93 Skyway Avenue, Suite 101 Toronto, Ontario M9W 6N6 Tel. (416) 679-8914 Fax. (416) 679-8915 **1-888-ASK-THEM**

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT SUB-SURFACE SOIL AND GROUNDWATER SAMPLING AND ANALYSIS

Vacant Lands
Pin #s: 442530718 & 442530514
Gananoque, Ontario

May 14, 2021

THEM Project # T21-17975-01

Submitted to:

Horizon Legacy 300 – 60 St. Clair Avenue E. Toronto, Ontario M4T 1N5

Prepared By: T. Harris Environmental Management Inc.

Per:

Alexis Teohari, B.Sc., G.I.T. Sr. Environmental/OH&S Technician

Dennis Hsu, M.A.Sc., P.Eng. Project Manager



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EXECUTIVE SUMMARY

In May 2021, T. Harris Environmental Management Inc. (THEM) was retained by Mr.

Frank Belerique, of Horizon Legacy, to conduct a limited Phase II Environmental Site

Assessment (ESA) for the vacant lands with the pin numbers 442530718 & 442530514 in

Gananoque, Ontario, hereafter referred to as the 'Site'. The Site consists of two vacant

lands, described as 'Main Lot' (Pin# 442530718) and 'Bonus Lot' (Pin # 442530514). Mr.

Frank Belerique commissioned this assessment for due diligence purposes. The Site is

located immediately south of Fourth Street, in an agricultural/residential setting. The Main

Lot is a U-shaped polygon consisting of approximately 89,308 square feet (8,296.9

square meters) in area. The bonus lot is a trapezoidal in shape and consists of

approximately 6,938.2 square feet (644.58 square meters). Both lots are currently vacant

and are covered with moderate vegetation such as tall grasses and low trees.

This Limited Phase II ESA was conducted to reduce uncertainties associated with the

sub-surface conditions at the Site. The scope of this Limited Phase II ESA was based

on the following reports:

Phase I Environmental Site Assessment – Two Vacant Lands in Gananogue,

Ontario; prepared by THEM, April 15, 2021, THEM # T21-17975-00.

Upon review of the above-noted report, the scope of work focused on the following

potentially contaminating activities (PCAs) identified at the Site and surrounding

properties.

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Table A1: PCA Table Correspond to Boreholes/Monitoring Well Delineation

Observed Activity – Impact to the Site	Location	Description and Comments	Possible Contaminant of Concerns	Source/ Section	Environmental Risk and Potentially Contaminating Activity Code*	Delineation Borehole
Railyards, Tracks and Spurs	Immediately east of Bonus Lot	Historical presence of railway before 1989 Impact to the Bonus Lot, negligible impact anticipated at the main lot.	Metals & Inorganics PAHs	Aerial Photogra phs	46 High for Bonus Lot	BHMW3 BH4
Farmland	303-301 Third Street, immediately south of Main Lot	Suspected historical application of pesticides	OC/Pesticides	Aerial Photogra phs ERIS	40 High for southern section of Main Lot	BHMW 1 BH2

^{* -} Potentially contaminating activities code referenced from Table 3 of O. Reg. 153/04: Records of Site Condition

The Limited Phase II ESA was conducted to address the uncertainty from the historical railway adjacent to the Bonus Lot, and the suspected use of pesticides adjacent to the Main Lot, associated with sub-surface conditions. Based on the information obtained during this Limited Phase II ESA, THEM concludes the following.

It should be noted that detectable level of various parameters was observed in the soil throughout the Site in low level including numerous metals (arsenic, barium, beryllium, boron, chromium, cobalt, copper, lead, mercury, nickel, vanadium, and zinc) at BHMW3-2 and 4-2. The parameters for PAHs analyzed in the Bonus Lot were found to be below the level of detection limits for the laboratory methods used. The parameters for OC/Pesticides in BHMW1-4, BH2-3, BH2-5, and BH2-6 were all found to be below the level of detection limits for the laboratory methods used.

Groundwater samples collected from the two newly installed groundwater monitoring wells, BHMW1, BHMW3, were analyzed for OC/Pesticides, Metals & Inorganics, and PAHs. Groundwater samples were noted to be fairly turbid, however no odour or sheen was noted at the time of sampling. Detectable levels of various parameters were

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observed in the groundwater throughout the Site in low level including numerous metals (antimony, arsenic, barium, boron, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, thallium, uranium, vanadium, zinc) at BHMW3. In BHMW1, the parameters analyzed, OC/Pesticides, were all found to be below the level of detection limits for the laboratory methods used.

Based on the findings of this assessment as presented in this report, no significant impacts to the soil or groundwater were found at the locations tested at the Site. No further delineation of the activities to the Site is recommended at this time.

When the groundwater monitoring wells are not to be used for additional groundwater monitoring, they should be decommissioned by a licensed well installer as outlined in R.R.O. 1990, Regulation 903: Wells.

This Executive Summary represents the highlights of findings obtained during our investigation. The entire report must be reviewed before making any decisions regarding the evaluation of potential environmental liabilities associated with the Site.

1.0 INTRODUCTION

In May 2021, T. Harris Environmental Management Inc. (THEM) was retained by Mr. Frank Belerique, of Horizon Legacy, to conduct a limited Phase II Environmental Site Assessment (ESA) for the vacant lands with the pin numbers 442530718 & 442530514 in Gananoque, Ontario, hereafter referred to as the 'Site'. The Site consists of two vacant lands, described as 'Main Lot' (Pin# 442530718) and 'Bonus Lot' (Pin # 442530514). Mr. Frank Belerique commissioned this assessment for due diligence purposes. The Site is located immediately south of Fourth Street, in an agricultural/residential setting. The Main Lot is a U-shaped polygon consisting of approximately 89,308 square feet (8,296.9 square meters) in area. The bonus lot is a trapezoidal in shape and consists of approximately 6,938.2 square feet (644.58 square meters). Both lots are currently vacant and are covered with moderate vegetation such as tall grasses and low trees.

The Site plan in *Appendix I* illustrates the location of the Site and the Site boundary.

1.1 Background

This Limited Phase II ESA was conducted to reduce uncertainties associated with the sub-surface conditions at the Site. The scope of this Limited Phase II ESA was based on the following report:

Phase I Environmental Site Assessment – Two Vacant Lands in Gananoque,
 Ontario; prepared by THEM, April 15, 2021, THEM # T21-17975-00.

Upon review of the above-noted report, the scope of work focused on the following potentially contaminating activities (PCAs) identified at the Site and surrounding properties.

Table A1: PCA Table Correspond to Boreholes/Monitoring Well Delineation

Observed Activity – Impact to the Site	Location	Description and Comments	Possible Contaminant of Concerns	Source/ Section	Environmental Risk and Potentially Contaminating Activity Code*	Delineation Borehole
Railyards, Tracks and Spurs	Immediately east of Bonus Lot	Historical presence of railway before 1989 Impact to the Bonus Lot, negligible impact anticipated at the main lot.	Metals & Inorganics PAHs	Aerial Photogra phs	46 High for Bonus Lot	BHMW3 BH4
Farmland	303-301 Third Street, immediately south of Main Lot	Suspected historical application of pesticides	OC/Pesticides	Aerial Photogra phs ERIS	40 High for southern section of Main Lot	BHMW 1 BH2

^{* -} Potentially contaminating activities code referenced from Table 3 of O. Reg. 153/04: Records of Site Condition

1.2 Scope of Work

Based on the Phase I report prepared by THEM dated April 15, 2021, there were historic activities that contribute to environmental uncertainties for each parcel of land. The scope of the Phase II was to address the main concerns for each parcel of land.

Four (4) boreholes (two for each parcel of land) were advanced to investigate the potential impact from each potentially contaminating activity with 'high' risk for the respective vacant land. In addition, two (2) groundwater monitoring wells (one for each parcel of land) were installed in selected borehole locations.

For Bonus Lot, testing of the soil and groundwater was focused on analysis of polycyclic aromatic hydrocarbons (PAHs) and Metals & Inorganics in order to address the former railway immediately to the east of the Site.

For Main Lot, testing of the soil and groundwater was focused on analysis of organochlorine pesticides (OC pesticides) to address the historical storage of pesticides and suspected farmland found to the south.

The locations of the boreholes/monitoring wells are indicated on Drawing #2 & #4 – Borehole and Monitoring Well Locations Plan attached in *Appendix I*. A report was then compiled summarizing methodology and presenting analytical results with discussion of findings.

1.3 Site Description

The Site is located immediately south of Fourth Street, in an agricultural/residential setting. The Main Lot is a U-shaped polygon consisting of approximately 89,308 square feet (8,296.9 square meters) in area. The bonus lot is a trapezoidal in shape and consists of approximately 6,938.2 square feet (644.58 square meters). Both lots are currently vacant and are covered with moderate vegetation such as tall grasses and low trees.

1.4 Regional Geology

Geological information from several sources was reviewed. Bedrock information was obtained from Ontario Geological Survey of 1991. Soil information was obtained from the Ministry of Natural Resources – Ontario Geological Survey Map P. 2715, Physiography of Southern Ontario.

The underlying bedrock in the area is described as '2b Bedrock – drift complex in Precambrian terrain; primarily stratified drift cover.

1.5 Topography, Hydrology and Hydrogeology

The topography of the Site is predominantly flat, with a significant depression found in Bonus Lot (approximately 45° slope) found on the east side. Bonus Lot and the north side of Main Lot consist of wetland with some minor changes in surface level.

Gananoque River is located approximately 250 m northeast of the Site. Surface water flows in a southeast direction towards the St. Lawrence River.

A review of the MECP well records indicated that eighteen (18) water wells are located on the Site and within the 0.25 km radius of the Site. The composition of the soil was fill material, clayey silt, and clay down to approximately 25 feet below grade.

1.6 Regulatory Framework

The generic site condition standards for soil and groundwater quality criteria are referenced in Ontario Regulation 153/04 that was enacted under the Ontario Environmental Protection Act. The standards were developed to provide protection against the potential for adverse effects to human health, ecological health, and the natural environment. Discrete criteria applicable to agricultural, residential/parkland/institutional, and industrial/commercial/community property uses are specified as generic soil standards in the publication entitled Soil, Ground Water and Sediment Standards for Use Under part XV.1 of the Environmental Protection Act, dated April 15, 2011. These Standards provide for two depths of soil restoration for either potable (Tables 2 and 4) or non-potable (Tables 3 and 5) groundwater usage. Tables 2 and 3 involve the use of the same generic Standards to the full extent of the contamination (full depth), if present. When the contamination is present deeper than 1.5 m below the surface (i.e. subsurface soil), a stratified restoration strategy using different generic Standards can be used (Tables 4 and 5). The Ministry of Environment (MOE) suggests, and also has the power to enforce, registration on land title of the nature and extent of contamination if the stratified approach is used.

In order to utilize the generic or stratified Standards, the Regulation stipulates that the site must not be considered sensitive according to the conditions listed in the Regulation. These conditions, including but not limited to specific soil pH values, shallow bedrock, and distance to a water body or area of natural significance, are not applicable to the Site.

Sampling results were compared to the values presented in Table 3 of the regulatory Standards, as groundwater is not considered to be used as a potable source of water in the vicinity of the Site. As the site under investigation is considered industrial, sample results were compared to the standards specified for residential/parkland/institutional (RPI) property use.

The texture (particle size) of the subsurface material can influence the numerical value of the Standards and different values are provided for coarse, and medium and fine textured soils for some parameters. Medium and fine textured soils typically have more liberal criteria. The application of the medium and fine textured criteria would require laboratory analysis for soil particle size distribution to confirm that the soil meets the fine to medium texture criteria.

Based on the Site conditions as outlined above, the standards deemed to be applicable to the Site are Table 3, Full Depth Generic Site Condition Standards in a Non-Potable Groundwater Condition, Residential/Parkland/Institutional property use, coarse-textured soil (the "applicable standards").

2.0 METHODOLOGY

2.1 Drilling Investigation

The borehole drilling program was conducted on May 7 and 10, 2021, under the supervision of THEM. Canadian Environmental Drilling of Iverary, Ontario, advanced two (2) boreholes, BHMW1, BH2, using CME 55 LC, in the Main Lot. In addition, two (2) boreholes, BHMW3, BH4 were advanced using Geoprobe 6620DT in the Bonus Lot. Prior to conducting the sub-surface investigation, underground services were staked out using the services of Ontario One-Call. Stakeout locations were confirmed and double-checked by using an independent contractor, RW Electrics.

2.2 Soil Sampling

Soil samples were visually logged for grain size, colour, density and moisture content, generally following the *Unified Soil Classification* system. The presence of contaminant staining or obvious odours was indicated where observed.

CME 55 LC Split Spoon system was used for BHMW1 and BH2, in the southern section of the Main Lot. For these two boreholes, the split spoon system collects a core of soil from the borehole in 0.6 metres (2 ft) lengths. This system effectively seals the soil sample within a clear core tube liner and minimizes the possibility of cross-contamination. All drilling equipment was cleaned prior to arrival on site and a clean, new, sample tube was used for each sample. Each clear tube lining containing the sample was cut into halves to allow access to the soil sample. Soil samples were manually collected from the sample tubing using a stainless-steel knife or trowel. The knife/trowel was cleaned prior to use on Site and manually cleaned between soil samples. New, disposable medical grade gloves were used during soil sampling to minimize the potential for cross-contamination between samples.

GeoProbe 6620 Direct Push System was used for BHMW3 and BH4, in the eastern section of the Bonus Lot. For these boreholes, the direct push system collects a continuous core of soil from the borehole in 1.5 metres (5 ft) lengths of clear, liner tubing. This system effectively seals the soil sample and minimizes the possibility of cross-contamination. The sample core from this machine is taken from within the outer extension, which is driven continuously and remains in place, acting as a casing and preventing downward migration of soil and groundwater. All drilling equipment was cleaned prior to arrival on site and a clean, new, sample tube was used for each sample. Each clear tube lining containing the sample was cut into halves to allow access to the soil sample. Soil samples were manually collected from the sample tubing using a stainless-steel knife or trowel. The knife/trowel was cleaned prior to use on Site and manually cleaned between soil samples. New, disposable medical grade gloves

were used during soil sampling to minimize the potential for cross-contamination between samples.

Following logging and sample collection, a portion of each sample was placed into a sealable polyethylene bag for headspace organic vapour analysis with a photoionization detector (PID). Each sample was allowed to equilibrate at approximately room temperature (20 degrees Celsius) before the concentration of organic vapours in the headspace in the sample bag was measured. The headspace was measured using a RKI GX-6000 air monitor, calibrated to isobutylene and adjusted to a response factor of 0.5 (indicative of higher carbon chain compounds such as VOCs) with a 10.6 eV lamp rating. Organic vapour measurements from the field screening were recorded in parts per billion (ppb).

Based on the results of field observations, sample locations, and field screening results, selected representative samples were submitted for laboratory testing. Soil samples were submitted to ALS Environmental. of Mississauga, Ontario, with corresponding chain-of-custody documentation. All samples were kept cool, on ice, until arrival at the laboratory. The laboratory results were compared to the applicable Standard specified in the "Soil, Ground Water and Sediment Standards for Use Under part XV.1 of the Environmental Protection Act" dated April 15, 2011 (as referenced in Ontario Regulation 153/04, as amended).

2.3 Groundwater Investigation

Two (2) boreholes, BHMW1 (Main Lot) and BHMW3 (Bonus Lot) were instrumented as groundwater monitoring wells. The purpose of the installation of these monitoring wells was to allow the collection of groundwater samples for chemical analyses.

2.3.1 Monitoring Well Installation

Monitoring wells were constructed with threaded PVC pipe (riser) and slotted well screens. Approximately 3.0 m of the 2.0-inch-diameter well screen was used in the exterior monitoring wells to allow for the measurement of groundwater levels. Commercially available #2 silica sand pack was used as a filter pack. A Wyoming bentonite seal (pellets) was placed as a surface seal grout in the well to minimize the possibility of surface water from entering the well screen by way of the borehole annulus. Following the installation of the monitoring well, a monument casing was installed to protect the PVC tubing. A dedicated sampling mechanism comprised of a disposable bailer was installed in the monitoring wells for the purpose of purging and groundwater sampling.

2.3.2 Groundwater Sampling and Measurements

After water level in the wells was allowed to stabilize, the depth of the groundwater within the newly installed monitoring wells was measured using an electronic water level meter. The monitoring wells were purged before samples were collected. Water was observed and any odours, staining or sheens were noted when observed. Details of groundwater sampling, measurements, and dates of sampling are presented in tabular form in section 3.2.

The monitoring wells, BHMW1, BHMW3 were purged for approximately three casing volumes before collection of the water samples for chemical analyses to ensure an influx of fresh formation water for sampling. Water samples were collected and placed in sterile containers supplied by the analyzing laboratory. Appropriate preservatives and sampling techniques were employed, when required. All samples were kept in a cooler with ice until their arrival at the laboratory. Water samples, along with corresponding chain-of-custody documentation, were submitted to the laboratory.

2.4 Quality Control (QA/QC Protocols)

Quality control procedures included, the use of laboratory-provided sampling containers, dedicated samplers for each sample location, use of clean, nitrile gloves at each sampling location and preservation and cooling of samples immediately upon collection.

ALS has a corporate laboratory QA/QC program. Acceptable limits of variability, as well as minimum detection limits, are given on Certificates of Analysis attached in *Appendix II*.

3.0 FINDINGS

It should be noted that soil and groundwater conditions were confirmed at borehole locations only and may vary at other locations.

3.1 Geology

Soil conditions at the four (4) borehole locations were fairly consistent. Soil consisted primarily of topsoil up 0.3 meters in depth. The topsoil is underlain by brown/grey clay to a maximum depth of approximately 7.6 meter below ground level. BHMW1 was advanced to 4.3 m below surface and stopped at refusal. Additional details of soil types are given in borehole logs in *Appendix III*.

Levels of organic vapours, as determined with a PID (Photo Ionization Detector), were measured in the soil samples collected from the boreholes. The headspace vapour readings in the soil samples were found to be in the range of 0 - 338 ppb. Refer to Borehole Logs in *Appendix III*.

3.2 Hydrogeology

Two (2) monitoring wells, BHMW1, BHMW 3, were installed as part of this assessment. Groundwater measurements and observation data have been summarized in Table A, below.

Table A
Groundwater Measurements and Observations

Borehole/ Well #	Date (2021)	Water Depth Measurement Below Surface (Meters)	Measurement Below Activity Surface		Free-Phase Product, Sheen or Odour
BHMW1	May 7	0.42	4.18	Measurement & Purging ~30 L) & Sampling	Not Detected
BHMW3 May 11 2.49		2.49	7.82	Measurement & Purging 28 L) & Sampling	Not Detected

3.3 Soil Chemistry Analytical Results

Soil samples were collected and examined from boreholes BHMW1, BH2, BHMW3, and BH4 at varying depths. No odour or significant readings of PID were reported during the field sampling. Analytical results for parameters tested, including OC/Pesticides, Metals & Inorganics, and PAHs, indicated no exceedances for either Bonus Lot or Main Lot.

Analytical results for soil samples, together with the relevant soil quality criteria, have been summarized in Tables 1 and 2 are attached in *Appendix II*. Detailed analytical reports (laboratory certificates of analysis), which provide additional information on the laboratory methodology and limits of detection, have also been provided in *Appendix II*.

3.4 Groundwater Chemistry Analytical Results

Groundwater samples collected from the two newly installed groundwater monitoring wells. BHMW1 and BHMW3, were analyzed. BHMW1, corresponding to the Main Lot,

was analyzed for OC/Pesticides, and BHMW3, corresponding to the Bonus Lot, was analyzed for Metals & Inorganics and PAHs.

Groundwater samples were noted to be clear and no odour or sheen was noted at the time of sampling. No detectable levels of any of the parameters analyzed were found in the samples tested.

Analytical results for groundwater samples, together with the relevant water quality Standard have been summarized in Tables 1 and 2 in Appendix II. Detailed laboratory certificates of analysis have also been provided in Appendix II.

3.5 Quality Control

No deviations from the ALS QA/QC programs that could have resulted in poor data quality were recorded during this project.

4.0 EVALUATION OF FINDINGS AND CONCLUSIONS

The Limited Phase II ESA was conducted to address the uncertainty from the historical railway adjacent to the Bonus Lot, and the suspected use of pesticides adjacent to the Main Lot, associated with sub-surface conditions. Based on the information obtained during this Limited Phase II ESA, THEM concludes the following.

It should be noted that detectable level of various parameters was observed in the soil throughout the Site in low level including numerous metals (arsenic, barium, beryllium, boron, chromium, cobalt, copper, lead, mercury, nickel, vanadium, and zinc) at BHMW3-2 and 4-2. The parameters for PAHs analyzed in the Bonus Lot were found to be below the level of detection limits for the laboratory methods used. The parameters for OC/Pesticides in BHMW1-4, BH2-3, BH2-5, and BH2-6 were all found to be below the level of detection limits for the laboratory methods used.

