PATERSON GROUP

Consulting Engineers
9 Auriga Drive
Ottawa, Ontario
K2E 7T9
Tel: (613) 226-7381

Geotechnical Engineering
Environmental Engineering
Hydrogeology
Materials Testing
Building Science
Rural Development Design
Retaining Wall Design
Noise and Vibration Studies

patersongroup.ca

February 14, 2024
File: PE1114-LET.04R

Southwell Homes Ltd.
195 Julie Anne Crescent
Carleton Place, Ontario
K7C 4M5

Attention: **Mr. John Southwell**

Subject: **Remedial Action Plan**
116-122 Old Mill Lane, Appleton, Ontario

Dear Sir,

Further to your request and authorization, Paterson Group (Paterson) has prepared a remedial action plan for the proposed development at 116 to 122 Old Mill Lane (the subject site).

Historical Background

The subject site is currently vacant land. As part of historical searches, areas of potential environmental concern were identified on the subject site, resulting from the former use of the property as a woolen mill. As such, the following assessments were completed on the subject site.

- ‘Phase II Environmental Site Assessment, Former Appletex Mill, 116-122 Old Mill Lane – Appleton, Ontario, prepared by Paterson, dated June 2009.

Based on information obtained through previously completed environmental reports by others on the Phase II Property, Paterson conducted a Phase II ESA on the subject site in 2009.

Metal parameters that exceeded the selected MOE Table 2 standards were identified in soil samples collected from three (3) test pits advanced on the property. In addition to the identified metal impacts, petroleum hydrocarbon (PHC) exceedances were also detected in one of the completed test pits.

Six groundwater samples were submitted as part of the 2009 assessment. PHC impacts were identified in the monitoring wells advanced in a previous soil remediation section of the Phase II Property.

Following the identified soil and groundwater impacts, Paterson completed a joint Phase I – ESA and remediation program to address the contamination.

- ‘Phase I Environmental Site Assessment and Remediation Program, Former Appletex Mill, 116-122 Old Mill Lane – Appleton, Ontario, prepared by Paterson, dated November 15, 2010.

The remediation program involved the removal of impacted overburden material that was sent to the nearby Waste Management landfill. The fill material was removed down to bedrock in the area of the PHC remediation and the metals remediation excavations were terminated in the native soil.

The total volume of PHC impacted soil that was hauled to an accredited landfill was approximately 1,740 metric tonnes. The volume of metals impacted soil that was hauled to the landfill was approximately 136 metric tonnes.

Additionally, 33,828 L of impacted groundwater was pumped and removed from the site for off-site treatment and disposal by Veolia Environmental Services during the remediation program .

Confirmatory soil samples were collected from the PHC and metals remediation excavations and submitted for laboratory analysis. The submitted confirmatory soil samples were in compliance with the applicable MECP Table 2 residential and Table 1 background standards, depending upon their location on site.

Groundwater samples were recovered from within the PHC remediation excavation. The groundwater was submitted for analytical testing of PHCs and BTEX and the results were in compliance with the selected MECP Table 2 standards.

- ‘Environmental Action Plan, Groundwater Sampling Program, Former Appletex Mill, 116-122 Old Mill Lane – Appleton, Ontario, prepared by Paterson, dated April 2018.

Paterson completed a confirmatory groundwater sampling program on the Phase II Property following the completion of an Environmental Action Plan.

The groundwater sampling program involved the installation of two monitoring wells, BH1-18, and BH2-18. The monitoring wells were strategically placed to further assess the groundwater in the area of the previously completed PHC remediation.

All of the analyzed PHC parameters were non-detect and therefore in compliance with the selected MOECC Table 1 and 2 standards. No further work was recommended at the time of the groundwater sampling program.

- ‘Environmental Action Plan, Supplemental Groundwater Sampling Program, 116-122 Old Mill Lane – Appleton, Ontario, prepared by Paterson, dated March 2022.

The supplemental groundwater sampling program involved two separate groundwater sampling events, one in June of 2018 and the second in December of 2021.

In addition to the monitoring wells installed in 2018, three test drinking water test wells were also sampled. The groundwater samples were submitted for PHCs, benzene, toluene, ethylbenzene, and xylenes (BTEX), metals, polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs) and/or furan and dioxan parameters.

All of the analytical test results were in compliance with the selected MECP Table 6 and 8 standards as well as the previously relied upon MOECC Table 1 and 2 standards.

2023 Phase II ESA

Paterson completed a recent delineation program to assess the soil quality beneath the subject site. Based on the analytical test results, PAH, PHC and metals impacted fill material was identified at 3 test pit locations on the subject site.

In addition to the subsurface investigation, Paterson sampled a stockpile of fill material located in the central portion of the subject site. Some of the stockpiled material was also identified to be impacted with PAHs and metals.

It was recommended in the Phase II-ESA report that the impacted fill material beneath the subject site and within the stockpile be excavated and hauled off-site to an accredited waste disposal facility by a licensed contractor prior to construction.

It was also recommended that confirmatory samples be collected during the remediation excavations to ensure all of the impacted fill material is removed.

Delineation Test Pits (December 2023)

Paterson completed five additional test pits on December 7, 2023, to assess the native soil within the former lagoons and delineate a previously identified zinc impact in TP9-23.

Based on the analytical test results, the vanadium concentration in soil sample TP33-23-G5 (native soil in lagoon) exceeded the MECP Table 6 standard. As a result of the submitted sample consisting of native silty clay, it is our opinion that the elevated vanadium concentration is naturally occurring. Soil sample TP32-23-G5 also consisted of silty clay, and it too exhibited an elevated vanadium concentration that was just below the MECP Table 6 standards. These soil samples also contained elevated concentrations of barium above typical background concentrations as well as higher cobalt and chromium concentrations, all of which are typical of natural Champlain Sea clay deposits.

The barium concentration identified in soil sample TP35-23-G2 exceeded the MECP Table 6 standard, this soil will also require landfill disposal.

Environmental Summary

Soil Conditions

Based on the current Phase II-ESA findings, impacted fill material is present in three areas on the subject site: around TP5-23, TP6-23 and TP9-23. The total approximate volume of impacted fill material in these locations is estimated to be 125 m^3.

The remaining impacted soil is present in the stockpile, which was estimated to be about 2,140m^3 (approx.4,280mt) by Thomas Cavanagh Construction (Cavanagh). Based on our testing to date, it does not appear that all of the stockpile is impacted. Further testing will be required to segregate clean from impacted stockpiled material, but for the purpose of this RAP, it is considered possible that up to 40% of the stockpile is clean and may remain on site. This would give an impacted soil volume range of 2,568 mt to 4,280 mt.

Groundwater Conditions

Based on the Phase II ESA, the groundwater beneath the subject site meets the selected MECP Table 6 and Table 8 standards. No remediation is required.

Remedial Action Plan Summary

The suggested remedial action plan consists of a generic approach, where excavation and disposal at an approved waste disposal facility would be undertaken as an initial stage of the redevelopment of the subject site. The remediation program is expected to consist of the following, and will be completed under the guidance of a Qualified Person:

- Southwell Homes Ltd. will select a suitable excavation contractor. The contractor will be responsible for site preparation, locates, excavation, hauling, reinstatement, and all other activities related to the removal of the contaminated soil.
- Prior to removal of any impacted soil off-site, representative samples will be collected by Paterson staff and submitted for leachate (TCLP) analysis. Leachate analysis results will be provided to the contractor and submitted to the selected waste disposal facility.
- Impacted soil excavation will begin at test pit TP5-23, as shown on the attached figure. Excavation will extend horizontally to the nearest clean delineation test pit, or to an excavation sidewall compliant with the applicable site standards. Based on current testing, the excavation is expected to extend vertically to the interface with the native glacial till (approximately 1.5m below grade).
- A second excavation will occur at test pit TP6-23 which will extend horizontally to the nearest clean delineation test pit, or to an excavation sidewall compliant with the applicable site standards. Based on current testing, the excavation is expected to extend vertically to bedrock or the interface with the native glacial till (approximately 1 to 1.5 m below grade).

- A third excavation will occur at test pit TP9-23 which will extend horizontally to the nearest clean delineation test pit, or to an excavation sidewall compliant with the applicable site standards. Based on current testing, the excavation is expected to extend vertically to bedrock (approximately 1m below grade).
- It is estimated that 125 m^3 of impacted soil will be excavated from these areas and disposed of at a waste disposal facility.
- Segregation testing of the stockpiled material is recommended, following which all of the impacted soil in the stockpile will be hauled from the subject site and disposed of at a waste disposal facility.
- A remediation report will be issued following completion of the soil remediation program.

Quantities and Cost Estimate

Based on the information noted above, the volume of contaminated soil requiring off-site disposal is expected to range from approximately 1,400 to 2,265m^3. A cost estimate was provided by Thomas Cavanagh Construction to dispose of all of the impacted soils. Factoring in the range that we have established, the cost to dispose of the soil would range from approximately $207,800 to $318,650. There would also be fees for our monitoring of the work, confirmatory testing and reporting, which we would estimate to be approximately $22,000.

We trust that this information meets your requirements.

Sincerely,

Paterson Group Inc.

Mark D'Arcy, P.Eng.

Report Distribution

- Southwell Homes Ltd.

THOMAS CAVANAGH CONSTRUCTION LIMITED

Phone: 613-257-2918
Fax: 613-253-0071

9094 Cavanagh Road
Ashton, Ontario, K0A 1B0

To:	Southwell Homes Ltd.	**Contact:**	John Southwell
Address:	195 Julie Anne Crescent	**Phone:**	(613) 253-9123
	Carleton Place, ON	**Fax:**	
Project Name:	Appleton Shores Subdivision	**Bid Number:**	2024-117
Project Location:	122 Old Mill Lane, Appleton, ON	**Bid Date:**	1/22/2024

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
1	Float Move	2.00	EACH	$632.58	$1,265.16
2	Remove And Haul Contaminated Material To A Licensed Disposal Facility - WM Carp - Includes Equipment, Trucking, Tipping Fee, And Supervision As Required	3,887.00	TONN	$64.73	$251,605.51
3	Remove And Haul Contaminated Material To A Licensed Disposal Facility - GFL Moose Creek - Includes Equipment, Trucking, Tipping Fee, And Supervision As Required	643.00	TONN	$102.29	$65,772.47

Total Bid Price: $318,643.14

Notes:

- Subject to credit approval.
- Quotation valid for 30 days.
- The Harmonized Sales Tax is NOT included in our price, and will be shown as a separate additional amount on all invoices.
- Thomas Cavanagh Construction Limited is a non-union company.
- All works to be completed during 2024 summer conditions. Work completed outside of 2024 summer conditions may be subject to additional fees.
- Quantities are estimated - payment to be based on actual measured quantities completed.
- All fees, permits, approvals, reports, etc. are to be obtained by others.
- Pricing to be adjusted based on changes to the MTO fuel price index. Payment adjustments will be calculated monthly based on the change between the fuel price index for the month prior to tender and the fuel price index when the work is completed as per City of Ottawa S.P. No: F-1002. The following parameters are to be used for the F-1002 calculations: Impact % will be set to 14% and the Fuel Index buffer will become +/- $0.1/l. Fuel Index based on December 2023 - 132.10 cents.
- Please refer to ducuments ***"Old Mill Lane Stockpile Topo (JAN 18 '24).pdf"*** and **"Old Mill Lane Hauling Breakdown.pdf"** for additional information used to prepare this quote.
- Pricing assumes adequate access to the work area. Allowance for a haul road has not been included in this pricing.
- TCCL shall not be responsible for damages to existing access road or roadway due to truck traffic.

Payment Terms:

Payment due within 28 days of invoice.

ACCEPTED:

The above prices, specifications and conditions are satisfactory and hereby accepted.

Buyer: _____

Signature: _____

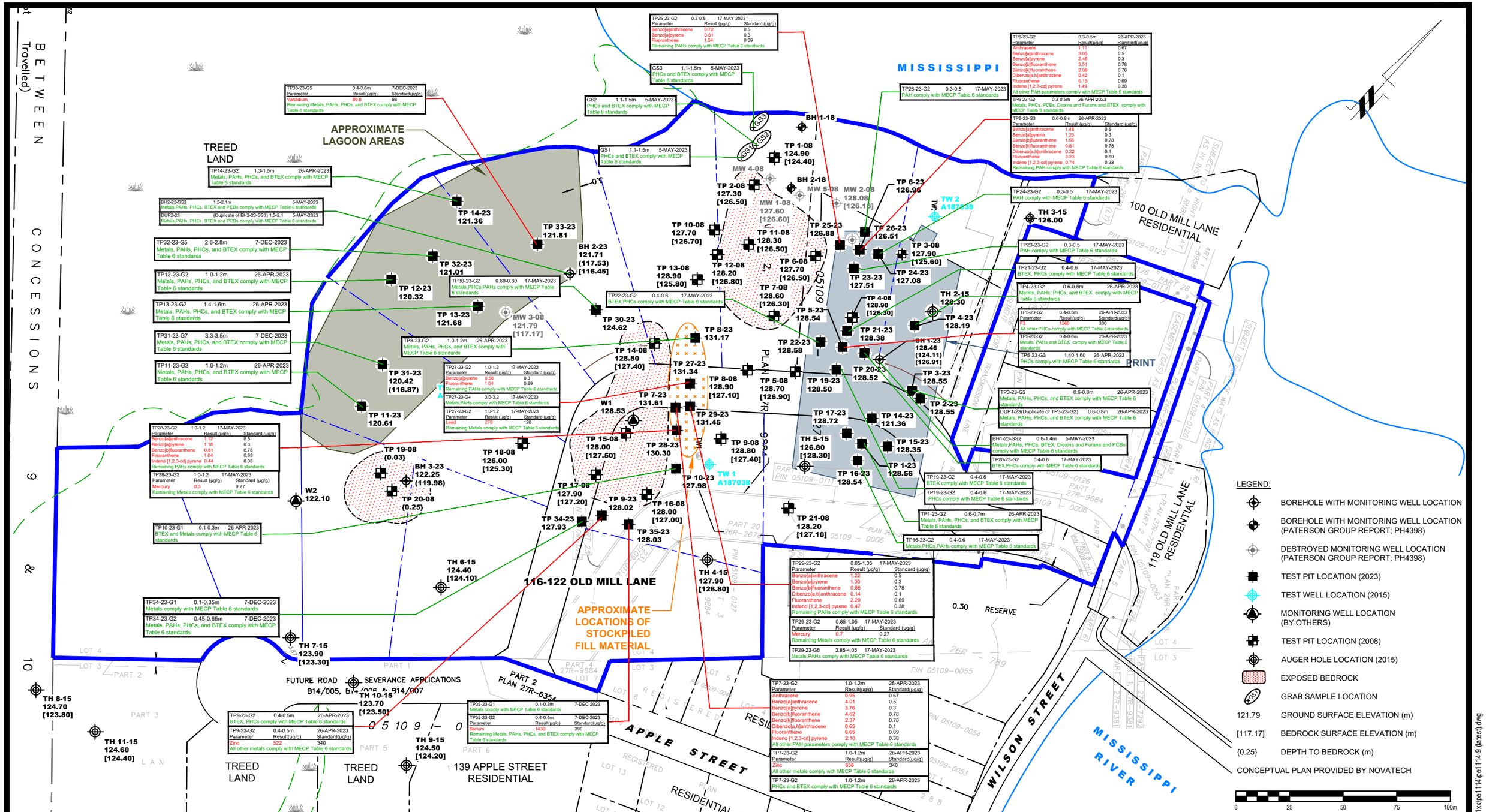
Date of Acceptance: _____

CONFIRMED:

