 0.05	104%	50%	140%	98%	50%	140%	96%	50%	140%
Acetone	5289917		<0.50	<0.50	NA	< 0.50	83%	50%	140%	96%	50%	140%	78%	50%	140%
1,1-Dichloroethylene	5289917		<0.05	<0.05	NA	< 0.05	82%	50%	140%	81%	60%	130%	97%	50%	140%
Methylene Chloride	5289917		<0.05	<0.05	NA	< 0.05	86%	50%	140%	84%	60%	130%	92%	50%	140%
Trans- 1,2-Dichloroethylene	5289917		<0.05	<0.05	NA	< 0.05	74%	50%	140%	80%	60%	130%	85%	50%	140%
Methyl tert-butyl Ether	5289917		<0.05	<0.05	NA	< 0.05	99%	50%	140%	93%	60%	130%	86%	50%	140%
1,1-Dichloroethane	5289917		<0.02	<0.02	NA	< 0.02	72%	50%	140%	81%	60%	130%	103%	50%	140%
Methyl Ethyl Ketone	5289917		<0.50	<0.50	NA	< 0.50	81%	50%	140%	86%	50%	140%	82%	50%	140%
Cis- 1,2-Dichloroethylene	5289917		<0.02	<0.02	NA	< 0.02	83%	50%	140%	87%	60%	130%	72%	50%	140%
Chloroform	5289917		<0.04	<0.04	NA	< 0.04	79%	50%	140%	89%	60%	130%	72%	50%	140%
1,2-Dichloroethane	5289917		<0.03	<0.03	NA	< 0.03	94%	50%	140%	77%	60%	130%	88%	50%	140%
1,1,1-Trichloroethane	5289917		<0.05	<0.05	NA	< 0.05	73%	50%	140%	87%	60%	130%	105%	50%	140%
Carbon Tetrachloride	5289917		<0.05	<0.05	NA	< 0.05	86%	50%	140%	98%	60%	130%	90%	50%	140%
Benzene	5289917		<0.02	<0.02	NA	< 0.02	73%	50%	140%	78%	60%	130%	101%	50%	140%
1,2-Dichloropropane	5289917		<0.03	<0.03	NA	< 0.03	91%	50%	140%	71%	60%	130%	88%	50%	140%
Trichloroethylene	5289917		<0.03	<0.03	NA	< 0.03	86%	50%	140%	102%	60%	130%	107%	50%	140%
Bromodichloromethane	5289917		<0.05	<0.05	NA	< 0.05	76%	50%	140%	78%	60%	130%	102%	50%	140%
Methyl Isobutyl Ketone	5289917		<0.50	<0.50	NA	< 0.50	78%	50%	140%	89%	50%	140%	110%	50%	140%
1,1,2-Trichloroethane	5289917		<0.04	<0.04	NA	< 0.04	109%	50%	140%	102%	60%	130%	114%	50%	140%
Toluene	5289917		<0.05	<0.05	NA	< 0.05	95%	50%	140%	97%	60%	130%	87%	50%	140%
Dibromochloromethane	5289917		<0.05	<0.05	NA	< 0.05	119%	50%	140%	115%	60%	130%	117%	50%	140%
Ethylene Dibromide	5289917		<0.04	<0.04	NA	< 0.04	114%	50%	140%	97%	60%	130%	107%	50%	140%
Tetrachloroethylene	5289917		<0.05	<0.05	NA	< 0.05	101%	50%	140%	106%	60%	130%	117%	50%	140%
1,1,1,2-Tetrachloroethane	5289917		<0.04	<0.04	NA	< 0.04	105%	50%	140%	108%	60%	130%	110%	50%	140%
Chlorobenzene	5289917		<0.05	<0.05	NA	< 0.05	102%	50%	140%	106%	60%	130%	106%	50%	140%
Ethylbenzene	5289917		<0.05	<0.05	NA	< 0.05	89%	50%	140%	91%	60%	130%	86%	50%	140%
m & p-Xylene	5289917		<0.05	<0.05	NA	< 0.05	91%	50%	140%	93%	60%	130%	89%	50%	140%
Bromoform	5289917		<0.05	<0.05	NA	< 0.05	92%	50%	140%	100%	60%	130%	92%	50%	140%
Styrene	5289917		<0.05	<0.05	NA	< 0.05	79%	50%	140%	78%	60%	130%	95%	50%	140%
1,1,2,2-Tetrachloroethane	5289917		<0.05	<0.05	NA	< 0.05	110%	50%	140%	80%	60%	130%	115%	50%	140%
o-Xylene	5289917		<0.05	<0.05	NA	< 0.05	92%	50%	140%	94%	60%	130%	92%	50%	140%

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 23P068861

PROJECT: 327928

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: Sep 20, 2023			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
1,3-Dichlorobenzene	5289917		<0.05	<0.05	NA	< 0.05	109%	50%	140%	101%	60%	130%	115%	50%	140%
1,4-Dichlorobenzene	5289917		<0.05	<0.05	NA	< 0.05	88%	50%	140%	117%	60%	130%	117%	50%	140%
1,2-Dichlorobenzene	5289917		<0.05	<0.05	NA	< 0.05	94%	50%	140%	113%	60%	130%	107%	50%	140%
n-Hexane	5289917		<0.05	<0.05	NA	< 0.05	98%	50%	140%	77%	60%	130%	76%	50%	140%
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	5285631		<0.05	<0.05	NA	< 0.05	84%	50%	140%	80%	50%	140%	78%	50%	140%
Acenaphthylene	5285631		<0.05	<0.05	NA	< 0.05	107%	50%	140%	78%	50%	140%	73%	50%	140%
Acenaphthene	5285631		<0.05	<0.05	NA	< 0.05	91%	50%	140%	73%	50%	140%	80%	50%	140%
Fluorene	5285631		<0.05	<0.05	NA	< 0.05	114%	50%	140%	90%	50%	140%	93%	50%	140%
Phenanthrene	5285631		<0.05	<0.05	NA	< 0.05	109%	50%	140%	83%	50%	140%	93%	50%	140%
Anthracene	5285631		<0.05	<0.05	NA	< 0.05	119%	50%	140%	83%	50%	140%	105%	50%	140%
Fluoranthene	5285631		<0.05	<0.05	NA	< 0.05	113%	50%	140%	98%	50%	140%	80%	50%	140%
Pyrene	5285631		<0.05	<0.05	NA	< 0.05	110%	50%	140%	95%	50%	140%	90%	50%	140%
Benz(a)anthracene	5285631		<0.05	<0.05	NA	< 0.05	107%	50%	140%	115%	50%	140%	83%	50%	140%
Chrysene	5285631		<0.05	<0.05	NA	< 0.05	115%	50%	140%	78%	50%	140%	83%	50%	140%
Benzo(b)fluoranthene	5285631		<0.05	<0.05	NA	< 0.05	100%	50%	140%	95%	50%	140%	110%	50%	140%
Benzo(k)fluoranthene	5285631		<0.05	<0.05	NA	< 0.05	109%	50%	140%	80%	50%	140%	98%	50%	140%
Benzo(a)pyrene	5285631		<0.05	<0.05	NA	< 0.05	112%	50%	140%	93%	50%	140%	98%	50%	140%
Indeno(1,2,3-cd)pyrene	5285631		<0.05	<0.05	NA	< 0.05	108%	50%	140%	78%	50%	140%	78%	50%	140%
Dibenz(a,h)anthracene	5285631		<0.05	<0.05	NA	< 0.05	116%	50%	140%	95%	50%	140%	78%	50%	140%
Benzo(g,h,i)perylene	5285631		<0.05	<0.05	NA	< 0.05	93%	50%	140%	103%	50%	140%	93%	50%	140%
O. Reg. 558 - VOCs															
Vinyl Chloride Leachate	5295632		<0.030	<0.030	NA	< 0.030	100%	50%	140%	106%	50%	140%	111%	50%	140%
1,1 Dichloroethene Leachate	5295632		<0.020	<0.020	NA	< 0.020	97%	50%	140%	95%	60%	130%	114%	50%	140%
Dichloromethane Leachate	5295632		<0.030	<0.030	NA	< 0.030	112%	50%	140%	84%	60%	130%	100%	50%	140%
Methyl Ethyl Ketone Leachate	5295632		<0.090	<0.090	NA	< 0.090	109%	50%	140%	84%	50%	140%	114%	50%	140%
Chloroform Leachate	5295632		<0.020	<0.020	NA	< 0.020	94%	50%	140%	119%	60%	130%	94%	50%	140%
1,2-Dichloroethane Leachate	5295632		<0.020	<0.020	NA	< 0.020	111%	50%	140%	118%	60%	130%	112%	50%	140%
Carbon Tetrachloride Leachate	5295632		<0.020	<0.020	NA	< 0.020	105%	50%	140%	105%	60%	130%	88%	50%	140%
Benzene Leachate	5295632		<0.020	<0.020	NA	< 0.020	87%	50%	140%	113%	60%	130%	103%	50%	140%
Trichloroethene Leachate	5295632		<0.020	<0.020	NA	< 0.020	106%	50%	140%	108%	60%	130%	99%	50%	140%
Tetrachloroethene Leachate	5295632		<0.050	<0.050	NA	< 0.050	113%	50%	140%	119%	60%	130%	100%	50%	140%
Chlorobenzene Leachate	5295632		<0.010	<0.010	NA	< 0.010	103%	50%	140%	115%	60%	130%	106%	50%	140%
1,2-Dichlorobenzene Leachate	5295632		<0.010	<0.010	NA	< 0.010	93%	50%	140%	106%	60%	130%	101%	50%	140%
1,4-Dichlorobenzene Leachate	5295632		<0.010	<0.010	NA	< 0.010	82%	50%	140%	98%	60%	130%	103%	50%	140%
O. Reg. 558 - SVOCs															
Pyridine Leachate	5286893		< 0.010	< 0.010	NA	< 0.010	77%	50%	140%	63%	50%	140%	116%	50%	140%
o-Cresol Leachate	5286893		< 0.004	< 0.004	NA	< 0.004	95%	50%	140%	92%	50%	140%	87%	50%	140%

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 23P068861

PROJECT: 327928

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: Sep 20, 2023			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Meta & Para-Cresol Leachate	5286893		< 0.008	< 0.008	NA	< 0.008	104%	50%	140%	78%	50%	140%	85%	50%	140%
Hexachloroethane Leachate	5286893		< 0.004	< 0.004	NA	< 0.004	86%	50%	140%	68%	50%	140%	79%	50%	140%
Nitrobenzene Leachate	5286893		< 0.004	< 0.004	NA	< 0.004	88%	50%	140%	74%	50%	140%	114%	50%	140%
Hexachlorobutadiene Leachate	5286893		< 0.004	< 0.004	NA	< 0.004	68%	50%	140%	84%	50%	140%	110%	50%	140%
2,4,6-Trichlorophenol Leachate	5286893		< 0.05	< 0.05	NA	< 0.05	87%	50%	140%	75%	50%	140%	63%	50%	140%
2,4,5-Trichlorophenol Leachate	5286893		< 0.004	< 0.004	NA	< 0.004	91%	50%	140%	76%	50%	140%	62%	50%	140%
2,4-Dinitrotoluene Leachate	5286893		< 0.004	< 0.004	NA	< 0.004	79%	50%	140%	75%	50%	140%	84%	50%	140%
2,3,4,6-Tetrachlorophenol Leachate	5286893		< 0.004	< 0.004	NA	< 0.004	82%	50%	140%	60%	50%	140%	87%	50%	140%
Hexachlorobenzene Leachate	5286893		< 0.004	< 0.004	NA	< 0.004	98%	50%	140%	84%	50%	140%	73%	50%	140%
Dinoseb Leachate	5286893		< 0.004	< 0.004	NA	< 0.004	63%	50%	140%	72%	50%	140%	70%	50%	140%
Benzo(a)pyrene Leachate	5286893		< 0.001	< 0.001	NA	< 0.001	118%	50%	140%	86%	50%	140%	67%	50%	140%
Pentachlorophenol Leachate	5286893		< 0.006	< 0.006	NA	< 0.006	65%	50%	140%	62%	50%	140%	61%	50%	140%
O. Reg. 558 - Benzo(a) pyrene															
Benzo(a)pyrene Leachate	5286893		< 0.001	< 0.001	NA	< 0.001	118%	50%	140%	86%	50%	140%	67%	50%	140%
O. Reg. 558 - PCBs															
PCB's Leachate	5285014		< 0.005	< 0.005	NA	< 0.005	96%	50%	140%	90%	50%	140%	85%	50%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

Certified By: N Popnikolof

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QC Exceedance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 23P068861

PROJECT: 327928

ATTENTION TO: Jeanette McCann

RPT Date: Sep 20, 2023		REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Sample Id	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
			Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)										
Selenium		133%	70%	130%	106%	80%	120%	121%	70%	130%

Comments: NA signifies Not Applicable.
pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.
Duplicate NA: results are under 5X the RDL and will not be calculated.

More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

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Time Markers

AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290357	MW101-S1	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 153(511) - Metals & Inorganics (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	19-SEP-2023	19-SEP-2023	SE
Arsenic	19-SEP-2023	19-SEP-2023	SE
Barium	19-SEP-2023	19-SEP-2023	SE
Beryllium	19-SEP-2023	19-SEP-2023	SE
Boron	19-SEP-2023	19-SEP-2023	SE
Boron (Hot Water Soluble)	19-SEP-2023	19-SEP-2023	ZK
Cadmium	19-SEP-2023	19-SEP-2023	SE
Chromium	19-SEP-2023	19-SEP-2023	SE
Cobalt	19-SEP-2023	19-SEP-2023	SE
Copper	19-SEP-2023	19-SEP-2023	SE
Lead	19-SEP-2023	19-SEP-2023	SE
Molybdenum	19-SEP-2023	19-SEP-2023	SE
Nickel	19-SEP-2023	19-SEP-2023	SE
Selenium	19-SEP-2023	19-SEP-2023	SE
Silver	19-SEP-2023	19-SEP-2023	SE
Thallium	19-SEP-2023	19-SEP-2023	SE
Uranium	19-SEP-2023	19-SEP-2023	SE
Vanadium	19-SEP-2023	19-SEP-2023	SE
Zinc	19-SEP-2023	19-SEP-2023	SE
Chromium, Hexavalent	19-SEP-2023	19-SEP-2023	DG
Cyanide, WAD	19-SEP-2023	19-SEP-2023	BG
Mercury	19-SEP-2023	19-SEP-2023	SE
Electrical Conductivity (2:1)	19-SEP-2023	19-SEP-2023	XL
Sodium Adsorption Ratio (2:1) (Calc.)	19-SEP-2023	19-SEP-2023	XH
pH, 2:1 CaCl2 Extraction	19-SEP-2023	19-SEP-2023	XL

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290372	MW101-S2	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	20-SEP-2023	20-SEP-2023	SB
Acenaphthylene	20-SEP-2023	20-SEP-2023	SB
Acenaphthene	20-SEP-2023	20-SEP-2023	SB
Fluorene	20-SEP-2023	20-SEP-2023	SB
Phenanthrene	20-SEP-2023	20-SEP-2023	SB
Anthracene	20-SEP-2023	20-SEP-2023	SB
Fluoranthene	20-SEP-2023	20-SEP-2023	SB
Pyrene	20-SEP-2023	20-SEP-2023	SB
Benz(a)anthracene	20-SEP-2023	20-SEP-2023	SB

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Time Markers

AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290372	MW101-S2	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Chrysene	20-SEP-2023	20-SEP-2023	SB
Benzo(b)fluoranthene	20-SEP-2023	20-SEP-2023	SB
Benzo(k)fluoranthene	20-SEP-2023	20-SEP-2023	SB
Benzo(a)pyrene	20-SEP-2023	20-SEP-2023	SB
Indeno(1,2,3-cd)pyrene	20-SEP-2023	20-SEP-2023	SB
Dibenz(a,h)anthracene	20-SEP-2023	20-SEP-2023	SB
Benzo(g,h,i)perylene	20-SEP-2023	20-SEP-2023	SB
1 and 2 Methlynaphthalene	20-SEP-2023	20-SEP-2023	SYS
Naphthalene-d8	20-SEP-2023	20-SEP-2023	SB
Acridine-d9	20-SEP-2023	20-SEP-2023	SB
Terphenyl-d14	20-SEP-2023	20-SEP-2023	SB
Moisture Content	18-SEP-2023	18-SEP-2023	RB

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 - C10)	18-SEP-2023	18-SEP-2023	AG
F1 (C6 to C10) minus BTEX	18-SEP-2023	18-SEP-2023	SYS
Toluene-d8	18-SEP-2023	18-SEP-2023	AG
F2 (C10 to C16)	19-SEP-2023	19-SEP-2023	CA
F2 (C10 to C16) minus Naphthalene	20-SEP-2023	20-SEP-2023	SYS
F3 (C16 to C34)	19-SEP-2023	19-SEP-2023	CA
F3 (C16 to C34) minus PAHs	20-SEP-2023	20-SEP-2023	SYS
F4 (C34 to C50)	19-SEP-2023	19-SEP-2023	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	18-SEP-2023	18-SEP-2023	RB
Terphenyl	19-SEP-2023	19-SEP-2023	CA