Groundwater samples collected from the two newly installed groundwater monitoring wells, BHMW1, BHMW3, were analyzed for OC/Pesticides, Metals & Inorganics, and PAHs. Groundwater samples were noted to be fairly turbid, however no odour or sheen was noted at the time of sampling. Detectable levels of various parameters were observed in the groundwater throughout the Site in low level including numerous metals (antimony, arsenic, barium, boron, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, thallium, uranium, vanadium, zinc) at BHMW3. In BHMW1, the parameters analyzed, OC/Pesticides, were all found to be below the level of detection limits for the laboratory methods used.

Based on the findings of this assessment as presented in this report, no significant impacts to the soil or groundwater were found at the locations tested at the Site. No further delineation of the activities to the Site is recommended at this time.

When the groundwater monitoring wells are not to be used for additional groundwater monitoring, they should be decommissioned by a licensed well installer as outlined in R.R.O. 1990, Regulation 903: Wells.

5.0 LIMITATIONS

In this statement of limitations, the "Client" refers to the persons or entities to whom this report is addressed. "THEM" refers to T. Harris Environmental Management Inc.

This report is subject to the limitations set out below, and any other limitations set out in the body of this report or in the Scope of Work between THEM and the Client.

Except as otherwise noted in this report or in the Scope of Work, this report has been prepared in accordance with the standards set out in CAN/CSA-Z769-00 published by the Canadian Standards Association and dated March 2000. The investigation and assessment described in this report were conducted in accordance with the Scope of Work agreed upon by the Client in a manner consistent with a reasonable level of care and skill normally exercised by members of the environmental consulting profession currently practising under similar conditions in the Province of Ontario.

The number of sample locations, and the scope of analysis of samples at the site are in accordance with the Scope of Work agreed upon by the Client. Conditions between sample locations (including the presence of contamination) may differ from those indicated in this report.

The assessment in this report has been made in the context of regulations which were in force and effect at the time of the assessment and which are specified in this report. The assessment did not take into account any regulations which were not in effect at the date of the assessments, or any guideline or standard not specified in this report.

This report is intended solely for the use or uses specified in this report and/or the Scope of Work. Use of this report for purposes other than those set out in this report and/or the Scope of Work will be at the sole risk of the Client.

Copying of this report except as may be reasonably required for internal use by the Client, and any distribution of this report to persons other than the Client in whole or in part, is not permitted without the express written permission of THEM.

This report is for the sole use of the Client. THEM makes no representation or warranty, either express or implied, to any third party with regard to this report and the work referred to in this report and expressly disclaims any, and accepts no duty of care to any third party or any responsibility or liability whatsoever to any third party for any loss, expenses, damages (direct, consequential or contingent), fines, penalties, or other harm that may be suffered or incurred by any third party as a result of any use of, any reliance placed upon, or any decision made or actions taken based upon this report or the work referred to herein.

In no event shall THEM be liable for any indirect, incidental, special or consequential damages, or damages from loss of profits, revenue, or use, incurred by either the Client or any third party, whether in an action in tort or contract, even if THEM has been advised of the possibility of such damages. THEM's liability for damages shall in no event exceed the limit of available insurance coverage.

If new information concerning the subject matter of this report arises, THEM should be contacted to re-evaluate the conclusions of this report and to provide amendments as required.











	•		
Drawing: Site Location Plan		Floor: N/A	
THEM Project No: T21- 17975-01		1- 17975-01	Drawing # 1
	Date: 11/05/2021		Drawn by: AT
	THEM Project No: T2		Drawing # 1







Approx. Site Boundary



Approx. Location of Borehole/ Monitoring Well

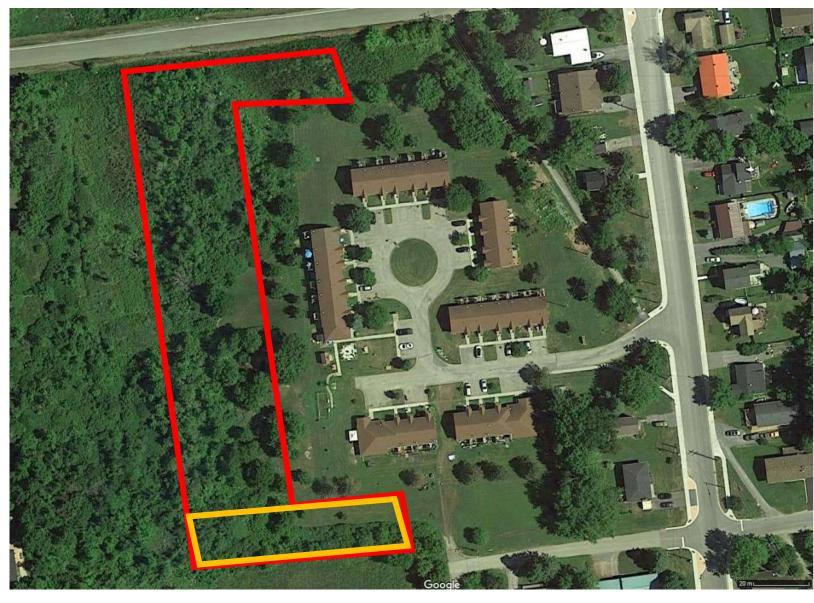


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Project Name: : Phase II ESA - Main Lot & Bonus Lot, Gananoque, ON

Drawing: Site Locatio	Floor: N/A			
THEM Project No: T2	1- 17975-01	Drawing # 2		
Date: 11/05/2021		Drawn by: AT		









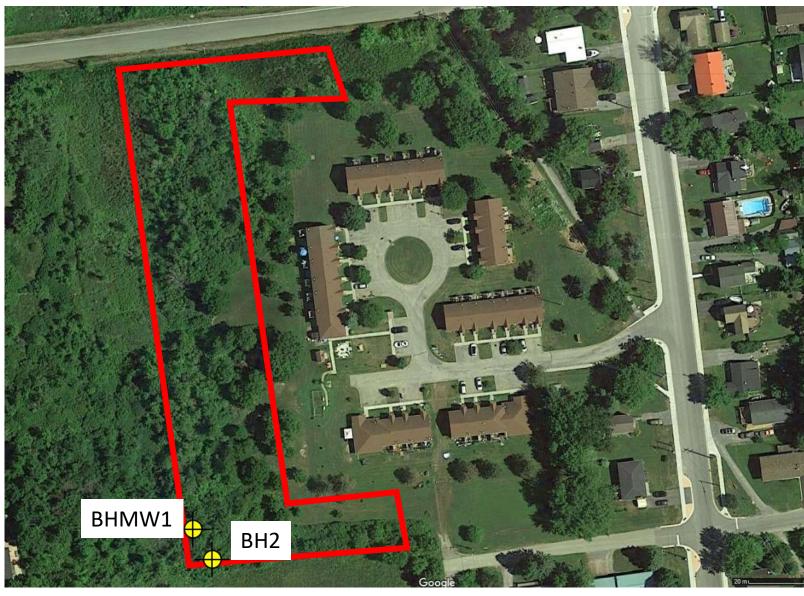


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Project Name: Phase II ESA - Main Lot & Bonus Lot, Gananoque, ON

•		•		
Drawing: Site Locatio	Floor: N/A			
THEM Project No: T2	1- 17975-1	Drawing # 3		
Date: 11/05/2021		Drawn by: AT		
	THEM Project No: T2	Drawing: Site Location Plan THEM Project No: T21- 17975-1 Date: 11/05/2021		









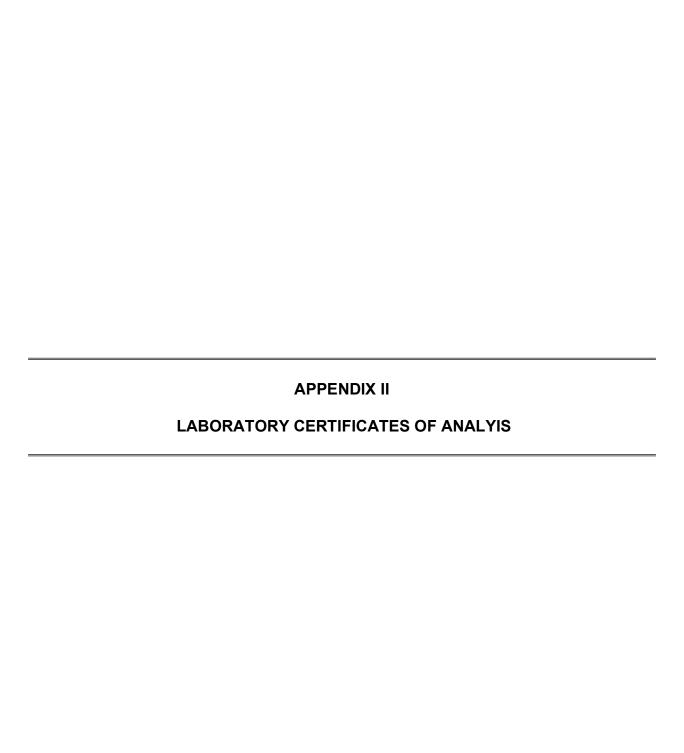
Approx. Site Boundary



Approx. Location of Borehole/ Monitoring Well



1					
	Drawing: Site Location	Floor: N/A			
	THEM Project No: T2	1- 17975-1	Drawing # 4		
	Date: 11/05/2021		Drawn by: AT		





T.HARRIS ENVIRONMENTAL MANAGEMENT INC

ATTN: Dennis Hsu / Alexis Teohari

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Date Received: 11-MAY-21

Report Date: 13-MAY-21 14:57 (MT)

Version: FINAL

Client Phone: 416-523-8729

Certificate of Analysis

Lab Work Order #: L2586345

Project P.O. #: NOT SUBMITTED

Job Reference: C of C Numbers: Legal Site Desc:

Amanda Overholster Account Manager

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Summary of Guideline Exceedances

Guideline						
ALS ID	Client ID	Grouping	Analyte	Result	Guideline Limit	Unit

Ontario Regulation 153/04 - April 15, 2011 Standards - T3-Soil-Res/Park/Inst. Property Use (Coarse)

(No parameter exceedances)



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Physical Tests - SOIL

· · · · · · · · · · · · · · · · · · ·		Sampl	Lab ID	L2586345-1 10-MAY-21	L2586345-2 10-MAY-21	L2586345-3 10-MAY-21
		Sam	ple ID	BHMW3-2	BHMW3-3	BH4-2
Analyte	Guide Limits Unit #1 #2					
Conductivity	mS/cm	0.7	-	0.169		0.0894
% Moisture	%	-	-	20.7	18.0	21.8
pH	pH units	-	-	7.48		6.98

Guide Limit #1: T3-Soil-Res/Park/Inst. Property Use (Coarse)



PAGE 4 of 10 13-MAY-21 14:57 (MT)

Cyanides - SOIL

•	Lab ID Sample Date Sample ID		L2586345-1 10-MAY-21 BHMW3-2	L2586345-3 10-MAY-21 BH4-2	
Analyte	Unit	Guide #1	Limits #2		
Cyanide, Weak Acid Diss	ug/g	0.051	-	<0.050	<0.050

Guide Limit #1: T3-Soil-Res/Park/Inst. Property Use (Coarse)



PAGE 5 of 10 13-MAY-21 14:57 (MT)

Saturated Paste Extractables - SOIL

		Sampl	Lab ID e Date iple ID	L2586345-1 10-MAY-21 BHMW3-2	L2586345-3 10-MAY-21 BH4-2
Analyte	Unit	Guide #1	Limits #2		
SAR	SAR	5	-	0.23	0.35
Calcium (Ca)	mg/L	-	-	20.4	7.24
Magnesium (Mg)	mg/L	-	-	5.64	3.31

Guide Limit #1: T3-Soil-Res/Park/Inst. Property Use (Coarse)



PAGE 6 of 10 13-MAY-21 14:57 (MT)

Metals - SOIL

		Lab ID Sample Date Sample ID		L2586345-1 10-MAY-21 BHMW3-2	L2586345-3 10-MAY-21 BH4-2
Analyte	Unit	Guide #1	Limits #2		
Antimony (Sb)	ug/g	7.5	-	<1.0	<1.0
Arsenic (As)	ug/g	18	-	3.6	3.9
Barium (Ba)	ug/g	390	-	366	351
Beryllium (Be)	ug/g	4	-	1.17	1.21
Boron (B)	ug/g	120	-	13.1	9.6
Boron (B), Hot Water Ext.	ug/g	1.5	-	<0.10	<0.10
Cadmium (Cd)	ug/g	1.2	-	<0.50	<0.50
Chromium (Cr)	ug/g	160	-	62.0	59.4
Cobalt (Co)	ug/g	22	-	19.9	18.6
Copper (Cu)	ug/g	140	-	37.2	36.5
Lead (Pb)	ug/g	120	-	11.1	9.2
Mercury (Hg)	ug/g	0.27	-	0.0077	0.0135
Molybdenum (Mo)	ug/g	6.9	-	<1.0	<1.0
Nickel (Ni)	ug/g	100	-	41.8	43.1
Selenium (Se)	ug/g	2.4	-	<1.0	<1.0
Silver (Ag)	ug/g	20	-	<0.20	<0.20
Thallium (TI)	ug/g	1	-	<0.50	<0.50
Uranium (U)	ug/g	23	-	<1.0	<1.0
Vanadium (V)	ug/g	86	-	84.1	79.8
Zinc (Zn)	ug/g	340	-	103	97.5

Guide Limit #1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

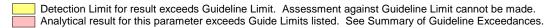


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Speciated Metals - SOIL

- P		Sampl	L2586345-1 10-MAY-21	L2586345-3 10-MAY-21	
		-	ple ID	BHMW3-2	BH4-2
		Guide Limits			
Analyte	Unit	#1	#2		
Chromium, Hexavalent	ug/g	8		0.37	

Guide Limit #1: T3-Soil-Res/Park/Inst. Property Use (Coarse)



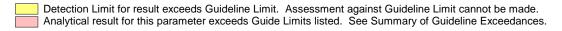


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Polycyclic Aromatic Hydrocarbons - SOIL

		Lab ID Sample Date			L2586345-2 10-MAY-21	L2586345-3 10-MAY-21
Analyte		Sample ID		10-MAY-21 BHMW3-2	BHMW3-3	BH4-2
	Unit	Guide #1	Limits #2			
Acenaphthene	ug/g	7.9	-	<0.050	<0.050	<0.050
Acenaphthylene	ug/g	0.15	-	<0.050	<0.050	<0.050
Anthracene	ug/g	0.67	-	<0.050	< 0.050	<0.050
Benzo(a)anthracene	ug/g	0.5	-	<0.050	<0.050	<0.050
Benzo(a)pyrene	ug/g	0.3	-	< 0.050	< 0.050	< 0.050
Benzo(b&j)fluoranthene	ug/g	0.78	-	<0.050	< 0.050	<0.050
Benzo(g,h,i)perylene	ug/g	6.6	-	<0.050	< 0.050	< 0.050
Benzo(k)fluoranthene	ug/g	0.78	-	<0.050	<0.050	< 0.050
Chrysene	ug/g	7	-	<0.050	< 0.050	< 0.050
Dibenz(a,h)anthracene	ug/g	0.1	-	<0.050	<0.050	< 0.050
Fluoranthene	ug/g	0.69	-	<0.050	< 0.050	< 0.050
Fluorene	ug/g	62	-	<0.050	<0.050	< 0.050
Indeno(1,2,3-cd)pyrene	ug/g	0.38	-	<0.050	< 0.050	< 0.050
1+2-Methylnaphthalenes	ug/g	0.99	-	<0.042	<0.042	< 0.042
1-Methylnaphthalene	ug/g	0.99	-	<0.030	< 0.030	<0.030
2-Methylnaphthalene	ug/g	0.99	-	<0.030	<0.030	<0.030
Naphthalene	ug/g	0.6	-	<0.013	< 0.013	<0.013
Phenanthrene	ug/g	6.2	-	<0.046	<0.046	<0.046
Pyrene	ug/g	78	-	<0.050	< 0.050	<0.050
Surrogate: 2-Fluorobiphenyl	%	-	-	90.3	93.8	90.5
Surrogate: d14-Terphenyl	%	-	-	89.1	94.7	88.4

Guide Limit #1: T3-Soil-Res/Park/Inst. Property Use (Coarse)



Reference Information

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Methods Listed (if applicable):

ALS Test Code Matrix Test Description Method Reference**

B-HWS-R511-WT Soil Boron-HWE-O.Reg 153/04 (July 2011) HW EXTR, EPA 6010B

A dried solid sample is extracted with calcium chloride, the sample undergoes a heating process. After cooling the sample is filtered and analyzed by ICP/OES.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CN-WAD-R511-WT Soil Cyanide (WAD)-O.Reg 153/04 (July MOE 3015/APHA 4500CN I-WAD

The sample is extracted with a strong base for 16 hours, and then filtered. The filtrate is then distilled where the cyanide is converted to cyanogen chloride by reacting with chloramine-T, the cyanogen chloride then reacts with a combination of barbituric acid and isonicotinic acid to form a highly colored complex.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CR-CR6-IC-WT Soil Hexavalent Chromium in Soil SW846 3060A/7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

EC-WT Soil Conductivity (EC) MOEE E3138

A representative subsample is tumbled with de-ionized (DI) water. The ratio of water to soil is 2:1 v/w. After tumbling the sample is then analyzed by a conductivity meter.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

HG-200.2-CVAA-WT Soil Mercury in Soil by CVAAS EPA 200.2/1631E (mod)

Soil samples are digested with nitric and hydrochloric acids, followed by analysis by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

MET-200.2-CCMS-WT Soil Metals in Soil by CRC ICPMS EPA 200.2/6020B (mod)

Soil/sediment is dried, disaggregated, and sieved (2 mm). For tests intended to support Ontario regulations, the <2mm fraction is ground to pass through a 0.355 mm sieve. Strong Acid Leachable Metals in the <2mm fraction are solubilized by heated digestion with nitric and hydrochloric acids. Instrumental analysis is by Collision / Reaction Cell ICPMS.

Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including Al, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H2S) may be excluded if lost during sampling, storage, or digestion.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

METHYLNAPS-CALC-WT Soil ABN-Calculated Parameters SW846 8270

MOISTURE-WT Soil % Moisture CCME PHC in Soil - Tier 1 (mod)

PAH-511-WT Soil PAH-O.Reg 153/04 (July 2011) SW846 3510/8270

A representative sub-sample of soil is fortified with deuterium-labelled surrogates and a mechanical shaking technique used to extract the sample with a mixture of methanol and toluene. The extracts are concentrated and analyzed by GC/MS. Results for benzo(b) fluoranthene may include contributions from benzo(j)fluoranthene, if also present in the sample.

L2586345 CONT'D....

Reference Information

PAGE 10 of 10 13-MAY-21 14:57 (MT)

Methods Listed (if applicable):

ALS Test Code Matrix Test Description Method Reference**

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

PH-WT

Soil

рΗ

MOEE E3137A

A minimum 10g portion of the sample is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil and then analyzed using a pH meter and electrode.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

SAR-R511-WT

Soil

SAR-O.Reg 153/04 (July 2011)

SW846 6010C

A dried, disaggregated solid sample is extracted with deionized water, the aqueous extract is separated from the solid, acidified and then analyzed using a ICP/OES. The concentrations of Na, Ca and Mg are reported as per CALA requirements for calculated parameters. These individual parameters are not for comparison to any guideline.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

**ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody Numbers:

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code

Laboratory Location

WT

ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.



