



22 August 2019

Reference No. G030235 04

Mason Homes Limited
70 Innovator Avenue, Unit #1
Stouffville, Ontario
L4A 0Y2

Dear Ashley Mason

**Re: Update and Review of Phase 1 ESA's In Support of
Mason Penryn Ph 4, 5 and 9, Municipality of Port Hope, Ontario**

1. Introduction

Mason Homes is currently proposing development of lands located south of Ridout St. and west of Victoria Street South referenced above as Mason Penryn Phase 4, 5 and 9 Subdivision. The Penryn development was originally proposed by AON and the environmental due diligence was carried out by Site Investigation Services Division of Jagger Hims Limited entitled "Environmental Site Assessment, Penryn Property, Port Hope, Ontario" and a second report entitled "Environmental Assessment for the Redner Farm Property in Port Hope, Ontario" dated June 2005. This ESA was carried out on the Port Hope Golf Course lands and the Redner Farm located at Part Lots 9 and 10, Concession 1 and Broken Front, Municipality of Port Hope. The conclusion of both reports was: "The ESA did not find evidence of, or potential for, significant subsurface environmental impacts at the site."... "Based on our findings, no further assessments or Phase II environmental testing are necessary at this time." It is proposed to utilize these ESA's coupled with sampling conducted on site to verify that the Mason Penryn Ph 4, 5 and 9 areas remain in a low risk condition from an environmental perspective. Each of the ESA's are appended to this letter-report.

2. Field Methodology and Analytical Testing

The aerial photographs of the site area including the Redner and Skora farm areas and the Golf course lands, were updated by examining the aerial views of the area from 2015 Google Earth and a site walkover was conducted. The 2015 view is appended. Based on the ESAs and aerial photography, it was confirmed that the site land use for the Redner Farm is now vacant land. A portion of the existing Golf Course was relocated further south and the remaining land is currently being serviced. The site walkover was conducted to identify any new environmental risks or signs of environmental impact in the form of sheens on standing water, dying vegetation, etc.

Prior to the servicing being carried out in Phase 4, the topsoil was stripped and stockpiled in Phase 5. A sample was taken from the stockpile and processed for chemical testing and the result was used as confirmation to the status of the site as well as a soil characterization for possible export off site. A total of one (1) test excavation into the stockpile was carried out.

The one (1) sample was obtained from a 0.8 m depth and subjected to vapour screening for potential hydrocarbons using a RK Eagle II portable multi-gas meter. The sample recorded negligible vapour



readings during the screening process. The sample after being collected, was stored on ice and delivered under Chain of Custody to SGS Canada Inc. in Lakefield, Ontario for chemical analysis of O.Reg 153 parameters of Petroleum Hydrocarbons (PHCs) fractions F1 to F4, Volatile Organic Compounds (VOCs), and Metals and Inorganics including electrical conductivity (EC), sodium absorption ration (SAR) and pH.

3. Results of Analytical Testing

The results of the chemical analyses are presented on in the following sections, and are compared to MOECC Table 1 Full Depth Background Site Condition Standards (“Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act”, April 15, 2011), for Residential / Parkland / Institutional / Industrial / Commercial / Community (RPIICC) Property Uses – and Table 2 Residential, Parkland and Institutional (RPI) landuse for coarse textured soils. .