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	18-SEP-2023	18-SEP-2023	AG
Vinyl Chloride	18-SEP-2023	18-SEP-2023	AG
Bromomethane	18-SEP-2023	18-SEP-2023	AG
Trichlorofluoromethane	18-SEP-2023	18-SEP-2023	AG
Acetone	18-SEP-2023	18-SEP-2023	AG
1,1-Dichloroethylene	18-SEP-2023	18-SEP-2023	AG
Methylene Chloride	18-SEP-2023	18-SEP-2023	AG
Trans- 1,2-Dichloroethylene	18-SEP-2023	18-SEP-2023	AG
Methyl tert-butyl Ether	18-SEP-2023	18-SEP-2023	AG
1,1-Dichloroethane	18-SEP-2023	18-SEP-2023	AG

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290372	MW101-S2	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Methyl Ethyl Ketone	18-SEP-2023	18-SEP-2023	AG
Cis- 1,2-Dichloroethylene	18-SEP-2023	18-SEP-2023	AG
Chloroform	18-SEP-2023	18-SEP-2023	AG
1,2-Dichloroethane	18-SEP-2023	18-SEP-2023	AG
1,1,1-Trichloroethane	18-SEP-2023	18-SEP-2023	AG
Carbon Tetrachloride	18-SEP-2023	18-SEP-2023	AG
Benzene	18-SEP-2023	18-SEP-2023	AG
1,2-Dichloropropane	18-SEP-2023	18-SEP-2023	AG
Trichloroethylene	18-SEP-2023	18-SEP-2023	AG
Bromodichloromethane	18-SEP-2023	18-SEP-2023	AG
Methyl Isobutyl Ketone	18-SEP-2023	18-SEP-2023	AG
1,1,2-Trichloroethane	18-SEP-2023	18-SEP-2023	AG
Toluene	18-SEP-2023	18-SEP-2023	AG
Dibromochloromethane	18-SEP-2023	18-SEP-2023	AG
Ethylene Dibromide	18-SEP-2023	18-SEP-2023	AG
Tetrachloroethylene	18-SEP-2023	18-SEP-2023	AG
1,1,1,2-Tetrachloroethane	18-SEP-2023	18-SEP-2023	AG
Chlorobenzene	18-SEP-2023	18-SEP-2023	AG
Ethylbenzene	18-SEP-2023	18-SEP-2023	AG
m & p-Xylene	18-SEP-2023	18-SEP-2023	AG
Bromoform	18-SEP-2023	18-SEP-2023	AG
Styrene	18-SEP-2023	18-SEP-2023	AG
1,1,2,2-Tetrachloroethane	18-SEP-2023	18-SEP-2023	AG
o-Xylene	18-SEP-2023	18-SEP-2023	AG
1,3-Dichlorobenzene	18-SEP-2023	18-SEP-2023	AG
1,4-Dichlorobenzene	18-SEP-2023	18-SEP-2023	AG
1,2-Dichlorobenzene	18-SEP-2023	18-SEP-2023	AG
Xylenes (Total)	18-SEP-2023	18-SEP-2023	SYS
1,3-Dichloropropene (Cis + Trans)	18-SEP-2023	18-SEP-2023	SYS
n-Hexane	18-SEP-2023	18-SEP-2023	AG
Toluene-d8	18-SEP-2023	18-SEP-2023	AG
4-Bromofluorobenzene	18-SEP-2023	18-SEP-2023	AG
Moisture Content	18-SEP-2023	18-SEP-2023	RB

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290376	BH 102-S1	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 153(511) - Metals & Inorganics (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	19-SEP-2023	19-SEP-2023	SE

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AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290376	BH 102-S1	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 153(511) - Metals & Inorganics (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Arsenic	19-SEP-2023	19-SEP-2023	SE
Barium	19-SEP-2023	19-SEP-2023	SE
Beryllium	19-SEP-2023	19-SEP-2023	SE
Boron	19-SEP-2023	19-SEP-2023	SE
Boron (Hot Water Soluble)	19-SEP-2023	19-SEP-2023	ZK
Cadmium	19-SEP-2023	19-SEP-2023	SE
Chromium	19-SEP-2023	19-SEP-2023	SE
Cobalt	19-SEP-2023	19-SEP-2023	SE
Copper	19-SEP-2023	19-SEP-2023	SE
Lead	19-SEP-2023	19-SEP-2023	SE
Molybdenum	19-SEP-2023	19-SEP-2023	SE
Nickel	19-SEP-2023	19-SEP-2023	SE
Selenium	19-SEP-2023	19-SEP-2023	SE
Silver	19-SEP-2023	19-SEP-2023	SE
Thallium	19-SEP-2023	19-SEP-2023	SE
Uranium	19-SEP-2023	19-SEP-2023	SE
Vanadium	19-SEP-2023	19-SEP-2023	SE
Zinc	19-SEP-2023	19-SEP-2023	SE
Chromium, Hexavalent	19-SEP-2023	19-SEP-2023	DG
Cyanide, WAD	19-SEP-2023	19-SEP-2023	BG
Mercury	19-SEP-2023	19-SEP-2023	SE
Electrical Conductivity (2:1)	19-SEP-2023	19-SEP-2023	XL
Sodium Adsorption Ratio (2:1) (Calc.)	19-SEP-2023	19-SEP-2023	XH
pH, 2:1 CaCl2 Extraction	19-SEP-2023	19-SEP-2023	XL

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290379	BH 102-S2	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	20-SEP-2023	20-SEP-2023	SB
Acenaphthylene	20-SEP-2023	20-SEP-2023	SB
Acenaphthene	20-SEP-2023	20-SEP-2023	SB
Fluorene	20-SEP-2023	20-SEP-2023	SB
Phenanthrene	20-SEP-2023	20-SEP-2023	SB
Anthracene	20-SEP-2023	20-SEP-2023	SB
Fluoranthene	20-SEP-2023	20-SEP-2023	SB
Pyrene	20-SEP-2023	20-SEP-2023	SB
Benz(a)anthracene	20-SEP-2023	20-SEP-2023	SB
Chrysene	20-SEP-2023	20-SEP-2023	SB

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AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290379	BH 102-S2	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzo(b)fluoranthene	20-SEP-2023	20-SEP-2023	SB
Benzo(k)fluoranthene	20-SEP-2023	20-SEP-2023	SB
Benzo(a)pyrene	20-SEP-2023	20-SEP-2023	SB
Indeno(1,2,3-cd)pyrene	20-SEP-2023	20-SEP-2023	SB
Dibenz(a,h)anthracene	20-SEP-2023	20-SEP-2023	SB
Benzo(g,h,i)perylene	20-SEP-2023	20-SEP-2023	SB
1 and 2 Methlynaphthalene	20-SEP-2023	20-SEP-2023	SYS
Naphthalene-d8	20-SEP-2023	20-SEP-2023	SB
Acridine-d9	20-SEP-2023	20-SEP-2023	SB
Terphenyl-d14	20-SEP-2023	20-SEP-2023	SB
Moisture Content	18-SEP-2023	18-SEP-2023	RB

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 - C10)	18-SEP-2023	18-SEP-2023	AG
F1 (C6 to C10) minus BTEX	18-SEP-2023	18-SEP-2023	SYS
Toluene-d8	18-SEP-2023	18-SEP-2023	AG
F2 (C10 to C16)	19-SEP-2023	19-SEP-2023	CA
F2 (C10 to C16) minus Naphthalene	20-SEP-2023	20-SEP-2023	SYS
F3 (C16 to C34)	19-SEP-2023	19-SEP-2023	CA
F3 (C16 to C34) minus PAHs	20-SEP-2023	20-SEP-2023	SYS
F4 (C34 to C50)	19-SEP-2023	19-SEP-2023	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	18-SEP-2023	18-SEP-2023	RB
Terphenyl	19-SEP-2023	19-SEP-2023	CA

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	18-SEP-2023	18-SEP-2023	AG
Vinyl Chloride	18-SEP-2023	18-SEP-2023	AG
Bromomethane	18-SEP-2023	18-SEP-2023	AG
Trichlorofluoromethane	18-SEP-2023	18-SEP-2023	AG
Acetone	18-SEP-2023	18-SEP-2023	AG
1,1-Dichloroethylene	18-SEP-2023	18-SEP-2023	AG
Methylene Chloride	18-SEP-2023	18-SEP-2023	AG
Trans- 1,2-Dichloroethylene	18-SEP-2023	18-SEP-2023	AG
Methyl tert-butyl Ether	18-SEP-2023	18-SEP-2023	AG
1,1-Dichloroethane	18-SEP-2023	18-SEP-2023	AG
Methyl Ethyl Ketone	18-SEP-2023	18-SEP-2023	AG

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AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290379	BH 102-S2	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Cis- 1,2-Dichloroethylene	18-SEP-2023	18-SEP-2023	AG
Chloroform	18-SEP-2023	18-SEP-2023	AG
1,2-Dichloroethane	18-SEP-2023	18-SEP-2023	AG
1,1,1-Trichloroethane	18-SEP-2023	18-SEP-2023	AG
Carbon Tetrachloride	18-SEP-2023	18-SEP-2023	AG
Benzene	18-SEP-2023	18-SEP-2023	AG
1,2-Dichloropropane	18-SEP-2023	18-SEP-2023	AG
Trichloroethylene	18-SEP-2023	18-SEP-2023	AG
Bromodichloromethane	18-SEP-2023	18-SEP-2023	AG
Methyl Isobutyl Ketone	18-SEP-2023	18-SEP-2023	AG
1,1,2-Trichloroethane	18-SEP-2023	18-SEP-2023	AG
Toluene	18-SEP-2023	18-SEP-2023	AG
Dibromochloromethane	18-SEP-2023	18-SEP-2023	AG
Ethylene Dibromide	18-SEP-2023	18-SEP-2023	AG
Tetrachloroethylene	18-SEP-2023	18-SEP-2023	AG
1,1,1,2-Tetrachloroethane	18-SEP-2023	18-SEP-2023	AG
Chlorobenzene	18-SEP-2023	18-SEP-2023	AG
Ethylbenzene	18-SEP-2023	18-SEP-2023	AG
m & p-Xylene	18-SEP-2023	18-SEP-2023	AG
Bromoform	18-SEP-2023	18-SEP-2023	AG
Styrene	18-SEP-2023	18-SEP-2023	AG
1,1,2,2-Tetrachloroethane	18-SEP-2023	18-SEP-2023	AG
o-Xylene	18-SEP-2023	18-SEP-2023	AG
1,3-Dichlorobenzene	18-SEP-2023	18-SEP-2023	AG
1,4-Dichlorobenzene	18-SEP-2023	18-SEP-2023	AG
1,2-Dichlorobenzene	18-SEP-2023	18-SEP-2023	AG
Xylenes (Total)	18-SEP-2023	18-SEP-2023	SYS
1,3-Dichloropropene (Cis + Trans)	18-SEP-2023	18-SEP-2023	SYS
n-Hexane	18-SEP-2023	18-SEP-2023	AG
Toluene-d8	18-SEP-2023	18-SEP-2023	AG
4-Bromofluorobenzene	18-SEP-2023	18-SEP-2023	AG
Moisture Content	18-SEP-2023	18-SEP-2023	RB

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290381	BH 103-S1	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 153(511) - Metals & Inorganics (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	19-SEP-2023	19-SEP-2023	SE
Arsenic	19-SEP-2023	19-SEP-2023	SE

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AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290381	BH 103-S1	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 153(511) - Metals & Inorganics (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Barium	19-SEP-2023	19-SEP-2023	SE
Beryllium	19-SEP-2023	19-SEP-2023	SE
Boron	19-SEP-2023	19-SEP-2023	SE
Boron (Hot Water Soluble)	19-SEP-2023	19-SEP-2023	ZK
Cadmium	19-SEP-2023	19-SEP-2023	SE
Chromium	19-SEP-2023	19-SEP-2023	SE
Cobalt	19-SEP-2023	19-SEP-2023	SE
Copper	19-SEP-2023	19-SEP-2023	SE
Lead	19-SEP-2023	19-SEP-2023	SE
Molybdenum	19-SEP-2023	19-SEP-2023	SE
Nickel	19-SEP-2023	19-SEP-2023	SE
Selenium	19-SEP-2023	19-SEP-2023	SE
Silver	19-SEP-2023	19-SEP-2023	SE
Thallium	19-SEP-2023	19-SEP-2023	SE
Uranium	19-SEP-2023	19-SEP-2023	SE
Vanadium	19-SEP-2023	19-SEP-2023	SE
Zinc	19-SEP-2023	19-SEP-2023	SE
Chromium, Hexavalent	19-SEP-2023	19-SEP-2023	DG
Cyanide, WAD	19-SEP-2023	19-SEP-2023	BG
Mercury	19-SEP-2023	19-SEP-2023	SE
Electrical Conductivity (2:1)	19-SEP-2023	19-SEP-2023	XL
Sodium Adsorption Ratio (2:1) (Calc.)	19-SEP-2023	19-SEP-2023	XH
pH, 2:1 CaCl2 Extraction	19-SEP-2023	19-SEP-2023	XL

O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	20-SEP-2023	20-SEP-2023	SB
Acenaphthylene	20-SEP-2023	20-SEP-2023	SB
Acenaphthene	20-SEP-2023	20-SEP-2023	SB
Fluorene	20-SEP-2023	20-SEP-2023	SB
Phenanthrene	20-SEP-2023	20-SEP-2023	SB
Anthracene	20-SEP-2023	20-SEP-2023	SB
Fluoranthene	20-SEP-2023	20-SEP-2023	SB
Pyrene	20-SEP-2023	20-SEP-2023	SB
Benz(a)anthracene	20-SEP-2023	20-SEP-2023	SB
Chrysene	20-SEP-2023	20-SEP-2023	SB
Benzo(b)fluoranthene	20-SEP-2023	20-SEP-2023	SB
Benzo(k)fluoranthene	20-SEP-2023	20-SEP-2023	SB
Benzo(a)pyrene	20-SEP-2023	20-SEP-2023	SB

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AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290381	BH 103-S1	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Indeno(1,2,3-cd)pyrene	20-SEP-2023	20-SEP-2023	SB
Dibenz(a,h)anthracene	20-SEP-2023	20-SEP-2023	SB
Benzo(g,h,i)perylene	20-SEP-2023	20-SEP-2023	SB
1 and 2 Methlynaphthalene	20-SEP-2023	20-SEP-2023	SYS
Naphthalene-d8	20-SEP-2023	20-SEP-2023	SB
Acridine-d9	20-SEP-2023	20-SEP-2023	SB
Terphenyl-d14	20-SEP-2023	20-SEP-2023	SB
Moisture Content	18-SEP-2023	18-SEP-2023	RB

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 - C10)	18-SEP-2023	18-SEP-2023	AG
F1 (C6 to C10) minus BTEX	18-SEP-2023	18-SEP-2023	SYS
Toluene-d8	18-SEP-2023	18-SEP-2023	AG
F2 (C10 to C16)	19-SEP-2023	19-SEP-2023	CA
F2 (C10 to C16) minus Naphthalene	20-SEP-2023	20-SEP-2023	SYS
F3 (C16 to C34)	19-SEP-2023	19-SEP-2023	CA
F3 (C16 to C34) minus PAHs	20-SEP-2023	20-SEP-2023	SYS
F4 (C34 to C50)	19-SEP-2023	19-SEP-2023	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	18-SEP-2023	18-SEP-2023	RB
Terphenyl	19-SEP-2023	19-SEP-2023	CA

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	18-SEP-2023	18-SEP-2023	AG
Vinyl Chloride	18-SEP-2023	18-SEP-2023	AG
Bromomethane	18-SEP-2023	18-SEP-2023	AG
Trichlorofluoromethane	18-SEP-2023	18-SEP-2023	AG
Acetone	18-SEP-2023	18-SEP-2023	AG
1,1-Dichloroethylene	18-SEP-2023	18-SEP-2023	AG
Methylene Chloride	18-SEP-2023	18-SEP-2023	AG
Trans- 1,2-Dichloroethylene	18-SEP-2023	18-SEP-2023	AG
Methyl tert-butyl Ether	18-SEP-2023	18-SEP-2023	AG
1,1-Dichloroethane	18-SEP-2023	18-SEP-2023	AG
Methyl Ethyl Ketone	18-SEP-2023	18-SEP-2023	AG
Cis- 1,2-Dichloroethylene	18-SEP-2023	18-SEP-2023	AG
Chloroform	18-SEP-2023	18-SEP-2023	AG
1,2-Dichloroethane	18-SEP-2023	18-SEP-2023	AG