Workorder: L2586345 Report Date: 13-MAY-21 Page 1 of 8

Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
B-HWS-R511-WT	Soil							
Batch R5457082 WG3533775-4 DUP Boron (B), Hot Water E		L2586345-1 <0.10	<0.10	RPD-NA	ug/g	N/A	30	13-MAY-21
WG3533775-2 IRM Boron (B), Hot Water E	xt.	WT SAR4	107.3		%		70-130	13-MAY-21
WG3533775-3 LCS Boron (B), Hot Water E	xt.		102.0		%		70-130	13-MAY-21
WG3533775-1 MB Boron (B), Hot Water E	xt.		<0.10		ug/g		0.1	13-MAY-21
CN-WAD-R511-WT	Soil							
Batch R5457113								
WG3532946-3 DUP Cyanide, Weak Acid Dis	ss	L2585927-20 < 0.050	<0.050	RPD-NA	ug/g	N/A	35	13-MAY-21
WG3532946-2 LCS Cyanide, Weak Acid Dis	ss		92.5		%		80-120	13-MAY-21
WG3532946-1 MB Cyanide, Weak Acid Dis	SS		<0.050		ug/g		0.05	13-MAY-21
WG3532946-4 MS Cyanide, Weak Acid Di	ss	L2585927-20	107.7		%		70-130	13-MAY-21
CR-CR6-IC-WT	Soil							
Batch R5456538								
WG3532929-4 CRM Chromium, Hexavalent		WT-SQC012	111.8		%		70-130	12-MAY-21
WG3532929-3 DUP Chromium, Hexavalent		L2585927-29 0.21	<0.20	RPD-NA	ug/g	N/A	35	12-MAY-21
WG3532929-2 LCS Chromium, Hexavalent			99.0		%		80-120	12-MAY-21
WG3532929-1 MB Chromium, Hexavalent			<0.20		ug/g		0.2	12-MAY-21
EC-WT	Soil							
Batch R5457001								
WG3533776-4 DUP Conductivity		WG3533776-3 0.209	0.216		mS/cm	3.3	20	13-MAY-21
WG3533776-2 IRM Conductivity		WT SAR4	100.4		%		70-130	13-MAY-21
WG3534026-1 LCS Conductivity			103.8		%		90-110	13-MAY-21
WG3533776-1 MB								



Workorder: L2586345

Report Date: 13-MAY-21

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Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-WT	Soil							
Batch R5457001 WG3533776-1 MB Conductivity			<0.0040		mS/cm		0.004	13-MAY-21
HG-200.2-CVAA-WT	Soil							
Batch R5456854 WG3533774-2 CRM Mercury (Hg)		WT-SS-2	105.6		%		70-130	13-MAY-21
WG3533774-6 DUP Mercury (Hg)		WG3533774-5 0.0077	0.0114		ug/g	39	40	13-MAY-21
WG3533774-3 LCS Mercury (Hg)			106.5		%		80-120	13-MAY-21
WG3533774-1 MB Mercury (Hg)	0-11		<0.0050		mg/kg		0.005	13-MAY-21
MET-200.2-CCMS-WT	Soil							
Batch R5457071 WG3533774-2 CRM Antimony (Sb)		WT-SS-2	97.8		%		70-130	13-MAY-21
Arsenic (As)			105.6		%		70-130	13-MAY-21
Barium (Ba)			107.5		%		70-130	13-MAY-21
Beryllium (Be)			112.6		%		70-130	13-MAY-21
Boron (B)			10.0		mg/kg		3.5-13.5	13-MAY-21
Cadmium (Cd)			122.5		%		70-130	13-MAY-21
Chromium (Cr)			105.8		%		70-130	13-MAY-21
Cobalt (Co)			103.9		%		70-130	13-MAY-21
Copper (Cu)			105.4		%		70-130	13-MAY-21
Lead (Pb)			104.4		%		70-130	13-MAY-21
Molybdenum (Mo)			104.7		%		70-130	13-MAY-21
Nickel (Ni)			105.9		%		70-130	13-MAY-21
Selenium (Se)			0.12		mg/kg		0-0.34	13-MAY-21
Silver (Ag)			100.8		%		70-130	13-MAY-21
Thallium (TI)			0.073		mg/kg		0.029-0.129	13-MAY-21
Uranium (U)			101.3		%		70-130	13-MAY-21
Vanadium (V)			108.2		%		70-130	13-MAY-21
Zinc (Zn)			105.1		%		70-130	13-MAY-21
WG3533774-6 DUP Antimony (Sb)		WG3533774-5 <0.10	0.13	RPD-NA	ug/g	N/A	30	13-MAY-21



Workorder: L2586345 Report Date: 13-MAY-21 Page 3 of 8

Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							_
Batch R5457071								
WG3533774-6 DUP Arsenic (As)		WG3533774-5 3.65	3.44		ug/g	5.8	30	13-MAY-21
Barium (Ba)		366	335		ug/g	9.1	40	13-MAY-21
Beryllium (Be)		1.17	1.15		ug/g	1.4	30	13-MAY-21
Boron (B)		13.1	12.6		ug/g	4.3	30	13-MAY-21
Cadmium (Cd)		0.107	0.108		ug/g	1.4	30	13-MAY-21
Chromium (Cr)		62.0	57.1		ug/g	8.1	30	13-MAY-21
Cobalt (Co)		19.9	18.2		ug/g	8.7	30	13-MAY-21
Copper (Cu)		37.2	34.8		ug/g	6.6	30	13-MAY-21
Lead (Pb)		11.1	10.6		ug/g	4.5	40	13-MAY-21
Molybdenum (Mo)		0.55	0.49		ug/g	12	40	13-MAY-21
Nickel (Ni)		41.8	38.9		ug/g	7.2	30	13-MAY-21
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	13-MAY-21
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	13-MAY-21
Thallium (TI)		0.373	0.396		ug/g	6.1	30	13-MAY-21
Uranium (U)		0.678	0.629		ug/g	7.4	30	13-MAY-21
Vanadium (V)		84.1	78.4		ug/g	7.0	30	13-MAY-21
Zinc (Zn)		103	96.9		ug/g	5.9	30	13-MAY-21
WG3533774-4 LCS								
Antimony (Sb)			114.7		%		80-120	13-MAY-21
Arsenic (As)			112.2		%		80-120	13-MAY-21
Barium (Ba)			108.0		%		80-120	13-MAY-21
Beryllium (Be)			109.2		%		80-120	13-MAY-21
Boron (B)			106.7		%		80-120	13-MAY-21
Cadmium (Cd)			104.9		%		80-120	13-MAY-21
Chromium (Cr)			109.3		%		80-120	13-MAY-21
Cobalt (Co)			108.0		%		80-120	13-MAY-21
Copper (Cu) Lead (Pb)			106.0 108.3		% %		80-120	13-MAY-21
Molybdenum (Mo)			110.5		%		80-120	13-MAY-21
Nickel (Ni)			107.7		%		80-120 80-120	13-MAY-21
Selenium (Se)			110.3		%		80-120 80-120	13-MAY-21 13-MAY-21
Silver (Ag)			110.8		%		80-120 80-120	13-MAY-21
Thallium (TI)			107.1		%		80-120	13-MAY-21
maniam (11)			107.1		70		00-120	13-IVIA 1-2 I



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Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5457071								
WG3533774-4 LCS Uranium (U)			105.5		%		90.420	42 MAY 24
Vanadium (V)			111.6		%		80-120 80-120	13-MAY-21 13-MAY-21
Zinc (Zn)			106.4		%		80-120	13-MAY-21
WG3533774-1 MB			100.4		70		60-120	13-IVIA 1-21
Antimony (Sb)			<0.10		mg/kg		0.1	13-MAY-21
Arsenic (As)			<0.10		mg/kg		0.1	13-MAY-21
Barium (Ba)			<0.50		mg/kg		0.5	13-MAY-21
Beryllium (Be)			<0.10		mg/kg		0.1	13-MAY-21
Boron (B)			<5.0		mg/kg		5	13-MAY-21
Cadmium (Cd)			<0.020		mg/kg		0.02	13-MAY-21
Chromium (Cr)			<0.50		mg/kg		0.5	13-MAY-21
Cobalt (Co)			<0.10		mg/kg		0.1	13-MAY-21
Copper (Cu)			<0.50		mg/kg		0.5	13-MAY-21
Lead (Pb)			<0.50		mg/kg		0.5	13-MAY-21
Molybdenum (Mo)			<0.10		mg/kg		0.1	13-MAY-21
Nickel (Ni)			<0.50		mg/kg		0.5	13-MAY-21
Selenium (Se)			<0.20		mg/kg		0.2	13-MAY-21
Silver (Ag)			<0.10		mg/kg		0.1	13-MAY-21
Thallium (TI)			< 0.050		mg/kg		0.05	13-MAY-21
Uranium (U)			< 0.050		mg/kg		0.05	13-MAY-21
Vanadium (V)			<0.20		mg/kg		0.2	13-MAY-21
Zinc (Zn)			<2.0		mg/kg		2	13-MAY-21
MOISTURE-WT	Soil							
Batch R5456100								
WG3533037-3 DUP % Moisture		L2586405-6 15.3	15.9		%	3.6	20	12-MAY-21
WG3533037-2 LCS % Moisture			99.9		%		90-110	12-MAY-21
WG3533037-1 MB % Moisture			<0.25		%		0.25	12-MAY-21
PAH-511-WT	Soil							
Batch R5456757								
WG3532996-3 DUP 1-Methylnaphthalene		WG3532996-5 <0.030	<0.030	RPD-NA	ug/g	N/A	40	13-MAY-21



Workorder: L2586345 Report Date: 13-MAY-21 Page 5 of 8

Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

PAH-511-WT Soil	Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
### Sack Sack Sack Sack Sack Sack Sack Sack	PAH-511-WT	Soil							
2-Metrylyhaphthalene <0.030	Batch R5456757								
Acenaphthene <0.050					DDD NA	ua/a	NI/A	40	42 MAN 24
Acenaphthylene <0.050 <0.050 RPD-NA ug/g N/A 40 13-MAY-21 Anthracene <0.050									
Anthracene <0.050 <0.050 RPD-NA ug/g N/A 40 13-MAY-21 Benzo(a)aynthracene <0.050									
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Benzo(b8))fluoranthene <0.050 <0.050 RPD-NA ug/g N/A 40 13-MAY-21 Benzo(g,h,i)perylene <0.050	()								
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Dibenz(a,h)anthracene									
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Fluorene <0.050 <0.050 RPD-NA ug/g N/A 40 13-MAY-21 Indeno(1,2,3-cd)pyrene <0.050									
Indeno(1,2,3-cd)pyrene <0.050									
Naphthalene <0.013 <0.013 RPD-NA ug/g N/A 40 13-MAY-21 Phenanthrene <0.046									13-MAY-21
Phenanthrene <0.046 <0.046 RPD-NA ug/g N/A 40 13-MAY-21 Pyrene <0.050 RPD-NA ug/g N/A 40 13-MAY-21 WG3532996-2 LCS 1-Methylnaphthalene 91.3 % 50-140 13-MAY-21 2-Methylnaphthalene 88.5 % 50-140 13-MAY-21 Acenaphthene 87.7 % 50-140 13-MAY-21 Acenaphthylene 83.3 % 50-140 13-MAY-21 Anthracene 76.2 % 50-140 13-MAY-21 Benzo(a)anthracene 86.5 % 50-140 13-MAY-21 Benzo(a)pyrene 75.4 % 50-140 13-MAY-21 Benzo(bă)fluoranthene 82.1 % 50-140 13-MAY-21 Benzo(b, l)perylene 85.9 % 50-140 13-MAY-21 Benzo(k)fluoranthene 86.5 % 50-140 13-MAY-21 Chrysene 87.5 % 50-140 13-MAY-21 Diben						ug/g	N/A	40	13-MAY-21
Pyrene < <0.050 <0.050 RPD-NA ug/g N/A 40 13-MAY-21 WG3532996-2 LCS 1-Methylnaphthalene	•		<0.013	<0.013	RPD-NA		N/A	40	13-MAY-21
WG3532996-2 LCS 1-Methylnaphthalene 91.3 % 50-140 13-MAY-21 2-Methylnaphthalene 88.5 % 50-140 13-MAY-21 Acenaphthene 87.7 % 50-140 13-MAY-21 Acenaphthylene 83.3 % 50-140 13-MAY-21 Anthracene 76.2 % 50-140 13-MAY-21 Benzo(a)anthracene 86.5 % 50-140 13-MAY-21 Benzo(a)pyrene 75.4 % 50-140 13-MAY-21 Benzo(b&ij)fluoranthene 82.1 % 50-140 13-MAY-21 Benzo(g,h,i)perylene 85.9 % 50-140 13-MAY-21 Benzo(k)fluoranthene 86.5 % 50-140 13-MAY-21 Chrysene 87.5 % 50-140 13-MAY-21 Dibenz(a,h)anthracene 83.8 % 50-140 13-MAY-21 Fluoranthene 84.8 % 50-140 13-MAY-21 Fluorene 85.1 % 50-140 13-MAY-21	Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	13-MAY-21
1-Methylnaphthalene 91.3 % 50-140 13-MAY-21 2-Methylnaphthalene 88.5 % 50-140 13-MAY-21 Acenaphthene 87.7 % 50-140 13-MAY-21 Acenaphthylene 83.3 % 50-140 13-MAY-21 Anthracene 76.2 % 50-140 13-MAY-21 Benzo(a)anthracene 86.5 % 50-140 13-MAY-21 Benzo(a)pyrene 75.4 % 50-140 13-MAY-21 Benzo(b&j)fluoranthene 82.1 % 50-140 13-MAY-21 Benzo(g,h,i)perylene 85.9 % 50-140 13-MAY-21 Benzo(k)fluoranthene 86.5 % 50-140 13-MAY-21 Chrysene 87.5 % 50-140 13-MAY-21 Dibenz(a,h)anthracene 83.8 % 50-140 13-MAY-21 Fluoranthene 84.8 % 50-140 13-MAY-21 Fluorene 85.1 % 50-140 13-MAY-21	Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
2-Methylnaphthalene 88.5 % 50-140 13-MAY-21 Acenaphthene 87.7 % 50-140 13-MAY-21 Acenaphthylene 83.3 % 50-140 13-MAY-21 Anthracene 76.2 % 50-140 13-MAY-21 Benzo(a)anthracene 86.5 % 50-140 13-MAY-21 Benzo(a)pyrene 75.4 % 50-140 13-MAY-21 Benzo(b&j)fluoranthene 82.1 % 50-140 13-MAY-21 Benzo(g,h,i)perylene 85.9 % 50-140 13-MAY-21 Benzo(k)fluoranthene 86.5 % 50-140 13-MAY-21 Chrysene 87.5 % 50-140 13-MAY-21 Dibenz(a,h)anthracene 83.8 % 50-140 13-MAY-21 Fluoranthene 84.8 % 50-140 13-MAY-21 Fluorene 85.1 % 50-140 13-MAY-21				91.3		%		50-140	13-MAY-21
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Benzo(a)anthracene 86.5 % 50-140 13-MAY-21 Benzo(a)pyrene 75.4 % 50-140 13-MAY-21 Benzo(b&j)fluoranthene 82.1 % 50-140 13-MAY-21 Benzo(g,h,i)perylene 85.9 % 50-140 13-MAY-21 Benzo(k)fluoranthene 86.5 % 50-140 13-MAY-21 Chrysene 87.5 % 50-140 13-MAY-21 Dibenz(a,h)anthracene 83.8 % 50-140 13-MAY-21 Fluoranthene 84.8 % 50-140 13-MAY-21 Fluorene 85.1 % 50-140 13-MAY-21									
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Benzo(b&j)fluoranthene 82.1 % 50-140 13-MAY-21 Benzo(g,h,i)perylene 85.9 % 50-140 13-MAY-21 Benzo(k)fluoranthene 86.5 % 50-140 13-MAY-21 Chrysene 87.5 % 50-140 13-MAY-21 Dibenz(a,h)anthracene 83.8 % 50-140 13-MAY-21 Fluoranthene 84.8 % 50-140 13-MAY-21 Fluorene 85.1 % 50-140 13-MAY-21	Benzo(a)pyrene			75.4		%			
Benzo(g,h,i)perylene 85.9 % 50-140 13-MAY-21 Benzo(k)fluoranthene 86.5 % 50-140 13-MAY-21 Chrysene 87.5 % 50-140 13-MAY-21 Dibenz(a,h)anthracene 83.8 % 50-140 13-MAY-21 Fluoranthene 84.8 % 50-140 13-MAY-21 Fluorene 85.1 % 50-140 13-MAY-21	Benzo(b&j)fluoranthene			82.1		%		50-140	
Benzo(k)fluoranthene 86.5 % 50-140 13-MAY-21 Chrysene 87.5 % 50-140 13-MAY-21 Dibenz(a,h)anthracene 83.8 % 50-140 13-MAY-21 Fluoranthene 84.8 % 50-140 13-MAY-21 Fluorene 85.1 % 50-140 13-MAY-21	Benzo(g,h,i)perylene			85.9		%		50-140	
Chrysene 87.5 % 50-140 13-MAY-21 Dibenz(a,h)anthracene 83.8 % 50-140 13-MAY-21 Fluoranthene 84.8 % 50-140 13-MAY-21 Fluorene 85.1 % 50-140 13-MAY-21	Benzo(k)fluoranthene			86.5		%			
Dibenz(a,h)anthracene 83.8 % 50-140 13-MAY-21 Fluoranthene 84.8 % 50-140 13-MAY-21 Fluorene 85.1 % 50-140 13-MAY-21	Chrysene			87.5		%			
Fluoranthene 84.8 % 50-140 13-MAY-21 Fluorene 85.1 % 50-140 13-MAY-21	Dibenz(a,h)anthracene			83.8		%			
Fluorene 85.1 % 50-140 13-MAY-21	Fluoranthene			84.8		%			
	Fluorene			85.1		%			
	Indeno(1,2,3-cd)pyrene			82.4		%		50-140	



Workorder: L2586345 Report Date: 13-MAY-21 Page 6 of 8

Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch R5456757	7							
WG3532996-2 LCS			05.0		0/			
Naphthalene			85.6		%		50-140	13-MAY-21
Phenanthrene			88.1		%		50-140	13-MAY-21
Pyrene			84.3		%		50-140	13-MAY-21
WG3532996-1 MB 1-Methylnaphthalene			<0.030		ug/g		0.03	13-MAY-21
2-Methylnaphthalene			<0.030		ug/g		0.03	13-MAY-21
Acenaphthene			<0.050		ug/g		0.05	13-MAY-21
Acenaphthylene			<0.050		ug/g		0.05	13-MAY-21
Anthracene			<0.050		ug/g		0.05	13-MAY-21
Benzo(a)anthracene			<0.050		ug/g		0.05	13-MAY-21
Benzo(a)pyrene			<0.050		ug/g		0.05	13-MAY-21
Benzo(b&j)fluoranthene	е		<0.050		ug/g		0.05	13-MAY-21
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	13-MAY-21
Benzo(k)fluoranthene			<0.050		ug/g		0.05	13-MAY-21
Chrysene			<0.050		ug/g		0.05	13-MAY-21
Dibenz(a,h)anthracene	•		<0.050		ug/g		0.05	13-MAY-21
Fluoranthene			<0.050		ug/g		0.05	13-MAY-21
Fluorene			<0.050		ug/g		0.05	13-MAY-21
Indeno(1,2,3-cd)pyrene	Э		<0.050		ug/g		0.05	13-MAY-21
Naphthalene			<0.013		ug/g		0.013	13-MAY-21
Phenanthrene			<0.046		ug/g		0.046	13-MAY-21
Pyrene			< 0.050		ug/g		0.05	13-MAY-21
Surrogate: 2-Fluorobipl	henyl		88.0		%		50-140	13-MAY-21
Surrogate: d14-Terphe	nyl		83.8		%		50-140	13-MAY-21
WG3532996-4 MS		WG3532996-5						
1-Methylnaphthalene			94.5		%		50-140	13-MAY-21
2-Methylnaphthalene			91.6		%		50-140	13-MAY-21
Acenaphthene			92.4		%		50-140	13-MAY-21
Acenaphthylene			86.7		%		50-140	13-MAY-21
Anthracene			80.6		%		50-140	13-MAY-21
Benzo(a)anthracene			93.4		%		50-140	13-MAY-21
Benzo(a)pyrene			81.2		%		50-140	13-MAY-21
Benzo(b&j)fluoranthene	е		90.7		%		50-140	13-MAY-21
Benzo(g,h,i)perylene			91.1		%		50-140	13-MAY-21



Workorder: L2586345 Report Date: 13-MAY-21 Page 7 of 8

Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch R5456757 WG3532996-4 MS Benzo(k)fluoranthene		WG3532996-5	90.7		%		50-140	13-MAY-21
Chrysene			92.1		%		50-140	13-MAY-21
Dibenz(a,h)anthracene			90.8		%		50-140	13-MAY-21
Fluoranthene			89.5		%		50-140	13-MAY-21
Fluorene			90.7		%		50-140	13-MAY-21
Indeno(1,2,3-cd)pyrene			86.6		%		50-140	13-MAY-21
Naphthalene			87.2		%		50-140	13-MAY-21
Phenanthrene			92.0		%		50-140	13-MAY-21
Pyrene			88.9		%		50-140	13-MAY-21
PH-WT	Soil							
Batch R5456379 WG3533325-1 LCS pH	30.1		6.97		pH units		6.9-7.1	12-MAY-21
SAR-R511-WT	Soil							
Batch R5457090								
WG3533776-4 DUP		WG3533776-3			m a/I	0.0	00	
Calcium (Ca)		39.4	38.5		mg/L	2.3	30	13-MAY-21
Sodium (Na)		1.59	1.56		mg/L	1.9	30	13-MAY-21
Magnesium (Mg)		1.28	1.16		mg/L	9.8	30	13-MAY-21
WG3533776-2 IRM Calcium (Ca)		WT SAR4	95.6		%		70-130	13-MAY-21
Sodium (Na)			97.7		%		70-130	13-MAY-21
Magnesium (Mg)			98.3		%		70-130	13-MAY-21
WG3533776-5 LCS								
Calcium (Ca)			106.7		%		80-120	13-MAY-21
Sodium (Na)			100.0		%		80-120	13-MAY-21
Magnesium (Mg)			101.4		%		80-120	13-MAY-21
WG3533776-1 MB Calcium (Ca)			<0.50		mg/L		0.5	13-MAY-21
Sodium (Na)			<0.50		mg/L		0.5	13-MAY-21
Magnesium (Mg)			<0.50		mg/L		0.5	13-MAY-21

Page 8 of 8

Workorder: L2586345 Report Date: 13-MAY-21

T.HARRIS ENVIRONMENTAL MANAGEMENT INC Client:

93 Skyway Ave.

Etobicoke ON M9W 6N6

Dennis Hsu / Alexis Teohari

Legend:

Contact:

Limit ALS Control Limit (Data Quality Objectives)

DUP Duplicate

RPD Relative Percent Difference

N/A Not Available

LCS Laboratory Control Sample SRM Standard Reference Material

MS Matrix Spike

MSD Matrix Spike Duplicate

Average Desorption Efficiency ADE

Method Blank MB

Internal Reference Material IRM CRM Certified Reference Material CCV Continuing Calibration Verification CVS Calibration Verification Standard LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.