Thomas Cavanagh Construction Limited

Authorized Signature: _____

Estimator: Brett Barr
BBarr@thomascavanagh.ca



PATERSON GROUP
9 AURIGA DRIVE
OTTAWA, ON
K2E 7T9
TEL: (613) 226-7381

NO.	REVISIONS	DATE	INITIAL

SOUTHWELL HOMES LTD.

PHASE II - ENVIRONMENTAL SITE ASSESSMENT
116-122 OLD MILL LANE

APPLETON, ONTARIO

Title:

ANALYTICAL TESTING PLAN (SOIL)

Scale: 1:1500	Date: 05/2023
Drawn by: GK	Report No.: PE1114-3
Checked by: SB	Dwg. No.: PE1114-9
Approved by: MSD	Revision No.:

p:\autocad drawings\environmental\pe11\xx\pe1114\pe1114-9 (latest).dwg

11x17

PATERSON GROUP

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Geotechnical Engineering
Environmental Engineering
Hydrogeology
Materials Testing
Building Science
Rural Development Design
Retaining Wall Design
Noise and Vibration Studies

patersongroup.ca

October 24, 2024
File: PE1114-LET.05

Southwell Homes Ltd.
195 Julie Anne Crescent
Carleton Place, Ontario
K7C 4M5

Attention: **Mr. John Southwell**

Subject: **Remedial Action Plan**
116-122 Old Mill Lane, Appleton, Ontario

Dear Sir,

Further to your request and authorization, Paterson Group (Paterson) has prepared a remedial action plan for the proposed development at 116 to 122 Old Mill Lane (the subject site).

Historical Background

The subject site is currently vacant land. As part of historical searches, areas of potential environmental concern were identified on the subject site, resulting from the former use of the property as a woolen mill. As such, the following assessments were completed on the subject site.

- ‘Phase II Environmental Site Assessment, Former Appletex Mill, 116-122 Old Mill Lane – Appleton, Ontario, prepared by Paterson, dated June 2009.

Based on information obtained through previously completed environmental reports by others on the Phase II Property, Paterson conducted a Phase II ESA on the subject site in 2009.

Metal parameters that exceeded the selected MOE Table 2 standards were identified in soil samples collected from three (3) test pits advanced on the property. In addition to the identified metal impacts, petroleum hydrocarbon (PHC) exceedances were also detected in one of the completed test pits.

Six groundwater samples were submitted as part of the 2009 assessment. PHC impacts were identified in the monitoring wells advanced in a previous soil remediation section of the Phase II Property.

Following the identified soil and groundwater impacts, Paterson completed a joint Phase I – ESA and remediation program to address the contamination.

- ‘Phase I Environmental Site Assessment and Remediation Program, Former Appletex Mill, 116-122 Old Mill Lane – Appleton, Ontario, prepared by Paterson, dated November 15, 2010.

The remediation program involved the removal of impacted overburden material that was sent to the nearby Waste Management landfill. The fill material was removed down to bedrock in the area of the PHC remediation and the metals remediation excavations were terminated in the native soil.

The total volume of PHC impacted soil that was hauled to an accredited landfill was approximately 1,740 metric tonnes. The volume of metals impacted soil that was hauled to the landfill was approximately 136 metric tonnes.

Additionally, 33,828 L of impacted groundwater was pumped and removed from the site for off-site treatment and disposal by Veolia Environmental Services during the remediation program .

Confirmatory soil samples were collected from the PHC and metals remediation excavations and submitted for laboratory analysis. The submitted confirmatory soil samples were in compliance with the applicable MECP Table 2 residential and Table 1 background standards, depending upon their location on site.

Groundwater samples were recovered from within the PHC remediation excavation. The groundwater was submitted for analytical testing of PHCs and BTEX and the results were in compliance with the selected MECP Table 2 standards.

- ‘Environmental Action Plan, Groundwater Sampling Program, Former Appletex Mill, 116-122 Old Mill Lane – Appleton, Ontario, prepared by Paterson, dated April 2018.

Paterson completed a confirmatory groundwater sampling program on the Phase II Property following the completion of an Environmental Action Plan.

The groundwater sampling program involved the installation of two monitoring wells, BH1-18, and BH2-18. The monitoring wells were strategically placed to further assess the groundwater in the area of the previously completed PHC remediation.

All of the analyzed PHC parameters were non-detect and therefore in compliance with the selected MOECC Table 1 and 2 standards. No further work was recommended at the time of the groundwater sampling program.

- ‘Environmental Action Plan, Supplemental Groundwater Sampling Program, 116-122 Old Mill Lane – Appleton, Ontario, prepared by Paterson, dated March 2022.

The supplemental groundwater sampling program involved two separate groundwater sampling events, one in June of 2018 and the second in December of 2021.

In addition to the monitoring wells installed in 2018, three test drinking water test wells were also sampled. The groundwater samples were submitted for PHCs, benzene, toluene, ethylbenzene, and xylenes (BTEX), metals, polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs) and/or furan and dioxan parameters.

All of the analytical test results were in compliance with the selected MECP Table 6 and 8 standards as well as the previously relied upon MOECC Table 1 and 2 standards.

2023 Phase II ESA

Paterson completed a recent delineation program to assess the soil quality beneath the subject site. Based on the analytical test results, PAH, PHC and metals impacted fill material was identified at 3 test pit locations on the subject site.

In addition to the subsurface investigation, Paterson sampled a stockpile of fill material located in the central portion of the subject site. Some of the stockpiled material was also identified to be impacted with PAHs and metals.

It was recommended in the Phase II-ESA report that the impacted fill material beneath the subject site and within the stockpile be excavated and hauled off-site to an accredited waste disposal facility by a licensed contractor prior to construction.

It was also recommended that confirmatory samples be collected during the remediation excavations to ensure all of the impacted fill material is removed.

Delineation Test Pits (December 2023)

Paterson completed five additional test pits on December 7, 2023, to assess the native soil within the former lagoons and delineate a previously identified zinc impact in TP9-23.

Based on the analytical test results, the vanadium concentration in soil sample TP33-23-G5 (native soil in lagoon) exceeded the MECP Table 6 standard. As a result of the submitted sample consisting of native silty clay, it is our opinion that the elevated vanadium concentration is naturally occurring. Soil sample TP32-23-G5 also consisted of silty clay,

and it too exhibited an elevated vanadium concentration that was just below the MECP Table 6 standards. These soil samples also contained elevated concentrations of barium above typical background concentrations as well as higher cobalt and chromium concentrations, all of which are typical of natural Champlain Sea clay deposits.

The barium concentration identified in soil sample TP35-23-G2 exceeded the MECP Table 6 standard, this soil will also require landfill disposal.

Delineation Test Pits (2024)

At the request of Stantec, Paterson completed a supplemental subsurface investigation in August 2024 to further delineate the extent of the soil contamination, as well as to confirm the groundwater quality beneath the former lagoon site in the western portion of the property. It should be noted that no investigative work was completed in the densely treed areas in the southern portion of the property, given that no historical activities are expected to have transpired here.

Prior to the completion of the field program, the current property owner, Mr. John Southwell, contacted the Mississippi Mills Fire Department to inquire about the use of foam in response to a structure fire which occurred on the property on February 2, 2007. The response from the fire department indicated that to their knowledge, no foam products were used to extinguish the fire. As a result, Paterson did not deem the testing for PFAS chemicals in the soil to be warranted.

Paterson advanced two additional boreholes (BH4-24 and BH5-24) on August 14, 2024, to further assess the groundwater conditions within the former lagoon area in the western portion of the site, as requested by Stantec. Another 35 test pits (TP1-24 to TP35-24) were completed on August 22, 2024, throughout the property to account for any remaining data gaps.

Based on the analytical test results of the boreholes, the vanadium concentration in soil sample BH4-24-SS5 (native clay soil in lagoon) exceeded the MECP Table 6 standards. As a result of the submitted sample consisting of native silty clay, it is our opinion that the elevated vanadium concentration is naturally occurring, which is typical of natural Champlain Sea clay deposits. All groundwater samples recovered from the boreholes installed in the former lagoon site complied with the MECP Table 6 Standards.

Based on the analytical test results of the test pits, multiple metal, PHC, and/or PAH parameter exceedances were identified in the fill material samples tested from TP3-24, TP6-24, TP7-24, TP8-24, TP13-24, TP16-24, TP22-24, TP32-24, and TP33-24. This soil will require remediation, by means of landfill disposal.

Environmental Summary

Soil Conditions

Based on the current Phase II-ESA findings, impacted fill material is present in several areas on the subject site, particularly in the vicinity of TP5-23, TP6-23, TP9-23, TP3-24, TP6-24, TP7-24, TP8-24, TP13-24, TP16-24, TP22-24, TP32-24, and TP33-24. The approximate volume of impacted fill material in these locations is estimated to range from approximately 3,500 m^3 to 5,325 m^3.

The remaining impacted soil is present in the stockpile, which was estimated to be about 2,140 m^3 (approx. 4,280 mt in total) by Thomas Cavanagh Construction (Cavanagh). Based on our testing to date, it does not appear that all of the stockpile is impacted. Further testing will be required to segregate clean from impacted stockpiled material, but for the purpose of this RAP, it is considered possible that up to 40% of the stockpile is clean and may remain on site. This would give a total impacted soil volume range of 4,900 m^3 to 7,465 m^3.

Groundwater Conditions

Based on the Phase II ESA, the groundwater beneath the subject site meets the selected MECP Table 6 and Table 8 standards. No remediation of the groundwater is required. Refer to Drawing PE1114-10 – Analytical Testing Plan (Groundwater) for the monitoring well locations and tested parameters.

Remedial Action Plan Summary

The suggested remedial action plan consists of a generic approach, where excavation and disposal at an approved waste disposal facility would be undertaken as an initial stage of the redevelopment of the subject site. The remediation program is expected to consist of the following, and will be completed under the guidance of a Qualified Person:

- ❒ Southwell Homes Ltd. will select a suitable excavation contractor. The contractor will be responsible for site preparation, locates, excavation, hauling, reinstatement, and all other activities related to the removal of the contaminated soil.

- ❒ Prior to removal of any impacted soil off-site, representative samples will be collected by Paterson staff and submitted for leachate (TCLP) analysis. Leachate analysis results will be provided to the contractor and submitted to the selected waste disposal facility.

- Impacted soil excavation will begin at test pit TP5-23, as shown on the attached figure. Excavation will extend horizontally to the nearest clean delineation test pit, or to an excavation sidewall compliant with the applicable site standards. Based on current testing, the excavation is expected to extend vertically to the interface with the native glacial till (approximately 1.5 m below grade).

- A second excavation will occur at test pit TP6-23, TP6-24, TP7-24, and TP8-24 which will extend horizontally to the nearest clean delineation test pit, or to an excavation sidewall compliant with the applicable site standards. Based on current testing, the excavation is expected to extend vertically to bedrock or the interface with the native glacial till (approximately 1 m to 3.5 m below grade).

- A third excavation will occur at test pit TP9-23 which will extend horizontally to the nearest clean delineation test pit, or to an excavation sidewall compliant with the applicable site standards. Based on current testing, the excavation is expected to extend vertically to bedrock (approximately 1 m below grade).

- A fourth excavation will occur at test pit TP3-24 which will extend horizontally to the nearest clean delineation test pit, or to an excavation sidewall compliant with the applicable site standards. Based on current testing, the excavation is expected to extend vertically to bedrock (approximately 1 m below grade).

- A fifth excavation will occur at test pit TP13-24 which will extend horizontally to the nearest clean delineation test pit, or to an excavation sidewall compliant with the applicable site standards. Based on current testing, the excavation is expected to extend vertically to bedrock (approximately 1.5 m below grade).

- A sixth excavation will occur at test pit TP16-24 which will extend horizontally to the nearest clean delineation test pit, or to an excavation sidewall compliant with the applicable site standards. Based on current testing, the excavation is expected to extend vertically to bedrock (approximately 2.0 m below grade).