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CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290381	BH 103-S1	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
1,1,1-Trichloroethane	18-SEP-2023	18-SEP-2023	AG
Carbon Tetrachloride	18-SEP-2023	18-SEP-2023	AG
Benzene	18-SEP-2023	18-SEP-2023	AG
1,2-Dichloropropane	18-SEP-2023	18-SEP-2023	AG
Trichloroethylene	18-SEP-2023	18-SEP-2023	AG
Bromodichloromethane	18-SEP-2023	18-SEP-2023	AG
Methyl Isobutyl Ketone	18-SEP-2023	18-SEP-2023	AG
1,1,2-Trichloroethane	18-SEP-2023	18-SEP-2023	AG
Toluene	18-SEP-2023	18-SEP-2023	AG
Dibromochloromethane	18-SEP-2023	18-SEP-2023	AG
Ethylene Dibromide	18-SEP-2023	18-SEP-2023	AG
Tetrachloroethylene	18-SEP-2023	18-SEP-2023	AG
1,1,1,2-Tetrachloroethane	18-SEP-2023	18-SEP-2023	AG
Chlorobenzene	18-SEP-2023	18-SEP-2023	AG
Ethylbenzene	18-SEP-2023	18-SEP-2023	AG
m & p-Xylene	18-SEP-2023	18-SEP-2023	AG
Bromoform	18-SEP-2023	18-SEP-2023	AG
Styrene	18-SEP-2023	18-SEP-2023	AG
1,1,2,2-Tetrachloroethane	18-SEP-2023	18-SEP-2023	AG
o-Xylene	18-SEP-2023	18-SEP-2023	AG
1,3-Dichlorobenzene	18-SEP-2023	18-SEP-2023	AG
1,4-Dichlorobenzene	18-SEP-2023	18-SEP-2023	AG
1,2-Dichlorobenzene	18-SEP-2023	18-SEP-2023	AG
Xylenes (Total)	18-SEP-2023	18-SEP-2023	SYS
1,3-Dichloropropene (Cis + Trans)	18-SEP-2023	18-SEP-2023	SYS
n-Hexane	18-SEP-2023	18-SEP-2023	AG
Toluene-d8	18-SEP-2023	18-SEP-2023	AG
4-Bromofluorobenzene	18-SEP-2023	18-SEP-2023	AG
Moisture Content	18-SEP-2023	18-SEP-2023	RB

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290458	BH 104-AS1	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 153(511) - Metals & Inorganics (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	19-SEP-2023	19-SEP-2023	SE
Arsenic	19-SEP-2023	19-SEP-2023	SE
Barium	19-SEP-2023	19-SEP-2023	SE
Beryllium	19-SEP-2023	19-SEP-2023	SE
Boron	19-SEP-2023	19-SEP-2023	SE

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AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290458	BH 104-AS1	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 153(511) - Metals & Inorganics (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Boron (Hot Water Soluble)	19-SEP-2023	19-SEP-2023	ZK
Cadmium	19-SEP-2023	19-SEP-2023	SE
Chromium	19-SEP-2023	19-SEP-2023	SE
Cobalt	19-SEP-2023	19-SEP-2023	SE
Copper	19-SEP-2023	19-SEP-2023	SE
Lead	19-SEP-2023	19-SEP-2023	SE
Molybdenum	19-SEP-2023	19-SEP-2023	SE
Nickel	19-SEP-2023	19-SEP-2023	SE
Selenium	19-SEP-2023	19-SEP-2023	SE
Silver	19-SEP-2023	19-SEP-2023	SE
Thallium	19-SEP-2023	19-SEP-2023	SE
Uranium	19-SEP-2023	19-SEP-2023	SE
Vanadium	19-SEP-2023	19-SEP-2023	SE
Zinc	19-SEP-2023	19-SEP-2023	SE
Chromium, Hexavalent	19-SEP-2023	19-SEP-2023	DG
Cyanide, WAD	19-SEP-2023	19-SEP-2023	BG
Mercury	19-SEP-2023	19-SEP-2023	SE
Electrical Conductivity (2:1)	19-SEP-2023	19-SEP-2023	XL
Sodium Adsorption Ratio (2:1) (Calc.)	19-SEP-2023	19-SEP-2023	XH
pH, 2:1 CaCl2 Extraction	19-SEP-2023	19-SEP-2023	XL

Particle Size by Sieve (Wet)

Parameter	Date Prepared	Date Analyzed	Initials
Sieve Analysis - 75 µm (retained)	18-SEP-2023	20-SEP-2023	PC
Sieve Analysis - 75 µm (passing)	18-SEP-2023	20-SEP-2023	PC

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290461	BH 104-S2	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 153(511) - ORPs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
pH, 2:1 CaCl2 Extraction	19-SEP-2023	19-SEP-2023	XL

O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	20-SEP-2023	20-SEP-2023	SB
Acenaphthylene	20-SEP-2023	20-SEP-2023	SB
Acenaphthene	20-SEP-2023	20-SEP-2023	SB
Fluorene	20-SEP-2023	20-SEP-2023	SB
Phenanthrene	20-SEP-2023	20-SEP-2023	SB

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AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290461	BH 104-S2	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Anthracene	20-SEP-2023	20-SEP-2023	SB
Fluoranthene	20-SEP-2023	20-SEP-2023	SB
Pyrene	20-SEP-2023	20-SEP-2023	SB
Benz(a)anthracene	20-SEP-2023	20-SEP-2023	SB
Chrysene	20-SEP-2023	20-SEP-2023	SB
Benzo(b)fluoranthene	20-SEP-2023	20-SEP-2023	SB
Benzo(k)fluoranthene	20-SEP-2023	20-SEP-2023	SB
Benzo(a)pyrene	20-SEP-2023	20-SEP-2023	SB
Indeno(1,2,3-cd)pyrene	20-SEP-2023	20-SEP-2023	SB
Dibenz(a,h)anthracene	20-SEP-2023	20-SEP-2023	SB
Benzo(g,h,i)perylene	20-SEP-2023	20-SEP-2023	SB
1 and 2 Methlynaphthalene	20-SEP-2023	20-SEP-2023	SYS
Naphthalene-d8	20-SEP-2023	20-SEP-2023	SB
Acridine-d9	20-SEP-2023	20-SEP-2023	SB
Terphenyl-d14	20-SEP-2023	20-SEP-2023	SB
Moisture Content	18-SEP-2023	18-SEP-2023	RB

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 - C10)	18-SEP-2023	18-SEP-2023	AG
F1 (C6 to C10) minus BTEX	18-SEP-2023	18-SEP-2023	SYS
Toluene-d8	18-SEP-2023	18-SEP-2023	AG
F2 (C10 to C16)	19-SEP-2023	19-SEP-2023	CA
F2 (C10 to C16) minus Naphthalene	20-SEP-2023	20-SEP-2023	SYS
F3 (C16 to C34)	19-SEP-2023	19-SEP-2023	CA
F3 (C16 to C34) minus PAHs	20-SEP-2023	20-SEP-2023	SYS
F4 (C34 to C50)	19-SEP-2023	19-SEP-2023	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	18-SEP-2023	18-SEP-2023	RB
Terphenyl	19-SEP-2023	19-SEP-2023	CA

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	18-SEP-2023	18-SEP-2023	AG
Vinyl Chloride	18-SEP-2023	18-SEP-2023	AG
Bromomethane	18-SEP-2023	18-SEP-2023	AG
Trichlorofluoromethane	18-SEP-2023	18-SEP-2023	AG
Acetone	18-SEP-2023	18-SEP-2023	AG
1,1-Dichloroethylene	18-SEP-2023	18-SEP-2023	AG

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AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290461	BH 104-S2	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Methylene Chloride	18-SEP-2023	18-SEP-2023	AG
Trans- 1,2-Dichloroethylene	18-SEP-2023	18-SEP-2023	AG
Methyl tert-butyl Ether	18-SEP-2023	18-SEP-2023	AG
1,1-Dichloroethane	18-SEP-2023	18-SEP-2023	AG
Methyl Ethyl Ketone	18-SEP-2023	18-SEP-2023	AG
Cis- 1,2-Dichloroethylene	18-SEP-2023	18-SEP-2023	AG
Chloroform	18-SEP-2023	18-SEP-2023	AG
1,2-Dichloroethane	18-SEP-2023	18-SEP-2023	AG
1,1,1-Trichloroethane	18-SEP-2023	18-SEP-2023	AG
Carbon Tetrachloride	18-SEP-2023	18-SEP-2023	AG
Benzene	18-SEP-2023	18-SEP-2023	AG
1,2-Dichloropropane	18-SEP-2023	18-SEP-2023	AG
Trichloroethylene	18-SEP-2023	18-SEP-2023	AG
Bromodichloromethane	18-SEP-2023	18-SEP-2023	AG
Methyl Isobutyl Ketone	18-SEP-2023	18-SEP-2023	AG
1,1,2-Trichloroethane	18-SEP-2023	18-SEP-2023	AG
Toluene	18-SEP-2023	18-SEP-2023	AG
Dibromochloromethane	18-SEP-2023	18-SEP-2023	AG
Ethylene Dibromide	18-SEP-2023	18-SEP-2023	AG
Tetrachloroethylene	18-SEP-2023	18-SEP-2023	AG
1,1,1,2-Tetrachloroethane	18-SEP-2023	18-SEP-2023	AG
Chlorobenzene	18-SEP-2023	18-SEP-2023	AG
Ethylbenzene	18-SEP-2023	18-SEP-2023	AG
m & p-Xylene	18-SEP-2023	18-SEP-2023	AG
Bromoform	18-SEP-2023	18-SEP-2023	AG
Styrene	18-SEP-2023	18-SEP-2023	AG
1,1,2,2-Tetrachloroethane	18-SEP-2023	18-SEP-2023	AG
o-Xylene	18-SEP-2023	18-SEP-2023	AG
1,3-Dichlorobenzene	18-SEP-2023	18-SEP-2023	AG
1,4-Dichlorobenzene	18-SEP-2023	18-SEP-2023	AG
1,2-Dichlorobenzene	18-SEP-2023	18-SEP-2023	AG
Xylenes (Total)	18-SEP-2023	18-SEP-2023	SYS
1,3-Dichloropropene (Cis + Trans)	18-SEP-2023	18-SEP-2023	SYS
n-Hexane	18-SEP-2023	18-SEP-2023	AG
Toluene-d8	18-SEP-2023	18-SEP-2023	AG
4-Bromofluorobenzene	18-SEP-2023	18-SEP-2023	AG
Moisture Content	18-SEP-2023	18-SEP-2023	RB

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290464	BH 105-AS1	Soil	13-SEP-2023	14-SEP-2023

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AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290464	BH 105-AS1	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 153(511) - Metals & Inorganics (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	19-SEP-2023	19-SEP-2023	SE
Arsenic	19-SEP-2023	19-SEP-2023	SE
Barium	19-SEP-2023	19-SEP-2023	SE
Beryllium	19-SEP-2023	19-SEP-2023	SE
Boron	19-SEP-2023	19-SEP-2023	SE
Boron (Hot Water Soluble)	19-SEP-2023	19-SEP-2023	ZK
Cadmium	19-SEP-2023	19-SEP-2023	SE
Chromium	19-SEP-2023	19-SEP-2023	SE
Cobalt	19-SEP-2023	19-SEP-2023	SE
Copper	19-SEP-2023	19-SEP-2023	SE
Lead	19-SEP-2023	19-SEP-2023	SE
Molybdenum	19-SEP-2023	19-SEP-2023	SE
Nickel	19-SEP-2023	19-SEP-2023	SE
Selenium	19-SEP-2023	19-SEP-2023	SE
Silver	19-SEP-2023	19-SEP-2023	SE
Thallium	19-SEP-2023	19-SEP-2023	SE
Uranium	19-SEP-2023	19-SEP-2023	SE
Vanadium	19-SEP-2023	19-SEP-2023	SE
Zinc	19-SEP-2023	19-SEP-2023	SE
Chromium, Hexavalent	19-SEP-2023	19-SEP-2023	DG
Cyanide, WAD	19-SEP-2023	19-SEP-2023	BG
Mercury	19-SEP-2023	19-SEP-2023	SE
Electrical Conductivity (2:1)	19-SEP-2023	19-SEP-2023	XL
Sodium Adsorption Ratio (2:1) (Calc.)	19-SEP-2023	19-SEP-2023	XH
pH, 2:1 CaCl2 Extraction	19-SEP-2023	19-SEP-2023	XL

Particle Size by Sieve (Wet)

Parameter	Date Prepared	Date Analyzed	Initials
Sieve Analysis - 75 µm (retained)	18-SEP-2023	20-SEP-2023	PC
Sieve Analysis - 75 µm (passing)	18-SEP-2023	20-SEP-2023	PC

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290466	BH 105-S3	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	20-SEP-2023	20-SEP-2023	SB
Acenaphthylene	20-SEP-2023	20-SEP-2023	SB
Acenaphthene	20-SEP-2023	20-SEP-2023	SB
Fluorene	20-SEP-2023	20-SEP-2023	SB

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AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290466	BH 105-S3	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Phenanthrene	20-SEP-2023	20-SEP-2023	SB
Anthracene	20-SEP-2023	20-SEP-2023	SB
Fluoranthene	20-SEP-2023	20-SEP-2023	SB
Pyrene	20-SEP-2023	20-SEP-2023	SB
Benz(a)anthracene	20-SEP-2023	20-SEP-2023	SB
Chrysene	20-SEP-2023	20-SEP-2023	SB
Benzo(b)fluoranthene	20-SEP-2023	20-SEP-2023	SB
Benzo(k)fluoranthene	20-SEP-2023	20-SEP-2023	SB
Benzo(a)pyrene	20-SEP-2023	20-SEP-2023	SB
Indeno(1,2,3-cd)pyrene	20-SEP-2023	20-SEP-2023	SB
Dibenz(a,h)anthracene	20-SEP-2023	20-SEP-2023	SB
Benzo(g,h,i)perylene	20-SEP-2023	20-SEP-2023	SB
1 and 2 Methlynaphthalene	20-SEP-2023	20-SEP-2023	SYS
Naphthalene-d8	20-SEP-2023	20-SEP-2023	SB
Acridine-d9	20-SEP-2023	20-SEP-2023	SB
Terphenyl-d14	20-SEP-2023	20-SEP-2023	SB
Moisture Content	18-SEP-2023	18-SEP-2023	RB

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 - C10)	18-SEP-2023	18-SEP-2023	AG
F1 (C6 to C10) minus BTEX	18-SEP-2023	18-SEP-2023	SYS
Toluene-d8	18-SEP-2023	18-SEP-2023	AG
F2 (C10 to C16)	19-SEP-2023	19-SEP-2023	CA
F2 (C10 to C16) minus Naphthalene	20-SEP-2023	20-SEP-2023	SYS
F3 (C16 to C34)	19-SEP-2023	19-SEP-2023	CA
F3 (C16 to C34) minus PAHs	20-SEP-2023	20-SEP-2023	SYS
F4 (C34 to C50)	19-SEP-2023	19-SEP-2023	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	18-SEP-2023	18-SEP-2023	RB
Terphenyl	19-SEP-2023	19-SEP-2023	CA

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	18-SEP-2023	18-SEP-2023	AG
Vinyl Chloride	18-SEP-2023	18-SEP-2023	AG
Bromomethane	18-SEP-2023	18-SEP-2023	AG
Trichlorofluoromethane	18-SEP-2023	18-SEP-2023	AG
Acetone	18-SEP-2023	18-SEP-2023	AG

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AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290466	BH 105-S3	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
1,1-Dichloroethylene	18-SEP-2023	18-SEP-2023	AG
Methylene Chloride	18-SEP-2023	18-SEP-2023	AG
Trans- 1,2-Dichloroethylene	18-SEP-2023	18-SEP-2023	AG
Methyl tert-butyl Ether	18-SEP-2023	18-SEP-2023	AG
1,1-Dichloroethane	18-SEP-2023	18-SEP-2023	AG
Methyl Ethyl Ketone	18-SEP-2023	18-SEP-2023	AG
Cis- 1,2-Dichloroethylene	18-SEP-2023	18-SEP-2023	AG
Chloroform	18-SEP-2023	18-SEP-2023	AG
1,2-Dichloroethane	18-SEP-2023	18-SEP-2023	AG
1,1,1-Trichloroethane	18-SEP-2023	18-SEP-2023	AG
Carbon Tetrachloride	18-SEP-2023	18-SEP-2023	AG
Benzene	18-SEP-2023	18-SEP-2023	AG
1,2-Dichloropropane	18-SEP-2023	18-SEP-2023	AG
Trichloroethylene	18-SEP-2023	18-SEP-2023	AG
Bromodichloromethane	18-SEP-2023	18-SEP-2023	AG
Methyl Isobutyl Ketone	18-SEP-2023	18-SEP-2023	AG
1,1,2-Trichloroethane	18-SEP-2023	18-SEP-2023	AG
Toluene	18-SEP-2023	18-SEP-2023	AG
Dibromochloromethane	18-SEP-2023	18-SEP-2023	AG
Ethylene Dibromide	18-SEP-2023	18-SEP-2023	AG
Tetrachloroethylene	18-SEP-2023	18-SEP-2023	AG
1,1,1,2-Tetrachloroethane	18-SEP-2023	18-SEP-2023	AG
Chlorobenzene	18-SEP-2023	18-SEP-2023	AG
Ethylbenzene	18-SEP-2023	18-SEP-2023	AG
m & p-Xylene	18-SEP-2023	18-SEP-2023	AG
Bromoform	18-SEP-2023	18-SEP-2023	AG
Styrene	18-SEP-2023	18-SEP-2023	AG
1,1,2,2-Tetrachloroethane	18-SEP-2023	18-SEP-2023	AG
o-Xylene	18-SEP-2023	18-SEP-2023	AG
1,3-Dichlorobenzene	18-SEP-2023	18-SEP-2023	AG
1,4-Dichlorobenzene	18-SEP-2023	18-SEP-2023	AG
1,2-Dichlorobenzene	18-SEP-2023	18-SEP-2023	AG
Xylenes (Total)	18-SEP-2023	18-SEP-2023	SYS
1,3-Dichloropropene (Cis + Trans)	18-SEP-2023	18-SEP-2023	SYS
n-Hexane	18-SEP-2023	18-SEP-2023	AG
Toluene-d8	18-SEP-2023	18-SEP-2023	AG
4-Bromofluorobenzene	18-SEP-2023	18-SEP-2023	AG
Moisture Content	18-SEP-2023	18-SEP-2023	RB