COC Number: 20 - 888364

(ALS)	www.alsglobal.com			L	2586345-C	OFC							Pi	age	OT					
Report To	Contact and company name below will app	ear on the final report	T	Reports /	Recipients		ı	-	Turn	around T	ime (TAT)	Reques	sted							
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Contact:	Oennis Hsn : Abair Teo	(mar)	Merge QC/QC	Reports with COA	YES 1	NO N/A	1							arge minimum						-
Phone:	416 435 1164		Compare Resi	ults to Criteria on Report -	provide details below	if box checked	.□.3	day (P3] if receive	d by 3pm	M-F - 25%	ush surc	charge mi	inimum		AFFIX A	LS BARC			.RE
	Company address below will appear on the final	il report	Select Distribution	on: 🗀 EMAIL	☐ MAIL ☐	FAX	2	day [P2) if receive	d by 3pm	M-F - 50%	ush surc	:harge mi	nimum			(ALS u	ise only)		
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REFER TO BACK	PAGE FOR ALS LOCATIONS AND SAMPLING INF	ORMATION	·	VAZELIT	I LABORATORS	(CODY VEH O	N 0115			4			<u> </u>	<u> </u>	لمحد	<u> </u>		1	. (<u> </u>

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1 If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.



T.HARRIS ENVIRONMENTAL

MANAGEMENT INC

ATTN: Dennis Hsu/ Alexis Teohari

93 Skyway Ave.

Etobicoke ON M9W 6N6

Date Received: 11-MAY-21

Report Date: 13-MAY-21 15:00 (MT)

Version: FINAL

Client Phone: 416-523-8729

Certificate of Analysis

Lab Work Order #: L2586364

Project P.O. #: NOT SUBMITTED

Job Reference: C of C Numbers: Legal Site Desc:

Amanda Overholster Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 5730 Coopers Avenue, Unit #26 , Mississauga, ON L4Z 2E9 Canada | Phone: +1 905 507 6910 | Fax: +1 905 507 6927 ALS CANADA LTD Part of the ALS Group An ALS Limited Company





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Summary of Guideline Exceedances

Guideline						
ALS ID	Client ID	Grouping	Analyte	Result	Guideline Limit	Unit

Ontario Regulation 153/04 - April 15, 2011 Standards - T3-Non-Potable Ground Water-All Types of Property Uses (Coarse) (No parameter exceedances)

^{*} Please refer to the Reference Information section for an explanation of any qualifiers noted.



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Physical Tests - WATER

	:	Sampl	Lab ID e Date iple ID	L2586364-1 10-MAY-21 BHMW3
Analyte	Unit	Guide #1	Limits #2	
Conductivity	mS/cm	-	-	0.618
pH	pH units	-	-	7.73

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (Coarse)

^{*} Please refer to the Reference Information section for an explanation of any qualifiers noted.

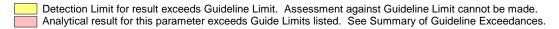


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Anions and Nutrients - WATER

		Sample	_ab ID e Date ple ID	L2586364-1 10-MAY-21 BHMW3
Analyte	Unit	Guide #1	Limits #2	
Chloride (CI)	mg/L	2300	-	15.0

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (Coarse)



^{*} Please refer to the Reference Information section for an explanation of any qualifiers noted.



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Cyanides - WATER

		Sampl	Lab ID e Date iple ID	L2586364-1 10-MAY-21 BHMW3
Analyte	Unit	Guide #1	Limits #2	
Cyanide, Weak Acid Diss	ug/L	66	-	<2.0

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (Coarse)

^{*} Please refer to the Reference Information section for an explanation of any qualifiers noted.



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Dissolved Metals - WATER

		Sample	ab ID Date ple ID	L2586364-1 10-MAY-21 BHMW3
Analyte	Unit	Guide I #1	Limits #2	
Dissolved Mercury Filtration Location		-	-	FIELD
Dissolved Metals Filtration Location		-	-	FIELD
Antimony (Sb)-Dissolved	ug/L	20000	-	0.20
Arsenic (As)-Dissolved	ug/L	1900	-	4.15
Barium (Ba)-Dissolved	ug/L	29000	-	159
Beryllium (Be)-Dissolved	ug/L	67	-	<0.10
Boron (B)-Dissolved	ug/L	45000	-	12
Cadmium (Cd)-Dissolved	ug/L	2.7	-	<0.010
Chromium (Cr)-Dissolved	ug/L	810	-	1.76
Cobalt (Co)-Dissolved	ug/L	66	-	0.93
Copper (Cu)-Dissolved	ug/L	87	-	5.14
Lead (Pb)-Dissolved	ug/L	25	-	0.766
Mercury (Hg)-Dissolved	ug/L	0.29	-	< 0.0050 PDM
Molybdenum (Mo)-Dissolved	ug/L	9200	-	0.721
Nickel (Ni)-Dissolved	ug/L	490	-	2.15
Selenium (Se)-Dissolved	ug/L	63	-	0.060
Silver (Ag)-Dissolved	ug/L	1.5	-	<0.050
Sodium (Na)-Dissolved	ug/L	2300000	-	8360
Thallium (TI)-Dissolved	ug/L	510	-	0.022
Uranium (U)-Dissolved	ug/L	420	-	1.06
Vanadium (V)-Dissolved	ug/L	250	-	4.03
Zinc (Zn)-Dissolved	ug/L	1100	-	6.1

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (Coarse)

^{*} Please refer to the Reference Information section for an explanation of any qualifiers noted.

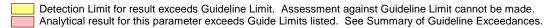


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Speciated Metals - WATER

		Sampl	Lab ID e Date iple ID	L2586364-1 10-MAY-21 BHMW3
Analyte	Unit	Guide #1	Limits #2	
Chromium, Hexavalent	ug/L	140	-	<0.50

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (Coarse)



^{*} Please refer to the Reference Information section for an explanation of any qualifiers noted.



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Polycyclic Aromatic Hydrocarbons - WATER

Lab ID	L2586364-1
Sample Date	10-MAY-21
Sample ID	BHMW3

		Guide I	imits	
Analyte	Unit	#1	#2	
Acenaphthene	ug/L	600	-	<0.020
Acenaphthylene	ug/L	1.8	-	<0.020
Anthracene	ug/L	2.4	-	<0.020
Benzo(a)anthracene	ug/L	4.7	-	<0.020
Benzo(a)pyrene	ug/L	0.81	-	<0.010
Benzo(b&j)fluoranthene	ug/L	0.75	-	<0.020
Benzo(g,h,i)perylene	ug/L	0.2	-	<0.020
Benzo(k)fluoranthene	ug/L	0.4	-	<0.020
Chrysene	ug/L	1	-	<0.020
Dibenz(a,h)anthracene	ug/L	0.52	-	<0.020
Fluoranthene	ug/L	130	-	<0.020
Fluorene	ug/L	400	-	<0.020
Indeno(1,2,3-cd)pyrene	ug/L	0.2	-	<0.020
1+2-Methylnaphthalenes	ug/L	1800	-	<0.028
1-Methylnaphthalene	ug/L	1800	-	<0.020
2-Methylnaphthalene	ug/L	1800	-	<0.020
Naphthalene	ug/L	1400	-	< 0.050
Phenanthrene	ug/L	580	-	0.046
Pyrene	ug/L	68	-	0.029
Surrogate: Acenaphthene d10	%	-	-	64.5
Surrogate: Chrysene d12	%	-	-	62.1
Surrogate: Naphthalene d8	%	-	-	60.2
Surrogate: Phenanthrene d10	%	-	-	83.8

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (Coarse)

^{*} Please refer to the Reference Information section for an explanation of any qualifiers noted.



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Organochlorine Pesticides	- WATER			
	Lab ID Sample Date Sample ID			
Analyte	Unit	Guide I #1	_imits #2	
Aldrin	ug/L	8.5	-	<0.0080
gamma-hexachlorocyclohexane	ug/L	1.2	-	<0.0080
a-chlordane	ug/L	-	-	<0.0080
Chlordane (Total)	ug/L	28	-	<0.011
g-chlordane	ug/L	-	-	<0.0080
o,p-DDD	ug/L	-	-	<0.0040
pp-DDD	ug/L	-	-	<0.0040
Total DDD	ug/L	45	-	<0.0057
o,p-DDE	ug/L	-	-	<0.0040
pp-DDE	ug/L	-	-	<0.0040
Total DDE	ug/L	20	-	<0.0057
op-DDT	ug/L	-	-	<0.0040
pp-DDT	ug/L	-	-	<0.0040
Total DDT	ug/L	2.8	-	<0.0057
DDT+Metabolites	ug/L	-	-	<0.0098
Dieldrin	ug/L	0.75	-	<0.0080
Endosulfan I	ug/L	-	-	<0.0070
Endosulfan II	ug/L	-	-	<0.0070
Endosulfan (Total)	ug/L	1.5	-	<0.0099
Endrin	ug/L	0.48	-	<0.010
Heptachlor	ug/L	2.5	-	<0.0080
Heptachlor Epoxide	ug/L	0.048	-	<0.0080
Hexachlorobenzene	ug/L	3.1	-	<0.0080
Hexachlorobutadiene	ug/L	0.44	-	<0.0080
Hexachloroethane	ug/L	94	-	<0.0080
Methoxychlor	ug/L	6.5	-	<0.0080
Surrogate: Decachlorobiphenyl	%	-	-	96.7
Surrogate: Tetrachloro-m-xylene	%	-	-	92.4

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (Coarse)

^{*} Please refer to the Reference Information section for an explanation of any qualifiers noted.

Reference Information

L2586364 CONT'D....

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Qualifiers for Individual Parameters Listed:

Qualifier Description

PDM Particulate was observed in preserved Dissolved Metals sample. Associated results may be biased low.

Methods Listed (if applicable):

ALS Test Code Matrix **Test Description** Method Reference**

CHLORDANE-T-CALC-WT Water Chlordane Total sums CALCULATION

Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.

CL-IC-N-WT Water Chloride by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CN-WAD-R511-WT APHA 4500CN I-Weak acid Dist Colorimet Water Cyanide (WAD)-O.Reg 153/04

Weak acid dissociable cyanide (WAD) is determined by undergoing a distillation procedure. Cyanide is converted to cyanogen chloride by reacting with chloramine-T, the cyanogen chloride then reacts with a combination of barbituric acid and isonicotinic acid to form a highly colored complex.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CR-CR6-IC-R511-WT Water Hex Chrom-O.Reg 153/04 (July 2011) EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

DDD-DDE-DDT-CALC-WT Water DDD, DDE, DDT sums CALCULATION

Calculation of Total DDD. Total DDE and Total DDT

EC-R511-WT Water Conductivity-O.Reg 153/04 (July 2011) APHA 2510 B

Water samples can be measured directly by immersing the conductivity cell into the sample.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

EC-SCREEN-WT Water Conductivity Screen (Internal Use APHA 2510 Only)

Qualitative analysis of conductivity where required during preparation of other tests - e.g. TDS, metals, etc.

ENDOSULFAN-T-CALC-Water Endosulfan Total sums CALCULATION WT

Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.

HG-D-UG/L-CVAA-WT Water Diss. Mercury in Water by CVAAS EPA 1631E (mod)

(ug/L)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

L2586364 CONT'D....

Reference Information

PAGE 11 of 12 13-MAY-21 15:00 (MT)

Methods Listed (if applicable):

ALS Test Code Matrix **Test Description** Method Reference**

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

MET-D-UG/L-MS-WT

Water

Diss. Metals in Water by ICPMS (ug/L) EPA 200.8

The metal constituents of a non-acidified sample that pass through a membrane filter prior to ICP/MS analysis.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

METHYLNAPS-CALC-WT Water

PAH-Calculated Parameters

SW846 8270

OCP-ROUTINE-WT

Water

Pesticides, Organochlorine in Water

SW846 8270

Samples are extracted using a solvent mixture and the resulting extracts are analyzed on GC/MSD

PAH-511-WT

Water

PAH-O. Reg 153/04 (July 2011)

SW846 3510/8270

Aqueous samples, fortified with surrogates, are extracted using liquid/liquid extraction technique. The sample extracts are concentrated and then analyzed using GC/MS. Results for benzo(b) fluoranthene may include contributions from benzo(j)fluoranthene, if also present in the sample.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

PH-WT

Water

pΗ

APHA 4500 H-Electrode

Water samples are analyzed directly by a calibrated pH meter.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), Holdtime for samples under this regulation is 28 days

**ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody Numbers:

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code

Laboratory Location

WT

ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

Reference Information

PAGE 12 of 12 13-MAY-21 15:00 (MT)

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.



Workorder: L2586364 Report Date: 13-MAY-21 Page 1 of 8

Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-IC-N-WT	Water							
Batch R5457074								
WG3533741-19 DUP Chloride (CI)		WG3533741-18 6.18	3 6.16		mg/L	0.3	20	12-MAY-21
WG3533741-17 LCS Chloride (CI)			100.8		%		90-110	12-MAY-21
WG3533741-16 MB Chloride (Cl)			<0.50		mg/L		0.5	12-MAY-21
WG3533741-20 MS Chloride (Cl)		WG3533741-18	3 102.3		%		75-125	12-MAY-21
CN-WAD-R511-WT	Water							
Batch R5456317								
WG3533337-3 DUP Cyanide, Weak Acid Dis	s	WG3533337-5 <2.0	<2.0	RPD-NA	ug/L	N/A	20	12-MAY-21
WG3533337-2 LCS Cyanide, Weak Acid Dis	s		87.1		%		80-120	12-MAY-21
WG3533337-1 MB Cyanide, Weak Acid Dis	s		<2.0		ug/L		2	12-MAY-21
WG3533337-4 MS Cyanide, Weak Acid Dis	s	WG3533337-5	107.8		%		75-125	12-MAY-21
CR-CR6-IC-R511-WT	Water							
Batch R5457159								
WG3533638-4 DUP Chromium, Hexavalent		WG3533638-3 2.54	2.50		ug/L	1.5	20	12-MAY-21
WG3533638-2 LCS Chromium, Hexavalent			103.0		%		80-120	12-MAY-21
WG3533638-1 MB Chromium, Hexavalent			<0.50		ug/L		0.5	12-MAY-21
WG3533638-5 MS Chromium, Hexavalent		WG3533638-3	103.2		%		70-130	12-MAY-21
EC-R511-WT	Water							
Batch R5456465								
WG3533131-4 DUP Conductivity		WG3533131-3 0.926	0.927		mS/cm	0.1	10	12-MAY-21
WG3533131-2 LCS Conductivity			103.1		%		90-110	12-MAY-21
WG3533131-1 MB Conductivity			<0.0030		mS/cm		0.003	12-MAY-21
HG-D-UG/L-CVAA-WT	Water							



Workorder: L2586364 Report Date: 13-MAY-21 Page 2 of 8

Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-D-UG/L-CVAA-WT	Water							
Batch R5456861 WG3533937-3 DUP Mercury (Hg)-Dissolved		L2586364-1 <0.0050	<0.0050	RPD-NA	ug/L	N/A	20	13-MAY-21
WG3533937-2 LCS Mercury (Hg)-Dissolved			108.0		%		80-120	13-MAY-21
WG3533937-1 MB Mercury (Hg)-Dissolved			<0.0050		ug/L		0.005	13-MAY-21
WG3533937-4 MS Mercury (Hg)-Dissolved		L2586713-2	98.5		%		70-130	13-MAY-21
MET-D-UG/L-MS-WT	Water							
Batch R5456049								
WG3532928-4 DUP Antimony (Sb)-Dissolved	l	WG3532928-3 <0.10	<0.10	RPD-NA	ug/L	N/A	20	11-MAY-21
Arsenic (As)-Dissolved		0.45	0.45		ug/L	1.3	20	11-MAY-21
Barium (Ba)-Dissolved		64.4	64.4		ug/L	0.1	20	11-MAY-21
Beryllium (Be)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	11-MAY-21
Boron (B)-Dissolved		12	12		ug/L	8.0	20	11-MAY-21
Cadmium (Cd)-Dissolved	t	<0.0050	<0.0050	RPD-NA	ug/L	N/A	20	11-MAY-21
Chromium (Cr)-Dissolved	d	0.57	0.55		ug/L	3.1	20	11-MAY-21
Cobalt (Co)-Dissolved		0.21	0.20		ug/L	2.3	20	11-MAY-21
Copper (Cu)-Dissolved		1.40	1.43		ug/L	2.2	20	11-MAY-21
Lead (Pb)-Dissolved		<0.050	< 0.050	RPD-NA	ug/L	N/A	20	11-MAY-21
Molybdenum (Mo)-Disso	lved	4.71	4.77		ug/L	1.3	20	11-MAY-21
Nickel (Ni)-Dissolved		0.74	0.78		ug/L	5.0	20	11-MAY-21
Selenium (Se)-Dissolved	I	0.407	0.421		ug/L	3.5	20	11-MAY-21
Silver (Ag)-Dissolved		<0.050	<0.050	RPD-NA	ug/L	N/A	20	11-MAY-21
Sodium (Na)-Dissolved		65700	65700		ug/L	0.0	20	11-MAY-21
Thallium (TI)-Dissolved		<0.010	<0.010	RPD-NA	ug/L	N/A	20	11-MAY-21
Uranium (U)-Dissolved		1.24	1.23		ug/L	0.5	20	11-MAY-21
Vanadium (V)-Dissolved		0.60	0.57		ug/L	5.5	20	11-MAY-21
Zinc (Zn)-Dissolved		1.1	1.1		ug/L	3.7	20	11-MAY-21
WG3532928-2 LCS Antimony (Sb)-Dissolved	l		104.5		%		80-120	11-MAY-21
Arsenic (As)-Dissolved			100.6		%		80-120	11-MAY-21
Barium (Ba)-Dissolved			101.1		%		80-120	11-MAY-21
Beryllium (Be)-Dissolved			98.3		%		80-120	11-MAY-21



Workorder: L2586364 Report Date: 13-MAY-21 Page 3 of 8

Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	Water							
Batch R545604	19							
WG3532928-2 LCS	}				0.4			
Boron (B)-Dissolved			94.1		%		80-120	11-MAY-21
Cadmium (Cd)-Dissol			101.4		%		80-120	11-MAY-21
Chromium (Cr)-Disso			96.1		%		80-120	11-MAY-21
Cobalt (Co)-Dissolved			99.1		%		80-120	11-MAY-21
Copper (Cu)-Dissolve	d		98.4		%		80-120	11-MAY-21
Lead (Pb)-Dissolved			108.8		%		80-120	11-MAY-21
Molybdenum (Mo)-Dis	ssolved		103.2		%		80-120	11-MAY-21
Nickel (Ni)-Dissolved			97.9		%		80-120	11-MAY-21
Selenium (Se)-Dissol	ved		97.0		%		80-120	11-MAY-21
Silver (Ag)-Dissolved			107.7		%		80-120	11-MAY-21
Sodium (Na)-Dissolve	ed		96.1		%		80-120	11-MAY-21
Thallium (TI)-Dissolve	ed		108.3		%		80-120	11-MAY-21
Uranium (U)-Dissolve	d		110.5		%		80-120	11-MAY-21
Vanadium (V)-Dissolv	red .		99.6		%		80-120	11-MAY-21
Zinc (Zn)-Dissolved			102.6		%		80-120	11-MAY-21
WG3532928-1 MB								
Antimony (Sb)-Dissol			<0.10		ug/L		0.1	11-MAY-21
Arsenic (As)-Dissolve			<0.10		ug/L		0.1	11-MAY-21
Barium (Ba)-Dissolve	d		<0.10		ug/L		0.1	11-MAY-21
Beryllium (Be)-Dissolv	/ed		<0.10		ug/L		0.1	11-MAY-21
Boron (B)-Dissolved			<10		ug/L		10	11-MAY-21
Cadmium (Cd)-Dissol	ved		<0.0050		ug/L		0.005	11-MAY-21
Chromium (Cr)-Disso	lved		<0.50		ug/L		0.5	11-MAY-21
Cobalt (Co)-Dissolved	d		<0.10		ug/L		0.1	11-MAY-21
Copper (Cu)-Dissolve	d		<0.20		ug/L		0.2	11-MAY-21
Lead (Pb)-Dissolved			< 0.050		ug/L		0.05	11-MAY-21
Molybdenum (Mo)-Dis	ssolved		<0.050		ug/L		0.05	11-MAY-21
Nickel (Ni)-Dissolved			<0.50		ug/L		0.5	11-MAY-21
Selenium (Se)-Dissol	ved		<0.050		ug/L		0.05	11-MAY-21
Silver (Ag)-Dissolved			<0.050		ug/L		0.05	11-MAY-21
Sodium (Na)-Dissolve	ed		<50		ug/L		50	11-MAY-21
Thallium (TI)-Dissolve	ed		<0.010		ug/L		0.01	11-MAY-21
Uranium (U)-Dissolve	d		<0.010		ug/L		0.01	11-MAY-21
Vanadium (V)-Dissolv	/ed		<0.50		ug/L		0.5	11-MAY-21