Table A: Summary of Analytical Results Compared to Table 1 and 2

Parameter	MECP		
	Table 2 RPI	Table 1 All	TP-01 GS-01
Barium	390	220	31
Beryllium	4	2.5	0.33
Boron	120	36	2
Cadmium	1.2	1.2	0.07
Chromium	160	70	11
Cobalt	22	21	3.1
Copper	140	92	3.4
Lead	45	120	4.1
Molybdenum	6.9	2	0.1
Nickel	100	82	6.1
Silver	20	0.5	< 0.05
Thallium	1	1	0.05
Uranium	23	2.5	0.47
Vanadium	86	86	21
Zinc	340	290	28
Antimony	7.5	1.3	0.8
Arsenic	11	18	1.3
Selenium	2.4	1.5	< 0.7
Mercury	0.25	0.27	<0.05
Water Soluble Boron	1.5	1.5	< 0.5
Sodium Adsorption Ratio	5	2.4	<0.2
Conductivity	0.7	0.57	0.09
pH	---	---	6.77
Chromium VI	8	8	0.5
Free Cyanide	0.66	0.66	< 0.05
Acetone	16	0.5	< 0.5
Bromomethane	0.05	0.05	< 0.05
Carbon tetrachloride	0.05	0.05	< 0.05
Chlorobenzene	2.4	0.05	< 0.05
Chloroform	0.05	0.05	< 0.05
1,2-Dichlorobenzene	1.2	0.05	< 0.05
1,3-Dichlorobenzene	4.8	0.05	< 0.05
1,4-Dichlorobenzene	0.083	0.05	< 0.05
Dichlorodifluoromethane	16	0.05	< 0.05
1,1-Dichloroethane	0.47	0.05	< 0.05
1,2-Dichloroethane	0.05	0.05	< 0.05
1,1-Dichloroethylene	0.05	0.05	< 0.05
trans-1,2-Dichloroethylene	0.084	0.05	< 0.05



cis-1,2-Dichloroethylene	1.9	0.05	< 0.05
1,2-Dichloropropane	0.05	0.05	< 0.05
1,3-dichloropropene (total)	0.05	0.05	< 0.05
Ethylene dibromide	0.05	0.05	< 0.05
n-Hexane	2.8	0.05	< 0.05
Methyl ethyl ketone	16	0.5	< 0.5
Methyl isobutyl ketone	1.7	0.5	< 0.5
Methyl-t-butyl Ether	0.75	0.05	< 0.05
Methylene Chloride	0.1	0.05	< 0.05
Styrene	0.7	0.05	< 0.05
Tetrachloroethylene	0.28	0.05	< 0.05
1,1,1,2-Tetrachloroethane	0.058	0.05	< 0.05
1,1,2,2-Tetrachloroethane	0.05	0.05	< 0.05
1,1,1-Trichloroethane	0.38	0.05	< 0.05
1,1,2-Trichloroethane	0.05	0.05	< 0.05
Trichloroethylene	0.061	0.05	< 0.05
Trichlorofluoromethane	4	0.05	< 0.05
Vinyl Chloride	0.02	0.02	< 0.02
Benzene	0.21	0.02	< 0.02
Ethylbenzene	1.1	0.05	< 0.05
Toluene	2.3	0.2	< 0.05
Xylene (total)	3.1	0.05	< 0.05
Bromodichloromethane	1.5	0.05	< 0.05
Bromoform	0.27	0.05	< 0.05
Dibromochloromethane	2.3	0.05	< 0.05
F1 (C6-C10)	55	25	< 10
F1-BTEX (C6-C10)	55	25	< 10
F2 (C10-C16)	98	10	< 10
F3 (C16-C34)	300	240	< 50
F4 (C34-C50)	2800	120	< 50

Notes:

Concentrations in µg/g unless otherwise noted; (<) indicates less than laboratory detection limited. Soil Standards for RPI and ICC Property Use under Part XV.1 of the Environmental Protection Act, April 15, 2011. **Bold** exceeds Table 1 standards for all, **Highlighted and Bold** exceeds Table 2 RPI Standards.

4. Conclusions

The soil parameter concentrations in the sample taken is consistent with the expected values given the historic landuse and are appropriate for the intended future use. The site walkover found no new landuses which would increase the risk from an environmental perspective, and no signs of chemical impact on the existing vegetation or soil.

It is concluded that the environmental risk on the Mason Penryn Ph 4, 5 and 9 has remained unchanged from a landuse perspective since what was reported in the ESA's in 2005.



We trust that this letter meets with your immediate requirements. Should you have any questions or concerns regarding any aspect of this report or should you require any further assistance, please do not hesitate to contact our office.

Sincerely,

GHD

A handwritten signature in blue ink, appearing to read 'A. Fawcett', written in a cursive style.

Andy Fawcett, P.Eng.

Enclosures: Previous ESA's
Chemical Results Soil Sample



Enclosures

PHASE 1

PHASE 2 DEVELOPMENT

PHASE 5

STRACHAN ST.