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AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290468	MW 106-S2	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 153(511) - Metals & Inorganics (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	19-SEP-2023	19-SEP-2023	SE
Arsenic	19-SEP-2023	19-SEP-2023	SE
Barium	19-SEP-2023	19-SEP-2023	SE
Beryllium	19-SEP-2023	19-SEP-2023	SE
Boron	19-SEP-2023	19-SEP-2023	SE
Boron (Hot Water Soluble)	19-SEP-2023	19-SEP-2023	ZK
Cadmium	19-SEP-2023	19-SEP-2023	SE
Chromium	19-SEP-2023	19-SEP-2023	SE
Cobalt	19-SEP-2023	19-SEP-2023	SE
Copper	19-SEP-2023	19-SEP-2023	SE
Lead	19-SEP-2023	19-SEP-2023	SE
Molybdenum	19-SEP-2023	19-SEP-2023	SE
Nickel	19-SEP-2023	19-SEP-2023	SE
Selenium	19-SEP-2023	19-SEP-2023	SE
Silver	19-SEP-2023	19-SEP-2023	SE
Thallium	19-SEP-2023	19-SEP-2023	SE
Uranium	19-SEP-2023	19-SEP-2023	SE
Vanadium	19-SEP-2023	19-SEP-2023	SE
Zinc	20-SEP-2023	20-SEP-2023	SE
Chromium, Hexavalent	19-SEP-2023	19-SEP-2023	DG
Cyanide, WAD	19-SEP-2023	19-SEP-2023	BG
Mercury	19-SEP-2023	19-SEP-2023	SE
Electrical Conductivity (2:1)	19-SEP-2023	19-SEP-2023	XL
Sodium Adsorption Ratio (2:1) (Calc.)	19-SEP-2023	19-SEP-2023	XH
pH, 2:1 CaCl2 Extraction	19-SEP-2023	19-SEP-2023	XL

O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	20-SEP-2023	20-SEP-2023	SB
Acenaphthylene	20-SEP-2023	20-SEP-2023	SB
Acenaphthene	20-SEP-2023	20-SEP-2023	SB
Fluorene	20-SEP-2023	20-SEP-2023	SB
Phenanthrene	20-SEP-2023	20-SEP-2023	SB
Anthracene	20-SEP-2023	20-SEP-2023	SB
Fluoranthene	20-SEP-2023	20-SEP-2023	SB
Pyrene	20-SEP-2023	20-SEP-2023	SB
Benz(a)anthracene	20-SEP-2023	20-SEP-2023	SB
Chrysene	20-SEP-2023	20-SEP-2023	SB
Benzo(b)fluoranthene	20-SEP-2023	20-SEP-2023	SB

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AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290468	MW 106-S2	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Benzo(k)fluoranthene	20-SEP-2023	20-SEP-2023	SB
Benzo(a)pyrene	20-SEP-2023	20-SEP-2023	SB
Indeno(1,2,3-cd)pyrene	20-SEP-2023	20-SEP-2023	SB
Dibenz(a,h)anthracene	20-SEP-2023	20-SEP-2023	SB
Benzo(g,h,i)perylene	20-SEP-2023	20-SEP-2023	SB
1 and 2 Methlynaphthalene	20-SEP-2023	20-SEP-2023	SYS
Naphthalene-d8	20-SEP-2023	20-SEP-2023	SB
Acridine-d9	20-SEP-2023	20-SEP-2023	SB
Terphenyl-d14	20-SEP-2023	20-SEP-2023	SB
Moisture Content	18-SEP-2023	18-SEP-2023	RB

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 - C10)	18-SEP-2023	18-SEP-2023	AG
F1 (C6 to C10) minus BTEX	18-SEP-2023	18-SEP-2023	SYS
Toluene-d8	18-SEP-2023	18-SEP-2023	AG
F2 (C10 to C16)	19-SEP-2023	19-SEP-2023	CA
F2 (C10 to C16) minus Naphthalene	20-SEP-2023	20-SEP-2023	SYS
F3 (C16 to C34)	19-SEP-2023	19-SEP-2023	CA
F3 (C16 to C34) minus PAHs	20-SEP-2023	20-SEP-2023	SYS
F4 (C34 to C50)	19-SEP-2023	19-SEP-2023	CA
Gravimetric Heavy Hydrocarbons			
Moisture Content	18-SEP-2023	18-SEP-2023	RB
Terphenyl	19-SEP-2023	19-SEP-2023	CA

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	18-SEP-2023	18-SEP-2023	AG
Vinyl Chloride	18-SEP-2023	18-SEP-2023	AG
Bromomethane	18-SEP-2023	18-SEP-2023	AG
Trichlorofluoromethane	18-SEP-2023	18-SEP-2023	AG
Acetone	18-SEP-2023	18-SEP-2023	AG
1,1-Dichloroethylene	18-SEP-2023	18-SEP-2023	AG
Methylene Chloride	18-SEP-2023	18-SEP-2023	AG
Trans- 1,2-Dichloroethylene	18-SEP-2023	18-SEP-2023	AG
Methyl tert-butyl Ether	18-SEP-2023	18-SEP-2023	AG
1,1-Dichloroethane	18-SEP-2023	18-SEP-2023	AG
Methyl Ethyl Ketone	18-SEP-2023	18-SEP-2023	AG
Cis- 1,2-Dichloroethylene	18-SEP-2023	18-SEP-2023	AG

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AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290468	MW 106-S2	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 153(511) - VOCs (with PHC) (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Chloroform	18-SEP-2023	18-SEP-2023	AG
1,2-Dichloroethane	18-SEP-2023	18-SEP-2023	AG
1,1,1-Trichloroethane	18-SEP-2023	18-SEP-2023	AG
Carbon Tetrachloride	18-SEP-2023	18-SEP-2023	AG
Benzene	18-SEP-2023	18-SEP-2023	AG
1,2-Dichloropropane	18-SEP-2023	18-SEP-2023	AG
Trichloroethylene	18-SEP-2023	18-SEP-2023	AG
Bromodichloromethane	18-SEP-2023	18-SEP-2023	AG
Methyl Isobutyl Ketone	18-SEP-2023	18-SEP-2023	AG
1,1,2-Trichloroethane	18-SEP-2023	18-SEP-2023	AG
Toluene	18-SEP-2023	18-SEP-2023	AG
Dibromochloromethane	18-SEP-2023	18-SEP-2023	AG
Ethylene Dibromide	18-SEP-2023	18-SEP-2023	AG
Tetrachloroethylene	18-SEP-2023	18-SEP-2023	AG
1,1,1,2-Tetrachloroethane	18-SEP-2023	18-SEP-2023	AG
Chlorobenzene	18-SEP-2023	18-SEP-2023	AG
Ethylbenzene	18-SEP-2023	18-SEP-2023	AG
m & p-Xylene	18-SEP-2023	18-SEP-2023	AG
Bromoform	18-SEP-2023	18-SEP-2023	AG
Styrene	18-SEP-2023	18-SEP-2023	AG
1,1,2,2-Tetrachloroethane	18-SEP-2023	18-SEP-2023	AG
o-Xylene	18-SEP-2023	18-SEP-2023	AG
1,3-Dichlorobenzene	18-SEP-2023	18-SEP-2023	AG
1,4-Dichlorobenzene	18-SEP-2023	18-SEP-2023	AG
1,2-Dichlorobenzene	18-SEP-2023	18-SEP-2023	AG
Xylenes (Total)	18-SEP-2023	18-SEP-2023	SYS
1,3-Dichloropropene (Cis + Trans)	18-SEP-2023	18-SEP-2023	SYS
n-Hexane	18-SEP-2023	18-SEP-2023	AG
Toluene-d8	18-SEP-2023	18-SEP-2023	AG
4-Bromofluorobenzene	18-SEP-2023	18-SEP-2023	AG
Moisture Content	18-SEP-2023	18-SEP-2023	RB

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290469	TCLP	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 558 - Benzo(a) pyrene

Parameter	Date Prepared	Date Analyzed	Initials
Benzo(a)pyrene Leachate			
Acridine-d9			
Naphthalene-d8			

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AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290469	TCLP	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 558 - Benzo(a) pyrene

Parameter	Date Prepared	Date Analyzed	Initials
Terphenyl-d14			

O. Reg. 558 - Metals & Inorganics

Parameter	Date Prepared	Date Analyzed	Initials
Arsenic Leachate	19-SEP-2023	19-SEP-2023	SE
Barium Leachate	19-SEP-2023	19-SEP-2023	SE
Boron Leachate	19-SEP-2023	19-SEP-2023	SE
Cadmium Leachate	19-SEP-2023	19-SEP-2023	SE
Chromium Leachate	19-SEP-2023	19-SEP-2023	SE
Lead Leachate	19-SEP-2023	19-SEP-2023	SE
Mercury Leachate	19-SEP-2023	19-SEP-2023	SE
Selenium Leachate	19-SEP-2023	19-SEP-2023	SE
Silver Leachate	19-SEP-2023	19-SEP-2023	SE
Uranium Leachate	19-SEP-2023	19-SEP-2023	SE
Fluoride Leachate	19-SEP-2023	19-SEP-2023	DG
Cyanide Leachate	19-SEP-2023	19-SEP-2023	BG
(Nitrate + Nitrite) as N Leachate	19-SEP-2023	19-SEP-2023	SK

O. Reg. 558 - PCBs

Parameter	Date Prepared	Date Analyzed	Initials
PCB's Leachate	19-SEP-2023	20-SEP-2023	VDP
Decachlorobiphenyl	19-SEP-2023	20-SEP-2023	VDP

O. Reg. 558 - SVOCs

Parameter	Date Prepared	Date Analyzed	Initials
Pyridine Leachate	19-SEP-2023	20-SEP-2023	JJ
Cresols Leachate	20-SEP-2023	20-SEP-2023	SYS
o-Cresol Leachate	19-SEP-2023	20-SEP-2023	JJ
Meta & Para-Cresol Leachate	19-SEP-2023	20-SEP-2023	JJ
Hexachloroethane Leachate	19-SEP-2023	20-SEP-2023	JJ
Nitrobenzene Leachate	19-SEP-2023	20-SEP-2023	JJ
Hexachlorobutadiene Leachate	19-SEP-2023	20-SEP-2023	JJ
2,4,6-Trichlorophenol Leachate	19-SEP-2023	20-SEP-2023	JJ
2,4,5-Trichlorophenol Leachate	19-SEP-2023	20-SEP-2023	JJ
2,4-Dinitrotoluene Leachate	19-SEP-2023	20-SEP-2023	JJ
2,3,4,6-Tetrachlorophenol Leachate	19-SEP-2023	20-SEP-2023	JJ
Hexachlorobenzene Leachate	19-SEP-2023	20-SEP-2023	JJ
Dinoseb Leachate	19-SEP-2023	20-SEP-2023	JJ
Benzo(a)pyrene Leachate	19-SEP-2023	20-SEP-2023	JJ

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AGAT WORK ORDER: 23P068861

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290469	TCLP	Soil	13-SEP-2023	14-SEP-2023

O. Reg. 558 - SVOCs

Parameter	Date Prepared	Date Analyzed	Initials
Pentachlorophenol Leachate	19-SEP-2023	20-SEP-2023	JJ
2-Fluorophenol	19-SEP-2023	20-SEP-2023	JJ
Phenol-d6	19-SEP-2023	20-SEP-2023	JJ
2,4,6-Tribromophenol	19-SEP-2023	20-SEP-2023	JJ
Chrysene-d12	19-SEP-2023	20-SEP-2023	JJ

O. Reg. 558 - VOCs

Parameter	Date Prepared	Date Analyzed	Initials
Vinyl Chloride Leachate	19-SEP-2023	19-SEP-2023	MK
1,1 Dichloroethene Leachate	19-SEP-2023	19-SEP-2023	MK
Dichloromethane Leachate	19-SEP-2023	19-SEP-2023	MK
Methyl Ethyl Ketone Leachate	19-SEP-2023	19-SEP-2023	MK
Chloroform Leachate	19-SEP-2023	19-SEP-2023	MK
1,2-Dichloroethane Leachate	19-SEP-2023	19-SEP-2023	MK
Carbon Tetrachloride Leachate	19-SEP-2023	19-SEP-2023	MK
Benzene Leachate	19-SEP-2023	19-SEP-2023	MK
Trichloroethene Leachate	19-SEP-2023	19-SEP-2023	MK
Tetrachloroethene Leachate	19-SEP-2023	19-SEP-2023	MK
Chlorobenzene Leachate	19-SEP-2023	19-SEP-2023	MK
1,2-Dichlorobenzene Leachate	19-SEP-2023	19-SEP-2023	MK
1,4-Dichlorobenzene Leachate	19-SEP-2023	19-SEP-2023	MK
Toluene-d8	19-SEP-2023	19-SEP-2023	MK
4-Bromofluorobenzene	19-SEP-2023	19-SEP-2023	MK

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CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 23P068861

PROJECT: 327928

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Cyanide, WAD	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	SEGMENTED FLOW ANALYSIS
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS
Electrical Conductivity (2:1)	INOR-93-6075	modified from MSA PART 3, CH 14 and SM 2510 B	PC TITRATE
Sodium Adsorption Ratio (2:1) (Calc.)	INOR-93-6007	modified from EPA 6010D & Analytical Protocol	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6075	modified from EPA 9045D, MCKEAGUE 3.11 E3137	PC TITRATE
Arsenic Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Barium Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Boron Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Cadmium Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Chromium Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS

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CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 23P068861

PROJECT: 327928

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Lead Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Mercury Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Selenium Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Silver Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Uranium Leachate	MET-93-6103	EPA 1311 & modified from EPA 6020B	ICP-MS
Fluoride Leachate	INOR-93-6000	EPA SW 846-1311; SM 4500F-C	ION SELECTIVE ELECTRODE
Cyanide Leachate	INOR-93-6052	EPA 1311 modified from MOE 3015 SM 4500 CN-I,G387	SEGMENTED FLOW ANALYSIS
(Nitrate + Nitrite) as N Leachate	INOR-93-6053	EPA SW 846-1311 & modified from SM 4500 - NO3- I	LACHAT FIA
Sieve Analysis - 75 µm (retained)	INOR-93-6065	Modified from ASTM D1140-17	SIEVE
Sieve Analysis - 75 µm (passing)	INOR-93-6065	Modified from ASTM D1140-17	SIEVE

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AGAT WORK ORDER: 23P068861

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benz(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
1 and 2 Methlynaphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
F1 (C6 - C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 23P068861

PROJECT: 327928

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

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AGAT WORK ORDER: 23P068861

PROJECT: 327928

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
m & p-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichloropropene (Cis + Trans)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS
Benzo(a)pyrene Leachate	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
PCB's Leachate	ORG-91-5112	Regulation 558, EPA SW846 3510C/8082	GC/ECD
Decachlorobiphenyl	ORG-91-5112	EPA SW846 3510C/8082	GC/ECD
Pyridine Leachate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Cresols Leachate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	CALCULATION
o-Cresol Leachate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Meta & Para-Cresol Leachate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Hexachloroethane Leachate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Nitrobenzene Leachate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Hexachlorobutadiene Leachate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4,6-Trichlorophenol Leachate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4,5-Trichlorophenol Leachate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 23P068861

PROJECT: 327928

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
2,4-Dinitrotoluene Leachate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,3,4,6-Tetrachlorophenol Leachate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Hexachlorobenzene Leachate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Dinoseb Leachate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Benzo(a)pyrene Leachate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Pentachlorophenol Leachate	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2-Fluorophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Phenol-d6	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
2,4,6-Tribromophenol	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Chrysene-d12	ORG-91-5114	modified from EPA 3510C, 8270E & ON MOECC E3265	GC/MS
Vinyl Chloride Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
1,1 Dichloroethene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Dichloromethane Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Chloroform Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Benzene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Trichloroethene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Tetrachloroethene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Chlorobenzene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene Leachate	VOL-91-5001	EPA 1311, modified from EPA 5030C & EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

HRMS wo#

AGAT Laboratories

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Laboratory Use Only 23P069495

Work Order #: 23P068861

Cooler Quantity: 1 large

Arrival Temperatures: 6.6 | 6.9 | 6.2
5-1 | 5-0 | 5-2

Custody Seal Intact: ☐ Yes ☐ No ☒ N/A

Notes: ice (bagged)

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Pinchin Ltd.
Contact:
Address: 1456 Centennial Drive, Suite 2
Kingston ON K7L 0K4
Phone: 613.541.1013 Fax:
Reports to be sent to:
1. Email: jmccann@pinchin.com
2. Email:

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04
Table ____ (Indicate One)
☐ Ind/Com
☐ Res/Park
☐ Agriculture
Soil Texture (Check One)
☐ Coarse
☐ Fine

☐ Excess Soils R406
Table ____ (Indicate One)
☐ Regulation 558
☐ CCME

☐ Sewer Use
☐ Sanitary ☐ Storm
____ (Region)
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
____ (Indicate One)

Is this submission for a **Record of Site Condition?** ☐ Yes ☒ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☒ Next Business Day

OR Date Required (Rush Surcharges May Apply):