Workorder: L2586364 Report Date: 13-MAY-21 Page 4 of 8

Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	Water							
Batch R545604	9							
WG3532928-1 MB								
Zinc (Zn)-Dissolved			<1.0		ug/L		1	11-MAY-21
WG3532928-5 MS Antimony (Sb)-Dissolv	ed	WG3532928-6	i 105.5		%		70-130	11-MAY-21
Arsenic (As)-Dissolved	d		126.9		%		70-130	12-MAY-21
Barium (Ba)-Dissolved	I		N/A	MS-B	%		-	11-MAY-21
Beryllium (Be)-Dissolv	ed		107.9		%		70-130	11-MAY-21
Boron (B)-Dissolved			95.3		%		70-130	11-MAY-21
Cadmium (Cd)-Dissolv	/ed		106.7		%		70-130	11-MAY-21
Chromium (Cr)-Dissol	ved		109.1		%		70-130	11-MAY-21
Cobalt (Co)-Dissolved			107.0		%		70-130	11-MAY-21
Copper (Cu)-Dissolved	d		101.4		%		70-130	11-MAY-21
Lead (Pb)-Dissolved			100.6		%		70-130	11-MAY-21
Molybdenum (Mo)-Dis	solved		108.7		%		70-130	11-MAY-21
Nickel (Ni)-Dissolved			102.4		%		70-130	11-MAY-21
Selenium (Se)-Dissolv	red		136.5	MES	%		70-130	12-MAY-21
Silver (Ag)-Dissolved			99.6		%		70-130	11-MAY-21
Sodium (Na)-Dissolve	d		N/A	MS-B	%		-	11-MAY-21
Thallium (TI)-Dissolved	d		100.6		%		70-130	11-MAY-21
Uranium (U)-Dissolved	t		N/A	MS-B	%		-	11-MAY-21
Vanadium (V)-Dissolve	ed		114.6		%		70-130	11-MAY-21
Zinc (Zn)-Dissolved			111.5		%		70-130	11-MAY-21
OCP-ROUTINE-WT	Water							
Batch R545640	5							
WG3533114-2 LCS Aldrin			128.7		%		EO 1EO	40 MAY 04
gamma-hexachlorocyo	rlohevane		117.1		%		50-150 50-150	12-MAY-21 12-MAY-21
a-chlordane	Jonesane		122.3		%			12-MAY-21 12-MAY-21
g-chlordane			122.4		%		50-150 50-150	
o,p-DDD			111.4		%		50-150	12-MAY-21
pp-DDD			116.6		%		50-150	12-MAY-21
o,p-DDE			105.4		%		50-150	12-MAY-21
pp-DDE			109.6		%			12-MAY-21
op-DDT			113.6		%		50-150 50-150	12-MAY-21 12-MAY-21
pp-DDT			98.4		%		50-150 50-150	
ρ ρ- 00 ί			30.4		70		50-150	12-MAY-21



Workorder: L2586364 Report Date: 13-MAY-21 Page 5 of 8

Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

Contact: Dennis Hsu/ Alexis Teohari

Note	Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MG3533114-2 LCS	OCP-ROUTINE-WT	Water							
Dieldrin	Batch R5456405								
Endosulfan II 115.1 % 50-150 12-MAY-21 Endrin 78.2 % 50-150 12-MAY-21 Endrin 78.2 % 50-150 12-MAY-21 Heptachlor 107.6 % 50-150 12-MAY-21 Heptachlor Epoxide 126.1 % 50-150 12-MAY-21 Hexachlorobenzene 106.3 % 50-150 12-MAY-21 Hexachlorobenzene 106.3 % 50-150 12-MAY-21 Hexachlorobenzene 106.9 % 50-150 12-MAY-21 Methoxychlor 123.7 % 50-150 12-MAY-21 Methoxychlor 123.8 % 50-150 12-MAY-21				112.1		%		50-150	12-MAY-21
Endosulfan II 115.1 % 50-150 12-MAY-21 Endrin 78.2 % 50-150 12-MAY-21 Heptachlor 107.6 % 50-150 12-MAY-21 Heptachlor Epoxide 126.1 % 50-150 12-MAY-21 Hexachlorobutadiene 99.3 % 50-150 12-MAY-21 Hexachlorobutadiene 99.3 % 50-150 12-MAY-21 Hexachlorobutadiene 106.9 % 50-150 12-MAY-21 Methoxychlor 123.7 % 50-150 12-MAY-21 WG3533114-1 MB N 50-150 12-MAY-21 WG3533114-1 MB N 50-150 12-MAY-21 gamma-hexachlorocyclohexane <0.0080	Endosulfan I			122.9		%		50-150	
Heptachlor	Endosulfan II			115.1		%		50-150	
Heptachlor Epoxide	Endrin			78.2		%		50-150	12-MAY-21
Hexachlorobenzene 106.3	Heptachlor			107.6		%		50-150	12-MAY-21
Hexachlorobutadiene	Heptachlor Epoxide			126.1		%		50-150	12-MAY-21
Hexachloroethane 106.9	Hexachlorobenzene			106.3		%		50-150	12-MAY-21
Methoxychlor 123.7 % 50-150 12-MAY-21 WG3533114-1 MB Aldrin <0.0080 ug/L 0.008 12-MAY-21 gamma-hexchlorocyclohexane <0.0080	Hexachlorobutadiene			99.3		%		50-150	12-MAY-21
WG3533114-1 MB Aldrin <0.0080 ug/L 0.008 12-MAY-21 gamma-hexachlorocyclohexane <0.0080	Hexachloroethane			106.9		%		50-150	12-MAY-21
Aldrin <0.0080	Methoxychlor			123.7		%		50-150	12-MAY-21
gamma-hexachlorocyclohexane <0.0080	WG3533114-1 MB								
a-chlordane <0.0080	Aldrin			<0.0080		ug/L		0.008	12-MAY-21
g-chlordane	gamma-hexachlorocyclo	hexane		<0.0080		ug/L		0.008	12-MAY-21
o,p-DDD <0.0040	a-chlordane			<0.0080		ug/L		0.008	12-MAY-21
pp-DDD <0.0040 ug/L 0.004 12-MAY-21 o,p-DDE <0.0040	g-chlordane			<0.0080		ug/L		0.008	12-MAY-21
o.p-DDE <0.0040	o,p-DDD			<0.0040		ug/L		0.004	12-MAY-21
pp-DDE <0.0040	pp-DDD			<0.0040		ug/L		0.004	12-MAY-21
op-DDT <0.0040 ug/L 0.004 12-MAY-21 pp-DDT <0.0040	o,p-DDE			<0.0040		ug/L		0.004	12-MAY-21
pp-DDT <0.0040 ug/L 0.004 12-MAY-21 Dieldrin <0.0080	pp-DDE			<0.0040		ug/L		0.004	12-MAY-21
Dieldrin <0.0080	op-DDT			<0.0040		ug/L		0.004	12-MAY-21
Endosulfan I <0.0070	pp-DDT			<0.0040		ug/L		0.004	12-MAY-21
Endosulfan II <	Dieldrin			<0.0080		ug/L		0.008	12-MAY-21
Endrin <0.010	Endosulfan I			<0.0070		ug/L		0.007	12-MAY-21
Heptachlor <0.0080	Endosulfan II			<0.0070		ug/L		0.007	12-MAY-21
Heptachlor Epoxide <0.0080	Endrin			<0.010		ug/L		0.01	12-MAY-21
Hexachlorobenzene <0.0080	Heptachlor			<0.0080		ug/L		0.008	12-MAY-21
Hexachlorobutadiene <0.0080	Heptachlor Epoxide			<0.0080		ug/L		0.008	12-MAY-21
Hexachloroethane <0.0080	Hexachlorobenzene			<0.0080		ug/L		0.008	12-MAY-21
Methoxychlor <0.0080 ug/L 0.008 12-MAY-21 Surrogate: Decachlorobiphenyl 138.2 SURQC % 40-130 12-MAY-21	Hexachlorobutadiene			<0.0080		ug/L		0.008	12-MAY-21
Surrogate: Decachlorobiphenyl 138.2 SURQC % 40-130 12-MAY-21	Hexachloroethane			<0.0080		ug/L		0.008	12-MAY-21
	Methoxychlor			<0.0080		ug/L		0.008	12-MAY-21
Surrogate: Tetrachloro-m-xylene 88.5 % 40-130 12-MAY-21	Surrogate: Decachlorobi	phenyl		138.2	SURQC	%		40-130	12-MAY-21
	Surrogate: Tetrachloro-r	n-xylene		88.5		%		40-130	12-MAY-21

PAH-511-WT Water



Workorder: L2586364 Report Date: 13-MAY-21 Page 6 of 8

Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Water							
Batch R5456186								
WG3532757-2 LCS					0.4			
1-Methylnaphthalene			99.0		%		50-140	12-MAY-21
2-Methylnaphthalene			92.0		%		50-140	12-MAY-21
Acenaphthene			101.1		%		50-140	12-MAY-21
Acenaphthylene			99.0		%		50-140	12-MAY-21
Anthracene			99.9		%		50-140	12-MAY-21
Benzo(a)anthracene			104.2		%		50-140	12-MAY-21
Benzo(a)pyrene			101.7		%		50-140	12-MAY-21
Benzo(b&j)fluoranthene			109.4		%		50-140	12-MAY-21
Benzo(g,h,i)perylene			116.2		%		50-140	12-MAY-21
Benzo(k)fluoranthene			104.7		%		50-140	12-MAY-21
Chrysene			101.3		%		50-140	12-MAY-21
Dibenz(a,h)anthracene			102.8		%		50-140	12-MAY-21
Fluoranthene			104.2		%		50-140	12-MAY-21
Fluorene			100.6		%		50-140	12-MAY-21
Indeno(1,2,3-cd)pyrene			122.9		%		50-140	12-MAY-21
Naphthalene			89.4		%		50-140	12-MAY-21
Phenanthrene			107.2		%		50-140	12-MAY-21
Pyrene			104.3		%		50-140	12-MAY-21
WG3532757-1 MB 1-Methylnaphthalene			<0.020		ug/L		0.02	12-MAY-21
2-Methylnaphthalene			<0.020		ug/L		0.02	12-MAY-21
Acenaphthene			<0.020		ug/L		0.02	12-MAY-21
Acenaphthylene			<0.020		ug/L		0.02	12-MAY-21
Anthracene			<0.020		ug/L		0.02	12-MAY-21
Benzo(a)anthracene			<0.020		ug/L		0.02	12-MAY-21
Benzo(a)pyrene			<0.010		ug/L		0.01	12-MAY-21
Benzo(b&j)fluoranthene			<0.020		ug/L		0.02	
Benzo(g,h,i)perylene			<0.020		ug/L		0.02	12-MAY-21 12-MAY-21
Benzo(k)fluoranthene			<0.020		ug/L		0.02	
Chrysene			<0.020		ug/L		0.02	12-MAY-21
Dibenz(a,h)anthracene			<0.020		ug/L ug/L		0.02	12-MAY-21
Fluoranthene							0.02	12-MAY-21
			<0.020		ug/L			12-MAY-21
Fluorene			<0.020		ug/L		0.02	12-MAY-21
Indeno(1,2,3-cd)pyrene			<0.020		ug/L		0.02	12-MAY-21



Workorder: L2586364

Report Date: 13-MAY-21

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Client:

T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed	
PAH-511-WT	Water								
Batch R54	56186								
WG3532757-1	MB								
Naphthalene			< 0.050		ug/L		0.05	12-MAY-21	
Phenanthrene			<0.020		ug/L		0.02	12-MAY-21	
Pyrene			<0.020		ug/L		0.02	12-MAY-21	
Surrogate: Napht	thalene d8		89.2		%		60-140	12-MAY-21	
Surrogate: Phena	anthrene d10		97.3		%		60-140	12-MAY-21	
PH-WT	Water								
Batch R54	56465								
WG3533131-4	DUP	WG3533131-	3						
рН		7.95	7.98	J	pH units	0.03	0.2	12-MAY-21	
WG3533131-2	LCS								
рН			6.96		pH units		6.9-7.1	12-MAY-21	

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Workorder: L2586364 Report Date: 13-MAY-21

Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6 Dennis Hsu/ Alexis Teohari

Legend:

Contact:

Limit ALS Control Limit (Data Quality Objectives)

DUP Duplicate

RPD Relative Percent Difference

N/A Not Available

LCS Laboratory Control Sample SRM Standard Reference Material

MS Matrix Spike

MSD Matrix Spike Duplicate

ADE Average Desorption Efficiency

MB Method Blank

IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.
SURQC	Surrogate recovery marginally exceeded DQO in QC sample (MB, LCS, RM, or MS). Surrogates are less important for QC samples than for test samples. Refer to regular (non-surrogate) analyte results in affected QC sample for assessment of potential impacts to those analytes.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / A





Canada Toll Free:

L2586364-COFC

Page of

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Contact:	Dennis Han : Alexis Team	Mei	erge QC/QCI Reports with COA	YES NO	□ N/A	☐ 4 dā	y [P4] if re	ceived by 3p	om M-F- 2	0% rush surc	harge minim	um	4 /2 22	100	* 9 (A) (A)			
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T.HARRIS ENVIRONMENTAL MANAGEMENT INC

ATTN: Dennis Hsu / Alexis Teohari

93 Skyway Ave.

Etobicoke ON M9W 6N6

Date Received: 11-MAY-21

Report Date: 13-MAY-21 14:57 (MT)

Version: FINAL

Client Phone: 416-523-8729

Certificate of Analysis

Lab Work Order #: L2586345

Project P.O. #: NOT SUBMITTED

Job Reference: C of C Numbers: Legal Site Desc:

Amanda Overholster Account Manager

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ADDRESS: 5730 Coopers Avenue, Unit #26 , Mississauga, ON L4Z 2E9 Canada | Phone: +1 905 507 6910 | Fax: +1 905 507 6927 ALS CANADA LTD Part of the ALS Group An ALS Limited Company





PAGE 2 of 10 13-MAY-21 14:57 (MT)

Summary of Guideline Exceedances

Guideline						
ALS ID	Client ID	Grouping	Analyte	Result	Guideline Limit	Unit

Ontario Regulation 153/04 - April 15, 2011 Standards - T3-Soil-Res/Park/Inst. Property Use (Coarse)

(No parameter exceedances)



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Physical Tests - SOIL

,	<u> </u>	Sampl	Lab ID	L2586345-1 10-MAY-21	L2586345-2 10-MAY-21	L2586345-3 10-MAY-21
		Sam	ple ID	BHMW3-2	BHMW3-3	BH4-2
Analyte	Unit	Guide #1	Limits #2			
Conductivity	mS/cm	0.7	-	0.169		0.0894
% Moisture	%	-	-	20.7	18.0	21.8
pH	pH units	-	-	7.48		6.98

Guide Limit #1: T3-Soil-Res/Park/Inst. Property Use (Coarse)



PAGE 4 of 10 13-MAY-21 14:57 (MT)

Cyanides - SOIL

•		Lab ID Sample Date Sample ID		L2586345-1 10-MAY-21 BHMW3-2	L2586345-3 10-MAY-21 BH4-2
Analyte	Unit	Guide #1	Limits #2		
Cyanide, Weak Acid Diss	ug/g	0.051	-	<0.050	<0.050

Guide Limit #1: T3-Soil-Res/Park/Inst. Property Use (Coarse)



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Saturated Paste Extractables - SOIL

		Sampl	Lab ID e Date iple ID	L2586345-1 10-MAY-21 BHMW3-2	L2586345-3 10-MAY-21 BH4-2
Analyte	Unit	Guide #1	Limits #2		
SAR	SAR	5	-	0.23	0.35
Calcium (Ca)	mg/L	-	-	20.4	7.24
Magnesium (Mg)	mg/L	-	-	5.64	3.31

Guide Limit #1: T3-Soil-Res/Park/Inst. Property Use (Coarse)



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Metals - SOIL

		Sample	Lab ID e Date iple ID	L2586345-1 10-MAY-21 BHMW3-2	L2586345-3 10-MAY-21 BH4-2
Analyte	Unit	Guide #1	Limits #2		
Antimony (Sb)	ug/g	7.5	-	<1.0	<1.0
Arsenic (As)	ug/g	18	-	3.6	3.9
Barium (Ba)	ug/g	390	-	366	351
Beryllium (Be)	ug/g	4	-	1.17	1.21
Boron (B)	ug/g	120	-	13.1	9.6
Boron (B), Hot Water Ext.	ug/g	1.5	-	<0.10	<0.10
Cadmium (Cd)	ug/g	1.2	-	<0.50	<0.50
Chromium (Cr)	ug/g	160	-	62.0	59.4
Cobalt (Co)	ug/g	22	-	19.9	18.6
Copper (Cu)	ug/g	140	-	37.2	36.5
Lead (Pb)	ug/g	120	-	11.1	9.2
Mercury (Hg)	ug/g	0.27	-	0.0077	0.0135
Molybdenum (Mo)	ug/g	6.9	-	<1.0	<1.0
Nickel (Ni)	ug/g	100	-	41.8	43.1
Selenium (Se)	ug/g	2.4	-	<1.0	<1.0
Silver (Ag)	ug/g	20	-	<0.20	<0.20
Thallium (TI)	ug/g	1	-	<0.50	<0.50
Uranium (U)	ug/g	23	-	<1.0	<1.0
Vanadium (V)	ug/g	86	-	84.1	79.8
Zinc (Zn)	ug/g	340	-	103	97.5

Guide Limit #1: T3-Soil-Res/Park/Inst. Property Use (Coarse)

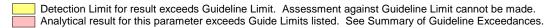


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Speciated Metals - SOIL

- p			Lab ID e Date	L2586345-1 10-MAY-21	L2586345-3 10-MAY-21
		-	nple ID	BHMW3-2	BH4-2
		Guide	Limits		
Analyte	Unit	#1	#2		
Chromium, Hexavalent	ug/g	8		0.37	0.87

Guide Limit #1: T3-Soil-Res/Park/Inst. Property Use (Coarse)



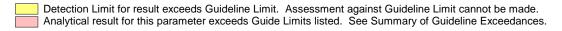


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Polycyclic Aromatic Hydrocarbons - SOIL

		l Sample	Lab ID e Date	L2586345-1 10-MAY-21	L2586345-2 10-MAY-21	L2586345-3 10-MAY-21
			ple ID	BHMW3-2	BHMW3-3	BH4-2
Analyte	Unit	Guide Limit Unit #1 #2				
Acenaphthene	ug/g	7.9	-	<0.050	<0.050	<0.050
Acenaphthylene	ug/g	0.15	-	<0.050	<0.050	<0.050
Anthracene	ug/g	0.67	-	<0.050	< 0.050	<0.050
Benzo(a)anthracene	ug/g	0.5	-	<0.050	<0.050	<0.050
Benzo(a)pyrene	ug/g	0.3	-	< 0.050	< 0.050	< 0.050
Benzo(b&j)fluoranthene	ug/g	0.78	-	<0.050	< 0.050	<0.050
Benzo(g,h,i)perylene	ug/g	6.6	-	<0.050	< 0.050	< 0.050
Benzo(k)fluoranthene	ug/g	0.78	-	<0.050	< 0.050	< 0.050
Chrysene	ug/g	7	-	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	ug/g	0.1	-	<0.050	<0.050	<0.050
Fluoranthene	ug/g	0.69	-	<0.050	< 0.050	< 0.050
Fluorene	ug/g	62	-	<0.050	< 0.050	< 0.050
Indeno(1,2,3-cd)pyrene	ug/g	0.38	-	<0.050	<0.050	<0.050
1+2-Methylnaphthalenes	ug/g	0.99	-	<0.042	<0.042	<0.042
1-Methylnaphthalene	ug/g	0.99	-	<0.030	< 0.030	<0.030
2-Methylnaphthalene	ug/g	0.99	-	<0.030	<0.030	<0.030
Naphthalene	ug/g	0.6	-	<0.013	<0.013	<0.013
Phenanthrene	ug/g	6.2	-	<0.046	<0.046	<0.046
Pyrene	ug/g	78	-	<0.050	<0.050	<0.050
Surrogate: 2-Fluorobiphenyl	%	-	-	90.3	93.8	90.5
Surrogate: d14-Terphenyl	%	-	-	89.1	94.7	88.4

Guide Limit #1: T3-Soil-Res/Park/Inst. Property Use (Coarse)



Reference Information

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Methods Listed (if applicable):

ALS Test Code Matrix Test Description Method Reference**

B-HWS-R511-WT Soil Boron-HWE-O.Reg 153/04 (July 2011) HW EXTR, EPA 6010B

A dried solid sample is extracted with calcium chloride, the sample undergoes a heating process. After cooling the sample is filtered and analyzed by ICP/OES.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CN-WAD-R511-WT Soil Cyanide (WAD)-O.Reg 153/04 (July MOE 3015/APHA 4500CN I-WAD 2011)

The sample is extracted with a strong base for 16 hours, and then filtered. The filtrate is then distilled where the cyanide is converted to cyanogen chloride by reacting with chloramine-T, the cyanogen chloride then reacts with a combination of barbituric acid and isonicotinic acid to form a highly colored complex.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CR-CR6-IC-WT Soil Hexavalent Chromium in Soil SW846 3060A/7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

EC-WT Soil Conductivity (EC) MOEE E3138

A representative subsample is tumbled with de-ionized (DI) water. The ratio of water to soil is 2:1 v/w. After tumbling the sample is then analyzed by a conductivity meter.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

HG-200.2-CVAA-WT Soil Mercury in Soil by CVAAS EPA 200.2/1631E (mod)

Soil samples are digested with nitric and hydrochloric acids, followed by analysis by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

MET-200.2-CCMS-WT Soil Metals in Soil by CRC ICPMS EPA 200.2/6020B (mod)

Soil/sediment is dried, disaggregated, and sieved (2 mm). For tests intended to support Ontario regulations, the <2mm fraction is ground to pass through a 0.355 mm sieve. Strong Acid Leachable Metals in the <2mm fraction are solubilized by heated digestion with nitric and hydrochloric acids. Instrumental analysis is by Collision / Reaction Cell ICPMS.

Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including AI, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H2S) may be excluded if lost during sampling, storage, or digestion.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

METHYLNAPS-CALC-WT Soil ABN-Calculated Parameters SW846 8270

MOISTURE-WT Soil % Moisture CCME PHC in Soil - Tier 1 (mod)

PAH-511-WT Soil PAH-O.Reg 153/04 (July 2011) SW846 3510/8270

A representative sub-sample of soil is fortified with deuterium-labelled surrogates and a mechanical shaking technique used to extract the sample with a mixture of methanol and toluene. The extracts are concentrated and analyzed by GC/MS. Results for benzo(b) fluoranthene may include contributions from benzo(j)fluoranthene, if also present in the sample.

L2586345 CONT'D....

Reference Information

PAGE 10 of 10 13-MAY-21 14:57 (MT)

Methods Listed (if applicable):

ALS Test Code Matrix Test Description Method Reference**

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

PH-WT

Soil

рΗ

MOEE E3137A

A minimum 10g portion of the sample is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil and then analyzed using a pH meter and electrode.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

SAR-R511-WT

Soil

SAR-O.Reg 153/04 (July 2011)

SW846 6010C

A dried, disaggregated solid sample is extracted with deionized water, the aqueous extract is separated from the solid, acidified and then analyzed using a ICP/OES. The concentrations of Na, Ca and Mg are reported as per CALA requirements for calculated parameters. These individual parameters are not for comparison to any guideline.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

**ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody Numbers:

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code

Laboratory Location

WT

ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.



Workorder: L2586345 Report Date: 13-MAY-21 Page 1 of 8

Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
B-HWS-R511-WT	Soil							
Batch R5457082 WG3533775-4 DUP Boron (B), Hot Water E		L2586345-1 <0.10	<0.10	RPD-NA	ug/g	N/A	30	13-MAY-21
WG3533775-2 IRM Boron (B), Hot Water E	xt.	WT SAR4	107.3		%		70-130	13-MAY-21
WG3533775-3 LCS Boron (B), Hot Water E	xt.		102.0		%		70-130	13-MAY-21
WG3533775-1 MB Boron (B), Hot Water E	xt.		<0.10		ug/g		0.1	13-MAY-21
CN-WAD-R511-WT	Soil							
Batch R5457113								
WG3532946-3 DUP Cyanide, Weak Acid Dis	ss	L2585927-20 < 0.050	<0.050	RPD-NA	ug/g	N/A	35	13-MAY-21
WG3532946-2 LCS Cyanide, Weak Acid Dis	ss		92.5		%		80-120	13-MAY-21
WG3532946-1 MB Cyanide, Weak Acid Dis	SS		<0.050		ug/g		0.05	13-MAY-21
WG3532946-4 MS Cyanide, Weak Acid Di	ss	L2585927-20	107.7		%		70-130	13-MAY-21
CR-CR6-IC-WT	Soil							
Batch R5456538								
WG3532929-4 CRM Chromium, Hexavalent		WT-SQC012	111.8		%		70-130	12-MAY-21
WG3532929-3 DUP Chromium, Hexavalent		L2585927-29 0.21	<0.20	RPD-NA	ug/g	N/A	35	12-MAY-21
WG3532929-2 LCS Chromium, Hexavalent			99.0		%		80-120	12-MAY-21
WG3532929-1 MB Chromium, Hexavalent			<0.20		ug/g		0.2	12-MAY-21
EC-WT	Soil							
Batch R5457001								
WG3533776-4 DUP Conductivity		WG3533776-3 0.209	0.216		mS/cm	3.3	20	13-MAY-21
WG3533776-2 IRM Conductivity		WT SAR4	100.4		%		70-130	13-MAY-21
WG3534026-1 LCS Conductivity			103.8		%		90-110	13-MAY-21
WG3533776-1 MB								



Workorder: L2586345

Report Date: 13-MAY-21

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Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-WT	Soil							
Batch R5457001 WG3533776-1 MB Conductivity			<0.0040		mS/cm		0.004	13-MAY-21
HG-200.2-CVAA-WT	Soil							
Batch R5456854 WG3533774-2 CRM Mercury (Hg)		WT-SS-2	105.6		%		70-130	13-MAY-21
WG3533774-6 DUP Mercury (Hg)		WG3533774-5 0.0077	0.0114		ug/g	39	40	13-MAY-21
WG3533774-3 LCS Mercury (Hg)			106.5		%		80-120	13-MAY-21
WG3533774-1 MB Mercury (Hg)	0-11		<0.0050		mg/kg		0.005	13-MAY-21
MET-200.2-CCMS-WT	Soil							
Batch R5457071 WG3533774-2 CRM Antimony (Sb)		WT-SS-2	97.8		%		70-130	13-MAY-21
Arsenic (As)			105.6		%		70-130	13-MAY-21
Barium (Ba)			107.5		%		70-130	13-MAY-21
Beryllium (Be)			112.6		%		70-130	13-MAY-21
Boron (B)			10.0		mg/kg		3.5-13.5	13-MAY-21
Cadmium (Cd)			122.5		%		70-130	13-MAY-21
Chromium (Cr)			105.8		%		70-130	13-MAY-21
Cobalt (Co)			103.9		%		70-130	13-MAY-21
Copper (Cu)			105.4		%		70-130	13-MAY-21
Lead (Pb)			104.4		%		70-130	13-MAY-21
Molybdenum (Mo)			104.7		%		70-130	13-MAY-21
Nickel (Ni)			105.9		%		70-130	13-MAY-21
Selenium (Se)			0.12		mg/kg		0-0.34	13-MAY-21
Silver (Ag)			100.8		%		70-130	13-MAY-21
Thallium (TI)			0.073		mg/kg		0.029-0.129	13-MAY-21
Uranium (U)			101.3		%		70-130	13-MAY-21
Vanadium (V)			108.2		%		70-130	13-MAY-21
Zinc (Zn)			105.1		%		70-130	13-MAY-21
WG3533774-6 DUP Antimony (Sb)		WG3533774-5 <0.10	0.13	RPD-NA	ug/g	N/A	30	13-MAY-21



Workorder: L2586345 Report Date: 13-MAY-21 Page 3 of 8

Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							_
Batch R5457071								
WG3533774-6 DUP Arsenic (As)		WG3533774-5 3.65	3.44		ug/g	5.8	30	13-MAY-21
Barium (Ba)		366	335		ug/g	9.1	40	13-MAY-21
Beryllium (Be)		1.17	1.15		ug/g	1.4	30	13-MAY-21
Boron (B)		13.1	12.6		ug/g	4.3	30	13-MAY-21
Cadmium (Cd)		0.107	0.108		ug/g	1.4	30	13-MAY-21
Chromium (Cr)		62.0	57.1		ug/g	8.1	30	13-MAY-21
Cobalt (Co)		19.9	18.2		ug/g	8.7	30	13-MAY-21
Copper (Cu)		37.2	34.8		ug/g	6.6	30	13-MAY-21
Lead (Pb)		11.1	10.6		ug/g	4.5	40	13-MAY-21
Molybdenum (Mo)		0.55	0.49		ug/g	12	40	13-MAY-21
Nickel (Ni)		41.8	38.9		ug/g	7.2	30	13-MAY-21
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	13-MAY-21
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	13-MAY-21
Thallium (TI)		0.373	0.396		ug/g	6.1	30	13-MAY-21
Uranium (U)		0.678	0.629		ug/g	7.4	30	13-MAY-21
Vanadium (V)		84.1	78.4		ug/g	7.0	30	13-MAY-21
Zinc (Zn)		103	96.9		ug/g	5.9	30	13-MAY-21
WG3533774-4 LCS								
Antimony (Sb)			114.7		%		80-120	13-MAY-21
Arsenic (As)			112.2		%		80-120	13-MAY-21
Barium (Ba)			108.0		%		80-120	13-MAY-21
Beryllium (Be)			109.2		%		80-120	13-MAY-21
Boron (B)			106.7		%		80-120	13-MAY-21
Cadmium (Cd)			104.9		%		80-120	13-MAY-21
Chromium (Cr)			109.3		%		80-120	13-MAY-21
Cobalt (Co)			108.0		%		80-120	13-MAY-21
Copper (Cu) Lead (Pb)			106.0 108.3		% %		80-120	13-MAY-21
Molybdenum (Mo)			110.5		%		80-120	13-MAY-21
Nickel (Ni)			107.7		%		80-120 80-120	13-MAY-21
Selenium (Se)			110.3		%		80-120 80-120	13-MAY-21 13-MAY-21
Silver (Ag)			110.8		%		80-120 80-120	13-MAY-21
Thallium (TI)			107.1		%		80-120	13-MAY-21
maniam (11)			107.1		70		00-120	13-IVIA 1-2 I



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Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	RPD Limit Analyz	
MET-200.2-CCMS-WT	Soil							
Batch R5457071								
WG3533774-4 LCS Uranium (U)			105.5		%		90.420	42 MAY 24
Vanadium (V)			111.6		%		80-120 80-120	13-MAY-21 13-MAY-21
Zinc (Zn)			106.4		%		80-120	13-MAY-21
WG3533774-1 MB			100.4		70		60-120	13-IVIA 1-21
Antimony (Sb)			<0.10		mg/kg		0.1	13-MAY-21
Arsenic (As)			<0.10		mg/kg		0.1	13-MAY-21
Barium (Ba)			<0.50		mg/kg		0.5	13-MAY-21
Beryllium (Be)			<0.10		mg/kg		0.1	13-MAY-21
Boron (B)			<5.0		mg/kg		5	13-MAY-21
Cadmium (Cd)			<0.020		mg/kg		0.02	13-MAY-21
Chromium (Cr)			<0.50		mg/kg		0.5	13-MAY-21
Cobalt (Co)			<0.10		mg/kg		0.1	13-MAY-21
Copper (Cu)			<0.50		mg/kg		0.5	13-MAY-21
Lead (Pb)			<0.50		mg/kg		0.5	13-MAY-21
Molybdenum (Mo)			<0.10		mg/kg		0.1	13-MAY-21
Nickel (Ni)			<0.50		mg/kg		0.5	13-MAY-21
Selenium (Se)			<0.20		mg/kg		0.2	13-MAY-21
Silver (Ag)			<0.10		mg/kg		0.1	13-MAY-21
Thallium (TI)			< 0.050		mg/kg		0.05	13-MAY-21
Uranium (U)			< 0.050		mg/kg		0.05	13-MAY-21
Vanadium (V)			<0.20		mg/kg		0.2	13-MAY-21
Zinc (Zn)			<2.0		mg/kg		2	13-MAY-21
MOISTURE-WT	Soil							
Batch R5456100								
WG3533037-3 DUP % Moisture		L2586405-6 15.3	15.9		%	3.6	20	12-MAY-21
WG3533037-2 LCS % Moisture			99.9		%		90-110	12-MAY-21
WG3533037-1 MB % Moisture			<0.25		%		0.25	12-MAY-21
PAH-511-WT	Soil							
Batch R5456757								
WG3532996-3 DUP 1-Methylnaphthalene		WG3532996-5 <0.030	<0.030	RPD-NA	ug/g	N/A	40	13-MAY-21



Workorder: L2586345 Report Date: 13-MAY-21 Page 5 of 8

Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

PAH-511-WT Soil	Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
### Sack Sack Sack Sack Sack Sack Sack Sack	PAH-511-WT	Soil							
2-Metrylyhaphthalene <0.030	Batch R5456757								
Acenaphthene <0.050					DDD NA	ua/a	NI/A	40	42 MAN 24
Acenaphthylene <0.050 <0.050 RPD-NA ug/g N/A 40 13-MAY-21 Anthracene <0.050									
Anthracene <0.050 <0.050 RPD-NA ug/g N/A 40 13-MAY-21 Benzo(a)aynthracene <0.050									
Benzo(a)anthracene <0.050 <0.050 RPD-NA ug/g N/A 40 13-MAY-21 Benzo(a)pyrene <0.050									
Benzo(a)pyrene <0.050 <0.050 RPD-NA ug/g N/A 40 13-MAY-21 Benzo(b&)filuoranthene <0.050									
Benzo(b8))fluoranthene <0.050 <0.050 RPD-NA Ug/g N/A 40 13-MAY-21 Benzo(g,h,i)perylene <0.050	()								
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Dibenz(a,h)anthracene									
Fluoranthene <0.050 <0.050 RPD-NA ug/g N/A 40 13-MAY-21 Fluorene <0.050									
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Indeno(1,2,3-cd)pyrene <0.050									
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Phenanthrene <0.046 <0.046 RPD-NA ug/g N/A 40 13-MAY-21 Pyrene <0.050 RPD-NA ug/g N/A 40 13-MAY-21 WG3532996-2 LCS 1-Methylnaphthalene 91.3 % 50-140 13-MAY-21 2-Methylnaphthalene 88.5 % 50-140 13-MAY-21 Acenaphthene 87.7 % 50-140 13-MAY-21 Acenaphthylene 83.3 % 50-140 13-MAY-21 Anthracene 76.2 % 50-140 13-MAY-21 Benzo(a)anthracene 86.5 % 50-140 13-MAY-21 Benzo(a)pyrene 75.4 % 50-140 13-MAY-21 Benzo(bă)fluoranthene 82.1 % 50-140 13-MAY-21 Benzo(b, l)perylene 85.9 % 50-140 13-MAY-21 Benzo(k)fluoranthene 86.5 % 50-140 13-MAY-21 Chrysene 87.5 % 50-140 13-MAY-21 Diben						ug/g	N/A	40	13-MAY-21
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WG3532996-2 LCS 1-Methylnaphthalene 91.3 % 50-140 13-MAY-21 2-Methylnaphthalene 88.5 % 50-140 13-MAY-21 Acenaphthene 87.7 % 50-140 13-MAY-21 Acenaphthylene 83.3 % 50-140 13-MAY-21 Anthracene 76.2 % 50-140 13-MAY-21 Benzo(a)anthracene 86.5 % 50-140 13-MAY-21 Benzo(a)pyrene 75.4 % 50-140 13-MAY-21 Benzo(b&ij)fluoranthene 82.1 % 50-140 13-MAY-21 Benzo(g,h,i)perylene 85.9 % 50-140 13-MAY-21 Benzo(k)fluoranthene 86.5 % 50-140 13-MAY-21 Chrysene 87.5 % 50-140 13-MAY-21 Dibenz(a,h)anthracene 83.8 % 50-140 13-MAY-21 Fluoranthene 84.8 % 50-140 13-MAY-21 Fluorene 85.1 % 50-140 13-MAY-21	Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	13-MAY-21
1-Methylnaphthalene 91.3 % 50-140 13-MAY-21 2-Methylnaphthalene 88.5 % 50-140 13-MAY-21 Acenaphthene 87.7 % 50-140 13-MAY-21 Acenaphthylene 83.3 % 50-140 13-MAY-21 Anthracene 76.2 % 50-140 13-MAY-21 Benzo(a)anthracene 86.5 % 50-140 13-MAY-21 Benzo(a)pyrene 75.4 % 50-140 13-MAY-21 Benzo(b&j)fluoranthene 82.1 % 50-140 13-MAY-21 Benzo(g,h,i)perylene 85.9 % 50-140 13-MAY-21 Benzo(k)fluoranthene 86.5 % 50-140 13-MAY-21 Chrysene 87.5 % 50-140 13-MAY-21 Dibenz(a,h)anthracene 83.8 % 50-140 13-MAY-21 Fluoranthene 84.8 % 50-140 13-MAY-21 Fluorene 85.1 % 50-140 13-MAY-21	Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
2-Methylnaphthalene 88.5 % 50-140 13-MAY-21 Acenaphthene 87.7 % 50-140 13-MAY-21 Acenaphthylene 83.3 % 50-140 13-MAY-21 Anthracene 76.2 % 50-140 13-MAY-21 Benzo(a)anthracene 86.5 % 50-140 13-MAY-21 Benzo(a)pyrene 75.4 % 50-140 13-MAY-21 Benzo(b&j)fluoranthene 82.1 % 50-140 13-MAY-21 Benzo(g,h,i)perylene 85.9 % 50-140 13-MAY-21 Benzo(k)fluoranthene 86.5 % 50-140 13-MAY-21 Chrysene 87.5 % 50-140 13-MAY-21 Dibenz(a,h)anthracene 83.8 % 50-140 13-MAY-21 Fluoranthene 84.8 % 50-140 13-MAY-21 Fluorene 85.1 % 50-140 13-MAY-21				91.3		%		50-140	13-MAY-21
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Benzo(b&j)fluoranthene 82.1 % 50-140 13-MAY-21 Benzo(g,h,i)perylene 85.9 % 50-140 13-MAY-21 Benzo(k)fluoranthene 86.5 % 50-140 13-MAY-21 Chrysene 87.5 % 50-140 13-MAY-21 Dibenz(a,h)anthracene 83.8 % 50-140 13-MAY-21 Fluoranthene 84.8 % 50-140 13-MAY-21 Fluorene 85.1 % 50-140 13-MAY-21	Benzo(a)pyrene			75.4		%			
Benzo(g,h,i)perylene 85.9 % 50-140 13-MAY-21 Benzo(k)fluoranthene 86.5 % 50-140 13-MAY-21 Chrysene 87.5 % 50-140 13-MAY-21 Dibenz(a,h)anthracene 83.8 % 50-140 13-MAY-21 Fluoranthene 84.8 % 50-140 13-MAY-21 Fluorene 85.1 % 50-140 13-MAY-21	Benzo(b&j)fluoranthene			82.1		%		50-140	
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Chrysene 87.5 % 50-140 13-MAY-21 Dibenz(a,h)anthracene 83.8 % 50-140 13-MAY-21 Fluoranthene 84.8 % 50-140 13-MAY-21 Fluorene 85.1 % 50-140 13-MAY-21	Benzo(k)fluoranthene			86.5		%			
Dibenz(a,h)anthracene 83.8 % 50-140 13-MAY-21 Fluoranthene 84.8 % 50-140 13-MAY-21 Fluorene 85.1 % 50-140 13-MAY-21	Chrysene			87.5		%			
Fluoranthene 84.8 % 50-140 13-MAY-21 Fluorene 85.1 % 50-140 13-MAY-21	Dibenz(a,h)anthracene			83.8		%			
Fluorene 85.1 % 50-140 13-MAY-21	Fluoranthene			84.8		%			
	Fluorene			85.1		%			
	Indeno(1,2,3-cd)pyrene			82.4		%		50-140	



Workorder: L2586345 Report Date: 13-MAY-21 Page 6 of 8

Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch R5456757	7							
WG3532996-2 LCS			05.0		0/			
Naphthalene			85.6		%		50-140	13-MAY-21
Phenanthrene			88.1		%		50-140	13-MAY-21
Pyrene			84.3		%		50-140	13-MAY-21
WG3532996-1 MB 1-Methylnaphthalene			<0.030		ug/g		0.03	13-MAY-21
2-Methylnaphthalene			<0.030		ug/g		0.03	13-MAY-21
Acenaphthene			<0.050		ug/g		0.05	13-MAY-21
Acenaphthylene			<0.050		ug/g		0.05	13-MAY-21
Anthracene			<0.050		ug/g		0.05	13-MAY-21
Benzo(a)anthracene			<0.050		ug/g		0.05	13-MAY-21
Benzo(a)pyrene			<0.050		ug/g		0.05	13-MAY-21
Benzo(b&j)fluoranthene	е		<0.050		ug/g		0.05	13-MAY-21
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	13-MAY-21
Benzo(k)fluoranthene			<0.050		ug/g		0.05	13-MAY-21
Chrysene			<0.050		ug/g		0.05	13-MAY-21
Dibenz(a,h)anthracene	•		<0.050		ug/g		0.05	13-MAY-21
Fluoranthene			<0.050		ug/g		0.05	13-MAY-21
Fluorene			<0.050		ug/g		0.05	13-MAY-21
Indeno(1,2,3-cd)pyrene	Э		<0.050		ug/g		0.05	13-MAY-21
Naphthalene			<0.013		ug/g		0.013	13-MAY-21
Phenanthrene			<0.046		ug/g		0.046	13-MAY-21
Pyrene			< 0.050		ug/g		0.05	13-MAY-21
Surrogate: 2-Fluorobipl	henyl		88.0		%		50-140	13-MAY-21
Surrogate: d14-Terphe	nyl		83.8		%		50-140	13-MAY-21
WG3532996-4 MS		WG3532996-5						
1-Methylnaphthalene			94.5		%		50-140	13-MAY-21
2-Methylnaphthalene			91.6		%		50-140	13-MAY-21
Acenaphthene			92.4		%		50-140	13-MAY-21
Acenaphthylene			86.7		%		50-140	13-MAY-21
Anthracene			80.6		%		50-140	13-MAY-21
Benzo(a)anthracene			93.4		%		50-140	13-MAY-21
Benzo(a)pyrene			81.2		%		50-140	13-MAY-21
Benzo(b&j)fluoranthene	е		90.7		%		50-140	13-MAY-21
Benzo(g,h,i)perylene			91.1		%		50-140	13-MAY-21