PHASE 4

PHASE 5

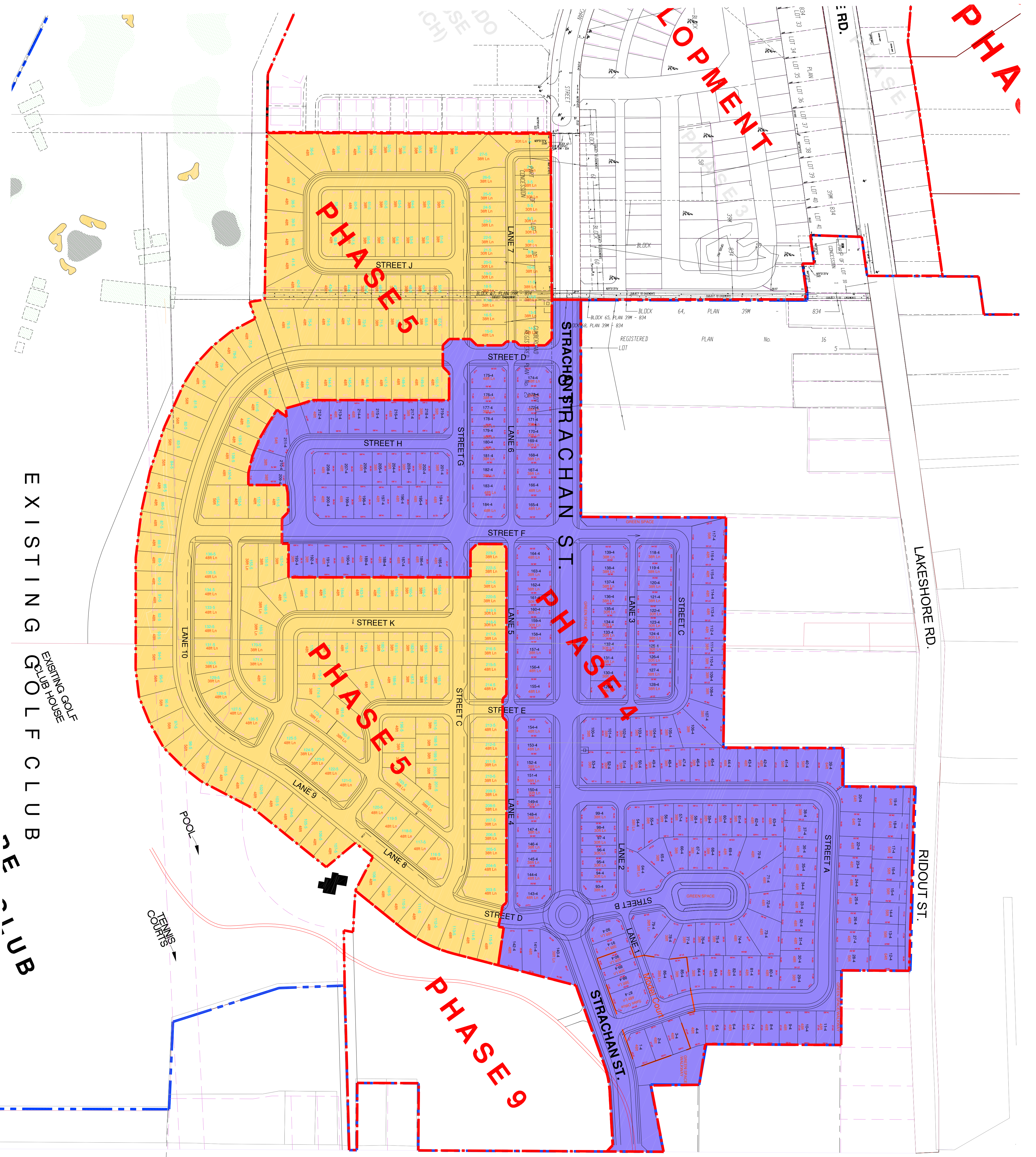
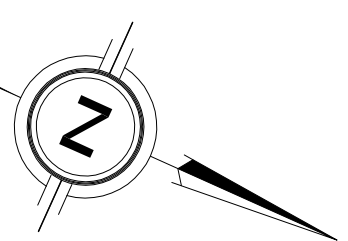
PHASE 9

LAKE SHORE RD.