☒ ** 4 DAY TAT **

Please provide prior notification for rush TAT

*TAT is exclusive of weekends and statutory holidays

For 'Same Day' analysis, please contact your AGAT CPM

Project Information:

Project: 327928
Site Location:
Sampled By:
AGAT Quote #: SD PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☑ No ☐

Company: Pinchin Ltd.
Contact:
Address:
Email: ap@pinchin.com

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	BTEX, F1-F4 PHCs	Analyze F4G if required ☐ Yes ☐ No	PAHs	PCBs	VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	pH	Texture/Grain	PFAS					Potentially Hazardous or High Concentration (Y/N)
MW101-S1	9/13/23	930 AM/PM	2	S	limited SAMPLES		X											X							
MW101-S2	↓	930 AM/PM	2	S	↓				X	X		X													
BH102-S1		1145 AM/PM	1	S			X																		
BH102-S2		1145 AM/PM	2	S					X	X		X													
BH103-S1		1245 AM/PM	3	S			X		X	X		X													
BH104-AS1		1220 AM/PM	2	S			X												X						
BH104-S2		1220 AM/PM	2	S					X	X		X						X							
BH105-AS1		1240 AM/PM	2	S			X												X						
BH105-S2	↓	1240 AM/PM	1	S	↓															X					
BH105-S3	9/13/23	1240 AM/PM	2	S	limited sample				X	X		X													
See next Pg.		AM/PM																							

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
J. McCann	9/13/23	7:45PM	Karly Jones	Sept 14/23	8am
	Sept 14/23	1600		Sept 15	8:45A

Page 1 of 2

N°:

AGAT Laboratories

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Laboratory Use Only HRMS Wott. 23P669495
Work Order #: 23P068861

Cooler Quantity:
Arrival Temperatures: 6.6 | 6.9 | 6.2
5-1 | 5.0 | 5.2
Custody Seal Intact: ☐ Yes ☐ No ☒ N/A
Notes: ice

Report Information:
Company: Pinchin Ltd.
Contact:
Address: 1456 Centennial Drive, Suite 2
Kingston ON K7L 0K4
Phone: 613.541.1013 Fax:
Reports to be sent to:
1. Email: jmccann@pinchin.com
2. Email:

Regulatory Requirements:
(Please check all applicable boxes)

☒ Regulation 153/04
Table ____ (Indicate One)
☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (Check One) ☐ Coarse ☐ Fine

☐ Excess Soils R406
Table ____ (Indicate One)
☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
____ (Region)
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
____ (Indicate One)

Is this submission for a **Record of Site Condition?** ☐ Yes ☒ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Turnaround Time (TAT) Required:
Regular TAT ☐ 5 to 7 Business Days
Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day
OR Date Required (Rush Surcharges May Apply):
☒ 4 DAY TAT **
Please provide prior notification for rush TAT
*TAT is exclusive of weekends and statutory holidays
For 'Same Day' analysis, please contact your AGAT CPM

Project Information:
Project: 327928.
Site Location:
Sampled By:
AGAT Quote #: SO PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:
Bill To Same: Yes ☑ No ☐
Company: Pinchin Ltd.
Contact:
Address:
Email: ap@pinchin.com

Sample Matrix Legend
B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	BTEX, F1-F4 PHCs	Analyze F4G if required ☐ Yes ☐ No	PAHs	PCBs	VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ AcidP ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	Potentially Hazardous or High Concentration (Y/N)
MW106-S2	9/13/23	1355 AM/PM	3	S	limited sample		X		X	X		X						
TCLP	9/13/23	300 AM/PM	4	S	limited SAMPLE								X					
		AM/PM																
		AM/PM																
		AM/PM																
		AM/PM																
		AM/PM																
		AM/PM																
		AM/PM																
		AM/PM																
		AM/PM																

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
			Kamy Jones	Sept 14/23	8am
	Sept 14/23	1600	TK	Sept 15	8:45AM

Page 2 of 2
N°:

9770 ROUTE TRANSCANADIENNE
ST. LAURENT, QUEBEC
CANADA H4S 1V9
TEL (514)337-1000
FAX (514)333-3046
http://www.agatlabs.com

CLIENT NAME: PINCHIN LTD.
1456 Centennial Drive, Unit 2
KINGSTON, ON K7P 0K4
(613) 541-1013
ATTENTION TO: Jeanette McCann
PROJECT: 327928
AGAT WORK ORDER: 23P069495
ULTRA TRACE REVIEWED BY: Amar Bellahsene, Chimiste, AGAT Montréal
DATE REPORTED: Sep 25, 2023
PAGES (INCLUDING COVER): 9
VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (514) 337-1000

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
- *AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.*
- *This Certificate shall not be reproduced except in full, without the written approval of the laboratory.*
- *The test results reported herewith relate only to the samples as received by the laboratory.*
- *Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.*
- *All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.*
- *For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.*

AGAT Laboratories

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ST. LAURENT, QUEBEC
CANADA H4S 1V9
TEL (514)337-1000
FAX (514)333-3046
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 23P069495

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

Perfluorinated Compounds (soil)

DATE RECEIVED: 2023-09-14

DATE REPORTED: 2023-09-25

		SAMPLE DESCRIPTION:		BH 105-S2
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		2023-09-13 00:40
Parameter	Unit	G / S	RDL	5290224
Perfluorobutanoic acid (PFBA)	µg/kg		0.5	<0.5
Perfluoropentanoic acid (PFPeA)	µg/kg		0.2	<0.2
Perfluorohexanoic acid (PFHxA)	µg/kg		0.1	0.1
Perfluoroheptanoic acid (PFHpA)	µg/kg		0.1	<0.1
Perfluorooctanoic acid (PFOA)	µg/kg		0.1	0.2
Perfluorononanoic acid (PFNA)	µg/kg		0.1	<0.1
Perfluorodecanoic acid (PFDA)	µg/kg		0.1	<0.1
Perfluoroundecanoic acid (PFUnA)	µg/kg		0.1	<0.1
Perfluorododecanoic acid (PFDoA)	µg/kg		0.1	<0.1
Perfluorotridecanoic acid (PFTrDA)	µg/kg		0.1	<0.1
Perfluorotetradecanoic acid (PFTeDA)	µg/kg		0.1	<0.1
Perfluorobutanesulfonic acid (PFBS)	µg/kg		0.1	<0.1
Perfluorohexanesulfonic acid (PFHxS)	µg/kg		0.1	<0.1
Perfluoroheptanesulfonic acid (PFHpS)	µg/kg		0.1	<0.1
Perfluorooctanesulfonic acid (PFOS)	µg/kg		0.1	0.5
Perfluorodecanesulfonic acid (PFDS)	µg/kg		0.1	<0.1
Perfluorooctanesulfonamide (PFOSA)	µg/kg		0.1	<0.1
N-methyl perfluorooctanesulfonamidoac. (NMeFOSAA)	µg/kg		0.1	<0.1
N-ethyl perfluorooctanesulfonamidoac. (NEtFOSAA)	µg/kg		0.1	<0.1

Certified By:

AGAT Laboratories

9770 ROUTE TRANSCANADIENNE
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CANADA H4S 1V9
TEL (514)337-1000
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Certificate of Analysis

AGAT WORK ORDER: 23P069495

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

Perfluorinated Compounds (soil)

DATE RECEIVED: 2023-09-14

DATE REPORTED: 2023-09-25

		SAMPLE DESCRIPTION:	BH 105-S2
		SAMPLE TYPE:	Soil
		DATE SAMPLED:	2023-09-13 00:40
Surrogate	**Unit**	**Acceptable Limits**	**5290224**
13C4-PFBA	%	10-140	60
13C5-PFPeA	%	30-140	75
13C5-PFHxA	%	30-140	68
13C4-PFHpA	%	30-140	63
13C8-PFOA	%	30-140	71
13C9-PFNA	%	30-140	70
13C6-PFDA	%	30-140	68
13C7-PFUnDA	%	30-140	70
13C2-PFDoA	%	30-140	64
13C2-PFTeDA	%	20-140	65
13C3-PFBS	%	30-140	79
13C3-PFHxS	%	30-140	66
13C8-PFOS	%	30-140	68
13C8-PFOSA	%	30-140	65
D3-NMeFOSAA	%	30-140	76
D5-NEtFOSAA	%	30-140	69

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

5290224 Results are corrected with surrogate recoveries.

Analysis performed at AGAT Montréal (unless marked by *)

Certified By:

AGAT Laboratories

9770 ROUTE TRANSCANADIENNE
ST. LAURENT, QUEBEC
CANADA H4S 1V9
TEL (514)337-1000
FAX (514)333-3046
http://www.agatlabs.com

Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 23P069495

PROJECT: 327928

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

Ultra Trace Analysis

RPT Date: Sep 25, 2023			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Perfluorinated Compounds (soil)															
Perfluorobutanoic acid (PFBA)	1	NA	NA	NA	NA	< 0.5	NA	60%	140%	122%	60%	140%	NA	60%	140%
Perfluoropentanoic acid (PFPeA)	1	NA	NA	NA	NA	< 0.2	NA	60%	140%	102%	60%	140%	NA	60%	140%
Perfluorohexanoic acid (PFHxA)	1	NA	NA	NA	NA	< 0.1	NA	60%	140%	96%	60%	140%	NA	60%	140%
Perfluoroheptanoic acid (PFHpA)	1	NA	NA	NA	NA	< 0.1	NA	60%	140%	95%	60%	140%	NA	60%	140%
Perfluorooctanoic acid (PFOA)	1	NA	NA	NA	NA	< 0.1	NA	60%	140%	95%	60%	140%	NA	60%	140%
Perfluorononanoic acid (PFNA)	1	NA	NA	NA	NA	< 0.1	NA	60%	140%	99%	60%	140%	NA	60%	140%
Perfluorodecanoic acid (PFDA)	1	NA	NA	NA	NA	< 0.1	NA	60%	140%	94%	60%	140%	NA	60%	140%
Perfluoroundecanoic acid (PFUnA)	1	NA	NA	NA	NA	< 0.1	NA	60%	140%	97%	60%	140%	NA	60%	140%
Perfluorododecanoic acid (PFDoA)	1	NA	NA	NA	NA	< 0.1	NA	60%	140%	98%	60%	140%	NA	60%	140%
Perfluorotridecanoic acid (PFTrDA)	1	NA	NA	NA	NA	< 0.1	NA	60%	140%	103%	60%	140%	NA	60%	140%
Perfluorotetradecanoic acid (PFTeDA)	1	NA	NA	NA	NA	< 0.1	NA	60%	140%	98%	60%	140%	NA	60%	140%
Perfluorobutanesulfonic acid (PFBS)	1	NA	NA	NA	NA	< 0.1	NA	60%	140%	97%	60%	140%	NA	60%	140%
Perfluorohexanesulfonic acid (PFHxS)	1	NA	NA	NA	NA	< 0.1	NA	60%	140%	101%	60%	140%	NA	60%	140%
Perfluoroheptanesulfonic acid (PFHpS)	1	NA	NA	NA	NA	< 0.1	NA	60%	140%	106%	60%	140%	NA	60%	140%
Perfluorooctanesulfonic acid (PFOS)	1	NA	NA	NA	NA	< 0.1	NA	60%	140%	99%	60%	140%	NA	60%	140%
Perfluorodecanesulfonic acid (PFDS)	1	NA	NA	NA	NA	< 0.1	NA	60%	140%	101%	60%	140%	NA	60%	140%
Perfluorooctanesulfonamide (PFOSA)	1	NA	NA	NA	NA	< 0.1	NA	60%	140%	97%	60%	140%	NA	60%	140%
N-methyl perfluorooctanesulfonamidoac. (NMeFOSAA)	1	NA	NA	NA	NA	< 0.1	NA	60%	140%	103%	60%	140%	NA	60%	140%
N-ethyl perfluorooctanesulfonamidoac. (NEtFOSAA)	1	NA	NA	NA	NA	< 0.1	NA	60%	140%	96%	60%	140%	NA	60%	140%
13C4-PFBA	1	NA	NA	NA	0.0%	87	NA	10%	140%	65%	10%	140%	NA	10%	140%
13C5-PFPeA	1	NA	NA	NA	0.0%	83	NA	30%	140%	86%	30%	140%	NA	30%	140%
13C5-PFHxA	1	NA	NA	NA	0.0%	79	NA	30%	140%	76%	30%	140%	NA	30%	140%
13C4-PFHpA	1	NA	NA	NA	0.0%	77	NA	30%	140%	74%	30%	140%	NA	30%	140%
13C8-PFOA	1	NA	NA	NA	0.0%	86	NA	30%	140%	80%	30%	140%	NA	30%	140%
13C9-PFNA	1	NA	NA	NA	0.0%	80	NA	30%	140%	77%	30%	140%	NA	30%	140%
13C6-PFDA	1	NA	NA	NA	0.0%	86	NA	30%	140%	78%	30%	140%	NA	30%	140%
13C7-PFUnDA	1	NA	NA	NA	0.0%	86	NA	30%	140%	80%	30%	140%	NA	30%	140%
13C2-PFDoA	1	NA	NA	NA	0.0%	83	NA	30%	140%	78%	30%	140%	NA	30%	140%
13C2-PFTeDA	1	NA	NA	NA	0.0%	80	NA	20%	140%	74%	20%	140%	NA	20%	140%
13C3-PFBS	1	NA	NA	NA	0.0%	87	NA	30%	140%	80%	30%	140%	NA	30%	140%
13C3-PFHxS	1	NA	NA	NA	0.0%	82	NA	30%	140%	73%	30%	140%	NA	30%	140%
13C8-PFOS	1	NA	NA	NA	0.0%	78	NA	30%	140%	74%	30%	140%	NA	30%	140%

AGAT Laboratories

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CANADA H4S 1V9
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FAX (514)333-3046
http://www.agatlabs.com

Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 23P069495

PROJECT: 327928

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

Ultra Trace Analysis (Continued)

RPT Date: Sep 25, 2023			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
13C8-PFOSA	1	NA	NA	NA	0.0%	81	NA	30%	140%	75%	30%	140%	NA	30%	140%
D3-NMeFOSAA	1	NA	NA	NA	0.0%	92	NA	30%	140%	85%	30%	140%	NA	30%	140%
D5-NEtFOSAA	1	NA	NA	NA	0.0%	85	NA	30%	140%	81%	30%	140%	NA	30%	140%

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Certified By:

CHIMISTE
Amar Bellahsene
2011-214
QUEBEC

AGAT Laboratories

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Time Markers

AGAT WORK ORDER: 23P069495

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5290224	BH 105-S2	Soil	13-SEP-2023	14-SEP-2023

Perfluorinated Compounds (soil)

Parameter	Date Prepared	Date Analyzed	Initials
Perfluorobutanoic acid (PFBA)	20-SEP-2023	21-SEP-2023	ESP
Perfluoropentanoic acid (PFPeA)	20-SEP-2023	21-SEP-2023	ESP
Perfluorohexanoic acid (PFHxA)	20-SEP-2023	21-SEP-2023	ESP
Perfluoroheptanoic acid (PFHpA)	20-SEP-2023	21-SEP-2023	ESP
Perfluorooctanoic acid (PFOA)	20-SEP-2023	21-SEP-2023	ESP
Perfluorononanoic acid (PFNA)	20-SEP-2023	21-SEP-2023	ESP
Perfluorodecanoic acid (PFDA)	20-SEP-2023	21-SEP-2023	ESP
Perfluoroundecanoic acid (PFUnA)	20-SEP-2023	21-SEP-2023	ESP
Perfluorododecanoic acid (PFDoA)	20-SEP-2023	21-SEP-2023	ESP
Perfluorotridecanoic acid (PFTrDA)	20-SEP-2023	21-SEP-2023	ESP
Perfluorotetradecanoic acid (PFTeDA)	20-SEP-2023	21-SEP-2023	ESP
Perfluorobutanesulfonic acid (PFBS)	20-SEP-2023	21-SEP-2023	ESP
Perfluorohexanesulfonic acid (PFHxS)	20-SEP-2023	21-SEP-2023	ESP
Perfluoroheptanesulfonic acid (PFHpS)	20-SEP-2023	21-SEP-2023	ESP
Perfluorooctanesulfonic acid (PFOS)	20-SEP-2023	21-SEP-2023	ESP
Perfluorodecanesulfonic acid (PFDS)	20-SEP-2023	21-SEP-2023	ESP
Perfluorooctanesulfonamide (PFOSA)	20-SEP-2023	21-SEP-2023	ESP
N-methyl perfluorooctanesulfonamidoac. (NMeFOSAA)	20-SEP-2023	21-SEP-2023	ESP
N-ethyl perfluorooctanesulfonamidoac. (NEtFOSAA)	20-SEP-2023	21-SEP-2023	ESP
13C4-PFBA	20-SEP-2023	21-SEP-2023	ESP
13C5-PFPeA	20-SEP-2023	21-SEP-2023	ESP
13C5-PFHxA	20-SEP-2023	21-SEP-2023	ESP
13C4-PFHpA	20-SEP-2023	21-SEP-2023	ESP
13C8-PFOA	20-SEP-2023	21-SEP-2023	ESP
13C9-PFNA	20-SEP-2023	21-SEP-2023	ESP
13C6-PFDA	20-SEP-2023	21-SEP-2023	ESP
13C7-PFUnDA	20-SEP-2023	21-SEP-2023	ESP
13C2-PFDoA	20-SEP-2023	21-SEP-2023	ESP
13C2-PFTeDA	20-SEP-2023	21-SEP-2023	ESP
13C3-PFBS	20-SEP-2023	21-SEP-2023	ESP
13C3-PFHxS	20-SEP-2023	21-SEP-2023	ESP
13C8-PFOS	20-SEP-2023	21-SEP-2023	ESP
13C8-PFOSA	20-SEP-2023	21-SEP-2023	ESP
D3-NMeFOSAA	20-SEP-2023	21-SEP-2023	ESP
D5-NEtFOSAA	20-SEP-2023	21-SEP-2023	ESP