Workorder: L2586345 Report Date: 13-MAY-21 Page 7 of 8

Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch R5456757 WG3532996-4 MS Benzo(k)fluoranthene		WG3532996-5	90.7		%		50-140	13-MAY-21
Chrysene			92.1		%		50-140	13-MAY-21
Dibenz(a,h)anthracene			90.8		%		50-140	13-MAY-21
Fluoranthene			89.5		%		50-140	13-MAY-21
Fluorene			90.7		%		50-140	13-MAY-21
Indeno(1,2,3-cd)pyrene			86.6		%		50-140	13-MAY-21
Naphthalene			87.2		%		50-140	13-MAY-21
Phenanthrene			92.0		%		50-140	13-MAY-21
Pyrene			88.9		%		50-140	13-MAY-21
PH-WT	Soil							
Batch R5456379 WG3533325-1 LCS pH	30.1		6.97		pH units		6.9-7.1	12-MAY-21
SAR-R511-WT	Soil							
Batch R5457090								
WG3533776-4 DUP		WG3533776-3			m a/I	0.0	00	
Calcium (Ca)		39.4	38.5		mg/L	2.3	30	13-MAY-21
Sodium (Na)		1.59	1.56		mg/L	1.9	30	13-MAY-21
Magnesium (Mg)		1.28	1.16		mg/L	9.8	30	13-MAY-21
WG3533776-2 IRM Calcium (Ca)		WT SAR4	95.6		%		70-130	13-MAY-21
Sodium (Na)			97.7		%		70-130	13-MAY-21
Magnesium (Mg)			98.3		%		70-130	13-MAY-21
WG3533776-5 LCS								
Calcium (Ca)			106.7		%		80-120	13-MAY-21
Sodium (Na)			100.0		%		80-120	13-MAY-21
Magnesium (Mg)			101.4		%		80-120	13-MAY-21
WG3533776-1 MB Calcium (Ca)			<0.50		mg/L		0.5	13-MAY-21
Sodium (Na)			<0.50		mg/L		0.5	13-MAY-21
Magnesium (Mg)			<0.50		mg/L		0.5	13-MAY-21

Page 8 of 8

Workorder: L2586345 Report Date: 13-MAY-21

T.HARRIS ENVIRONMENTAL MANAGEMENT INC Client:

93 Skyway Ave.

Etobicoke ON M9W 6N6

Dennis Hsu / Alexis Teohari

Legend:

Contact:

Limit ALS Control Limit (Data Quality Objectives)

DUP Duplicate

RPD Relative Percent Difference

N/A Not Available

LCS Laboratory Control Sample SRM Standard Reference Material

MS Matrix Spike

MSD Matrix Spike Duplicate

Average Desorption Efficiency ADE

Method Blank MB

Internal Reference Material IRM CRM Certified Reference Material CCV Continuing Calibration Verification CVS Calibration Verification Standard LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.





COC Number: 20 - 888364

(ALS)	www.alsglobal.com			L	2586345-C	OFC							Pi	age	OT					
Report To	Contact and company name below will app	ear on the final report	T	Reports /	Recipients		ı	-	Turn	around T	ime (TAT)	Reques	sted							
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Contact:	Oennis Hsn : Abair Teo	(mar)	Merge QC/QC	Reports with COA	YES 1	NO N/A	1				1-F- 20% r			nimum						-
Phone:	416 435 1164		Compare Resi	ults to Criteria on Report -	provide details below	if box checked	.□.3	day (P3] if receive	d by 3pm	M-F - 25%	ush surc	charge mi	inimum		AFFIX ALS BARCODE LABEL HERE			.RE	
	Company address below will appear on the final	il report	Select Distribution	on: 🗀 EMAIL	☐ MAIL ☐	FAX	2	day [P2) if receive	d by 3pm	M-F - 50%	ush surc	:harge mi	nimum			(ALS u	ise only)		
Street:	93 Skyway Ave Toro	ito Or	Email 1 or Fax	dhis of the	oreic .co			day [E]	if received	by 3pm M	-F - 100% i n M-S - 200	ush surc	harge mir	nimum						
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REFER TO BACK	PAGE FOR ALS LOCATIONS AND SAMPLING INF	ORMATION	·	VAZELIT	I LABORATORS	(CODY VEH O	N 0115			4			<u> </u>	<u> </u>	لمحد	<u> </u>		1	. (<u> </u>

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1 If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.



T.HARRIS ENVIRONMENTAL

MANAGEMENT INC

ATTN: Dennis Hsu/ Alexis Teohari

93 Skyway Ave.

Etobicoke ON M9W 6N6

Date Received: 11-MAY-21

Report Date: 13-MAY-21 15:00 (MT)

Version: FINAL

Client Phone: 416-523-8729

Certificate of Analysis

Lab Work Order #: L2586364

Project P.O. #: NOT SUBMITTED

Job Reference: C of C Numbers: Legal Site Desc:

Amanda Overholster Account Manager

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Summary of Guideline Exceedances

Guideline						
ALS ID	Client ID	Grouping	Analyte	Result	Guideline Limit	Unit

Ontario Regulation 153/04 - April 15, 2011 Standards - T3-Non-Potable Ground Water-All Types of Property Uses (Coarse)

(No parameter exceedances)

^{*} Please refer to the Reference Information section for an explanation of any qualifiers noted.



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Physical Tests - WATER

	:	Sampl	Lab ID e Date iple ID	L2586364-1 10-MAY-21 BHMW3
Analyte	Unit	Guide #1	Limits #2	
Conductivity	mS/cm	-	-	0.618
pH	pH units	-	-	7.73

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (Coarse)

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.

^{*} Please refer to the Reference Information section for an explanation of any qualifiers noted.

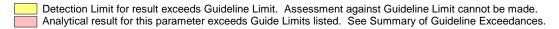


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Anions and Nutrients - WATER

		Sample	_ab ID e Date ple ID	L2586364-1 10-MAY-21 BHMW3
Analyte	Unit	Guide #1	Limits #2	
Chloride (CI)	mg/L	2300	-	15.0

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (Coarse)



^{*} Please refer to the Reference Information section for an explanation of any qualifiers noted.



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Cyanides - WATER

		Sampl	Lab ID e Date iple ID	L2586364-1 10-MAY-21 BHMW3
Analyte	Unit	Guide #1	Limits #2	
Cyanide, Weak Acid Diss	ug/L	66	-	<2.0

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (Coarse)

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.

^{*} Please refer to the Reference Information section for an explanation of any qualifiers noted.



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Dissolved Metals - WATER

		Sample	ab ID Date ple ID	L2586364-1 10-MAY-21 BHMW3	
Analyte	Unit	Guide I #1	Limits #2		
Dissolved Mercury Filtration Location		-	-	FIELD	
Dissolved Metals Filtration Location		-	-	FIELD	
Antimony (Sb)-Dissolved	ug/L	20000	-	0.20	
Arsenic (As)-Dissolved	ug/L	1900	-	4.15	
Barium (Ba)-Dissolved	ug/L	29000	-	159	
Beryllium (Be)-Dissolved	ug/L	67	-	<0.10	
Boron (B)-Dissolved	ug/L	45000	-	12	
Cadmium (Cd)-Dissolved	ug/L	2.7	-	<0.010	
Chromium (Cr)-Dissolved	ug/L	810	-	1.76	
Cobalt (Co)-Dissolved	ug/L	66	-	0.93	
Copper (Cu)-Dissolved	ug/L	87	-	5.14	
Lead (Pb)-Dissolved	ug/L	25	-	0.766	
Mercury (Hg)-Dissolved	ug/L	0.29	-	< 0.0050 PDM	
Molybdenum (Mo)-Dissolved	ug/L	9200	-	0.721	
Nickel (Ni)-Dissolved	ug/L	490	-	2.15	
Selenium (Se)-Dissolved	ug/L	63	-	0.060	
Silver (Ag)-Dissolved	ug/L	1.5	-	<0.050	
Sodium (Na)-Dissolved	ug/L	2300000	-	8360	
Thallium (TI)-Dissolved	ug/L	510	-	0.022	
Uranium (U)-Dissolved	ug/L	420	-	1.06	
Vanadium (V)-Dissolved	ug/L	250	-	4.03	
Zinc (Zn)-Dissolved	ug/L	1100	-	6.1	

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (Coarse)

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.

^{*} Please refer to the Reference Information section for an explanation of any qualifiers noted.

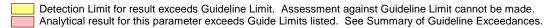


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Speciated Metals - WATER

		Sampl	Lab ID e Date iple ID	L2586364-1 10-MAY-21 BHMW3
Analyte	Unit	Guide #1	Limits #2	
Chromium, Hexavalent	ug/L	140	-	<0.50

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (Coarse)



^{*} Please refer to the Reference Information section for an explanation of any qualifiers noted.



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Polycyclic Aromatic Hydrocarbons - WATER

Lab ID	L2586364-1
Sample Date	10-MAY-21
Sample ID	BHMW3

		Guide I	imits	
Analyte	Unit	#1	#2	
Acenaphthene	ug/L	600	-	<0.020
Acenaphthylene	ug/L	1.8	-	<0.020
Anthracene	ug/L	2.4	-	<0.020
Benzo(a)anthracene	ug/L	4.7	-	<0.020
Benzo(a)pyrene	ug/L	0.81	-	<0.010
Benzo(b&j)fluoranthene	ug/L	0.75	-	<0.020
Benzo(g,h,i)perylene	ug/L	0.2	-	<0.020
Benzo(k)fluoranthene	ug/L	0.4	-	<0.020
Chrysene	ug/L	1	-	<0.020
Dibenz(a,h)anthracene	ug/L	0.52	-	<0.020
Fluoranthene	ug/L	130	-	<0.020
Fluorene	ug/L	400	-	<0.020
Indeno(1,2,3-cd)pyrene	ug/L	0.2	-	<0.020
1+2-Methylnaphthalenes	ug/L	1800	-	<0.028
1-Methylnaphthalene	ug/L	1800	-	<0.020
2-Methylnaphthalene	ug/L	1800	-	<0.020
Naphthalene	ug/L	1400	-	< 0.050
Phenanthrene	ug/L	580	-	0.046
Pyrene	ug/L	68	-	0.029
Surrogate: Acenaphthene d10	%	-	-	64.5
Surrogate: Chrysene d12	%	-	-	62.1
Surrogate: Naphthalene d8	%	-	-	60.2
Surrogate: Phenanthrene d10	%	-	-	83.8

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (Coarse)

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.

^{*} Please refer to the Reference Information section for an explanation of any qualifiers noted.



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Organochlorine Pesticides	- WATER			
		Sample	ab ID Date ple ID	L2586364-2 10-MAY-21 BHMW1
Analyte	Unit	Guide I #1	_imits #2	
Aldrin	ug/L	8.5	-	<0.0080
gamma-hexachlorocyclohexane	ug/L	1.2	-	<0.0080
a-chlordane	ug/L	-	-	<0.0080
Chlordane (Total)	ug/L	28	-	<0.011
g-chlordane	ug/L	-	-	<0.0080
o,p-DDD	ug/L	-	-	<0.0040
pp-DDD	ug/L	-	-	<0.0040
Total DDD	ug/L	45	-	<0.0057
o,p-DDE	ug/L	-	-	<0.0040
pp-DDE	ug/L	-	-	<0.0040
Total DDE	ug/L	20	-	<0.0057
op-DDT	ug/L	-	-	<0.0040
pp-DDT	ug/L	-	-	<0.0040
Total DDT	ug/L	2.8	-	<0.0057
DDT+Metabolites	ug/L	-	-	<0.0098
Dieldrin	ug/L	0.75	-	<0.0080
Endosulfan I	ug/L	-	-	<0.0070
Endosulfan II	ug/L	-	-	<0.0070
Endosulfan (Total)	ug/L	1.5	-	<0.0099
Endrin	ug/L	0.48	-	<0.010
Heptachlor	ug/L	2.5	-	<0.0080
Heptachlor Epoxide	ug/L	0.048	-	<0.0080
Hexachlorobenzene	ug/L	3.1	-	<0.0080
Hexachlorobutadiene	ug/L	0.44	-	<0.0080
Hexachloroethane	ug/L	94	-	<0.0080
Methoxychlor	ug/L	6.5	-	<0.0080
Surrogate: Decachlorobiphenyl	%	-	-	96.7
Surrogate: Tetrachloro-m-xylene	%	-	-	92.4

Guide Limit #1: T3-Non-Potable Ground Water-All Types of Property Uses (Coarse)

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made. Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.

^{*} Please refer to the Reference Information section for an explanation of any qualifiers noted.

Reference Information

L2586364 CONT'D....

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Qualifiers for Individual Parameters Listed:

Qualifier Description

PDM Particulate was observed in preserved Dissolved Metals sample. Associated results may be biased low.

Methods Listed (if applicable):

ALS Test Code Matrix **Test Description** Method Reference**

CHLORDANE-T-CALC-WT Water Chlordane Total sums CALCULATION

Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.

CL-IC-N-WT Water Chloride by IC EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CN-WAD-R511-WT APHA 4500CN I-Weak acid Dist Colorimet Water Cyanide (WAD)-O.Reg 153/04

Weak acid dissociable cyanide (WAD) is determined by undergoing a distillation procedure. Cyanide is converted to cyanogen chloride by reacting with chloramine-T, the cyanogen chloride then reacts with a combination of barbituric acid and isonicotinic acid to form a highly colored complex.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CR-CR6-IC-R511-WT Water Hex Chrom-O.Reg 153/04 (July 2011) EPA 7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

DDD-DDE-DDT-CALC-WT Water DDD, DDE, DDT sums CALCULATION

Calculation of Total DDD. Total DDE and Total DDT

EC-R511-WT Water Conductivity-O.Reg 153/04 (July 2011) APHA 2510 B

Water samples can be measured directly by immersing the conductivity cell into the sample.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

EC-SCREEN-WT Water Conductivity Screen (Internal Use APHA 2510 Only)

Qualitative analysis of conductivity where required during preparation of other tests - e.g. TDS, metals, etc.

ENDOSULFAN-T-CALC-Water Endosulfan Total sums CALCULATION WT

Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.

HG-D-UG/L-CVAA-WT Water Diss. Mercury in Water by CVAAS EPA 1631E (mod)

(ug/L)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS.

L2586364 CONT'D....

Reference Information

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Methods Listed (if applicable):

ALS Test Code Matrix **Test Description** Method Reference**

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

MET-D-UG/L-MS-WT

Water

Diss. Metals in Water by ICPMS (ug/L) EPA 200.8

The metal constituents of a non-acidified sample that pass through a membrane filter prior to ICP/MS analysis.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

METHYLNAPS-CALC-WT Water

PAH-Calculated Parameters

SW846 8270

OCP-ROUTINE-WT

Water

Pesticides, Organochlorine in Water

SW846 8270

Samples are extracted using a solvent mixture and the resulting extracts are analyzed on GC/MSD

PAH-511-WT

Water

PAH-O. Reg 153/04 (July 2011)

SW846 3510/8270

Aqueous samples, fortified with surrogates, are extracted using liquid/liquid extraction technique. The sample extracts are concentrated and then analyzed using GC/MS. Results for benzo(b) fluoranthene may include contributions from benzo(j)fluoranthene, if also present in the sample.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

PH-WT

Water

pΗ

APHA 4500 H-Electrode

Water samples are analyzed directly by a calibrated pH meter.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), Holdtime for samples under this regulation is 28 days

**ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody Numbers:

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code

Laboratory Location

WT

ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

Reference Information

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GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.



Workorder: L2586364 Report Date: 13-MAY-21 Page 1 of 8

Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-IC-N-WT	Water							
Batch R5457074								
WG3533741-19 DUP Chloride (CI)		WG3533741-18 6.18	3 6.16		mg/L	0.3	20	12-MAY-21
WG3533741-17 LCS Chloride (CI)			100.8		%		90-110	12-MAY-21
WG3533741-16 MB Chloride (Cl)			<0.50		mg/L		0.5	12-MAY-21
WG3533741-20 MS Chloride (Cl)		WG3533741-18	3 102.3		%		75-125	12-MAY-21
CN-WAD-R511-WT	Water							
Batch R5456317								
WG3533337-3 DUP Cyanide, Weak Acid Dis	s	WG3533337-5 <2.0	<2.0	RPD-NA	ug/L	N/A	20	12-MAY-21
WG3533337-2 LCS Cyanide, Weak Acid Dis	s		87.1		%		80-120	12-MAY-21
WG3533337-1 MB Cyanide, Weak Acid Dis	s		<2.0		ug/L		2	12-MAY-21
WG3533337-4 MS Cyanide, Weak Acid Dis	s	WG3533337-5	107.8		%		75-125	12-MAY-21
CR-CR6-IC-R511-WT	Water							
Batch R5457159								
WG3533638-4 DUP Chromium, Hexavalent		WG3533638-3 2.54	2.50		ug/L	1.5	20	12-MAY-21
WG3533638-2 LCS Chromium, Hexavalent			103.0		%		80-120	12-MAY-21
WG3533638-1 MB Chromium, Hexavalent			<0.50		ug/L		0.5	12-MAY-21
WG3533638-5 MS Chromium, Hexavalent		WG3533638-3	103.2		%		70-130	12-MAY-21
EC-R511-WT	Water							
Batch R5456465								
WG3533131-4 DUP Conductivity		WG3533131-3 0.926	0.927		mS/cm	0.1	10	12-MAY-21
WG3533131-2 LCS Conductivity			103.1		%		90-110	12-MAY-21
WG3533131-1 MB Conductivity			<0.0030		mS/cm		0.003	12-MAY-21
HG-D-UG/L-CVAA-WT	Water							



Workorder: L2586364 Report Date: 13-MAY-21 Page 2 of 8

Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-D-UG/L-CVAA-WT	Water							
Batch R5456861 WG3533937-3 DUP Mercury (Hg)-Dissolved		L2586364-1 <0.0050	<0.0050	RPD-NA	ug/L	N/A	20	13-MAY-21
WG3533937-2 LCS Mercury (Hg)-Dissolved			108.0		%		80-120	13-MAY-21
WG3533937-1 MB Mercury (Hg)-Dissolved			<0.0050		ug/L		0.005	13-MAY-21
WG3533937-4 MS Mercury (Hg)-Dissolved		L2586713-2	98.5		%		70-130	13-MAY-21
MET-D-UG/L-MS-WT	Water							
Batch R5456049								
WG3532928-4 DUP Antimony (Sb)-Dissolved	l	WG3532928-3 <0.10	<0.10	RPD-NA	ug/L	N/A	20	11-MAY-21
Arsenic (As)-Dissolved		0.45	0.45		ug/L	1.3	20	11-MAY-21
Barium (Ba)-Dissolved		64.4	64.4		ug/L	0.1	20	11-MAY-21
Beryllium (Be)-Dissolved		<0.10	<0.10	RPD-NA	ug/L	N/A	20	11-MAY-21
Boron (B)-Dissolved		12	12		ug/L	8.0	20	11-MAY-21
Cadmium (Cd)-Dissolved	t	<0.0050	<0.0050	RPD-NA	ug/L	N/A	20	11-MAY-21
Chromium (Cr)-Dissolved	d	0.57	0.55		ug/L	3.1	20	11-MAY-21
Cobalt (Co)-Dissolved		0.21	0.20		ug/L	2.3	20	11-MAY-21
Copper (Cu)-Dissolved		1.40	1.43		ug/L	2.2	20	11-MAY-21
Lead (Pb)-Dissolved		<0.050	< 0.050	RPD-NA	ug/L	N/A	20	11-MAY-21
Molybdenum (Mo)-Disso	lved	4.71	4.77		ug/L	1.3	20	11-MAY-21
Nickel (Ni)-Dissolved		0.74	0.78		ug/L	5.0	20	11-MAY-21
Selenium (Se)-Dissolved	I	0.407	0.421		ug/L	3.5	20	11-MAY-21
Silver (Ag)-Dissolved		<0.050	<0.050	RPD-NA	ug/L	N/A	20	11-MAY-21
Sodium (Na)-Dissolved		65700	65700		ug/L	0.0	20	11-MAY-21
Thallium (TI)-Dissolved		<0.010	<0.010	RPD-NA	ug/L	N/A	20	11-MAY-21
Uranium (U)-Dissolved		1.24	1.23		ug/L	0.5	20	11-MAY-21
Vanadium (V)-Dissolved		0.60	0.57		ug/L	5.5	20	11-MAY-21
Zinc (Zn)-Dissolved		1.1	1.1		ug/L	3.7	20	11-MAY-21
WG3532928-2 LCS Antimony (Sb)-Dissolved	l		104.5		%		80-120	11-MAY-21
Arsenic (As)-Dissolved			100.6		%		80-120	11-MAY-21
Barium (Ba)-Dissolved			101.1		%		80-120	11-MAY-21
Beryllium (Be)-Dissolved			98.3		%		80-120	11-MAY-21