RIDOUT ST.

VICTORIA ST. S.

TO HISTORICAL DOWNTOWN PORT HOPE



EXISTING GOLF CLUB HOUSE
EXISTING CLUB



THE MUNICIPALITY OF PORT HOPE

PORT HOPE PHASE 4 & 5

CONCEPT SITE PLAN

SCALE:	1:1500	PROJECT NO.:	SP1
DRAWN BY:	A.V.	CHECKED BY:	A.C.
DESIGNED BY:		DRAWING NO.:	
DATE:	NOV 2016		

NO.	ISSUED	DATE	BY
1			

Appendix A

Previous ESA's

June 17, 2005

815 High Street, Unit 9
Peterborough, Ontario
Canada, K9J 8J9
Tel 705 743-6850
866 818-8366
Fax 705 743-6854

AON Inc.
307 Aylmer St. N
Peterborough, Ontario
K9J 7M4

Attention: Mr. Ross Smith

Dear Mr. Smith:

Re: Environmental Assessment for the Redner Farm
Property in Port Hope, Ontario
Our File: 3050403.00

As per your request, we have completed environmental assessments of the Redner Farm property located in part of Lot 10, Concession 1 in the Municipality of Port Hope (Hope Township) to determine if there are any environmental risk factors associated with current and historic uses of the site and abutting land areas. The approximate location of the property is shown on the attached Figures 1 and 2 and on the appended copies of 1954 and 1978 aerial photographs.

The following assessments were completed.

ASSESSMENT WORK ITEM	FINDINGS AND CONCLUSIONS
Review of aerial photographs from 1954, 1971 and 1978	All three photographs show the site to be in agricultural use without any buildings. Lands to the north, south and west were also in agricultural use and land to the east was a golf course that has existed for many years. No environmental issues are evident. Copies of the 1954 and 1978 aerial photographs are attached.





ASSESSMENT WORK ITEM	FINDINGS AND CONCLUSIONS
Interviews	<p>Ross Smith of AON Inc. has enquired about site and site area uses and is not aware of any environmental risk factors.</p> <p>John Ferguson, the previous owner of the large farm to the west (Ferguson Farm lands shown on Figures 1 and 2), indicated that he was not aware of any environmental concerns such as spills on properties near his farm.</p>
Review of Phase I ESA reports for nearby properties	<p>Site Investigation Services, Division of Jagger Hims Limited has completed a full Phase I assessment for the Ferguson Farm Properties to the west of the site and is in the process of writing a Phase I report for the Penryn property lands (shown on Figures 1 and 2) to the east and south of the site.</p> <p>No significant risk factors were identified in assessments for both properties which have a history of agricultural and recreational (golf course) usage.</p>
Site Inspection	<p>We inspected the site and adjacent areas on June 7, 2005. Part of the site was being graded for a proposed residential subdivision. No environmental issues or conditions were observed. There was no evidence of buried or above ground tanks. No fill was observed. If fill is found during site grading, it should be checked for radioactivity by the Low Level Waste Branch of the Atomic Energy Commission.</p>
Ministry of the Environment (MOE) information	<p>No response to an MOE Freedom of Information request was received prior to report finalization. If MOE records are obtained that are environmentally significant in terms of this ESA, an addendum will be forwarded to the client.</p> <p>The Waste Disposal Site Inventory (MOE, 1991) does not list any active or closed waste disposal facilities within 1 km of the site.</p> <p>The Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario (MOE 1988 & 1997) lists 70 to 80 John Street as an historic coal gasification site that is located within 1 km of the site. However, the coal tar site is more than 30 m lower in grade than most of the site area and the potential for cross contamination is negligible.</p> <p>The Ontario Inventory of PCB Storage Sites (MOE, 1998) does not list any PCB storage sites within 1 km of the subject site.</p>

We believe that the assessments completed are more than sufficient to confirm the very low risk environmental status of the site and it is considered highly unlikely that contaminants in excess of Table A generic acceptability criteria in Appendix 2 of the Guideline for Use at Contaminated Sites in Ontario (MOE 1997) exist in subsoils in groundwater below the site. Consequently no further Phase I assessments or Phase II assessments are recommended at this time.