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 23P069495

PROJECT: 327928

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Ultra Trace Analysis			
Perfluorobutanoic acid (PFBA)	TOX-151-19012F	EPA 1633	LC/MS/MS
Perfluoropentanoic acid (PFPeA)	TOX-151-19012F	EPA 1633	LC/MS/MS
Perfluorohexanoic acid (PFHxA)	TOX-151-19012F	EPA 1633	LC/MS/MS
Perfluoroheptanoic acid (PFHpA)	TOX-151-19012F	EPA 1633	LC/MS/MS
Perfluorooctanoic acid (PFOA)	TOX-151-19012F	EPA 1633	LC/MS/MS
Perfluorononanoic acid (PFNA)	TOX-151-19012F	EPA 1633	LC/MS/MS
Perfluorodecanoic acid (PFDA)	TOX-151-19012F	EPA 1633	LC/MS/MS
Perfluoroundecanoic acid (PFUnA)	TOX-151-19012F	EPA 1633	LC/MS/MS
Perfluorododecanoic acid (PFDoA)	TOX-151-19012F	EPA 1633	LC/MS/MS
Perfluorotridecanoic acid (PFTrDA)	TOX-151-19012F	EPA 1633	LC/MS/MS
Perfluorotetradecanoic acid (PFTeDA)	TOX-151-19012F	EPA 1633	LC/MS/MS
Perfluorobutanesulfonic acid (PFBS)	TOX-151-19012F	EPA 1633	LC/MS/MS
Perfluorohexanesulfonic acid (PFHxS)	TOX-151-19012F	EPA 1633	LC/MS/MS
Perfluoroheptanesulfonic acid (PFHpS)	TOX-151-19012F	EPA 1633	LC/MS/MS
Perfluorooctanesulfonic acid (PFOS)	TOX-151-19012F	EPA 1633	LC/MS/MS
Perfluorodecanesulfonic acid (PFDS)	TOX-151-19012F	EPA 1633	LC/MS/MS
Perfluorooctanesulfonamide (PFOSA)	TOX-151-19012F	EPA 1633	LC/MS/MS
N-methyl perfluorooctanesulfonamidoac. (NMeFOSAA)	TOX-151-19012F	EPA 1633	LC/MS/MS
N-ethyl perfluorooctanesulfonamidoac. (NEtFOSAA)	TOX-151-19012F	EPA 1633	LC/MS/MS
13C4-PFBA	TOX-151-19012F	EPA 1633	LC/MS/MS
13C5-PFPeA	TOX-151-19012F	EPA 1633	LC/MS/MS
13C5-PFHxA	TOX-151-19012F	EPA 1633	LC/MS/MS
13C4-PFHpA	TOX-151-19012F	EPA 1633	LC/MS/MS
13C8-PFOA	TOX-151-19012F	EPA 1633	LC/MS/MS
13C9-PFNA	TOX-151-19012F	EPA 1633	LC/MS/MS
13C6-PFDA	TOX-151-19012F	EPA 1633	LC/MS/MS
13C7-PFUnDA	TOX-151-19012F	EPA 1633	LC/MS/MS
13C2-PFDoA	TOX-151-19012F	EPA 1633	LC/MS/MS
13C2-PFTeDA	TOX-151-19012F	EPA 1633	LC/MS/MS
13C3-PFBS	TOX-151-19012F	EPA 1633	LC/MS/MS
13C3-PFHxS	TOX-151-19012F	EPA 1633	LC/MS/MS
13C8-PFOS	TOX-151-19012F	EPA 1633	LC/MS/MS
13C8-PFOSA	TOX-151-19012F	EPA 1633	LC/MS/MS
D3-NMeFOSAA	TOX-151-19012F	EPA 1633	LC/MS/MS
D5-NEtFOSAA	TOX-151-19012F	EPA 1633	LC/MS/MS

HRMS WO#

AGAT Laboratories

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Laboratory Use Only 23P069495

Work Order #: 23P068861

Cooler Quantity: 1 large

Arrival Temperatures: 6.6 | 6.9 | 6.2
5.1 | 5.0 | 5.2

Custody Seal Intact: ☐ Yes ☐ No ☑ N/A

Notes: ice (bagged)

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Pinchin Ltd.
Contact:
Address: 1456 Centennial Drive, Suite 2
Kingston ON K7L 0K4
Phone: 613.541.1013 Fax:
Reports to be sent to:
1. Email: mccann@pinchin.com
2. Email:

Regulatory Requirements:

(Please check all applicable boxes)

☑ Regulation 153/04
Table (Indicate One) ☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (Check One) ☐ Coarse ☐ Fine

☐ Excess Soils R406
Table (Indicate One)
☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
(Region)
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
(Indicate One)

Is this submission for a **Record of Site Condition?** ☐ Yes ☒ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☑ Next Business Day

OR Date Required (Rush Surcharges May Apply):

☑ 4 DAY TAT **

Please provide prior notification for rush TAT
*TAT is exclusive of weekends and statutory holidays

For 'Same Day' analysis, please contact your AGAT CPM

Project Information:

Project: 327928
Site Location:
Sampled By:
AGAT Quote #: S.O. PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☑ No ☐

Company: Pinchin Ltd.
Contact:
Address:
Email: ap@pinchin.com

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	O. Reg 153: Analyze F4G if required ☐ Yes ☐ No	O. Reg 153: PAHs	O. Reg 153: PCBs	O. Reg 153: VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach ☐ Metals ☐ VOCs ☐ SVOCs	O. Reg 406: Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	pH	Texture/Grain	PFAS					Potentially Hazardous or High Concentration (Y/N)
MW101-S1	9/13/23	930 AM/PM	2	S	limited SAMPLES		X											X							
MW101-S2	"	930 AM/PM	2	S	"				X	X		X													
BH102-S1		1145 AM/PM	1	S			X																		
BH102-S2		1145 AM/PM	2	S					X	X		X													
BH103-S1		1245 AM/PM	3	S			X		X	X		X													
BH104-AS1		1220 AM/PM	2	S			X												X						
BH104-S2		1220 AM/PM	2	S					X	X		X						X							
BH105-AS1		1240 AM/PM	2	S			X												X						
BH105-S2		1240 AM/PM	1	S																X					
BH105-S3	9/13/23	1240 AM/PM	2	S	limited sample				X	X		X													
See next pg.		AM/PM																							

Samples Relinquished By (Print Name and Sign)	Date	Time	Samples Received By (Print Name and Sign)	Date	Time
J. McCann	9/13/23	4 SAM	Karla Jones	Sept 14/23	8am
	Sept 14/23	1600		Sept 15	8:45 AM

Page 1 of 2

N°:

HRMS WO#

AGAT Laboratories

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Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Laboratory Use Only 23P069495

Work Order #: 23P068861

Cooler Quantity: 1

Arrival Temperatures: 6.6 | 6.9 | 6.2
5.1 | 5.0 | 5.2

Custody Seal Intact: ☐ Yes ☐ No ☒ N/A

Notes: ice

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Pinchin Ltd.
Contact:
Address: 1456 Centennial Drive, Suite 2
Kingston ON K7L 0K4
Phone: 613.541.1013 Fax:
Reports to be sent to:
1. Email: jmccann@pinchin.com
2. Email:

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04
Table ____ *Indicate One*
☐ Ind/Com
☐ Res/Park
☐ Agriculture
Soil Texture *(Check One)*
☐ Coarse
☐ Fine

☐ Excess Soils R406
Table ____ *Indicate One*
☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
____ *Region*
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
____ *Indicate One*

Is this submission for a **Record of Site Condition?** ☐ Yes ☒ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

☒ 4 DAY TAT **

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CPM

Project Information:

Project: 327928.
Site Location:
Sampled By:
AGAT Quote #: SO PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☑ No ☐

Company: Pinchin Ltd.
Contact:
Address:
Email: ap@pinchin.com

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs, Analyze F4G if required ☐ Yes ☐ No	O. Reg 153: PAHs	O. Reg 153: PCBs	O. Reg 153: VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ AbaP ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	O. Reg 406: Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	Potentially Hazardous or High Concentration (Y/N)
MW 106-S2	9/13/23	1:35 PM	3	S	limited sample		X		X	X		X					
TCLP	9/13/23	3:00 PM	4	S	limited sample.								X				
		AM PM															
		AM PM															
		AM PM															
		AM PM															
		AM PM															
		AM PM															
		AM PM															
		AM PM															
		AM PM															

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
			Kary Jones	Sept 14/23	8am
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
	Sept 14/23	16:00	TR	Sept 15	8:45A
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 2 of 2

N°:

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CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

CLIENT NAME: PINCHIN LTD.
1456 Centennial Drive, Unit 2
KINGSTON, ON K7P 0K4
(613) 541-1013
ATTENTION TO: Jeanette McCann
PROJECT: 327928-C
AGAT WORK ORDER: 23P075643
TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist
WATER ANALYSIS REVIEWED BY: Yris Verastegui, Report Reviewer
DATE REPORTED: Oct 06, 2023
PAGES (INCLUDING COVER): 17
VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
- *AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.*
- *This Certificate shall not be reproduced except in full, without the written approval of the laboratory.*
- *The test results reported herewith relate only to the samples as received by the laboratory.*
- *Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.*
- *All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.*
- *For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.*

AGAT Laboratories

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CANADA L4Z 1Y2
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FAX (905)712-5122
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 23P075643

PROJECT: 327928-C

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PAHs (Water)

DATE RECEIVED: 2023-09-29

DATE REPORTED: 2023-10-06

		SAMPLE DESCRIPTION:		**MW1-C**
		SAMPLE TYPE:		**Water**
		DATE SAMPLED:		**2023-09-29 14:45**
Parameter	**Unit**	**G / S**	**RDL**	**5334270**
Naphthalene	µg/L		0.20	<0.20
Acenaphthylene	µg/L		0.20	<0.20
Acenaphthene	µg/L		0.20	<0.20
Fluorene	µg/L		0.20	<0.20
Phenanthrene	µg/L		0.10	<0.10
Anthracene	µg/L		0.10	<0.10
Fluoranthene	µg/L		0.20	<0.20
Pyrene	µg/L		0.20	<0.20
Benzo(a)anthracene	µg/L		0.20	<0.20
Chrysene	µg/L		0.10	<0.10
Benzo(b)fluoranthene	µg/L		0.10	<0.10
Benzo(k)fluoranthene	µg/L		0.10	<0.10
Benzo(a)pyrene	µg/L		0.01	<0.01
Indeno(1,2,3-cd)pyrene	µg/L		0.20	<0.20
Dibenz(a,h)anthracene	µg/L		0.20	<0.20
Benzo(g,h,i)perylene	µg/L		0.20	<0.20
2-and 1-methyl Naphthalene	µg/L		0.20	<0.20
Sediment				1
Surrogate	**Unit**	**Acceptable Limits**		
Naphthalene-d8	%	50-140		107
Acridine-d9	%	50-140		64
Terphenyl-d14	%	50-140		71

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

5334270 Sediment parameter is comment only based on visual inspection of the sample prior to extraction and is not an accredited test.
Legend: 1 = no sediment present; 2 = sediment present; 3 = sediment present in trace amount
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&(j)Fluoranthene isomers because the isomers co-elute on the GC column.
2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popnikolof

AGAT Laboratories

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MISSISSAUGA, ONTARIO
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Certificate of Analysis

AGAT WORK ORDER: 23P075643

PROJECT: 327928-C

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Water)

DATE RECEIVED: 2023-09-29

DATE REPORTED: 2023-10-06

		SAMPLE DESCRIPTION:		MW1-C
		SAMPLE TYPE:		Water
		DATE SAMPLED:		2023-09-29 14:45
Parameter	**Unit**	**G / S**	**RDL**	**5334270**
F1 (C6-C10)	µg/L		25	<50
F1 (C6 to C10) minus BTEX	µg/L		25	<25
F2 (C10 to C16)	µg/L		100	<100
F2 (C10 to C16) minus Naphthalene	µg/L		100	<100
F3 (C16 to C34)	µg/L		100	<100
F3 (C16 to C34) minus PAHs	µg/L		100	<100
F4 (C34 to C50)	µg/L		100	<100
Gravimetric Heavy Hydrocarbons	µg/L		500	NA
Sediment				1
Surrogate	**Unit**	**Acceptable Limits**		
Toluene-d8	%	50-140		105
Terphenyl	% Recovery	60-140		65

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

5334270 The C6-C10 fraction is calculated using toluene response factor.
C6–C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
C>10 – C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.
C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Sediment parameter is comment only based on visual inspection of the sample prior to extraction and is not an accredited test.
Legend: 1 = no sediment present; 2 = sediment present; 3 = sediment present in trace amounts

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: NPopnikolof

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 23P075643

PROJECT: 327928-C

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (with PHC) (Water)

DATE RECEIVED: 2023-09-29

DATE REPORTED: 2023-10-06

		SAMPLE DESCRIPTION:		MW1-C
		SAMPLE TYPE:		Water
		DATE SAMPLED:		2023-09-29 14:45
Parameter	Unit	G / S	RDL	5334270
Dichlorodifluoromethane	µg/L		0.80	<0.80
Vinyl Chloride	µg/L		0.34	<0.34
Bromomethane	µg/L		0.40	<0.40
Trichlorofluoromethane	µg/L		0.80	<0.80
Acetone	µg/L		2.0	<2.0
1,1-Dichloroethylene	µg/L		0.60	<0.60
Methylene Chloride	µg/L		0.60	<0.60
trans- 1,2-Dichloroethylene	µg/L		0.40	<0.40
Methyl tert-butyl ether	µg/L		0.40	<0.40
1,1-Dichloroethane	µg/L		0.60	<0.60
Methyl Ethyl Ketone	µg/L		2.0	<2.0
cis- 1,2-Dichloroethylene	µg/L		0.40	<0.40
Chloroform	µg/L		0.40	<0.40
1,2-Dichloroethane	µg/L		0.40	<0.40
1,1,1-Trichloroethane	µg/L		0.60	<0.60
Carbon Tetrachloride	µg/L		0.40	<0.40
Benzene	µg/L		0.40	<0.40
1,2-Dichloropropane	µg/L		0.40	<0.40
Trichloroethylene	µg/L		0.40	<0.40
Bromodichloromethane	µg/L		0.40	<0.40
Methyl Isobutyl Ketone	µg/L		2.0	<2.0
1,1,2-Trichloroethane	µg/L		0.40	<0.40
Toluene	µg/L		0.40	<0.40
Dibromochloromethane	µg/L		0.20	<0.20
Ethylene Dibromide	µg/L		0.20	<0.20
Tetrachloroethylene	µg/L		0.40	<0.40
1,1,1,2-Tetrachloroethane	µg/L		0.20	<0.20
Chlorobenzene	µg/L		0.20	<0.20
Ethylbenzene	µg/L		0.20	<0.20

Certified By: N Popnikolof

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Certificate of Analysis

AGAT WORK ORDER: 23P075643

PROJECT: 327928-C

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (with PHC) (Water)

DATE RECEIVED: 2023-09-29

DATE REPORTED: 2023-10-06

				SAMPLE DESCRIPTION:	MW1-C
				SAMPLE TYPE:	Water
				DATE SAMPLED:	2023-09-29 14:45
Parameter	**Unit**	**G / S**	**RDL**	**5334270**	
m & p-Xylene	µg/L		0.40	<0.40	
Bromoform	µg/L		0.20	<0.20	
Styrene	µg/L		0.20	<0.20	
1,1,2,2-Tetrachloroethane	µg/L		0.20	<0.20	
o-Xylene	µg/L		0.20	<0.20	
1,3-Dichlorobenzene	µg/L		0.20	<0.20	
1,4-Dichlorobenzene	µg/L		0.20	<0.20	
1,2-Dichlorobenzene	µg/L		0.20	<0.20	
1,3-Dichloropropene	µg/L		0.30	<0.30	
Xylenes (Total)	µg/L		0.20	<0.20	
n-Hexane	µg/L		0.40	<0.40	
Surrogate	**Unit**	**Acceptable Limits**			
Toluene-d8	% Recovery	50-140		105	
4-Bromofluorobenzene	% Recovery	50-140		74	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

5334270 Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: N Popowich

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 23P075643

PROJECT: 327928-C

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Metals (Including Hydrides) (Water)