- A seventh excavation will occur at test pit TP22-24 which will extend horizontally to the nearest clean delineation test pit, or to an excavation sidewall compliant with the applicable site standards. Based on current testing, the excavation is expected to extend vertically to bedrock (approximately 0.5 m below grade).

- An eighth excavation will occur at test pit TP32-24 and TP33-24 which will extend horizontally to the nearest clean delineation test pit, or to an excavation sidewall compliant with the applicable site standards. Based on current testing, the excavation is expected to extend vertically to bedrock (approximately 2.5 m to 3.5 m below grade).

- ❒ It is estimated that approximately 3,500 m^3 to 5,325 m^3 of impacted soil will be excavated from these areas and disposed of at a waste disposal facility.

- ❒ Segregation testing of the stockpiled material is recommended, following which all of the impacted soil in the stockpile (approximately 2,140 m^3) will be hauled from the subject site and disposed of at a waste disposal facility.

- ❒ A remediation report will be issued following completion of the soil remediation program.

Quantities and Cost Estimate

Based on the information noted above, the volume of contaminated soil requiring off-site disposal is expected to range from approximately 4,900 m^3 to 7,465 m^3. A cost estimate was provided by Thomas Cavanagh Construction to dispose of all of the impacted soils at a licensed disposal facility (Waste Management Carp). Factoring in the range we have established, the cost to dispose of the soil would be approximately $635,000 to $968,000. There would also be fees for our monitoring of the work, confirmatory testing and reporting, which we would estimate to be approximately $40,000.

We trust that this information meets your requirements.

Sincerely,

Paterson Group Inc.

Mark D'Arcy, P.Eng.

Attachments

- ❒ Mississippi Mills Fire Department Correspondence
- ❒ Remediation Cost Estimate (Thomas Cavanagh Construction Ltd.)
- ❒ Site Photographs (September 26, 2024)
- ❒ Soil Profile and Test Data Sheets (2023 & 2024 Test Pits and Borehole)
- ❒ Drawing PE1114-8 – Test Hole Location Plan
- ❒ Drawing PE1114-9 – Analytical Testing Plan – Soil
- ❒ Drawing PE1114-10 – Analytical Testing Plan – Groundwater

Report Distribution

- ❒ Southwell Homes Ltd.
- ❒ Paterson Group Inc.

Mississippi Mills Fire Department
P.O. Box 400, 478 Almonte St. Almonte ON, K0A 1A0
613-256-2064
www.mississippimills.ca

July 29, 2024

Attn: John Southwell
johnsouthwell@rogers.com
613-253-9123

Re: File Search – 122 Old Mill Lane

Mr. Southwell,

Based on the records of the Mississippi Mills Fire Department and to the best of our knowledge, no foam was utilized during the response to the structure fire at 122 Old Mill Lane on February 2, 2007.

Best regards,

Mike Williams

Mike Williams
Director of Protective Services
Mississippi Mills Fire Department

c.c. Administrative Assistant; Property File

THOMAS CAVANAGH CONSTRUCTION LIMITED

Phone: 613-257-2918
Fax: 613-253-0071

9094 Cavanagh Road
Ashton, Ontario, K0A 1B0

To:	Southwell Homes Ltd.	**Contact:**	John Southwell
Address:	195 Julie Anne Crescent	**Phone:**	(613) 253-9123
	Carleton Place, ON	**Fax:**	
Project Name:	Appleton Shores Subdivision	**Bid Number:**	2024-117
Project Location:	122 Old Mill Lane, Appleton, ON	**Bid Date:**	10/16/2024

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
1	Float Move	2.00	EACH	$632.58	$1,265.16
2	Remove And Haul Contaminated Material To A Licensed Disposal Facility - WM Carp - Includes Equipment, Trucking, Tipping Fee, And Supervision As Required	14,930.00	TONN	$64.73	$966,418.90

Total Bid Price: $967,684.06

Notes:

- Subject to credit approval.
- Quotation valid for 30 days.
- The Harmonized Sales Tax is NOT included in our price, and will be shown as a separate additional amount on all invoices.
- Thomas Cavanagh Construction Limited is a non-union company.
- All works to be completed during 2024 summer conditions. Work completed outside of 2024 summer conditions may be subject to additional fees.
- Quantities are estimated - payment to be based on actual measured quantities completed.
- All fees, permits, approvals, reports, etc. are to be obtained by others.
- Pricing to be adjusted based on changes to the MTO fuel price index. Payment adjustments will be calculated monthly based on the change between the fuel price index for the month prior to tender and the fuel price index when the work is completed as per City of Ottawa S.P. No: F-1002. The following parameters are to be used for the F-1002 calculations: Impact % will be set to 14% and the Fuel Index buffer will become +/- $0.1/l. Fuel Index based on December 2023 - 132.10 cents.
- Please refer to documents ***"Old Mill Lane Stockpile Topo (JAN 18 '24).pdf"*** and **"Old Mill Lane Hauling Breakdown.pdf"** for additional information used to prepare this quote.
- Pricing assumes adequate access to the work area. Allowance for a haul road has not been included in this pricing.
- TCCL shall not be responsible for damages to existing access road or roadway due to truck traffic.
- Pricing assumes all excess material can be accepted at WM Carp. Disposal at GFL Moose Creek, if required, shall be additional.

Payment Terms:

Payment due within 28 days of invoice.

ACCEPTED: The above prices, specifications and conditions are satisfactory and hereby accepted. **Buyer:** _____ **Signature:** _____ **Date of Acceptance:** _____	**CONFIRMED:** **Thomas Cavanagh Construction Limited** **Authorized Signature:** _____ **Estimator:** Brett Barr BBarr@thomascavanagh.ca

Site Photographs

PE1114 116-122 Old Mill Lane, Appleton, Ontario September 29, 2024

Photograph 1: View of the northern sloped portion of the subject property, facing northeast

Photograph 2: View of the northwestern portion of the subject property, facing west towards the tree line.

Site Photographs

PE1114 116-122 Old Mill Lane, Appleton, Ontario September 29, 2024

Photograph 3: View of the central portion of the subject property, facing west towards the former lagoon.

Photograph 4: View of the western portion of the subject property, facing west towards the tree line.

Site Photographs

PE1114 116-122 Old Mill Lane, Appleton, Ontario September 29, 2024

Photograph 5: View of the southwestern portion of the subject property, facing north.

Photograph 6: View of the dense treed land in the southwestern portion of the subject property.

Site Photographs

Photograph 7: View of the dense treed land in the southwestern portion of the subject property.

Photograph 8: View of the dense treed land in the southwestern portion of the subject property.

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Track-Mount Power Auger **DATE** May 5, 2023

FILE NO. PE1114

HOLE NO. BH 1-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)
GROUND SURFACE						0	128.46
Compact, brown **SILTY SAND** with gravel and organics		AU	1				
0.60							
Compact, brown **SILTY SAND** with gravel		SS	2	100	21	1	127.46
1.55		SS	5	80	50+		
		RC	1	100	58	2	126.46
						3	125.46
BEDROCK: Fair to good quality, grey limestone		RC	2	100	52	4	124.46
						5	123.46
		RC	3	100	63	6	122.46
		RC	4	100	85		
7.06						7	121.46
End of Borehole							
(GWL @ 4.35m - May 12, 2023)							

Photo Ionization Detector
● Volatile Organic Rdg. (ppm)

○ **Lower Explosive Limit %**

20 40 60 80

100 200 300 400 500

RKI Eagle Rdg. (ppm)

▲ Full Gas Resp. △ Methane Elim.

Monitoring Well Construction

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Track-Mount Power Auger **DATE** May 5, 2023

FILE NO. PE1114

HOLE NO. BH 2-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)
GROUND SURFACE						0	121.71
TOPSOIL 0.10		AU	1				
FILL: Brown silty sand with gravel and cobbles		SS	2	8	13	1	120.71
		SS	3	0	9	2	119.71
2.59		SS	4	25	10		
Black to grey organic **SILTY CLAY,** trace gravel						3	118.71
3.05		SS	5	33	18		
Compact, brown **SILTY SAND,** trace gravel						4	117.71
		SS	6	42	22		
- grey by 3.7m depth							
		SS	7	43	50+	5	116.71
5.26							
End of Borehole							
Practical refusal to augering at 5.26m depth							
(GWL @ 1.37m - May 12, 2023)							

Photo Ionization Detector
● Volatile Organic Rdg. (ppm)

○ **Lower Explosive Limit %**

20 40 60 80

100 200 300 400 500

RKI Eagle Rdg. (ppm)

▲ Full Gas Resp. △ Methane Elim.

Monitoring Well Construction

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Track-Mount Power Auger **DATE** May 5, 2023

FILE NO. PE1114

HOLE NO. BH 3-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)
GROUND SURFACE						0	122.25
		RC	1	100	0	1	121.25
		RC	2	88	17	2	120.25
BEDROCK: Very poor to poor quality, grey limestone						3	119.25
		RC	3	100	28	4	118.25
		RC	4	100	0	5	117.25
5.16							
End of Borehole							
(GWL @ 2.27m - May 12, 2023)							

Photo Ionization Detector

● Volatile Organic Rdg. (ppm)

○ **Lower Explosive Limit %**

20 40 60 80

100 200 300 400 500

RKI Eagle Rdg. (ppm)

▲ Full Gas Resp. △ Methane Elim.

Monitoring Well Construction

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** April 26, 2023

FILE NO. PE1114

HOLE NO. TP 1-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	% RECOVERY	N VALUE or RQD	DEPTH (m)	ELEV. (m)	Photo Ionization Detector: Volatile Organic Rdg. (ppm) / Lower Explosive Limit %	Monitoring Well Construction
GROUND SURFACE									
TOPSOIL 0.30		G	1			0	128.56		
GLACIAL TILL: Brown silty clay to clayey silt with gravel, cobbles and boulders, trace sand		G	2			1	127.56		
		G	3						
1.55 End of Test Pit									
TP terminated on bedrock surface at 1.55m depth									

Photo Ionization Detector: ● Volatile Organic Rdg. (ppm); ○ Lower Explosive Limit %

20 40 60 80

100 200 300 400 500

RKI Eagle Rdg. (ppm)

▲ Full Gas Resp. △ Methane Elim.

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** April 26, 2023

FILE NO. PE1114

HOLE NO. TP 2-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)	Photo Ionization Detector: Volatile Organic Rdg. (ppm) / Lower Explosive Limit %	Monitoring Well Construction
GROUND SURFACE									
TOPSOIL 0.10		G	1			0	128.55		
FILL: Light brown silty sand, some concrete and organics, trace concrete		G	2						
0.85						1	127.55		
GLACIAL TILL: Dense to very dense, brown silty sand to sandy silt with gravel, cobbles and boulders, some clay		G	3						
1.70									
End of Test Pit									
TP terminated on bedrock surface at 1.70m depth									

Photo Ionization Detector
● Volatile Organic Rdg. (ppm)
○ Lower Explosive Limit %
20 40 60 80
100 200 300 400 500
RKI Eagle Rdg. (ppm)
▲ Full Gas Resp. △ Methane Elim.

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** April 26, 2023

FILE NO. PE1114

HOLE NO. TP 3-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)	Photo Ionization Detector: Volatile Organic Rdg. (ppm) / Lower Explosive Limit %	Monitoring Well Construction
GROUND SURFACE									
TOPSOIL 0.05						0	128.55		
FILL: Concrete (footing) with light brown silty sand, trace topsoil		G	1						
		G	2						
0.90						1	127.55		
GLACIAL TILL: Dense to very dense, brown silty sand to sandy silt with gravel, cobbles and boulders, trace clay		G	3						
1.70									
End of Test Pit									
TP terminated on bedrock surface at 1.70m depth									

Photo Ionization Detector: ● Volatile Organic Rdg. (ppm); ○ Lower Explosive Limit %

20 40 60 80

100 200 300 400 500

RKI Eagle Rdg. (ppm)

▲ Full Gas Resp. △ Methane Elim.

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

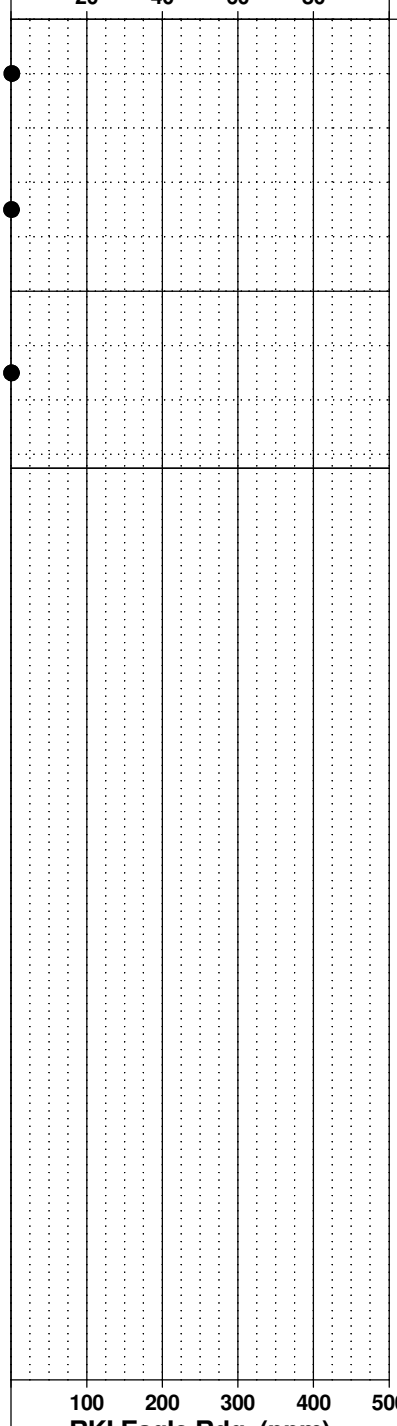
BORINGS BY Excavator **DATE** April 26, 2023

FILE NO. PE1114

HOLE NO. TP 4-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)
GROUND SURFACE						0	128.19
TOPSOIL 0.30		G	1				
GLACIAL TILL: Dense to very dense, brown silty sand to sandy silt with gravel, cobbles and boulders, trace clay		G	2			1	127.19
		G	3				
1.65							
End of Test Pit TP terminated on bedrock surface at 1.65m depth							

Photo Ionization Detector
● Volatile Organic Rdg. (ppm)
○ **Lower Explosive Limit %**



Monitoring Well Construction

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** April 26, 2023

FILE NO. PE1114

HOLE NO. TP 5-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)	Photo Ionization Detector: Volatile Organic Rdg. (ppm) / Lower Explosive Limit %	Monitoring Well Construction
GROUND SURFACE						0	128.54		
TOPSOIL		G	1						
0.35									
FILL: Brown silty clay with gravel, some sand, trace organics		G	2						
0.70						1	127.54		
GLACIAL TILL: Dense to very dense, brown silty sand to sandy silt with gravel, cobbles and boulders, trace clay		G	3						
1.75									
End of Test Pit									
TP terminated on bedrock surface at 1.75m depth									

Photo Ionization Detector: ● Volatile Organic Rdg. (ppm); ○ Lower Explosive Limit %

20 40 60 80

100 200 300 400 500

RKI Eagle Rdg. (ppm)

▲ Full Gas Resp. △ Methane Elim.