QUALIFIER

During the records review for this Phase 1 ESA, Site Investigation Services (Division of Jagger Hims Limited) has relied on information obtained from municipal, provincial, and independent sources as referenced in this report, and on interviews. Verification of the accuracy or completeness of third party information was not undertaken.

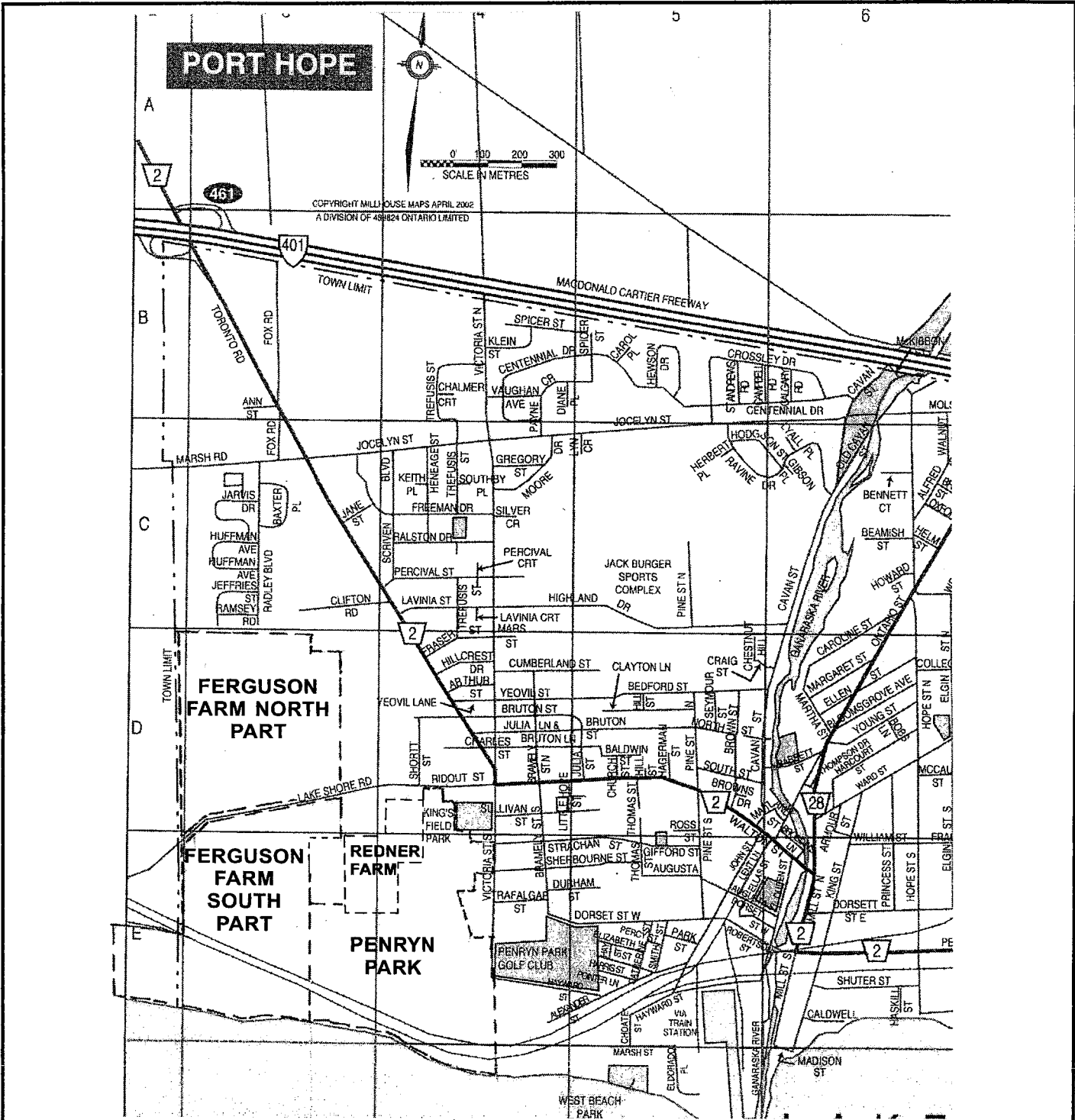
Site conditions, environmental or otherwise, are not static and it should be appreciated that this report documents observed conditions at the time of the site inspections. Conclusions provided in this report reflect our best judgment based on information available at the time of preparation. While there was no evidence to suggest that significant contaminant impacts exist on the site, this assessment is not a guarantee that such impacts do not exist in unobserved areas.