DATE RECEIVED: 2023-09-29

DATE REPORTED: 2023-10-06

		SAMPLE DESCRIPTION:		MW1-C
		SAMPLE TYPE:		Water
		DATE SAMPLED:		2023-09-29 14:45
Parameter	**Unit**	**G / S**	**RDL**	**5334270**
Dissolved Antimony	µg/L		1.0	2.1
Dissolved Arsenic	µg/L		1.0	4.6
Dissolved Barium	µg/L		10.0	2070
Dissolved Beryllium	µg/L		0.50	<0.50
Dissolved Boron	µg/L		10.0	930
Dissolved Cadmium	µg/L		0.20	<0.20
Dissolved Chromium	µg/L		2.0	<2.0
Dissolved Cobalt	µg/L		0.50	1.37
Dissolved Copper	µg/L		1.0	1.1
Dissolved Lead	µg/L		0.50	<0.50
Dissolved Molybdenum	µg/L		0.50	86.8
Dissolved Nickel	µg/L		1.0	4.1
Dissolved Selenium	µg/L		1.0	10.8
Dissolved Silver	µg/L		0.20	<0.20
Dissolved Thallium	µg/L		0.30	<0.30
Dissolved Uranium	µg/L		0.50	36.4
Dissolved Vanadium	µg/L		0.40	3.17
Dissolved Zinc	µg/L		5.0	6.7

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

5334270 Metals analysis completed on a filtered sample.
Dilution required, RDL has been increased accordingly.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By: Iris Verástegui

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Quality Assurance

CLIENT NAME: PINCHIN LTD.
AGAT WORK ORDER: 23P075643
PROJECT: 327928-C
ATTENTION TO: Jeanette McCann
SAMPLING SITE:
SAMPLED BY:

Trace Organics Analysis

RPT Date: Oct 06, 2023			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PAHs (Water)															
Naphthalene	5340647		<0.20	<0.20	NA	< 0.20	87%	50%	140%	78%	50%	140%	114%	50%	140%
Acenaphthylene	5340647		<0.20	<0.20	NA	< 0.20	103%	50%	140%	69%	50%	140%	104%	50%	140%
Acenaphthene	5340647		<0.20	<0.20	NA	< 0.20	121%	50%	140%	111%	50%	140%	121%	50%	140%
Fluorene	5340647		<0.20	<0.20	NA	< 0.20	107%	50%	140%	105%	50%	140%	112%	50%	140%
Phenanthrene	5340647		<0.10	<0.10	NA	< 0.10	114%	50%	140%	107%	50%	140%	117%	50%	140%
Anthracene	5340647		<0.10	<0.10	NA	< 0.10	112%	50%	140%	105%	50%	140%	117%	50%	140%
Fluoranthene	5340647		<0.20	<0.20	NA	< 0.20	111%	50%	140%	103%	50%	140%	114%	50%	140%
Pyrene	5340647		<0.20	<0.20	NA	< 0.20	105%	50%	140%	102%	50%	140%	117%	50%	140%
Benzo(a)anthracene	5340647		<0.20	<0.20	NA	< 0.20	73%	50%	140%	79%	50%	140%	95%	50%	140%
Chrysene	5340647		<0.10	<0.10	NA	< 0.10	117%	50%	140%	99%	50%	140%	108%	50%	140%
Benzo(b)fluoranthene	5340647		<0.10	<0.10	NA	< 0.10	68%	50%	140%	64%	50%	140%	76%	50%	140%
Benzo(k)fluoranthene	5340647		<0.10	<0.10	NA	< 0.10	116%	50%	140%	106%	50%	140%	111%	50%	140%
Benzo(a)pyrene	5340647		<0.01	<0.01	NA	< 0.01	63%	50%	140%	69%	50%	140%	81%	50%	140%
Indeno(1,2,3-cd)pyrene	5340647		<0.20	<0.20	NA	< 0.20	79%	50%	140%	70%	50%	140%	68%	50%	140%
Dibenz(a,h)anthracene	5340647		<0.20	<0.20	NA	< 0.20	80%	50%	140%	61%	50%	140%	79%	50%	140%
Benzo(g,h,i)perylene	5340647		<0.20	<0.20	NA	< 0.20	79%	50%	140%	99%	50%	140%	96%	50%	140%
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Water)															
F1 (C6-C10)	5335316		<25	25	NA	< 25	109%	60%	140%	85%	60%	140%	101%	60%	140%
F2 (C10 to C16)	5335235		< 100	< 100	NA	< 100	111%	60%	140%	90%	60%	140%	94%	60%	140%
F3 (C16 to C34)	5335235		< 100	< 100	NA	< 100	109%	60%	140%	82%	60%	140%	98%	60%	140%
F4 (C34 to C50)	5335235		< 100	< 100	NA	< 100	72%	60%	140%	82%	60%	140%	68%	60%	140%
O. Reg. 153(511) - VOCs (with PHC) (Water)															
Dichlorodifluoromethane	5335316		<0.40	<0.40	NA	< 0.40	81%	50%	140%	90%	50%	140%	90%	50%	140%
Vinyl Chloride	5335316		11.2	12.4	9.5%	< 0.17	109%	50%	140%	111%	50%	140%	115%	50%	140%
Bromomethane	5335316		<0.20	<0.20	NA	< 0.20	114%	50%	140%	114%	50%	140%	116%	50%	140%
Trichlorofluoromethane	5335316		<0.40	<0.40	NA	< 0.40	103%	50%	140%	111%	50%	140%	120%	50%	140%
Acetone	5335316		<1.0	<1.0	NA	< 1.0	118%	50%	140%	108%	50%	140%	86%	50%	140%
1,1-Dichloroethylene	5335316		<0.30	<0.30	NA	< 0.30	114%	50%	140%	101%	60%	130%	94%	50%	140%
Methylene Chloride	5335316		<0.30	<0.30	NA	< 0.30	103%	50%	140%	117%	60%	130%	101%	50%	140%
trans- 1,2-Dichloroethylene	5335316		0.58	0.70	NA	< 0.20	78%	50%	140%	108%	60%	130%	100%	50%	140%
Methyl tert-butyl ether	5335316		<0.20	<0.20	NA	< 0.20	77%	50%	140%	73%	60%	130%	79%	50%	140%
1,1-Dichloroethane	5335316		<0.30	<0.30	NA	< 0.30	98%	50%	140%	83%	60%	130%	81%	50%	140%
Methyl Ethyl Ketone	5335316		<1.0	<1.0	NA	< 1.0	80%	50%	140%	99%	50%	140%	81%	50%	140%
cis- 1,2-Dichloroethylene	5335316		(35.8)	(31.4)	12.8%	< 0.20	98%	50%	140%	101%	60%	130%	89%	50%	140%
Chloroform	5335316		<0.20	<0.20	NA	< 0.20	99%	50%	140%	84%	60%	130%	88%	50%	140%
1,2-Dichloroethane	5335316		<0.20	<0.20	NA	< 0.20	111%	50%	140%	108%	60%	130%	117%	50%	140%
1,1,1-Trichloroethane	5335316		<0.30	<0.30	NA	< 0.30	75%	50%	140%	66%	60%	130%	73%	50%	140%
Carbon Tetrachloride	5335316		<0.20	<0.20	NA	< 0.20	75%	50%	140%	73%	60%	130%	77%	50%	140%

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 23P075643

PROJECT: 327928-C

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: Oct 06, 2023			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Benzene	5335316		<0.20	<0.20	NA	< 0.20	113%	50%	140%	95%	60%	130%	93%	50%	140%
1,2-Dichloropropane	5335316		<0.20	<0.20	NA	< 0.20	90%	50%	140%	110%	60%	130%	83%	50%	140%
Trichloroethylene	5335316		5.00	4.32	14.6%	< 0.20	110%	50%	140%	93%	60%	130%	113%	50%	140%
Bromodichloromethane	5335316		<0.20	<0.20	NA	< 0.20	93%	50%	140%	79%	60%	130%	81%	50%	140%
Methyl Isobutyl Ketone	5335316		<1.0	<1.0	NA	< 1.0	105%	50%	140%	92%	50%	140%	102%	50%	140%
1,1,2-Trichloroethane	5335316		<0.20	<0.20	NA	< 0.20	100%	50%	140%	112%	60%	130%	105%	50%	140%
Toluene	5335316		0.47	0.45	NA	< 0.20	104%	50%	140%	107%	60%	130%	100%	50%	140%
Dibromochloromethane	5335316		<0.10	<0.10	NA	< 0.10	73%	50%	140%	77%	60%	130%	79%	50%	140%
Ethylene Dibromide	5335316		<0.10	<0.10	NA	< 0.10	115%	50%	140%	102%	60%	130%	116%	50%	140%
Tetrachloroethylene	5335316		<0.20	<0.20	NA	< 0.20	116%	50%	140%	105%	60%	130%	95%	50%	140%
1,1,1,2-Tetrachloroethane	5335316		<0.10	<0.10	NA	< 0.10	83%	50%	140%	87%	60%	130%	88%	50%	140%
Chlorobenzene	5335316		<0.10	<0.10	NA	< 0.10	109%	50%	140%	111%	60%	130%	106%	50%	140%
Ethylbenzene	5335316		0.63	0.75	17.4%	< 0.10	96%	50%	140%	83%	60%	130%	75%	50%	140%
m & p-Xylene	5335316		0.27	0.33	NA	< 0.20	106%	50%	140%	92%	60%	130%	83%	50%	140%
Bromoform	5335316		<0.10	<0.10	NA	< 0.10	74%	50%	140%	62%	60%	130%	72%	50%	140%
Styrene	5335316		<0.10	<0.10	NA	< 0.10	104%	50%	140%	78%	60%	130%	72%	50%	140%
1,1,2,2-Tetrachloroethane	5335316		<0.10	<0.10	NA	< 0.10	114%	50%	140%	107%	60%	130%	108%	50%	140%
o-Xylene	5335316		0.90	1.03	13.5%	< 0.10	117%	50%	140%	102%	60%	130%	94%	50%	140%
1,3-Dichlorobenzene	5335316		<0.10	<0.10	NA	< 0.10	113%	50%	140%	111%	60%	130%	117%	50%	140%
1,4-Dichlorobenzene	5335316		<0.10	<0.10	NA	< 0.10	120%	50%	140%	108%	60%	130%	118%	50%	140%
1,2-Dichlorobenzene	5335316		<0.10	<0.10	NA	< 0.10	116%	50%	140%	104%	60%	130%	102%	50%	140%
n-Hexane	5335316		<0.20	<0.20	NA	< 0.20	105%	50%	140%	120%	60%	130%	107%	50%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

Certified By: N Popnikolof

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 23P075643

PROJECT: 327928-C

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

Water Analysis

RPT Date: Oct 06, 2023			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals (Including Hydrides) (Water)															
Dissolved Antimony	5336299		<1.0	<1.0	NA	< 1.0	109%	70%	130%	109%	80%	120%	106%	70%	130%
Dissolved Arsenic	5336299		<1.0	<1.0	NA	< 1.0	93%	70%	130%	101%	80%	120%	101%	70%	130%
Dissolved Barium	5336299		39.7	39.8	0.3%	< 2.0	101%	70%	130%	100%	80%	120%	93%	70%	130%
Dissolved Beryllium	5336299		<0.50	<0.50	NA	< 0.50	101%	70%	130%	105%	80%	120%	114%	70%	130%
Dissolved Boron	5336299		87.2	92.9	6.3%	< 10.0	98%	70%	130%	102%	80%	120%	109%	70%	130%
Dissolved Cadmium	5336299		<0.20	<0.20	NA	< 0.20	101%	70%	130%	99%	80%	120%	100%	70%	130%
Dissolved Chromium	5336299		<2.0	<2.0	NA	< 2.0	102%	70%	130%	103%	80%	120%	94%	70%	130%
Dissolved Cobalt	5336299		<0.50	<0.50	NA	< 0.50	103%	70%	130%	103%	80%	120%	96%	70%	130%
Dissolved Copper	5336299		1.4	1.2	NA	< 1.0	101%	70%	130%	100%	80%	120%	91%	70%	130%
Dissolved Lead	5336299		<0.50	<0.50	NA	< 0.50	100%	70%	130%	102%	80%	120%	93%	70%	130%
Dissolved Molybdenum	5336299		<0.50	<0.50	NA	< 0.50	106%	70%	130%	109%	80%	120%	106%	70%	130%
Dissolved Nickel	5336299		<1.0	<1.0	NA	< 1.0	102%	70%	130%	100%	80%	120%	92%	70%	130%
Dissolved Selenium	5336299		<1.0	<1.0	NA	< 1.0	103%	70%	130%	102%	80%	120%	107%	70%	130%
Dissolved Silver	5336299		<0.20	<0.20	NA	< 0.20	103%	70%	130%	106%	80%	120%	99%	70%	130%
Dissolved Thallium	5336299		<0.30	<0.30	NA	< 0.30	100%	70%	130%	103%	80%	120%	97%	70%	130%
Dissolved Uranium	5336299		0.61	0.60	NA	< 0.50	103%	70%	130%	112%	80%	120%	103%	70%	130%
Dissolved Vanadium	5336299		<0.40	<0.40	NA	< 0.40	102%	70%	130%	105%	80%	120%	98%	70%	130%
Dissolved Zinc	5336299		<5.0	<5.0	NA	< 5.0	101%	70%	130%	100%	80%	120%	98%	70%	130%

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.
Matrix spike NA: Spike level < native concentration. Matrix spike acceptance limits do not apply and are not calculated.

Certified By: Iris Verástegui

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Time Markers

AGAT WORK ORDER: 23P075643

PROJECT: 327928-C

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5334270	MW1-C	Water	29-SEP-2023	29-SEP-2023

O. Reg. 153(511) - Metals (Including Hydrides) (Water)

Parameter	Date Prepared	Date Analyzed	Initials
Dissolved Antimony	05-OCT-2023	05-OCT-2023	DW
Dissolved Arsenic	05-OCT-2023	05-OCT-2023	DW
Dissolved Barium	05-OCT-2023	05-OCT-2023	DW
Dissolved Beryllium	05-OCT-2023	05-OCT-2023	DW
Dissolved Boron	05-OCT-2023	05-OCT-2023	DW
Dissolved Cadmium	05-OCT-2023	05-OCT-2023	DW
Dissolved Chromium	05-OCT-2023	05-OCT-2023	DW
Dissolved Cobalt	05-OCT-2023	05-OCT-2023	DW
Dissolved Copper	05-OCT-2023	05-OCT-2023	DW
Dissolved Lead	05-OCT-2023	05-OCT-2023	DW
Dissolved Molybdenum	05-OCT-2023	05-OCT-2023	DW
Dissolved Nickel	05-OCT-2023	05-OCT-2023	DW
Dissolved Selenium	05-OCT-2023	05-OCT-2023	DW
Dissolved Silver	05-OCT-2023	05-OCT-2023	DW
Dissolved Thallium	05-OCT-2023	05-OCT-2023	DW
Dissolved Uranium	06-OCT-2023	06-OCT-2023	DW
Dissolved Vanadium	05-OCT-2023	05-OCT-2023	DW
Dissolved Zinc	05-OCT-2023	05-OCT-2023	DW

O. Reg. 153(511) - PAHs (Water)

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	06-OCT-2023	06-OCT-2023	JJ
Acenaphthylene	06-OCT-2023	06-OCT-2023	JJ
Acenaphthene	06-OCT-2023	06-OCT-2023	JJ
Fluorene	06-OCT-2023	06-OCT-2023	JJ
Phenanthrene	06-OCT-2023	06-OCT-2023	JJ
Anthracene	06-OCT-2023	06-OCT-2023	JJ
Fluoranthene	06-OCT-2023	06-OCT-2023	JJ
Pyrene	06-OCT-2023	06-OCT-2023	JJ
Benzo(a)anthracene	06-OCT-2023	06-OCT-2023	JJ
Chrysene	06-OCT-2023	06-OCT-2023	JJ
Benzo(b)fluoranthene	06-OCT-2023	06-OCT-2023	JJ
Benzo(k)fluoranthene	06-OCT-2023	06-OCT-2023	JJ
Benzo(a)pyrene	06-OCT-2023	06-OCT-2023	JJ
Indeno(1,2,3-cd)pyrene	06-OCT-2023	06-OCT-2023	JJ
Dibenz(a,h)anthracene	06-OCT-2023	06-OCT-2023	JJ
Benzo(g,h,i)perylene	06-OCT-2023	06-OCT-2023	JJ
2-and 1-methyl Naphthalene	06-OCT-2023	06-OCT-2023	SYS
Naphthalene-d8	06-OCT-2023	06-OCT-2023	JJ

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AGAT WORK ORDER: 23P075643

PROJECT: 327928-C

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5334270	MW1-C	Water	29-SEP-2023	29-SEP-2023

O. Reg. 153(511) - PAHs (Water)

Parameter	Date Prepared	Date Analyzed	Initials
Acridine-d9	06-OCT-2023	06-OCT-2023	JJ
Terphenyl-d14	06-OCT-2023	06-OCT-2023	JJ
Sediment	04-OCT-2023	04-OCT-2023	SG

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs and VOC) (Water)

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6-C10)	04-OCT-2023	04-OCT-2023	MK
F1 (C6 to C10) minus BTEX	04-OCT-2023	04-OCT-2023	SYS
Toluene-d8	04-OCT-2023	04-OCT-2023	MK
F2 (C10 to C16)	04-OCT-2023	04-OCT-2023	CA
F2 (C10 to C16) minus Naphthalene	06-OCT-2023	06-OCT-2023	SYS
F3 (C16 to C34)	04-OCT-2023	04-OCT-2023	CA
F3 (C16 to C34) minus PAHs	06-OCT-2023	06-OCT-2023	SYS
F4 (C34 to C50)	04-OCT-2023	04-OCT-2023	CA
Gravimetric Heavy Hydrocarbons			
Terphenyl	04-OCT-2023	04-OCT-2023	CA
Sediment	04-OCT-2023	04-OCT-2023	SG