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** April 26, 2023

FILE NO. PE1114

HOLE NO. TP 6-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	% RECOVERY	N VALUE or RQD	DEPTH (m)	ELEV. (m)	Photo Ionization Detector: ● Volatile Organic Rdg. (ppm) / ○ Lower Explosive Limit %	Monitoring Well Construction
GROUND SURFACE									
TOPSOIL		G	1			0	126.96		
0.25									
FILL: Dark brown silty sand with gravel, some cobbles and clay, trace brick, concrete, organics and asphalt fragments		G	2						
		G	3						
0.80									
End of Test Pit									
TP terminated on bedrock surface at 0.80m depth									

Photo Ionization Detector: ○ Lower Explosive Limit % — 20 40 60 80

100 200 300 400 500

RKI Eagle Rdg. (ppm)

▲ Full Gas Resp. △ Methane Elim.

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** April 26, 2023

FILE NO. PE1114

HOLE NO. TP 7-23 STOCKPILE

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)	Photo Ionization Detector: ● Volatile Organic Rdg. (ppm) / ○ Lower Explosive Limit %	Monitoring Well Construction
GROUND SURFACE									
TOPSOIL 0.10						0	131.61		
FILL: Brown silty sand with gravel, some topsoil, trace clay, brick, concrete asphalt and fabric		G	1			1	130.61		
		G	2			2	129.61		
		G	3						
		G	4			3	128.61		
3.50									
GLACIAL TILL: Very dense, light brown silty sand to sandy silt with gravel, cobbles and boulders, trace clay and concrete 3.60		G	5						
End of Test Pit									
TP terminated on bedrock surface at 3.60m depth									

Photo Ionization Detector
● Volatile Organic Rdg. (ppm)
○ Lower Explosive Limit %
20 40 60 80
100 200 300 400 500
RKI Eagle Rdg. (ppm)
▲ Full Gas Resp. △ Methane Elim.

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** April 26, 2023

FILE NO. PE1114

HOLE NO. TP 8-23 STOCKPILE

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)	Photo Ionization Detector: Volatile Organic Rdg. (ppm) / Lower Explosive Limit %	Monitoring Well Construction
GROUND SURFACE									
TOPSOIL 0.05						0	131.17		
FILL: Brown silty sand with topsoil, some clay, gravel, organics, trace brick, concrete and asphalt fragments		G	1						
		G	2			1	130.17		
		G	3			2	129.17		
2.95									
GLACIAL TILL: Very dense, light brown silty sand to sandy silt with gravel, cobbles and boulders, trace clay		G	4			3	128.17		
3.40									
End of Test Pit TP terminated on bedrock surface at 3.40m depth									

Photo Ionization Detector: ● Volatile Organic Rdg. (ppm); ○ Lower Explosive Limit %

20 40 60 80

100 200 300 400 500

RKI Eagle Rdg. (ppm)

▲ Full Gas Resp. △ Methane Elim.

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

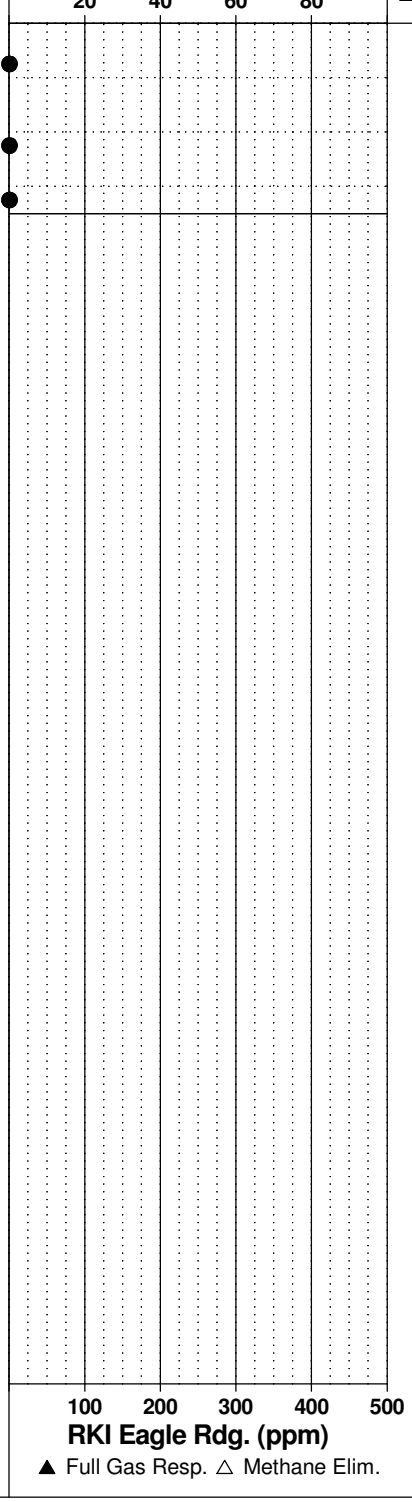
REMARKS

BORINGS BY Excavator **DATE** April 26, 2023

FILE NO. PE1114

HOLE NO. TP 9-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)	Photo Ionization Detector: Volatile Organic Rdg. (ppm) / Lower Explosive Limit %	Monitoring Well Construction
GROUND SURFACE						0	128.02		
TOPSOIL		G	1						
0.35									
FILL: Brown silty sand, some clay, trace organics		G	2						
0.60									
GLACIAL TILL: Dense, light brown silty sand to sandy silt with grave and cobbles, trace clay		G	3						
0.70 End of Test Pit									
TP terminated on bedrock surface at 0.70m depth									



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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

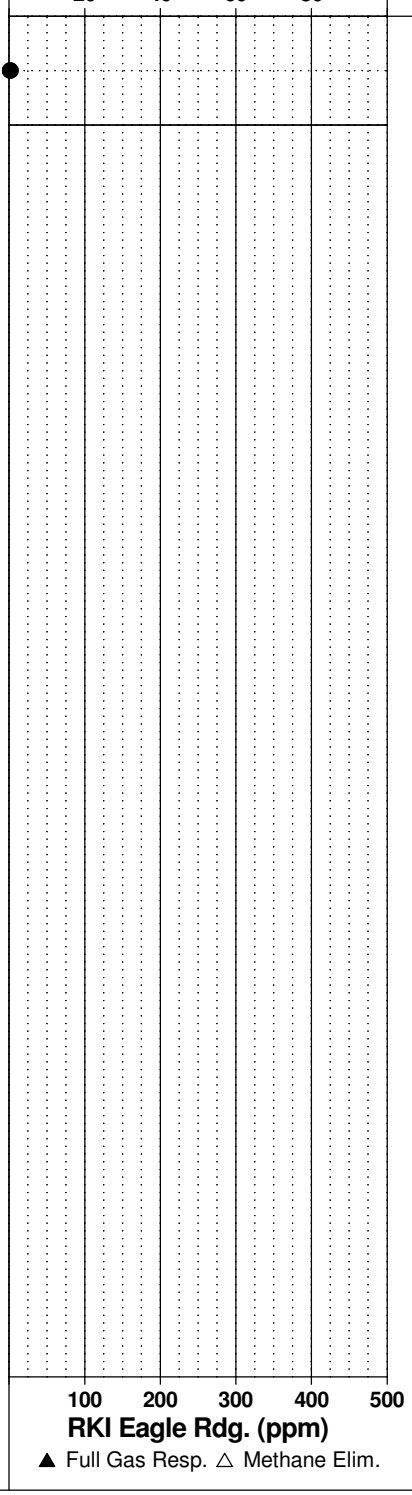
REMARKS

BORINGS BY Excavator **DATE** April 26, 2023

FILE NO. PE1114

HOLE NO. TP10-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)	Photo Ionization Detector: Volatile Organic Rdg. (ppm) / Lower Explosive Limit %	Monitoring Well Construction
GROUND SURFACE						0	127.98		
TOPSOIL 0.05									
FILL: Light brown silty sand with gravel, some organics, trace clay, occasional cobbles, brick and concrete 0.40		G	1						
End of Test Pit									
TP terminated on bedrock surface at 0.40m depth									



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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** April 26, 2023

FILE NO. PE1114

HOLE NO. TP11-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)	Photo Ionization Detector: Volatile Organic Rdg. (ppm) / Lower Explosive Limit %	Monitoring Well Construction
GROUND SURFACE						0	120.61		
FILL: Brown silty sand with topsoil, some cobbles, boulders, trace gravel, plastic		G	1						
		G	2			1	119.61		
1.75									
PEAT		G	3						
1.90									
Loose, light grey **SILTY SAND,** some gravel and clay		G	4			2	118.61		
2.40									
End of Test Pit									

Photo Ionization Detector: ● Volatile Organic Rdg. (ppm); ○ Lower Explosive Limit %

20 40 60 80

100 200 300 400 500

RKI Eagle Rdg. (ppm)

▲ Full Gas Resp. △ Methane Elim.

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** April 26, 2023

FILE NO. PE1114

HOLE NO. TP12-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)
GROUND SURFACE						0	120.32
TOPSOIL 0.05		G	4				
		G	1				
FILL: Brown silty sand with organics, some gravel, cobbles and boulders		G	2			1	119.32
		G	3				
2.00						2	118.32
FILL; Brown silty sand, some gravel, clay and cobbles							
2.80						3	117.32
PEAT		G	5				
		G	6				
3.50							
End of Test Pit							

Photo Ionization Detector
● Volatile Organic Rdg. (ppm)

○ **Lower Explosive Limit %**

20 40 60 80

100 200 300 400 500

RKI Eagle Rdg. (ppm)

▲ Full Gas Resp. △ Methane Elim.

Monitoring Well Construction

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** April 26, 2023

FILE NO. PE1114

HOLE NO. TP13-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)	Photo Ionization Detector: Volatile Organic Rdg. (ppm) / Lower Explosive Limit %	Monitoring Well Construction
GROUND SURFACE									
TOPSOIL 0.05									
FILL: Brown silty sand with topsoil, some gravel, cobbles, boulders, brick and concrete, trace metal		G	1			0	121.68		
		G	2			1	120.68		
1.75									
Stiff, grey **SILTY CLAY,** trace to some gravel		G	3			2	119.68		
2.80		G	4						
End of Test Pit									

Photo Ionization Detector: ● Volatile Organic Rdg. (ppm); ○ Lower Explosive Limit %

20 40 60 80

100 200 300 400 500

RKI Eagle Rdg. (ppm)

▲ Full Gas Resp. △ Methane Elim.

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** April 26, 2023

FILE NO. PE1114

HOLE NO. TP14-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)	Photo Ionization Detector: Volatile Organic Rdg. (ppm) / Lower Explosive Limit %	Monitoring Well Construction
GROUND SURFACE									
TOPSOIL 0.05						0	121.36		
FILL: Brown silty sand, some organics, cobbles and boulders		G	1						
		G	2			1	120.36		
1.55									
FILL: Brown sitly sand with gravel, some topsoil, clay, cobbles and boulders		G	3						
		G	4			2	119.36		
2.30									
PEAT		G	5						
2.70									
End of Test Pit									

Photo Ionization Detector: ○ Lower Explosive Limit % (20, 40, 60, 80)

RKI Eagle Rdg. (ppm) (100, 200, 300, 400, 500)

▲ Full Gas Resp. △ Methane Elim.

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** May 27, 2023

FILE NO. PE1114

HOLE NO. TP15-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)	Photo Ionization Detector: Volatile Organic Rdg. (ppm) / Lower Explosive Limit %	Monitoring Well Construction
GROUND SURFACE						0	128.36		
TOPSOIL 0.30		G	1						
GLACIAL TILL: Dense to very dense, brown silty sand with some silt, gravel, trace clay, occasional cobbles and occasional boulders.		G	2			1	127.36		
1.50		G	3						
End of Test Pit TP terminated on bedrock surface at 1.50m depth									

Photo Ionization Detector: ○ Lower Explosive Limit % — 20 40 60 80

RKI Eagle Rdg. (ppm): 100 200 300 400 500

▲ Full Gas Resp. △ Methane Elim.

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** May 27, 2023

FILE NO. PE1114

HOLE NO. TP16-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)
GROUND SURFACE						0	128.55
TOPSOIL 0.15		G	1				
FILL: Compact brown silty sand with some gravel, trace cobbles, clay and organics		G	2				
0.95		G	3			1	127.55
GLACIAL TILL: Dense to very dense, brown silty sand to sandy silt with gravel, trace cobbles, some clay and occasional boulders		G	4				
1.50							
End of Test Pit							
TP terminated on bedrock surface at 1.50m depth							

Photo Ionization Detector

● Volatile Organic Rdg. (ppm)

○ **Lower Explosive Limit %**

20 40 60 80

100 200 300 400 500

RKI Eagle Rdg. (ppm)

▲ Full Gas Resp. △ Methane Elim.