This Phase 1 ESA report is prepared for the AON Inc. for its use, or the use of its assignees, in the evaluation of the subject Redner Farm property, located in Part of Lot 10, Concession 1, in the Municipality of Port Hope (Hope Township), for the purposes of obtaining financing from a commercial lending institution for redevelopment of the property. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibility of such third parties. Site Investigation Services accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

Yours truly,
SITE INVESTIGATION SERVICES
(Division of Jagger Hims Limited)

A handwritten signature in black ink, appearing to read "R. Marttila".

Robert E. Marttila, B.Sc., M.A.Sc., P. Eng.,
Consulting Engineer



PORT HOPE



0 100 200 300
SCALE IN METRES

COPYRIGHT MILL HOUSE MAPS APRIL 2002
A DIVISION OF 481924 ONTARIO LIMITED

LEGEND

SITE LOCATION PLAN

Environmental Site Assessment
Redner Lands
Port Hope, Ontario
For: AON Inc.

DATE: JUNE, 2005

SCALE: AS SHOWN

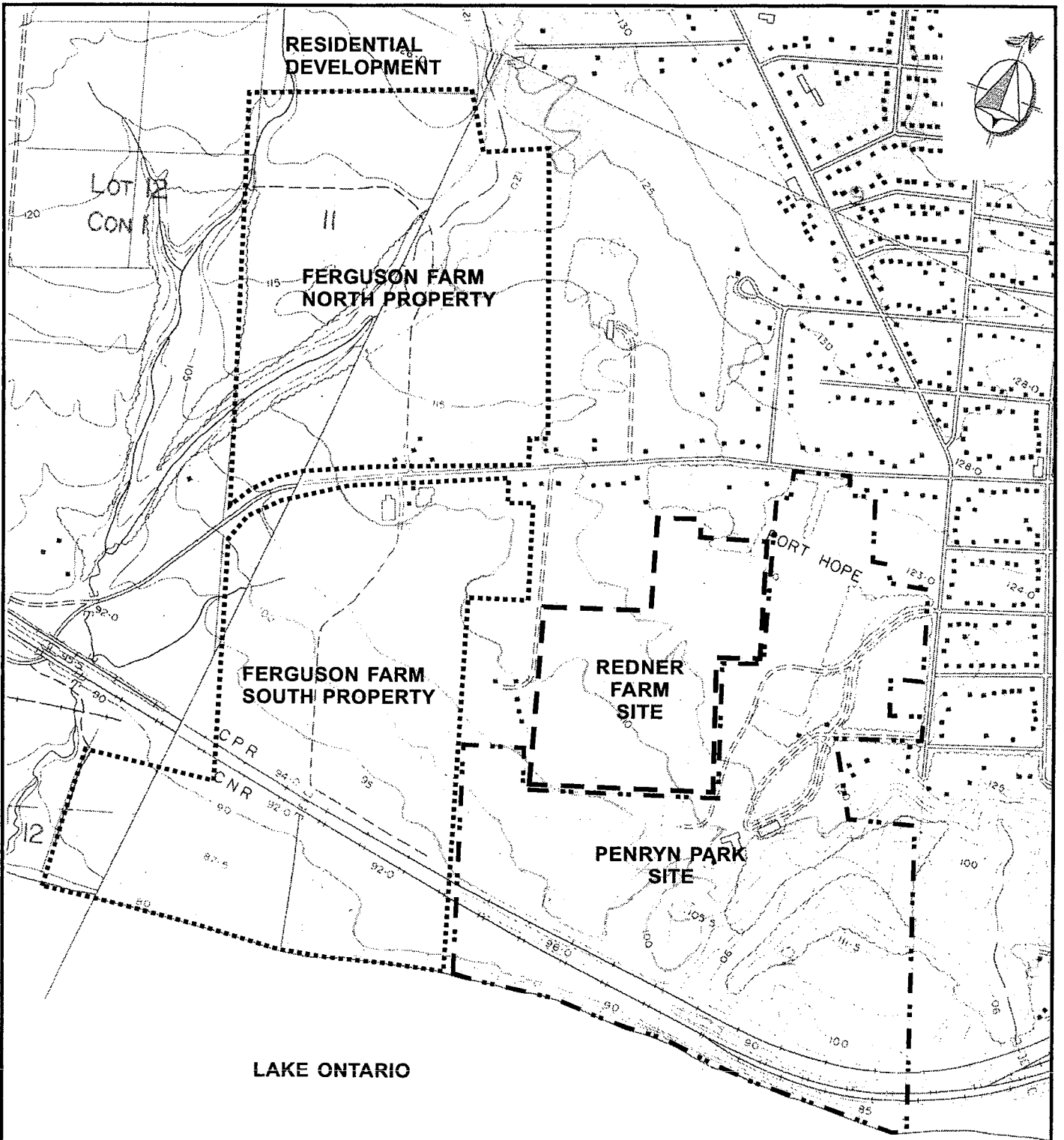
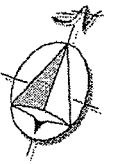
PROJECT: 03050403.00