Workorder: L2586364 Report Date: 13-MAY-21 Page 3 of 8

Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	Water							
Batch R545604	19							
WG3532928-2 LCS	}				0.4			
Boron (B)-Dissolved			94.1		%		80-120	11-MAY-21
Cadmium (Cd)-Dissol			101.4		%		80-120	11-MAY-21
Chromium (Cr)-Disso			96.1		%		80-120	11-MAY-21
Cobalt (Co)-Dissolved			99.1		%		80-120	11-MAY-21
Copper (Cu)-Dissolve	d		98.4		%		80-120	11-MAY-21
Lead (Pb)-Dissolved			108.8		%		80-120	11-MAY-21
Molybdenum (Mo)-Dis	ssolved		103.2		%		80-120	11-MAY-21
Nickel (Ni)-Dissolved			97.9		%		80-120	11-MAY-21
Selenium (Se)-Dissol	ved		97.0		%		80-120	11-MAY-21
Silver (Ag)-Dissolved			107.7		%		80-120	11-MAY-21
Sodium (Na)-Dissolve	ed		96.1		%		80-120	11-MAY-21
Thallium (TI)-Dissolve	ed		108.3		%		80-120	11-MAY-21
Uranium (U)-Dissolve	d		110.5		%		80-120	11-MAY-21
Vanadium (V)-Dissolv	red .		99.6		%		80-120	11-MAY-21
Zinc (Zn)-Dissolved			102.6		%		80-120	11-MAY-21
WG3532928-1 MB								
Antimony (Sb)-Dissol			<0.10		ug/L		0.1	11-MAY-21
Arsenic (As)-Dissolve			<0.10		ug/L		0.1	11-MAY-21
Barium (Ba)-Dissolve	d		<0.10		ug/L		0.1	11-MAY-21
Beryllium (Be)-Dissolv	/ed		<0.10		ug/L		0.1	11-MAY-21
Boron (B)-Dissolved			<10		ug/L		10	11-MAY-21
Cadmium (Cd)-Dissol	ved		<0.0050		ug/L		0.005	11-MAY-21
Chromium (Cr)-Disso	lved		<0.50		ug/L		0.5	11-MAY-21
Cobalt (Co)-Dissolved	d		<0.10		ug/L		0.1	11-MAY-21
Copper (Cu)-Dissolve	d		<0.20		ug/L		0.2	11-MAY-21
Lead (Pb)-Dissolved			< 0.050		ug/L		0.05	11-MAY-21
Molybdenum (Mo)-Dis	ssolved		<0.050		ug/L		0.05	11-MAY-21
Nickel (Ni)-Dissolved			<0.50		ug/L		0.5	11-MAY-21
Selenium (Se)-Dissol	ved		<0.050		ug/L		0.05	11-MAY-21
Silver (Ag)-Dissolved			<0.050		ug/L		0.05	11-MAY-21
Sodium (Na)-Dissolve	ed		<50		ug/L		50	11-MAY-21
Thallium (TI)-Dissolve	ed		<0.010		ug/L		0.01	11-MAY-21
Uranium (U)-Dissolve	d		<0.010		ug/L		0.01	11-MAY-21
Vanadium (V)-Dissolv	/ed		<0.50		ug/L		0.5	11-MAY-21



Workorder: L2586364 Report Date: 13-MAY-21 Page 4 of 8

Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-UG/L-MS-WT	Water							
Batch R545604	9							
WG3532928-1 MB								
Zinc (Zn)-Dissolved			<1.0		ug/L		1	11-MAY-21
WG3532928-5 MS Antimony (Sb)-Dissolv	ed	WG3532928-6	i 105.5		%		70-130	11-MAY-21
Arsenic (As)-Dissolved	d		126.9		%		70-130	12-MAY-21
Barium (Ba)-Dissolved	I		N/A	MS-B	%		-	11-MAY-21
Beryllium (Be)-Dissolv	ed		107.9		%		70-130	11-MAY-21
Boron (B)-Dissolved			95.3		%		70-130	11-MAY-21
Cadmium (Cd)-Dissolv	/ed		106.7		%		70-130	11-MAY-21
Chromium (Cr)-Dissol	ved		109.1		%		70-130	11-MAY-21
Cobalt (Co)-Dissolved			107.0		%		70-130	11-MAY-21
Copper (Cu)-Dissolved	d		101.4		%		70-130	11-MAY-21
Lead (Pb)-Dissolved			100.6		%		70-130	11-MAY-21
Molybdenum (Mo)-Dis	solved		108.7		%		70-130	11-MAY-21
Nickel (Ni)-Dissolved			102.4		%		70-130	11-MAY-21
Selenium (Se)-Dissolv	red		136.5	MES	%		70-130	12-MAY-21
Silver (Ag)-Dissolved			99.6		%		70-130	11-MAY-21
Sodium (Na)-Dissolve	d		N/A	MS-B	%		-	11-MAY-21
Thallium (TI)-Dissolved	d		100.6		%		70-130	11-MAY-21
Uranium (U)-Dissolved	t		N/A	MS-B	%		-	11-MAY-21
Vanadium (V)-Dissolve	ed		114.6		%		70-130	11-MAY-21
Zinc (Zn)-Dissolved			111.5		%		70-130	11-MAY-21
OCP-ROUTINE-WT	Water							
Batch R545640	5							
WG3533114-2 LCS Aldrin			128.7		%		EO 1EO	40 MAY 04
gamma-hexachlorocyo	rlohevane		117.1		%		50-150 50-150	12-MAY-21 12-MAY-21
a-chlordane	Jonesane		122.3		%			12-MAY-21 12-MAY-21
g-chlordane			122.4		%		50-150 50-150	
o,p-DDD			111.4		%		50-150	12-MAY-21
pp-DDD			116.6		%		50-150	12-MAY-21
o,p-DDE			105.4		%		50-150	12-MAY-21
pp-DDE			109.6		%			12-MAY-21
op-DDT			113.6		%		50-150 50-150	12-MAY-21 12-MAY-21
pp-DDT			98.4		%		50-150 50-150	
ρ ρ- 00 ί			30.4		70		50-150	12-MAY-21



Workorder: L2586364 Report Date: 13-MAY-21 Page 5 of 8

Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

Contact: Dennis Hsu/ Alexis Teohari

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
OCP-ROUTINE-WT	Water							
Batch R5456405								
WG3533114-2 LCS Dieldrin			112.1		%		50-150	12-MAY-21
Endosulfan I			122.9		%		50-150	12-MAY-21
Endosulfan II			115.1		%		50-150	12-MAY-21
Endrin			78.2		%		50-150	12-MAY-21
Heptachlor			107.6		%		50-150	12-MAY-21
Heptachlor Epoxide			126.1		%		50-150	12-MAY-21
Hexachlorobenzene			106.3		%		50-150	12-MAY-21
Hexachlorobutadiene			99.3		%		50-150	12-MAY-21
Hexachloroethane			106.9		%		50-150	12-MAY-21
Methoxychlor			123.7		%		50-150	12-MAY-21
WG3533114-1 MB								
Aldrin			<0.0080		ug/L		0.008	12-MAY-21
gamma-hexachlorocyclo	ohexane		<0.0080		ug/L		0.008	12-MAY-21
a-chlordane			<0.0080		ug/L		0.008	12-MAY-21
g-chlordane			<0.0080		ug/L		0.008	12-MAY-21
o,p-DDD			<0.0040		ug/L		0.004	12-MAY-21
pp-DDD			<0.0040		ug/L		0.004	12-MAY-21
o,p-DDE			<0.0040		ug/L		0.004	12-MAY-21
pp-DDE			<0.0040		ug/L		0.004	12-MAY-21
op-DDT			<0.0040		ug/L		0.004	12-MAY-21
pp-DDT			<0.0040		ug/L		0.004	12-MAY-21
Dieldrin			<0.0080		ug/L		0.008	12-MAY-21
Endosulfan I			<0.0070		ug/L		0.007	12-MAY-21
Endosulfan II			<0.0070		ug/L		0.007	12-MAY-21
Endrin			<0.010		ug/L		0.01	12-MAY-21
Heptachlor			<0.0080		ug/L		0.008	12-MAY-21
Heptachlor Epoxide			<0.0080		ug/L		0.008	12-MAY-21
Hexachlorobenzene			<0.0080		ug/L		0.008	12-MAY-21
Hexachlorobutadiene			<0.0080		ug/L		0.008	12-MAY-21
Hexachloroethane			<0.0080		ug/L		0.008	12-MAY-21
Methoxychlor			<0.0080		ug/L		0.008	12-MAY-21
Surrogate: Decachlorob	iphenyl		138.2	SURQC	%		40-130	12-MAY-21
Surrogate: Tetrachloro-r	m-xylene		88.5		%		40-130	12-MAY-21
-	-							

PAH-511-WT Water



Workorder: L2586364 Report Date: 13-MAY-21 Page 6 of 8

Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Water							
Batch R5456186								
WG3532757-2 LCS					0/			
1-Methylnaphthalene			99.0		%		50-140	12-MAY-21
2-Methylnaphthalene			92.0		%		50-140	12-MAY-21
Acenaphthene			101.1		%		50-140	12-MAY-21
Acenaphthylene			99.0		%		50-140	12-MAY-21
Anthracene			99.9		%		50-140	12-MAY-21
Benzo(a)anthracene			104.2		%		50-140	12-MAY-21
Benzo(a)pyrene			101.7		%		50-140	12-MAY-21
Benzo(b&j)fluoranthene			109.4		%		50-140	12-MAY-21
Benzo(g,h,i)perylene			116.2		%		50-140	12-MAY-21
Benzo(k)fluoranthene			104.7		%		50-140	12-MAY-21
Chrysene			101.3		%		50-140	12-MAY-21
Dibenz(a,h)anthracene			102.8		%		50-140	12-MAY-21
Fluoranthene			104.2		%		50-140	12-MAY-21
Fluorene			100.6		%		50-140	12-MAY-21
Indeno(1,2,3-cd)pyrene			122.9		%		50-140	12-MAY-21
Naphthalene			89.4		%		50-140	12-MAY-21
Phenanthrene			107.2		%		50-140	12-MAY-21
Pyrene			104.3		%		50-140	12-MAY-21
WG3532757-1 MB 1-Methylnaphthalene			<0.020		ug/L		0.02	12-MAY-21
2-Methylnaphthalene			<0.020		ug/L		0.02	12-MAY-21
Acenaphthene			<0.020		ug/L		0.02	12-MAY-21
Acenaphthylene			<0.020		ug/L		0.02	12-MAY-21
Anthracene			<0.020		ug/L		0.02	12-MAY-21
Benzo(a)anthracene			<0.020		ug/L		0.02	12-MAY-21
Benzo(a)pyrene			<0.010		ug/L		0.01	12-MAY-21
Benzo(b&j)fluoranthene			<0.020		ug/L		0.02	
Benzo(g,h,i)perylene			<0.020		ug/L		0.02	12-MAY-21 12-MAY-21
Benzo(k)fluoranthene			<0.020		ug/L		0.02	
Chrysene			<0.020		ug/L		0.02	12-MAY-21
Dibenz(a,h)anthracene			<0.020		ug/L ug/L		0.02	12-MAY-21
Fluoranthene							0.02	12-MAY-21
			<0.020		ug/L			12-MAY-21
Fluorene			<0.020		ug/L		0.02	12-MAY-21
Indeno(1,2,3-cd)pyrene			<0.020		ug/L		0.02	12-MAY-21



Workorder: L2586364

Report Date: 13-MAY-21

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Client:

T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed	
PAH-511-WT	Water								
Batch R54	56186								
WG3532757-1	MB								
Naphthalene			< 0.050		ug/L		0.05	12-MAY-21	
Phenanthrene			<0.020		ug/L		0.02	12-MAY-21	
Pyrene			<0.020		ug/L		0.02	12-MAY-21	
Surrogate: Napht	thalene d8		89.2		%		60-140	12-MAY-21	
Surrogate: Phena	anthrene d10		97.3		%		60-140	12-MAY-21	
PH-WT	Water								
Batch R54	56465								
WG3533131-4	DUP	WG3533131-	3						
рН		7.95	7.98	J	pH units	0.03	0.2	12-MAY-21	
WG3533131-2	LCS								
рН			6.96		pH units		6.9-7.1	12-MAY-21	

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Workorder: L2586364 Report Date: 13-MAY-21

Client: T.HARRIS ENVIRONMENTAL MANAGEMENT INC

93 Skyway Ave.

Etobicoke ON M9W 6N6 Dennis Hsu/ Alexis Teohari

Legend:

Contact:

Limit ALS Control Limit (Data Quality Objectives)

DUP Duplicate

RPD Relative Percent Difference

N/A Not Available

LCS Laboratory Control Sample SRM Standard Reference Material

MS Matrix Spike

MSD Matrix Spike Duplicate

ADE Average Desorption Efficiency

MB Method Blank

IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.
SURQC	Surrogate recovery marginally exceeded DQO in QC sample (MB, LCS, RM, or MS). Surrogates are less important for QC samples than for test samples. Refer to regular (non-surrogate) analyte results in affected QC sample for assessment of potential impacts to those analytes.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Chain of Custody (COC) / A



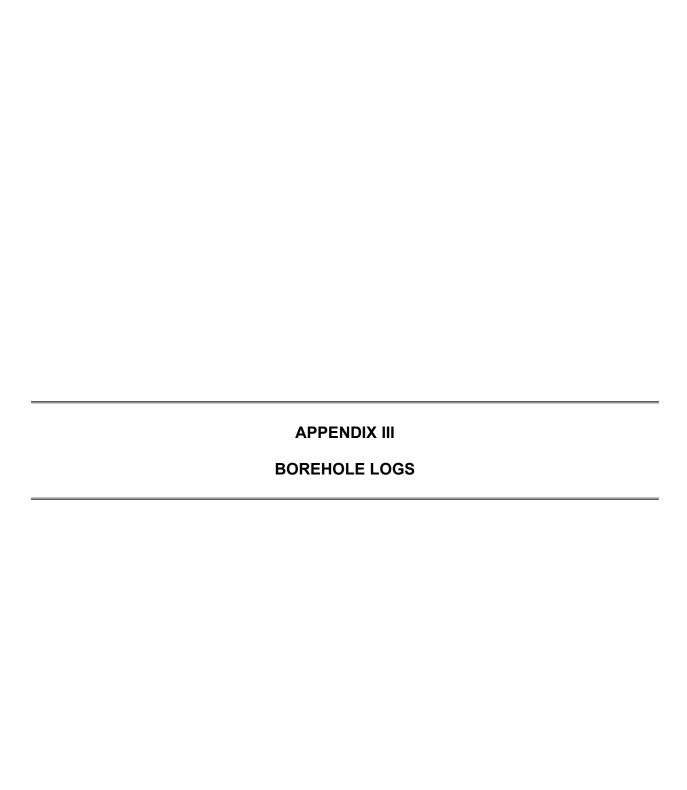


Canada Toll Free:

L2586364-COFC

Page of

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Contact:	Dennis Han : Alexis Team	Mei	erge QC/QCI Reports with COA	YES NO	□ N/A	☐ 4 dā	y [P4] if re	ceived by 3p	om M-F- 2	0% rush surc	harge minim	um	4 /2 22	100	* 9 (A)			
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	BHNW3-2	₹.	10-05-21	01:00	Soil	2	$\mathcal{I}_{\mathcal{A}}\mathcal{I}_{\mathcal{A}}$										\perp	
ill No.	RHMW3-3			1	μ	2	ノノ								\coprod		┙	
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PROJECT NUMBER 17975-01
PROJECT NAME Phase II ESA
CLIENT Horizon Legacy
ADDRESS Vacant Lands near 334 Victoria
Avenue, Gananoque, ON - Bonus Lot

DRILLING DATE 11/05/2021 TOTAL DEPTH 25 DIAMETER 15 cm

Drilled by: Canadian Environmental Drilling

Drill Method: Direct Push

Borehole name: BHMW3 LOGGED BY AT CHECKED BY DH

PID	Samples	Analysed	% Recovery	Depth (ft)	Graphic Log	Moisture	Material Description	Wel	ll Diagram
0	BHMW3-1	N		- 1 - 2 - 3	***************************************	D	TOPSOIL: Brown, with cobbles		
0	BHMW3-2	Y		5 			CLAY: Brown/grey, dense		-bentonite
0	BHMW3-3	Y		11 12 13		W	CLAY: Grey, dense		
0	BHMW3-4	N		14 - 15 - 16 - 17 - 18 - 19			Intermittent transition to brown, medium dense every 1'		
0	BHMW3-5	N		20 - 21 - 22 - 23 - 24					-silica sand
		+		25			Termination Depth at: 25 ft		



DRILLING DATE 11/05/2021

PROJECT NUMBER 17975-01
PROJECT NAME Phase II ESA
CLIENT Horizon Legacy
ADDRESS Vacant Lands near 334 Victoria

Avenue, Gananoque, ON - Bonus Lot

TOTAL DEPTH 20 DIAMETER 15 cm

Drilled by: Canadian Environmental Drilling

Drill Method: Direct Push

Borehole name: BH4 LOGGED BY AT CHECKED BY DH

PID	Samples	Analysed	% Recovery	Depth (ft)	Graphic Log	Moisture	Material Description	Well Diagram
0	BH4-1	N		- 1 - 2 - 3		D	TOPSOIL: Brown, loose, with pebbles	
0	BH4-2	Y		5 6 7 8 9			SILTY CLAY: Brown, medium dense	
0	BH4-3	N		11 12 13 14		W	SANDY CLAY: Brown, loose CLAY: Brown/gray, dense	
0	BH4-4	N		15 16 17 18 19		D	CLAY: Grey,dense CLAY: Brown, medium dense	
				- 20 - 21 - 22 - 23				
				25 - - - 26			Termination Depth at: 20 ft	



DRILLING DATE 11/05/2021

PROJECT NUMBER 17975-01 PROJECT NAME Phase II ESA **CLIENT** Horizon Legacy ADDRESS Vacant Lands near 334 Victoria

Avenue, Gananoque, ON - Main Lot

TOTAL DEPTH 14 **DIAMETER** 15 cm

Drilled by: Canadian Environmental Drilling

Drill Method: Split Spoon

LOGGED BY AT Borehole name: BHMW1 CHECKED BY DH

PID	Samples	Analysed	% Recovery	Depth (ft)	Graphic Log	Moisture	Material Description	Well Diagram
				1		D	Topsoil	
•	BHMW1-1	N		3		W	CLAY: Brown, dense	bentonite
2 pb	BHMW1-2	N		5			CLAY: Grey, dense	
313 opb	BHMW1-3	N		9 10			CLAY: Grey, , dense	-silica sand
38 pb	BHMW1-4	Y		12			SANDY SILT: Brown, loose	
				16				
				19				
				21 22 23				
				24 - 25			Termination Depth at: 14 ft (refusal)	



PROJECT NUMBER 17975-01
PROJECT NAME Phase II ESA
CLIENT Horizon Legacy
ADDRESS Vacant Lands near 334 Victor

ADDRESS Vacant Lands near 334 Victoria Avenue, Gananoque, ON - Main Lot

DRILLING DATE 11/05/2021

TOTAL DEPTH 20 DIAMETER 15 cm

Drilled by: Canadian Environmental Drilling

Drill Method: Split Spoon

Borehole name: BH2

LOGGED BY AT
CHECKED BY DH

PID	Samples	Analysed	% Recovery	Depth (ft)	Graphic Log	Moisture	Material Description	Well Diagram
				- - 1				
				2				
				3				
				4				
				5				
-	BH2-1	N		6		D	CLAY: Grey, dense	
				7				
ŀ	BH2-2	N		- 8		W		
				9				
	BH2-3	Y		10			CLAY: Grey, medium dense	
50 ob				- 11 - 12				
	BH2-4	N		13			CLAY: Grey, dense	
				14				
8	BH2-5	Y		15				
pb	BH2-6	N		16				
	BH2-0	IN I		17			SANDY CLAY: Grey, medium dense	
				18			SANDT CLAT. Gley, medium dense	
				19				
				20			CLAY: Grey, dense SAND: Grey, loose	
ŀ				21				
				22				
				23				
				24				
\dashv				25			Termination Depth at: 20 ft 8 inches	