Monitoring Well Construction

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** May 27, 2023

FILE NO. PE1114

HOLE NO. TP17-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	% RECOVERY	N VALUE or RQD	DEPTH (m)	ELEV. (m)	Photo Ionization Detector: ● Volatile Organic Rdg. (ppm) / ○ Lower Explosive Limit %	Monitoring Well Construction
GROUND SURFACE						0	128.72	20 40 60 80	
TOPSOIL 0.30		G	1						
FILL: Brown silty sand with some gravel, trace clay, cobbles and organics 0.90		G	2						
GLACIAL TILL: Dense to very dense, brown silty sand to sandy silt with gravel, some clay, trace cobbles and occasional boulders 1.55		G	3			1	127.72		
End of Test Pit									
TP terminated on bedrock surface at 1.55m depth.									

100 200 300 400 500

RKI Eagle Rdg. (ppm)

▲ Full Gas Resp. △ Methane Elim.

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** May 27, 2023

FILE NO. PE1114

HOLE NO. TP18-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	% RECOVERY	N VALUE or RQD	DEPTH (m)	ELEV. (m)	Photo Ionization Detector: ● Volatile Organic Rdg. (ppm) / ○ Lower Explosive Limit %	Monitoring Well Construction
GROUND SURFACE									
TOPSOIL		G	1			0	128.75		
0.25									
FILL: Compact brown silty sand with some gravel, trace cobbles, clay and organics		G	2						
0.90						1	127.75		
GLACIAL TILL: Dense to very dense, brown silty sand to sandy silt with gravel, trace cobbles, some clay and occasional boulders		G	3						
1.65									
End of Test Pit									
TP terminated on bedrock surface at 1.65m depth.									

Photo Ionization Detector: ○ Lower Explosive Limit % — 20 40 60 80

100 200 300 400 500

RKI Eagle Rdg. (ppm)

▲ Full Gas Resp. △ Methane Elim.

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** May 27, 2023

FILE NO. PE1114

HOLE NO. TP19-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)	Photo Ionization Detector: Volatile Organic Rdg. (ppm) / Lower Explosive Limit %	Monitoring Well Construction
GROUND SURFACE									
TOPSOIL 0.15		G	1			0	128.50		
Concrete Slab 0.35									
FILL: Brown silty sand with some gravel, trace cobbles, clay and organics 0.80		G	2			1	127.50		
GLACIAL TILL: Dense to very dense, brown silty sand to sandy silt some gravel, trace cobbles and occasional boulders 1.50		G	3						
End of Test Pit									
TP terminated on bedrock surface at 1.50m depth.									

Photo Ionization Detector
● Volatile Organic Rdg. (ppm)
○ Lower Explosive Limit %
20 40 60 80

100 200 300 400 500
RKI Eagle Rdg. (ppm)
▲ Full Gas Resp. △ Methane Elim.

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** May 27, 2023

FILE NO. PE1114

HOLE NO. TP20-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)	Photo Ionization Detector: ● Volatile Organic Rdg. (ppm) / ○ Lower Explosive Limit %	Monitoring Well Construction
GROUND SURFACE						0	128.52	20 40 60 80	
TOPSOIL 0.20		G	1						
FILL: Brown silty sand with some gravel, trace clay, cobbles, trace metals and organics		G	2			1	127.52		
1.30									
GLACIAL TILL: Dense to very dense, brown silty sand to sandy silt with gravel, some clay, trace cobbles and occasional boulders 1.65		G	3						
End of Test Pit									
TP terminated on bedrock surface at 1.65m depth.									

100 200 300 400 500

RKI Eagle Rdg. (ppm)

▲ Full Gas Resp. △ Methane Elim.

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** May 27, 2023

FILE NO. PE1114

HOLE NO. TP21-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)	Photo Ionization Detector: Volatile Organic Rdg. (ppm) / Lower Explosive Limit %	Monitoring Well Construction
GROUND SURFACE									
TOPSOIL		G	1			0	128.38		
0.25									
FILL: Brown silty sand with some gravel, trace cobbles and organics		G	2						
0.80						1	127.38		
GLACIAL TILL: Dense to very dense, brown silty sand to sandy silt with gravel, some cobbles, trace clay, occasional boulders		G	3						
		G	4			2	126.38		
2.20									
End of Test Pit									
TP terminated on bedrock surface at 2.20m depth.									

Photo Ionization Detector: ○ Lower Explosive Limit % — 20 40 60 80

100 200 300 400 500

RKI Eagle Rdg. (ppm)

▲ Full Gas Resp. △ Methane Elim.

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** May 27, 2023

FILE NO. PE1114

HOLE NO. TP22-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)	Photo Ionization Detector: ● Volatile Organic Rdg. (ppm) / ○ Lower Explosive Limit %	Monitoring Well Construction
GROUND SURFACE									
TOPSOIL 0.15		G	1			0	128.59		
FILL: Brown silty sand with some gravel, trace cobbles and organics, occasional brick and clay		G	2						
1.10						1	127.59		
GLACIAL TILL: Dense to very dense, brown silty sand to sandy silt with gravel, trace cobbles and occasional boulders		G	3						
1.80									
End of Test Pit TP terminated on bedrock surface at 1.80m depth.									

Photo Ionization Detector: ○ Lower Explosive Limit % — 20 40 60 80

100 200 300 400 500

RKI Eagle Rdg. (ppm)

▲ Full Gas Resp. △ Methane Elim.

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** May 27, 2023

FILE NO. PE1114

HOLE NO. TP23-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	% RECOVERY	N VALUE or RQD	DEPTH (m)	ELEV. (m)	Photo Ionization Detector: ● Volatile Organic Rdg. (ppm) / ○ Lower Explosive Limit %	Monitoring Well Construction
GROUND SURFACE						0	127.51		
TOPSOIL 0.30		G	1						
FILL: Brown silty sand with some gravel, trace clay, cobbles and organics		G	2						
		G	3			1	126.51		
1.05									
GLACIAL TILL: Dense to very dense, brown silty sand to sandy silt with gravel, trace cobbles, clay and occasional boulders 1.45		G	4						
End of Test Pit									
TP terminated on bedrock surface at 1.45m depth.									

Photo Ionization Detector
● Volatile Organic Rdg. (ppm)
○ Lower Explosive Limit %
20 40 60 80
100 200 300 400 500
RKI Eagle Rdg. (ppm)
▲ Full Gas Resp. △ Methane Elim.

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** May 27, 2023

FILE NO. PE1114

HOLE NO. TP24-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)	Photo Ionization Detector: Volatile Organic Rdg. (ppm) / Lower Explosive Limit %	Monitoring Well Construction
GROUND SURFACE						0	127.09		
TOPSOIL 0.30		G	1						
FILL: Brown silty sand with gravel, cobbles and crushed stone 0.75		G	2						
FILL: Dark brown silty sand with some gravel, trace clay and cobbles 1.05		G	3			1	126.09		
End of Test Pit									
TP terminated on bedrock surface at 1.05m depth.									

Photo Ionization Detector: ● Volatile Organic Rdg. (ppm); ○ Lower Explosive Limit %

20 40 60 80

100 200 300 400 500

RKI Eagle Rdg. (ppm)

▲ Full Gas Resp. △ Methane Elim.

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** May 27, 2023

FILE NO. PE1114

HOLE NO. TP25-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)	Photo Ionization Detector: Volatile Organic Rdg. (ppm) / Lower Explosive Limit %	Monitoring Well Construction
GROUND SURFACE						0	126.88		
TOPSOIL 0.30		G	1						
FILL: Brown silty sand with some gravel, trace cobbles, bricks, topsoil, clay, occasional asphalt		G	2						
0.85		G	3						
End of Test Pit TP terminated on bedrock surface at 0.85m depth.									

Photo Ionization Detector: ● Volatile Organic Rdg. (ppm); ○ Lower Explosive Limit %

20 40 60 80

100 200 300 400 500

RKI Eagle Rdg. (ppm)

▲ Full Gas Resp. △ Methane Elim.

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** May 27, 2023

FILE NO. PE1114

HOLE NO. TP26-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)	Photo Ionization Detector: ● Volatile Organic Rdg. (ppm) / ○ Lower Explosive Limit %	Monitoring Well Construction
GROUND SURFACE									
TOPSOIL									
0.20		G	1			0	126.51		
		G	2						
		G	3			1	125.51		
FILL: Brown silty sand with some gravel, asphalt, topsoil, trace brick, cobbles and occasional boulders		G	4			2	124.51		
		G	5			3	123.51		
3.70		G	6						
End of Test Pit TP terminated on bedrock surface at 3.70m depth.									

Photo Ionization Detector: ○ Lower Explosive Limit % — 20 40 60 80

100 200 300 400 500

RKI Eagle Rdg. (ppm)

▲ Full Gas Resp. △ Methane Elim.

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** May 27, 2023

FILE NO. PE1114

HOLE NO. TP27-23 STOCKPILE

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)
GROUND SURFACE						0	131.35
TOPSOIL 0.20							
		G	1			1	130.35
		G	2				
FILL: Brown silty sand with some topsoil, trace clay, brick, concrete, asphalt and organics						2	129.35
		G	3				
3.00						3	128.35
GLACIAL TILL: Dense to very dense, brown silty sand to sandy silt with gravel, trace cobbles, clay and occasional boulders		G	4				
3.45							
End of Test Pit							
TP terminated on bedrock surface at 3.45m depth.							

Photo Ionization Detector

● Volatile Organic Rdg. (ppm)

○ **Lower Explosive Limit %**

20 40 60 80

100 200 300 400 500

RKI Eagle Rdg. (ppm)

▲ Full Gas Resp. △ Methane Elim.

Monitoring Well Construction

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** May 27, 2023

FILE NO. PE1114

HOLE NO. TP28-23 STOCKPILE

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)	Photo Ionization Detector: Volatile Organic Rdg. (ppm) / Lower Explosive Limit %	Monitoring Well Construction
GROUND SURFACE						0	130.30		
TOPSOIL 0.30									
FILL: Brown silty sand with some gravel, trace clay, cobbles and organics		G	1			1	129.30		
		G	2						
2.10						2	128.30		
GLACIAL TILL: Dense to very dense, brown silty sand to sandy silt with gravel, trace cobbles, clay and occasional boulders 2.30		G	3						
End of Test Pit									
TP terminated on bedrock surface at 2.30m depth.									

Photo Ionization Detector: ○ Lower Explosive Limit % — 20 40 60 80

100 200 300 400 500

RKI Eagle Rdg. (ppm)

▲ Full Gas Resp. △ Methane Elim.

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** May 27, 2023

FILE NO. PE1114

HOLE NO. TP29-23 STOCKPILE

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)	Photo Ionization Detector: Volatile Organic Rdg. (ppm) / Lower Explosive Limit %	Monitoring Well Construction
GROUND SURFACE						0	131.45		
TOPSOIL 0.25		G	1						
		G	2			1	130.45		
FILL: Brown silty sand with some gravel, trace clay, asphalt, brick, concrete and cobbles		G	3			2	129.45		
		G	4			3	128.45		
3.80		G	5						
GLACIAL TILL: Dense to very dense, brown silty sand to sandy silt with some gravel, clay, occasional cobbles 4.00		G	6			4	127.45		
End of Test Pit									
TP terminated on bedrock surface at 4.00m depth.									

Photo Ionization Detector
● Volatile Organic Rdg. (ppm)
○ Lower Explosive Limit %
20 40 60 80
100 200 300 400 500
RKI Eagle Rdg. (ppm)
▲ Full Gas Resp. △ Methane Elim.

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SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment
116-122 Old Mill Lane
Appleton, Ontario

DATUM Geodetic

REMARKS

BORINGS BY Excavator **DATE** May 27, 2023

FILE NO. PE1114

HOLE NO. TP30-23

SOIL DESCRIPTION	STRATA PLOT	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE % RECOVERY	SAMPLE N VALUE or RQD	DEPTH (m)	ELEV. (m)	Photo Ionization Detector: ● Volatile Organic Rdg. (ppm) / ○ Lower Explosive Limit %	Monitoring Well Construction
GROUND SURFACE						0	124.63	20 40 60 80	
TOPSOIL 0.30		G	1						
FILL: Brown silty sand with some topsoil, gravel, trace cobbles and organics 1.10		G	2			1	123.63		
FILL: Dark brown to grey silty clay, trace cobbles, gravel, trace sand 2.70		G	3			2	122.63		
End of Test Pit TP terminated on bedrock surface at 2.70m depth.								100 200 300 400 500 **RKI Eagle Rdg. (ppm)** ▲ Full Gas Resp. △ Methane Elim.	