REF. NO.: 0305040300F-1

Site Investigation Services
Division of Jagger Hims Limited
Geotechnical, Hydrogeological & Environmental Services

FIGURE

1



LEGEND

SITE AND SITE AREA PLAN

Environmental Site Assessment
Redner Lands
Port Hope, Ontario
For: AON Inc.

DATE: JUNE, 2005

SCALE: 1 : 10,000

PROJECT: 03050403.00

REF. NO.: 0305040300F2

 Site Investigation Services
Division of Jagger Hims Limited
Geotechnical, Hydrogeological & Environmental Services

FIGURE

2



54-4343
20-167



78-4366
48.

384

**ENVIRONMENTAL SITE ASSESSMENT
PENRYN PROPERTY
PORT HOPE, ONTARIO**

Prepared For

AON Inc.

June, 2005


File 03050404.00

Distribution:

2 c Client

1 c File



 **Site Investigation Services**
Division of Jagger Hims Limited
Geotechnical, Hydrogeological & Environmental Services

June 21, 2005

815 High Street, Unit 9
Peterborough, Ontario
Canada, K9J 8J9
Tel 705 743-6850
866 818-8366
Fax 705 743-6854

AON Inc.
307 Aylmer Street North
P.O. Box 293
Peterborough, Ontario
K9J 6Y8

Attention: Mr. Ross Smith

Dear Sirs,

Re: Environmental Site Assessment, Penryn Property,
Port Hope, Ontario
Our File: 03 050404.00

We are pleased to submit two copies of our Phase I Environmental Site Assessment (ESA) report for the above-noted property.

The ESA did not find evidence of, or potential for, significant subsurface environmental impacts at the site. Subject to the general qualifier noted in Section 6.0 of the report, it is unlikely that subsurface impacts in excess of the generic acceptability criteria in Table A of the *Guideline for Use at Contaminated Sites in Ontario* exist at the site.

Based on our findings, no further assessments or Phase II environmental testing are necessary at this time.

We trust the report satisfies your present requirements. Please contact us if you have any questions.

Yours truly,

SITE INVESTIGATION SERVICES
Division of Jagger Hims Limited



Robert E. Marttila, B.Sc., M.A.Sc., P. Eng.,
Consulting Engineer



EXECUTIVE SUMMARY

Site Investigation Services was retained by AON Inc. to conduct a Phase I Environmental Site Assessment (ESA) of the property located in Part Lots 9 and 10, Concessions 1 and Broken Front, Municipality of Port Hope (Hope Township). The ESA was required to provide information for financing transactions for the property.