O. Reg. 153(511) - VOCs (with PHC) (Water)

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	04-OCT-2023	04-OCT-2023	MK
Vinyl Chloride	04-OCT-2023	04-OCT-2023	MK
Bromomethane	04-OCT-2023	04-OCT-2023	MK
Trichlorofluoromethane	04-OCT-2023	04-OCT-2023	MK
Acetone	04-OCT-2023	04-OCT-2023	MK
1,1-Dichloroethylene	04-OCT-2023	04-OCT-2023	MK
Methylene Chloride	04-OCT-2023	04-OCT-2023	MK
trans- 1,2-Dichloroethylene	04-OCT-2023	04-OCT-2023	MK
Methyl tert-butyl ether	04-OCT-2023	04-OCT-2023	MK
1,1-Dichloroethane	04-OCT-2023	04-OCT-2023	MK
Methyl Ethyl Ketone	04-OCT-2023	04-OCT-2023	MK
cis- 1,2-Dichloroethylene	04-OCT-2023	04-OCT-2023	MK
Chloroform	04-OCT-2023	04-OCT-2023	MK
1,2-Dichloroethane	04-OCT-2023	04-OCT-2023	MK
1,1,1-Trichloroethane	04-OCT-2023	04-OCT-2023	MK
Carbon Tetrachloride	04-OCT-2023	04-OCT-2023	MK
Benzene	04-OCT-2023	04-OCT-2023	MK
1,2-Dichloropropane	04-OCT-2023	04-OCT-2023	MK
Trichloroethylene	04-OCT-2023	04-OCT-2023	MK

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Time Markers

AGAT WORK ORDER: 23P075643

PROJECT: 327928-C

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5334270	MW1-C	Water	29-SEP-2023	29-SEP-2023

O. Reg. 153(511) - VOCs (with PHC) (Water)

Parameter	Date Prepared	Date Analyzed	Initials
Bromodichloromethane	04-OCT-2023	04-OCT-2023	MK
Methyl Isobutyl Ketone	04-OCT-2023	04-OCT-2023	MK
1,1,2-Trichloroethane	04-OCT-2023	04-OCT-2023	MK
Toluene	04-OCT-2023	04-OCT-2023	MK
Dibromochloromethane	04-OCT-2023	04-OCT-2023	MK
Ethylene Dibromide	04-OCT-2023	04-OCT-2023	MK
Tetrachloroethylene	04-OCT-2023	04-OCT-2023	MK
1,1,1,2-Tetrachloroethane	04-OCT-2023	04-OCT-2023	MK
Chlorobenzene	04-OCT-2023	04-OCT-2023	MK
Ethylbenzene	04-OCT-2023	04-OCT-2023	MK
m & p-Xylene	04-OCT-2023	04-OCT-2023	MK
Bromoform	04-OCT-2023	04-OCT-2023	MK
Styrene	04-OCT-2023	04-OCT-2023	MK
1,1,2,2-Tetrachloroethane	04-OCT-2023	04-OCT-2023	MK
o-Xylene	04-OCT-2023	04-OCT-2023	MK
1,3-Dichlorobenzene	04-OCT-2023	04-OCT-2023	MK
1,4-Dichlorobenzene	04-OCT-2023	04-OCT-2023	MK
1,2-Dichlorobenzene	04-OCT-2023	04-OCT-2023	MK
1,3-Dichloropropene	04-OCT-2023	04-OCT-2023	SYS
Xylenes (Total)	04-OCT-2023	04-OCT-2023	SYS
n-Hexane	04-OCT-2023	04-OCT-2023	MK
Toluene-d8	04-OCT-2023	04-OCT-2023	MK
4-Bromofluorobenzene	04-OCT-2023	04-OCT-2023	MK

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 23P075643

PROJECT: 327928-C

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Fluorene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(a)anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Chrysene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5105	modified from EPA 3510C and EPA 8270E	GC/MS
Sediment			N/A
F1 (C6-C10)	VOL-91-5010	modified from MOE PHC-E3421	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5010	modified from MOE PHC-E3421	P&T GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F3 (C16 to C34)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F4 (C34 to C50)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5010	modified from MOE PHC-E3421	BALANCE
Terphenyl	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
Dichlorodifluoromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 23P075643

PROJECT: 327928-C

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Vinyl Chloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
trans- 1,2-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl tert-butyl ether	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
cis- 1,2-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 23P075643

PROJECT: 327928-C

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
m & p-Xylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,3-Dichloropropene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 23P075643

PROJECT: 327928-C

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Dissolved Antimony	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Arsenic	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Barium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Beryllium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Boron	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cadmium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Chromium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cobalt	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Copper	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Lead	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Molybdenum	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Nickel	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Selenium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Silver	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Thallium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Uranium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Vanadium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Zinc	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS

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Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: Pinchin Ltd.
Contact:
Address: 1456 Centennial Drive, Suite 2
Kingston ON K7L 0K4
Phone: 613.541.1013 Fax:
Reports to be sent to:
1. Email: jmccann@pinchin.com
2. Email:

Project Information:

Project: ~~SE~~ 327928-C
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☑ No ☐
Company: Pinchin Ltd.
Contact:
Address:
Email: ap@pinchin.com

Regulatory Requirements:

(Please check all applicable boxes)

☐ Regulation 153/04
Table ___ *Indicate One*
☐ Ind/Com
☐ Res/Park
☐ Agriculture
Soil Texture *(Check One)*
☐ Coarse
☐ Fine

☐ Excess Soils R406
Table ___ *Indicate One*
☐ Regulation 558
☐ CCME

☐ Sewer Use ☐ Sanitary ☐ Storm
___ *Region*
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
___ *Indicate One*

Is this submission for a **Record of Site Condition?** ☐ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Laboratory Use Only

Work Order #: 23P075643
Cooler Quantity: 1
Arrival Temperatures: 12.3 | 13.1 | 12.6 / 8.1 | 8.4 | 8.9
Custody Seal Intact: ☐ Yes ☐ No ☑ N/A
Notes: ICE; put in fridge.

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

** 4 DAY TAT **

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CPM

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC Y/N	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs	O. Reg 153: Analyze F4G if required ☐ Yes ☐ No	O. Reg 153: PAHs	O. Reg 153: PCBs	O. Reg 153: VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach SPLP: ☐ Metals ☐ VOCs ☐ SVOCs	O. Reg 406: Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	Potentially Hazardous or High Concentration (Y/N)
MW1-C	9/29/23	245 AM/PM	8	GW	pH, decant if needed	Y	Y		Y	Y	Y		Y					
		AM/PM																
		AM/PM																
		AM/PM																
		AM/PM																
		AM/PM																
		AM/PM																
		AM/PM																
		AM/PM																
		AM/PM																
		AM/PM																

	Date	Time		Date	Time
Samples Relinquished By (Print Name and Sign): JMccann	9/29/23	4:15p	Samples Received By (Print Name and Sign): Karly Jones	Sept 29/23	16:15.
Samples Relinquished By (Print Name and Sign):	Oct 2/23	11:00	Samples Received By (Print Name and Sign): T-K	Oct 3	9Am
Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time

Page 1 of 1
Nº:

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

CLIENT NAME: PINCHIN LTD.
1456 Centennial Drive, Unit 2
KINGSTON, ON K7P 0K4
(613) 541-1013
ATTENTION TO: Jeanette McCann
PROJECT: 327928
AGAT WORK ORDER: 23P086073
WATER ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead
DATE REPORTED: Oct 31, 2023
PAGES (INCLUDING COVER): 6
VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

Notes

Disclaimer:

- *All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.*
- *All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.*
- *AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.*
- *This Certificate shall not be reproduced except in full, without the written approval of the laboratory.*
- *The test results reported herewith relate only to the samples as received by the laboratory.*
- *Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.*
- *All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.*
- *For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.*

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Certificate of Analysis

AGAT WORK ORDER: 23P086073

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Metals (Including Hydrides) (Water)

DATE RECEIVED: 2023-10-27

DATE REPORTED: 2023-10-31

		SAMPLE DESCRIPTION:		MW1
		SAMPLE TYPE:		Water
		DATE SAMPLED:		2023-10-27
Parameter	Unit	G / S	RDL	5405639
Dissolved Antimony	µg/L		1.0	<1.0
Dissolved Arsenic	µg/L		1.0	10.8
Dissolved Barium	µg/L		10.0	2850
Dissolved Beryllium	µg/L		0.50	<0.50
Dissolved Boron	µg/L		10.0	718
Dissolved Cadmium	µg/L		0.20	<0.20
Dissolved Chromium	µg/L		2.0	<2.0
Dissolved Cobalt	µg/L		0.50	0.88
Dissolved Copper	µg/L		1.0	<1.0
Dissolved Lead	µg/L		0.50	<0.50
Dissolved Molybdenum	µg/L		0.50	85.1
Dissolved Nickel	µg/L		1.0	3.6
Dissolved Selenium	µg/L		1.0	10.6
Dissolved Silver	µg/L		0.20	<0.20
Dissolved Thallium	µg/L		0.30	<0.30
Dissolved Uranium	µg/L		0.50	28.9
Dissolved Vanadium	µg/L		0.40	1.69
Dissolved Zinc	µg/L		5.0	<5.0

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

5405639 Metals analysis completed on a filtered sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

AGAT Laboratories

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Quality Assurance

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 23P086073

PROJECT: 327928

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

Water Analysis

RPT Date: Oct 31, 2023			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals (Including Hydrides) (Water)															
Dissolved Antimony	5405639	5405639	<1.0	1.0	NA	< 1.0	103%	70%	130%	108%	80%	120%	109%	70%	130%
Dissolved Arsenic	5405639	5405639	10.8	11.1	2.7%	< 1.0	97%	70%	130%	102%	80%	120%	116%	70%	130%
Dissolved Barium	5405639	5405639	2850	2740	3.9%	< 2.0	95%	70%	130%	95%	80%	120%	96%	70%	130%
Dissolved Beryllium	5405639	5405639	<0.50	<0.50	NA	< 0.50	96%	70%	130%	104%	80%	120%	100%	70%	130%
Dissolved Boron	5405639	5405639	718	711	1.0%	< 10.0	99%	70%	130%	104%	80%	120%	96%	70%	130%
Dissolved Cadmium	5405639	5405639	<0.20	<0.20	NA	< 0.20	100%	70%	130%	98%	80%	120%	96%	70%	130%
Dissolved Chromium	5405639	5405639	<2.0	<2.0	NA	< 2.0	100%	70%	130%	104%	80%	120%	127%	70%	130%
Dissolved Cobalt	5405639	5405639	0.88	0.93	NA	< 0.50	103%	70%	130%	108%	80%	120%	121%	70%	130%
Dissolved Copper	5405639	5405639	<1.0	<1.0	NA	< 1.0	101%	70%	130%	101%	80%	120%	106%	70%	130%
Dissolved Lead	5405639	5405639	<0.50	<0.50	NA	< 0.50	102%	70%	130%	100%	80%	120%	85%	70%	130%
Dissolved Molybdenum	5405639	5405639	85.1	86.2	1.3%	< 0.50	107%	70%	130%	113%	80%	120%	113%	70%	130%
Dissolved Nickel	5405639	5405639	3.6	3.2	NA	< 1.0	102%	70%	130%	108%	80%	120%	110%	70%	130%
Dissolved Selenium	5405639	5405639	10.6	9.6	9.9%	< 1.0	101%	70%	130%	101%	80%	120%	108%	70%	130%
Dissolved Silver	5405639	5405639	<0.20	<0.20	NA	< 0.20	99%	70%	130%	102%	80%	120%	84%	70%	130%
Dissolved Thallium	5405639	5405639	<0.30	<0.30	NA	< 0.30	103%	70%	130%	103%	80%	120%	96%	70%	130%
Dissolved Uranium	5405639	5405639	28.9	29.1	0.7%	< 0.50	100%	70%	130%	108%	80%	120%	96%	70%	130%
Dissolved Vanadium	5405639	5405639	1.69	1.25	NA	< 0.40	99%	70%	130%	107%	80%	120%	112%	70%	130%
Dissolved Zinc	5405639	5405639	<5.0	<5.0	NA	< 5.0	101%	70%	130%	106%	80%	120%	93%	70%	130%

Comments: NA signifies Not Applicable.
Duplicate NA: results are under 5X the RDL and will not be calculated.

Certified By:

AGAT Laboratories

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FAX (905)712-5122
http://www.agatlabs.com

Time Markers

AGAT WORK ORDER: 23P086073

PROJECT: 327928

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jeanette McCann

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5405639	MW1	Water	27-OCT-2023	27-OCT-2023

O. Reg. 153(511) - Metals (Including Hydrides) (Water)

Parameter	Date Prepared	Date Analyzed	Initials
Dissolved Antimony	30-OCT-2023	30-OCT-2023	DW
Dissolved Arsenic	30-OCT-2023	30-OCT-2023	DW
Dissolved Barium	30-OCT-2023	30-OCT-2023	DW
Dissolved Beryllium	30-OCT-2023	30-OCT-2023	DW
Dissolved Boron	30-OCT-2023	30-OCT-2023	DW
Dissolved Cadmium	30-OCT-2023	30-OCT-2023	DW
Dissolved Chromium	30-OCT-2023	30-OCT-2023	DW
Dissolved Cobalt	30-OCT-2023	30-OCT-2023	DW
Dissolved Copper	30-OCT-2023	30-OCT-2023	DW
Dissolved Lead	30-OCT-2023	30-OCT-2023	DW
Dissolved Molybdenum	30-OCT-2023	30-OCT-2023	DW
Dissolved Nickel	30-OCT-2023	30-OCT-2023	DW
Dissolved Selenium	30-OCT-2023	30-OCT-2023	DW
Dissolved Silver	30-OCT-2023	30-OCT-2023	DW
Dissolved Thallium	30-OCT-2023	30-OCT-2023	DW
Dissolved Uranium	30-OCT-2023	30-OCT-2023	DW
Dissolved Vanadium	30-OCT-2023	30-OCT-2023	DW
Dissolved Zinc	30-OCT-2023	30-OCT-2023	DW

AGAT Laboratories

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Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 23P086073

PROJECT: 327928

ATTENTION TO: Jeanette McCann

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Dissolved Antimony	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Arsenic	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Barium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Beryllium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Boron	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cadmium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Chromium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cobalt	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Copper	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Lead	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Molybdenum	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Nickel	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Selenium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Silver	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Thallium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Uranium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Vanadium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Zinc	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS

AGAT Laboratories

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Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Laboratory Use Only

Work Order #: 23P086073

Cooler Quantity: 1

Arrival Temperatures: 5.3 | 5.6 | 5.1
7.6 | | |

Custody Seal Intact: ☐ Yes ☐ No ☒ N/A

Notes: ICE

Report Information:

Company: Pinchin Ltd.
Contact:
Address: 1456 Centennial Drive, Suite 2
Kingston ON K7L 0K4
Phone: 613.541.1013 Fax:
Reports to be sent to:
1. Email: jmccann@pinchin.com
2. Email: amcdonald@pinchin.com

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04
Table _____ *Indicate One*
☐ Ind/Com
☐ Res/Park
☐ Agriculture
Soil Texture *(Check One)*
☐ Coarse
☐ Fine

☐ Excess Soils R406
Table _____ *Indicate One*

☐ Regulation 558

☐ CCME

☐ Sewer Use
☐ Sanitary ☐ Storm
_____ *Region*

☐ Prov. Water Quality Objectives (PWQO)

☐ Other
_____ *Indicate One*

Is this submission for a **Record of Site Condition?** ☐ Yes ☒ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

RUSH!

☐ 3 Business Days ☒ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

** 4 DAY TAT **

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

For 'Same Day' analysis, please contact your AGAT CPM

Project Information:

Project: 3Z7123
Site Location:
Sampled By:
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☑ No ☐

Company: Pinchin Ltd.
Contact:
Address:
Email: ap@pinchin.com

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI, DOC (Y/N)	O. Reg 153: Metals & Inorganics	O. Reg 153: Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	O. Reg 153: BTEX, F1-F4 PHCs Analyze F4G if required ☐ Yes ☐ No	O. Reg 153: PAHs	O. Reg 153: PCBs	O. Reg 153: VOC	O. Reg 558: Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	O. Reg 406: Excess Soils SPLP Rainwater Leach ☐ Metals ☐ VOCs ☐ SVOCs	O. Reg 406: Excess Soils Characterization Package pH, ICPMS Metals, BTEX, F1-F4	Salt - EC/SAR	Potentially Hazardous or High Concentration (Y/N)
MW1	10/27/23	AM PM	1	GW		Y	X										
		AM PM															
		AM PM															
		AM PM															
		AM PM															
		AM PM															
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		AM PM															
		AM PM															

Samples Relinquished By (Print Name and Sign): KRISTEN VANDERBURGT	Date: Oct 27/23	Time: 12:00PM	Samples Received By (Print Name and Sign): Kayla Jones	Date: Oct 27/23	Time: 14:45		
Samples Relinquished By (Print Name and Sign):	Date: Oct 27/23	Time: 12:00PM	Samples Received By (Print Name and Sign):	Date: Oct 28/23	Time: 10:19 am	Page 1 of 1	
Samples Relinquished By (Print Name and Sign):	Date: Oct 27/23	Time: 1600	Samples Received By (Print Name and Sign):	Date:	Time:	N°:	