SOIL PROFILE AND TEST DATA

PHASE II - ENVIRONMENTAL SITE ASSESSMENT

116-122 Old Mill Lane, Appleton, Ontario

DATUM: Geodetic **EASTING:** 333901.103 **NORTHING:** 5004549.547 **ELEVATION:** 120.42

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: December 7, 2023

FILE NO. **PE1114**

HOLE NO. TP 31-23

SAMPLE DESCRIPTION	STRATA PLOT	Sample No.	SAMPLE % RECOVERY	N VALUE or RQD	ANALYTICAL TESTS	DEPTH (m)	PID (ppm) 0 16.67 33.33 50	Gas Tech (ppm) 0 50 100 150 200	Piezometer Construction
Ground Surface EL 120.42 m									
TOPSOIL with organics, trace sand and gravel		G 1				0	0.4		
0.3 m EL 120.12 m									
FILL: Brown silty clay with sand, occasional boulders, trace cobble, gravel and topsoil		G 2					0		
- trace to some debris, bricks, concrete and plastics from 0.9m to 2.0m depth						1			
		G 3					0.2		
		G 4				2	1.5		
- decaying organics with topsoil, some debris and clay by 2.0m depth									
2.65 m EL 117.77 m		G 5					0.9		
PEAT						3			
		G 6					0.1		
3.3 m EL 117.12 m		G 7					0.3		
GLACIAL TILL: Dense, grey silty clay, some sand, silt and gravel, occasional cobble and boulders						4			
3.55 m EL 116.87 m									
End of Test Pit						5			
Practical refusal to augering at 3.55m depth						6			

SOIL PROFILE AND TEST DATA

PHASE II - ENVIRONMENTAL SITE ASSESSMENT

116-122 Old Mill Lane, Appleton, Ontario

DATUM: Geodetic **EASTING:** 333886.236 **NORTHING:** 5004597.347 **ELEVATION:** 121.01

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: December 7, 2023

FILE NO. **PE1114**

HOLE NO. TP 32-23

SAMPLE DESCRIPTION	STRATA PLOT	Sample No.	SAMPLE % RECOVERY	N VALUE or RQD	ANALYTICAL TESTS	DEPTH (m)	PID (ppm) 0 16.67 33.33 50	Gas Tech (ppm) 0 50 100 150 200	Piezometer Construction
Ground Surface EL 121.01 m									
TOPSOIL, some organics, trace gravel, sand and clay		G 1				0	0.5		
0.3 m EL 120.71 m									
FILL: Brown silty clay with sand, some gravel and organics, occasional boulders, trace cobble		G 2				1	0.3		
- grey by 1.4m depth		G 3					0.3		
- decaying organics with topsoil and clay by 2.0m depth		G 4				2	0.2		
2.5 m EL 118.51 m									
Very stiff, grey **SILTY CLAY**		G 5					0.4		
		G 6				3	0.1		
						4			
5.2 m EL 115.81 m		G 7				5	0.1		
End of Test Pit						6			

SOIL PROFILE AND TEST DATA

PHASE II - ENVIRONMENTAL SITE ASSESSMENT

116-122 Old Mill Lane, Appleton, Ontario

DATUM: Geodetic **EASTING:** 333915.399 **NORTHING:** 5004630.515 **ELEVATION:** 121.81

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: December 7, 2023

FILE NO. **PE1114**

HOLE NO. TP 33-23

SAMPLE DESCRIPTION	STRATA PLOT	Sample No.	SAMPLE % RECOVERY	N VALUE or RQD	ANALYTICAL TESTS	DEPTH (m)	PID (ppm) 0 16.67 33.33 50	Gas Tech (ppm) 0 50 100 150 200	Piezometer Construction
Ground Surface EL 121.81 m									
TOPSOIL with organics, some sand and gravel 0.05 m EL 121.76 m		G 1				0	0.2		
FILL: Brown silty sand with gravel, some cobble, occasional clay and topsoil, trace boulders		G 2				1	0.3		
		G 3				2	0.1		
- decaying organics with topsoil and clay by 2.8m depth 3.25 m EL 118.56 m		G 4				3	0.5		
Stiff, grey **SILTY CLAY**		G 5					0.3		
4.2 m EL 117.61 m		G 6				4	0		
End of Test Pit						5			
						6			

SOIL PROFILE AND TEST DATA

PHASE II - ENVIRONMENTAL SITE ASSESSMENT

116-122 Old Mill Lane, Appleton, Ontario

DATUM: Geodetic **EASTING:** 334007.186 **NORTHING:** 5004556.935 **ELEVATION:** 127.93

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: December 7, 2023

FILE NO. **PE1114**

HOLE NO. TP 34-23

SAMPLE DESCRIPTION	STRATA PLOT	Sample No.	SAMPLE % RECOVERY	N VALUE or RQD	ANALYTICAL TESTS	DEPTH (m)	PID (ppm) 0 16.67 33.33 50	Gas Tech (ppm) 0 50 100 150 200	Piezometer Construction
Ground Surface EL 127.93 m									
TOPSOIL with organics on surface, trace sand and gravel 0.35 m EL 127.58 m		G 1				0	0.2		
GLACIAL TILL: Compact to dense, brown silty sand, some silt, occasional organics, trace clay and gravel 0.65 m EL 127.28 m		G 2					0		
End of Test Pit						1			
						2			
						3			
						4			
						5			
						6			

SOIL PROFILE AND TEST DATA

PHASE II - ENVIRONMENTAL SITE ASSESSMENT

116-122 Old Mill Lane, Appleton, Ontario

DATUM: Geodetic **EASTING:** 334022.547 **NORTHING:** 5004569.234 **ELEVATION:** 128.03

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: December 7, 2023

FILE NO. **PE1114**

HOLE NO. TP 35-23

SAMPLE DESCRIPTION	STRATA PLOT	Sample No.	SAMPLE % RECOVERY	N VALUE or RQD	ANALYTICAL TESTS	DEPTH (m)	PID (ppm) 0 16.67 33.33 50	Gas Tech (ppm) 0 50 100 150 200	Piezometer Construction
Ground Surface EL 128.03 m									
TOPSOIL with organics on surface, trace clay and gravel 0.4 m EL 127.63 m		G 1				0	0.3		
GLACIAL TILL: Dense, brown silty sand, some silt and gravel, occasional cobble and boulders, trace clay 0.6 m EL 127.43 m		G 2					0.1		
End of Test Pit						1			
						2			
						3			
						4			
						5			
						6			

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 333900.03 **NORTHING:** 5004636.78 **ELEVATION:** 121.55

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Track-Mounted Drill Rig

REMARKS:

DATE: August 22, 2024

FILE NO. : PE1114

HOLE NO. : BH 4-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	MONITORING WELL CONSTRUCTION	ELEVATION (m)
GROUND SURFACE									
FILL: Brown silty sand, with organics, some gravel and blast rock		0	AU 1						121
0.76m [120.79m]									
FILL: Brown silty clay, some sand, trace gravel and blast rock		1	SS 2	8	3-3-2-2 5	PHC/BTEX/Metals		1.0 m ▼ 2024-08-30	120
		2	SS 3	33	35-24-6-1 30				
2.21m [119.34m]									
Brown to black organic **SILTY CLAY**, trace sand and gravel			SS 4	50	2-0-1-1 1				119
		3	SS 5	50	11-13-5-6 18	PHC/BTEX/Metals			118
- Grey below 3.73 m depth		4	SS 6	100	4-4-3-3 7				117
		5	SS 7	100	2-4-6-7 10				
5.18m [116.37m]									
End of Borehole		6							116
(GWL at 0.98 m depth - August 30, 2024)									115
		7							114
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 333885.70 **NORTHING:** 5004555.27 **ELEVATION:** 120.09

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Track-Mounted Drill Rig

REMARKS:

DATE: August 22, 2024

FILE NO. : PE1114

HOLE NO. : BH 5-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	MONITORING WELL CONSTRUCTION	ELEVATION (m)
GROUND SURFACE		0							120
FILL: Brown silty sand, with organics and clay, trace gravel, blast rock			AU 1						
		1	SS 2	17	1-50-/-/ 50/0.08	PHC/BTEX/Metals/ PAHs			119
1.45m [118.64m]									
Black organic **SILTY CLAY**, with sand, trace gravel		2	SS 3	33	5-6-3-2 9				118
2.29m [117.80m]									
PEAT Drak brown to black oragnic matter			SS 4	42	0-1-1-1 2				
		3	SS 5	50	0-1-2-3 3				117
3.76m [116.33m]									
End of Borehole		4							116
(GWL at 0.85 m depth - August 30, 2024)		5							115
		6							114
		7							113
		8							

0.8 m 2024-08-30

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 334094.10 **NORTHING:** 5004677.87 **ELEVATION:** 127.88

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 22, 2024

FILE NO. : PE1114

HOLE NO. : TP 1-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE							50 100 150 200 / 20 40 60 80		
TOPSOIL 0.20m [127.68m]		0	G 1						127
GLACIAL TILL: Dense, brown silty sand to sandy silt, with gravel, occasional cobbles and boulders		1	G 2						126
1.35m [126.53m]									
End of Test Pit		2							125
		3							124
		4							123
		5							122
		6							121
		7							120
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 334074.80 **NORTHING:** 5004719.71 **ELEVATION:** 128.45

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 22, 2024

FILE NO. : PE1114

HOLE NO. : TP 2-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE		0					50 100 150 200 / 20 40 60 80		128
TOPSOIL 0.10m [128.35m]									
GLACIAL TILL: Dense, brown silty sand to sandy silt, with gravel, occasional cobbles and boulders		1	G 1				▲		127
2.20m [126.25m]		2	G 2			PAHs	▲		126
End of Test Pit		3							125
		4							124
		5							123
		6							122
		7							121
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 334066.34 **NORTHING:** 5004745.22 **ELEVATION:** 127.63

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 22, 2024

FILE NO. : PE1114

HOLE NO. : TP 3-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE							50 100 150 200 / 20 40 60 80		
TOPSOIL 0.20m [127.43m]		0	G 1						127
FILL: Brown silty sand, some clay and gravel, trace asphalt			G 2			PHC/BTEX/Metals/ PAHs			
1.10m [126.53m]		1							126
GLACIAL TILL: Dense, brown silty sand to sandy silt, with gravel, occasional cobbles and boulders			G 3						
2.05m [125.58m]		2	G 4						125
End of Test Pit		3							124
		4							123
		5							122
		6							121
		7							120
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 334047.98 **NORTHING:** 5004749.16 **ELEVATION:** 127.05

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 22, 2024

FILE NO. : PE1114

HOLE NO. : TP 4-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE		0					50 100 150 200 / 20 40 60 80		127
TOPSOIL 0.35m [126.70m]			G 1						
FILL: Brown silty sand, with gravel and crushed stone, some clay, trace asphalt 0.70m [126.35m]			G 2			PHC/BTEX/Metals/ PAHs			
FILL: Dark brown silty sand, with clay and organics 1.05m [126.00m]		1	G 3						126
GLACIAL TILL: Dense, grey silty sand to sandy silt, with gravel, occasional cobbles and boulders 1.35m [125.70m]			G 4						
End of Test Pit		2							125
		3							124
		4							123
		5							122
		6							121
		7							120
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 334023.99 **NORTHING:** 5004753.11 **ELEVATION:** 126.15

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 22, 2024

FILE NO. : PE1114

HOLE NO. : TP 5-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE		0					50 100 150 200 / 20 40 60 80		126
TOPSOIL 0.10m [126.05m]									
FILL: Brown silty sand, some gravel and topsoil, trace brick, concrete, organics, cobbles and wood 1.00m [125.15m]		1	G 1						125
GLACIAL TILL: Dense, grey silty sand to sandy silt, with gravel, occasional cobbles 1.20m [124.95m]			G 3 G 2			PHC/BTEX/Metals/ PAHs			
SANDY SILT 1.40m [124.75m]									
End of Test Pit		2							124
		3							123
		4							122
		5							121
		6							120
		7							119
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 334008.76 **NORTHING:** 5004743.89 **ELEVATION:** 125.22

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 22, 2024

FILE NO. : PE1114

HOLE NO. : TP 6-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE							50 100 150 200 / 20 40 60 80		
TOPSOIL, with gravel and organics 0.15m [125.07m]		0	G 1			PHC/PAHs	▲		125
End of Test Pit		1							124
		2							123
		3							122
		4							121
		5							120
		6							119
		7							118
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 333986.01 **NORTHING:** 5004745.83 **ELEVATION:** 121.18

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 22, 2024

FILE NO. : PE1114

HOLE NO. : TP 7-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE							50 100 150 200 / 20 40 60 80		
TOPSOIL 0.05m [121.13m]		0	G 1				▲		121
FILL: compact gravel and crushed stone, with organics and silty sand, occasional cobbles and boulders		1							120
1.40m [119.78m]			G 2			PHC/BTEX/PAHs	▲		
End of Test Pit		2							119
		3							118
		4							117
		5							116
		6							115
		7							114
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 334005.63 **NORTHING:** 5004727.38 **ELEVATION:** 126.11

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 22, 2024

FILE NO. : PE1114

HOLE NO. : TP 8-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE							50 100 150 200 / 20 40 60 80		
TOPSOIL 0.05m [126.06m]		0	G 1						126
FILL: Brown silty clay, some sand and gravel, trace concrete, occasional brick, asphalt and textiles		1	G 2			PHC/BTEX/Metals/ PAHs			125
3.40m [122.70m]		2	G 3						124
GLACIAL TILL: Grey, silty clay, with sand to sandy silt and gravel, occasional cobbles and boulders		3	G 4						123
4.50m [121.61m]		4							122
End of Test Pit		5							121
		6							120
		7							119
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 334012.04 **NORTHING:** 5004707.00 **ELEVATION:** 127.38

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 22, 2024

FILE NO. : PE1114

HOLE NO. : TP 9-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE							50 100 150 200 / 20 40 60 80		
TOPSOIL		0	G 1				▲		127
0.40m [126.98m]									
GLACIAL TILL: Dense, brown silty sand to sandy silt, with gravel, occasional cobbles and boulders		1	G 2			PHS/BTEX/Metals/ CrVI/PAHs	▲		126
1.50m [125.88m]									
End of Test Pit		2							125
		3							124
		4							123
		5							122
		6							121
		7							120
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 334022.12 **NORTHING:** 5004688.98 **ELEVATION:** 128.33

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 22, 2024

FILE NO. : PE1114

HOLE NO. : TP10-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE							50 100 150 200 / 20 40 60 80		
TOPSOIL 0.15m [128.18m]		0	G 1			PHC/BTEX/Metals/ PAHs	▲		128
FILL: Brown silty sand, with clay, some gravel, trace brick and concrete, occasional cobbles									
0.75m [127.58m]		1	G 2				▲		127
GLACIAL TILL: Brown silty sand to sandy silt, with gravel, occasional cobbles and boulders									
2.35m [125.98m]		2	G 3				▲		126
End of Test Pit		3							125
		4							124
		5							123
		6							122
		7							121
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 334044.84 **NORTHING:** 5004650.54 **ELEVATION:** 128.89

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 22, 2024

FILE NO. : PE1114

HOLE NO. : TP11-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) 50 100 150 200 / PID (ppm) / PID (% LEL) 20 40 60 80	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE		0	G 1						128
TOPSOIL, with gravel 0.15m [128.74m]			G 2						
GLACIAL TILL: Dense, brown silty sand to sandy silt, with gravel, occasional cobbles and boulders		1	G 3						127
1.35m [127.54m]									
End of Test Pit		2							126
		3							125
		4							124
		5							123
		6							122
		7							121
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 334036.71 **NORTHING:** 5004631.93 **ELEVATION:** 128.96

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 22, 2024

FILE NO. : PE1114

HOLE NO. : TP12-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE: TYPE AND NO.	SAMPLE: RECOVERY (%)	SAMPLE: N, Nc OR RQD	SAMPLE: ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) 50 100 150 200 / PID (ppm) / PID (% LEL) 20 40 60 80	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE		0							128
TOPSOIL, with organics 0.25m [128.71m]			G 1						
FILL: Brown silty sand, with clay and gravel, some concrete		1	G 2						
1.25m [127.71m]									
End of Test Pit		2							127
		3							126
		4							125
		5							124
		6							123
		7							122
		8							121

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 334036.71 **NORTHING:** 5004631.93 **ELEVATION:** 128.96

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 22, 2024

FILE NO. : PE1114

HOLE NO. : TP12a-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE		0					50 100 150 200 / 20 40 60 80		128
TOPSOIL, with organics 0.25m [128.71m]									
FILL: Brown silty sand		1	G 3			PHC/BTEX/Metals/ PAHs	▲		127
1.25m [127.71m]									
End of Test Pit		2							126
		3							125
		4							124
		5							123
		6							122
		7							121
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 334017.20 **NORTHING:** 5004657.59 **ELEVATION:** 128.86

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 22, 2024

FILE NO. : PE1114

HOLE NO. : TP13-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) 50 100 150 200 / PID (ppm) / PID (% LEL) 20 40 60 80	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE									
FILL: Topsoil, some gravel, trace glass, asphalt and textiles 0.30m [128.56m]		0	G 1			PHC/BTEX/Metals/ PAHs	▲		128
FILL: Dense, brown silty sand to sandy silt, with clay and gravel, trace glass and textiles, occasional cobbles 1.50m [127.36m]		1	G 2				▲		127
End of Test Pit		2							126
		3							125
		4							124
		5							123
		6							122
		7							121
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 333975.96 **NORTHING:** 5004653.37 **ELEVATION:** 127.51

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 22, 2024

FILE NO. : PE1114

HOLE NO. : TP14-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE							50 100 150 200 / 20 40 60 80		
TOPSOIL, trace organics 0.15m [127.36m]		0	G 1			PHC/BTEX/Metals/ PAHs	▲		127
CONCRETE poured slab over bedrock 0.45m [127.06m]			G 2						
GLACIAL TILL: Dense, brown silty sand to sandy silt, with gravel, occasional cobbles and boulders 0.95m [126.56m]		1							126
End of Test Pit		2							125
		3							124
		4							123
		5							122
		6							121
		7							120
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 333953.21 **NORTHING:** 5004651.63 **ELEVATION:** 124.69

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 22, 2024

FILE NO. : PE1114

HOLE NO. : TP15-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE							50 100 150 200 / 20 40 60 80		
TOPSOIL, trace oganics, occasional cobbles		0	G 1						124
0.20m [124.49m]									
FILL: Silty sand, with clay and gravel, some cobbles, trace boulders		1	G 2						123
		2	G 3						
2.80m [121.89m]			G 4			PHC/BTEX/Metals/ PAHs			122
GLACIAL TILL: Dense, brown silty sand to sandy silt, with gravel, occasional cobbles and boulders		3	G 5						121
3.50m [121.19m]									
End of Test Pit		4							120
		5							119
		6							118
		7							117
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 333937.70 **NORTHING:** 5004679.63 **ELEVATION:** 122.88

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 22, 2024

FILE NO. : PE1114

HOLE NO. : TP16-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE		0					50 100 150 200 / 20 40 60 80		122
TOPSOIL, with organics and clay, ocasional concrete			G 1						
0.30m [122.58m]									
FILL: Brown silty sand, some concrete and cobbles, trace boulders		1	G 2			PHC/BTEX/Metals/ PAHs			121
1.90m [120.98m]									
Stiff to very stiff, brown **SILTY CLAY**		2	G 3						120
			G 4						
2.60m [120.28m]									
End of Test Pit		3							119
		4							118
		5							117
		6							116
		7							115
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 333956.01 **NORTHING:** 5004700.13 **ELEVATION:** 125.20

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 23, 2024

FILE NO. : PE1114

HOLE NO. : TP17-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE		0					50 100 150 200 / 20 40 60 80		125
TOPSOIL, with organics, occasional cobbles									
0.05m [125.15m]									
Compact, brown **SILTY SAND**, with gravel, occasional cobbles			G 1			PHC/BTEX	▲		
0.50m [124.70m]									
End of Test Pit		1							124
		2							123
		3							122
		4							121
		5							120
		6							119
		7							118
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 333957.99 **NORTHING:** 5004690.03 **ELEVATION:** 125.84

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 23, 2024

FILE NO. : PE1114

HOLE NO. : TP18-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE: TYPE AND NO.	SAMPLE: RECOVERY (%)	SAMPLE: N, Nc OR RQD	SAMPLE: ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) 50 100 150 200 / PID (ppm) / PID (% LEL) 20 40 60 80	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE		0							125
<TOPSOIL>>, with organics and gravel (0.05m [125.79m])			G 1						
FILL: Brown silty sand, with gravel, some topsoil, trace organics and cobbles (0.40m [125.44m])		1							124
End of Test Pit		2							123
		3							122
		4							121
		5							120
		6							119
		7							118
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 334101.75 **NORTHING:** 5004646.88 **ELEVATION:** 127.77

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 23, 2024

FILE NO. : PE1114

HOLE NO. : TP19-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE		0					50 100 150 200 / 20 40 60 80		127
TOPSOIL, with organics 0.10m [127.67m]			G 2			PHC/BTEX/Metals/ PAHs			
FILL: Granular/gravel, with crushed stone and silty sand 0.35m [127.42m]			G 1						
FILL: Dark brown silty clay, with sand and topsoil, trace gravel and organics 1.00m [126.77m]		1	G 3						126
GLACIAL TILL: Dense, brown silty sand to sandy silt, with gravel, trace clay, occasional cobbles and boulders			G 4						
		2							125
		3							
		4							124
		5							123
		6							122
		7							121
		8							120

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 334084.29 **NORTHING:** 5004627.36 **ELEVATION:** 128.04

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 23, 2024

FILE NO. : PE1114

HOLE NO. : TP20-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE		0					50 100 150 200 / 20 40 60 80		128
TOPSOIL, with organics and gravel, trace brick 0.20m [127.84m]			G 1						
FILL: Granular/gravel, with crushed stone and silty sand 0.50m [127.54m]			G 2			PHC/BTEX/Metals/ PAHs			
FILL: Dark brown silty clay, with sand, trace gravel, occasional organics and cobbles 1.10m [126.94m]		1	G 3						127
			G 4						
GLACIAL TILL: Dense, brown silty sand to sandy silt, with gravel, trace clay, occasional cobbles, boulders and textiles		2							126
		3							125
		4							124
		5							123
		6							122
		7							121
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 334061.52 **NORTHING:** 5004620.55 **ELEVATION:** 128.62

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 23, 2024

FILE NO. : PE1114

HOLE NO. : TP21-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE		0					50 100 150 200 / 20 40 60 80		128
TOPSOIL, some organics, trace gravel			G 1						
0.30m [128.32m]			G 2						
FILL: Brown silty sand, trace oganics			G 3			PHC/BTEX/Metals/ PAHs			
0.50m [128.12m]		1							127
FILL: Dark brown silty clay , with sand, trace oganics and gravel, some to occasional cobbles and concrete			G 4						
0.90m [127.72m]									
GLACIAL TILL: Dense, brown silty sand to sandy silt, with gravel, occasional cobbles and boulders		2							126
1.40m [127.22m]									
End of Test Pit		3							125
		4							124
		5							123
		6							122
		7							121
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 334056.17 **NORTHING:** 5004602.30 **ELEVATION:** 128.12

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 23, 2024

FILE NO. : PE1114

HOLE NO. : TP22-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE		0					50 100 150 200 / 20 40 60 80		128
TOPSOIL, with organics 0.03m [128.09m]			G 1			PHC/BTEX/Metals/ PAHs	▲		
ASPHALT 0.08m [128.04m]			G 2				▲		
FILL: Granular/gravel, with crushed stone and light brown silty sand 0.35m [127.77m]		1	G 3				▲		127
FILL: Dark brown silty clay, with sand, some gravel and topsoil, trace organics 0.70m [127.42m]									
GLACIAL TILL: Dense, brown silty sand to sandy silt, with gravel, trace clay, occasional cobbles and boulders 0.85m [127.27m]		2							126
End of Test Pit		3							125
		4							124
		5							123
		6							122
		7							121
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 334061.62 **NORTHING:** 5004562.08 **ELEVATION:** 128.01

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 23, 2024

FILE NO. : PE1114

HOLE NO. : TP23-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) 50 100 150 200 / PID (ppm) / PID (% LEL) 20 40 60 80	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE		0	G 1						128
TOPSOIL, with organics, trace clay, occasional gravel			G 2						
0.35m [127.66m]									
GLACIAL TILL: Dense, brown silty sand to sandy silt, with gravel, trace to some clay, occasional cobbles		1							127
0.80m [127.21m]									
End of Test Pit		2							126
		3							125
		4							124
		5							123
		6							122
		7							121
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 334031.79 **NORTHING:** 5004529.84 **ELEVATION:** 127.67

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 23, 2024

FILE NO. : PE1114

HOLE NO. : TP24-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE							50 100 150 200 / 20 40 60 80		
TOPSOIL, with organcis, some clay, trace gravel		0	G 1						127
0.25m [127.42m]			G 2						
GLACIAL TILL: Dense, brown silty sand to sandy silt, with gravel, trace to some clay, occasional cobbles		1							126
0.65m [127.02m]		2							125
End of Test Pit		3							124
		4							123
		5							122
		6							121
		7							120
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 334017.10 **NORTHING:** 5004555.41 **ELEVATION:** 128.00

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 23, 2024

FILE NO. : PE1114

HOLE NO. : TP25-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE							50 100 150 200 / 20 40 60 80		
TOPSOIL, with organics, trace gravel		0	G 1						128
0.25m [127.75m]									
GLACIAL TILL: Dense, brown silty sand to sandy silt, with gravel, trace clay, occasional cobbles			G 2			Metals			
0.90m [127.10m]		1							127
End of Borehole		2							126
		3							125
		4							124
		5							123
		6							122
		7							121
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 333985.70 **NORTHING:** 5004563.42 **ELEVATION:** 126.48

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 23, 2024

FILE NO. : PE1114

HOLE NO. : TP26-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE							50 100 150 200 / 20 40 60 80		
TOPSOIL, with organics, trace gravel, occasional cobbles		0	G 1			PHC/BTEX/Metals/ PAHs	▲		126
0.30m [126.18m]									
End of Test Pit		1							125
		2							124
		3							123
		4							122
		5							121
		6							120
		7							119
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 333966.13 **NORTHING:** 5004556.40 **ELEVATION:** 124.30

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 23, 2024

FILE NO. : PE1114

HOLE NO. : TP27-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE: TYPE AND NO.	SAMPLE: RECOVERY (%)	SAMPLE: N, Nc OR RQD	SAMPLE: ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) 50 100 150 200 / PID (ppm) / PID (% LEL) 20 40 60 80	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE		0							124
TOPSOIL, with gravel and organics 0.20m [124.10m]			G 1						
End of Test Pit		1							123
		2							122
		3							121
		4							120
		5							119
		6							118
		7							117
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 333970.59 **NORTHING:** 5004536.60 **ELEVATION:** 124.24

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 23, 2024

FILE NO. : PE1114

HOLE NO. : TP28-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE: TYPE AND NO.	SAMPLE: RECOVERY (%)	SAMPLE: N, Nc OR RQD	SAMPLE: ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) 50 100 150 200 / PID (ppm) / PID (% LEL) 20 40 60 80	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE		0							124
TOPSOIL, with gravel, some sand and weathered bedrock 0.20m [124.04m]			G 1				▲		
End of Test Pit		1							123
		2							122
		3							121
		4							120
		5							119
		6							118
		7							117
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 333993.45 **NORTHING:** 5004528.94 **ELEVATION:** 126.07

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 23, 2024

FILE NO. : PE1114

HOLE NO. : TP29-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE		0					50 100 150 200 / 20 40 60 80		126
TOPSOIL, some organics, trace gravel and clay			G 1						
0.35m [125.72m]			G 2			PHC/BTEX/Metals/ PAHs			
GLACIAL TILL: dense, brown silty sand to sandy silt, with gravel, occasional cobbles, trace clay and organics		1							125
0.65m [125.42m]									
End of Test Pit		2							124
		3							123
		4							122
		5							121
		6							120
		7							119
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 333988.02 **NORTHING:** 5004507.69 **ELEVATION:** 124.95

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 23, 2024

FILE NO. : PE1114

HOLE NO. : TP30-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) 50 100 150 200 / PID (ppm) / PID (% LEL) 20 40 60 80	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE		0	G 1						124
TOPSOIL with organics, trace gravel, occasional cobbles 0.10m [124.85m]		1	G 2						123
Dense, brown <<SILTY SAND, with weathered bedrock, some topsoil and gravel 0.75m [124.20m]		2							122
End of Test Pit		3							121
		4							120
		5							119
		6							118
		7							117
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 333953.20 **NORTHING:** 5004501.70 **ELEVATION:** 122.96

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 23, 2024

FILE NO. : PE1114

HOLE NO. : TP31-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE: TYPE AND NO.	SAMPLE: RECOVERY (%)	SAMPLE: N, Nc OR RQD	SAMPLE: ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) 50 100 150 200 / PID (ppm) / PID (% LEL) 20 40 60 80	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE		0							122
TOPSOIL, with silty sand and weathered bedrock, trace gravel and clay 0.20m [122.76m]			G 1				▲		
End of Test Pit		1							121
		2							120
		3							119
		4							118
		5							117
		6							116
		7							115
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 333931.42 **NORTHING:** 5004541.50 **ELEVATION:** 121.84

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 23, 2024

FILE NO. : PE1114

HOLE NO. : TP32-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE		0							121
FILL: Brown silty clay, with organics and topsoil, trace gravel, occasional cobbles			G 1						
0.30m [121.54m]									
FILL: Dark brown silty clay, with topsoil and sand, some gravel, trace asphalt, brick, concrete and organics		1	G 2			PHC/BTEX/Metals/ PAHs			120
- Trace textiles									
- Cobbles and boulders with depth		2	G 3						119
2.60m [119.24m]									
Dark brown/black **PEAT**, with organics		3	G 4						118
3.50m [118.34m]									
End of Test Pit		4							117
		5							116
		6							115
		7							114
		8							

GASTECH (ppm) / GASTECH (% LEL): 50 100 150 200

PID (ppm) / PID (% LEL): 20 40 60 80

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 333943.66 **NORTHING:** 5004568.71 **ELEVATION:** 123.12

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 23, 2024

FILE NO. : PE1114

HOLE NO. : TP33-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE		0							123
FILL: Brown silty sand with gravel, some cobbles, trace topsoil, occasional boulders			G 1						
0.50m [122.62m]									
FILL: Dark brown silty sand, with gravel, some cobbles, trace asphalt and concrete, occasional boulders		1	G 2						122
			G 3						
2.20m [120.92m]		2							121
FILL: Brown silty clay with sand, some gravel, cobbles, boulders, concrete aand cloth/textiles, trace glass and metals									
		3	G 4			PHC/BTEX/Metals/ PAHs			120
3.30m [119.82m]									
End of Test Pit		4							119
Terminated on bedrock surface		5							118
		6							117
		7							116
		8							

GASTECH (ppm) / GASTECH (% LEL): 50 100 150 200

PID (ppm) / PID (% LEL): 20 40 60 80

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 333947.18 **NORTHING:** 5004607.58 **ELEVATION:** 123.55

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

REMARKS:

DATE: August 23, 2024

FILE NO. : PE1114

HOLE NO. : TP34-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) / PID (ppm) / PID (% LEL)	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE							50 100 150 200 / 20 40 60 80		
TOPSOIL, with organics, some gravel		0	G 1						123
0.25m [123.30m]									
GLACIAL TILL: Dense, brown silty sand, with gravel, trace clay, occasional cobbles and boulders		1	G 2			PHC.BTEX/Metals/ PAHs			122
1.30m [122.25m]									
End of Test Pit		2							121
		3							120
		4							119
		5							118
		6							117
		7							116
		8							

SOIL PROFILE AND TEST DATA

Phase II - Environmental Site Assessment

116-122 Old Mill Lane, Appleton, Ontario

COORD. SYS.: MTM ZONE 9 **EASTING:** 333971.90 **NORTHING:** 5004600.79 **ELEVATION:** 126.78

PROJECT: Phase II - Environmental Site Assessment

BORINGS BY: Excavator

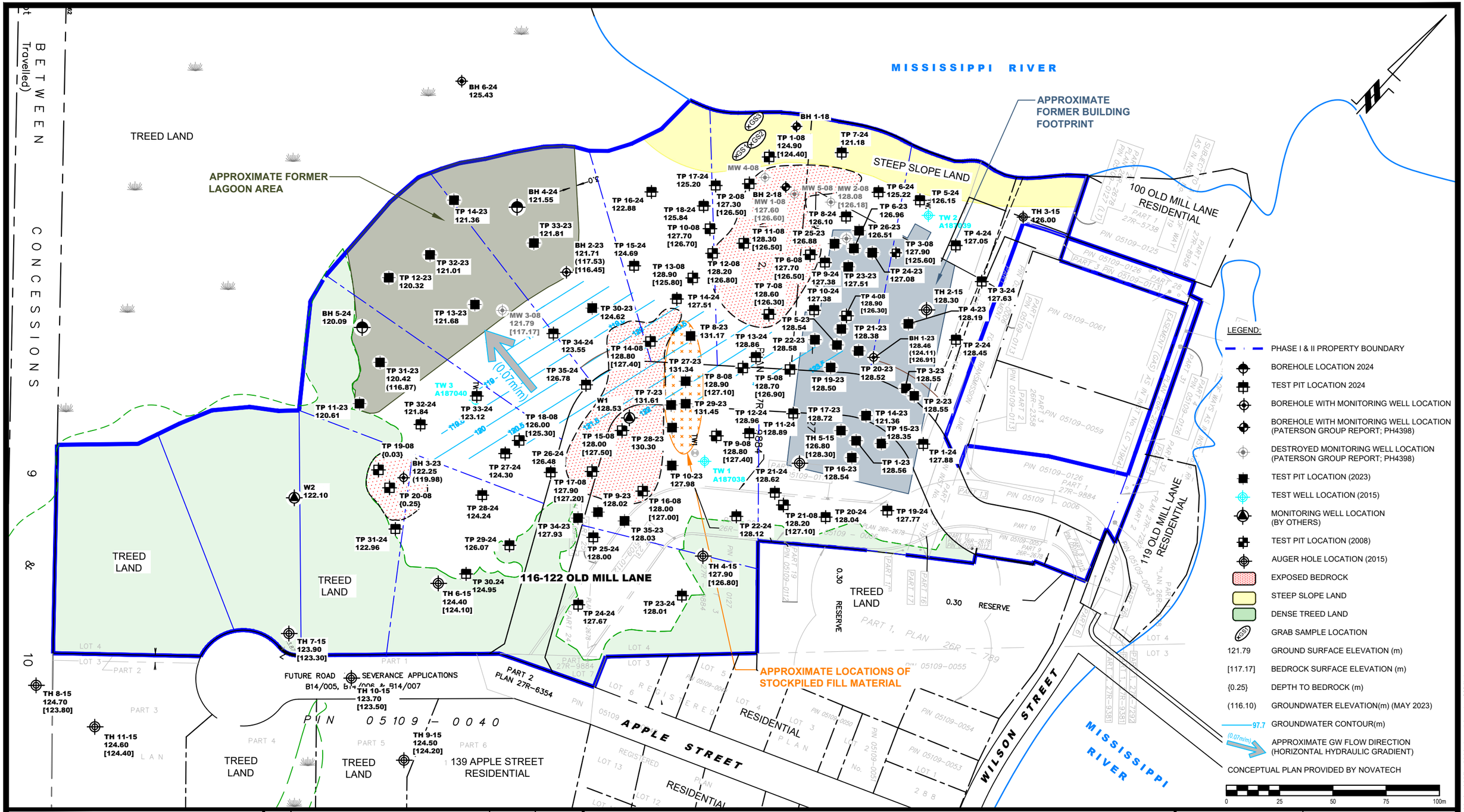
REMARKS:

DATE: August 23, 2024

FILE NO. : PE1114

HOLE NO. : TP35-24

SAMPLE DESCRIPTION	STRATA PLOT	DEPTH (m)	SAMPLE TYPE AND NO.	SAMPLE RECOVERY (%)	SAMPLE N, Nc OR RQD	SAMPLE ANALYTICAL TESTS	GASTECH (ppm) / GASTECH (% LEL) 50 100 150 200 / PID (ppm) / PID (% LEL) 20 40 60 80	PIEZOMETER CONSTRUCTION	ELEVATION (m)
GROUND SURFACE		0							126
GLACIAL TILL: Dense, brown silty sand to sandy silt, with gravel, occasional cobbles and boulders			G 1						
0.45m [126.33m]									
End of Test Pit		1							125
		2							124
		3							123
		4							122
		5							121
		6							120
		7							119
		8							



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9 AURIGA DRIVE
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NO.	REVISIONS	DATE	INITIAL

SOUTHWELL HOMES LTD.

PHASE II - ENVIRONMENTAL SITE ASSESSMENT
116-122 OLD MILL LANE

APPLETON, ONTARIO

Title:

TEST HOLE LOCATION PLAN

Scale: 1:1500	Date: 09/2023
Drawn by: GK	Report No.: PE1114-3
Checked by: SB	Dwg. No.: PE1114-8
Approved by: MSD	Revision No.:

11x17

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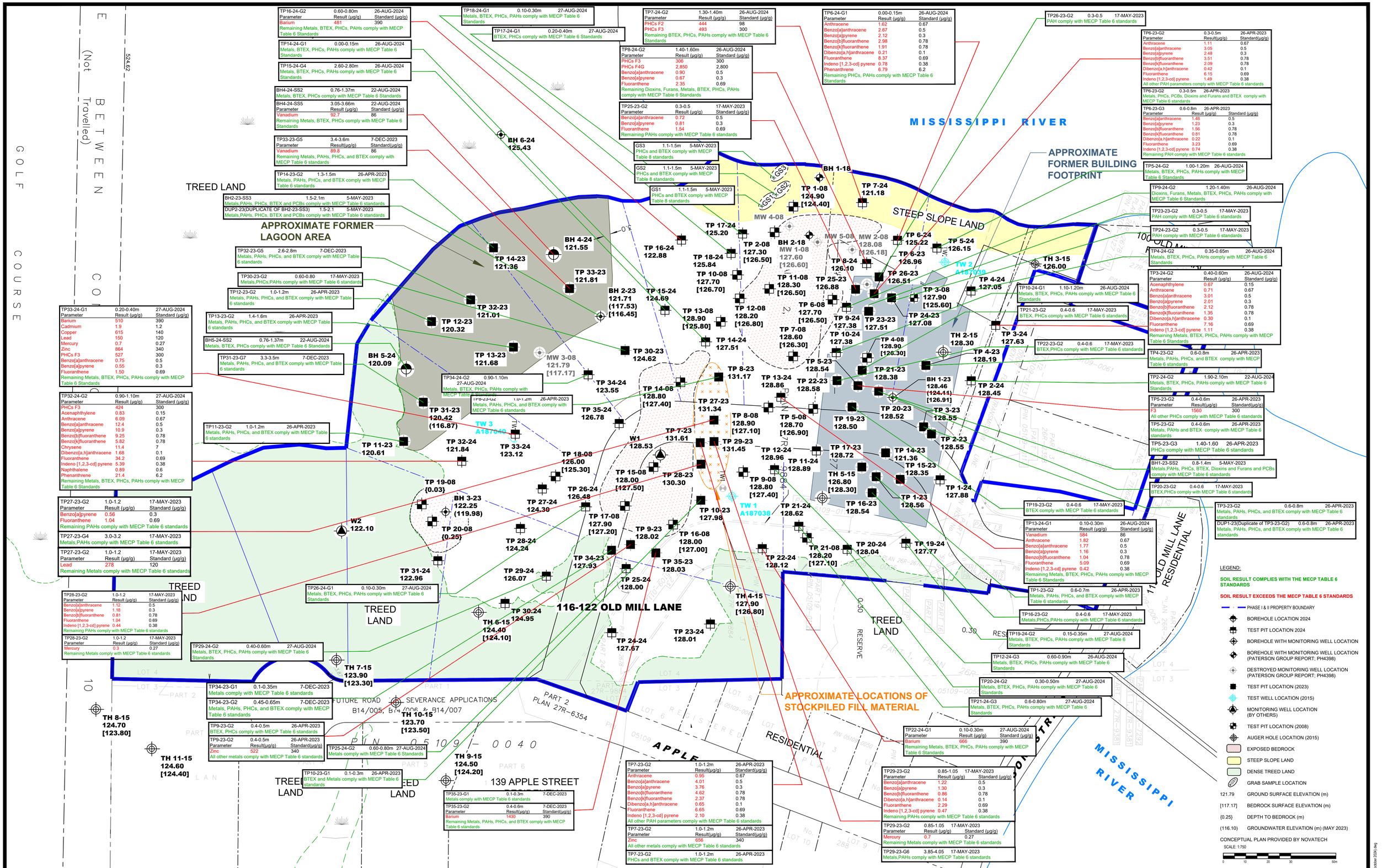

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NO.	REVISIONS	DATE	INITIAL

SOUTHWELL HOMES LTD.

PHASE II - ENVIRONMENTAL SITE ASSESSMENT
116-122 OLD MILL LANE
APPLETON, ONTARIO

Title:

ANALYTICAL TESTING PLAN (SOIL)

Scale:	1:750
Drawn by:	GK
Checked by:	NS
Approved by:	MSD
Date:	10/2024
Report No.:	PE1114-3
Drawing No.:	PE1114-9
Revision No.:	

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9 AURIGA DRIVE OTTAWA, ON K2E 7S9 TEL: (613) 226-7381

NO.	REVISIONS	DATE	INITIAL

SOUTHWELL HOMES LTD.

PHASE II - ENVIRONMENTAL SITE ASSESSMENT
116-122 OLD MILL LANE
APPLETON, ONTARIO

Title: ANALYTICAL TESTING PLAN (GROUNDWATER)

Scale: 1:750
Drawn by: GK
Checked by: NS
Approved by: MSD
Date: 10/2024
Report No.: PE1114-3
Drawing No.: PE1114-10
Revision No.:

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