The ESA was completed using CSA Standard Z768-01 as a guideline, and assessments included historical records reviews, interviews, and a site inspection.

The subject site currently is a golf course with a clubhouse and tennis courts. There also are several buildings on the site, in addition to the clubhouse. Buildings include a special events rental building, a storage barn and seven residences. Based on historical records review and interviews, it is apparent that the site conditions, except for expansion of the golf course and renovations of buildings, have been essentially the same for many years. This type of development is usually associated with low environmental risk. The only potential risk factors identified were three onsite old transformers that might contain PCB's, two above-ground fuel storage tanks, current and historic above-ground fuel oil tanks, used for heating, and limited golf course equipment servicing. We did not see any evidence of staining in the storage barn and equipment maintenance areas or in the vicinity of the fuel storage tanks. All storage tanks currently on the site are relatively new and the equipment repair operations are of a small scale. Consequently, the risk factors associated with the tanks and maintenance work are minimal.

All of the onsite buildings have been renovated over the last 15 years and there was no evidence that residual asbestos-containing materials exist on the site.

Adjacent land uses generally have been agricultural to the west and residential to the north and east. The agricultural and residential land uses have relatively low environmental impact risk potential.

The only outstanding issue of possible significance is conditions near the CPR and CNR main line railway tracks that cross the southerly part of the site. The track sections are not part of any loading or unloading facilities. Consequently, the risk, if any, from the railway would be limited primarily to spills. There is no evidence to suggest that spills have occurred. A freedom of information (FOI) request has been made to the Ministry of the Environment (MOE) to confirm the status of the site, including spills. If there is anything of significance in the MOE response to the FOI request we will send out an amendment to our report. Polyaromatic hydrocarbons, associated with treated timber railway ties, can leach into the subsoils. However, the transfer of such leaching beyond the immediate track area is very unlikely. Noise issues related to railway use are beyond the scope of this assessment.

In summary, there is no existing visual evidence or historical information suggesting that significant subsurface chemical impacts exist on the site. Subject to the qualifier in Section 6.0 of the report, it is considered highly unlikely that contaminants in concentrations that exceed the Ministry of the Environment generic acceptability criteria in Table A of Appendix 2 of the *Guideline for Use at Contaminated Sites in Ontario* (February 1997) exist at the site.

No site remediation work or additional environmental studies are recommended at this time.



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APPENDIX

- SITE PHOTOGRAPHS 1 TO 5
- 1954 AERIAL PHOTOGRAPH
- 1978 AERIAL PHOTOGRAPH
- SURVEY PLAN PROVIDED BY AON
- TITLE SEARCH DATA
- ARTICLES DISCUSSING HISTORIC SITE DEVELOPMENT AND USAGE

1.0 INTRODUCTION

1.1 BACKGROUND

At the request of Mr. Ross Smith of AON Inc, Site Investigation Services (Division of Jagger Hims Limited) has completed a Phase I Environmental Site Assessment (ESA) of the golf course property, referred to as the Penryn Lands, located in the westerly part of Port Hope, Ontario (site). It is understood that the purpose of the ESA is to provide information for financial transactions related to the property.

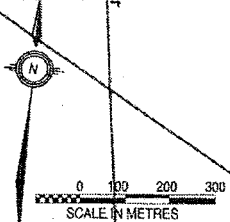
The site extends from Lakeshore Road at the north end, to Lake Ontario and occupies a large part of Lots 9 and 10, Concessions 1 and Broken Front in the Municipality of Port Hope (Hope Township). A map indicating the site location is included as Figure 1, and Figure 2 is a site area development and topographic plan. The site and site area also are shown on appended copies of aerial photographs. Legal survey and title search data provided by AON Inc is included in the Appendix. Properties near the site are agricultural to the west and residential to the north and east. The main lines of the Canadian Pacific and Canadian National Railway cross the southerly part of the property near Lake Ontario.

This ESA report documents the objectives, scope and findings of the site evaluation, and includes a site description, results of a records review, observations during site inspections, results of interviews, and an assessment of the significance of the information collected.

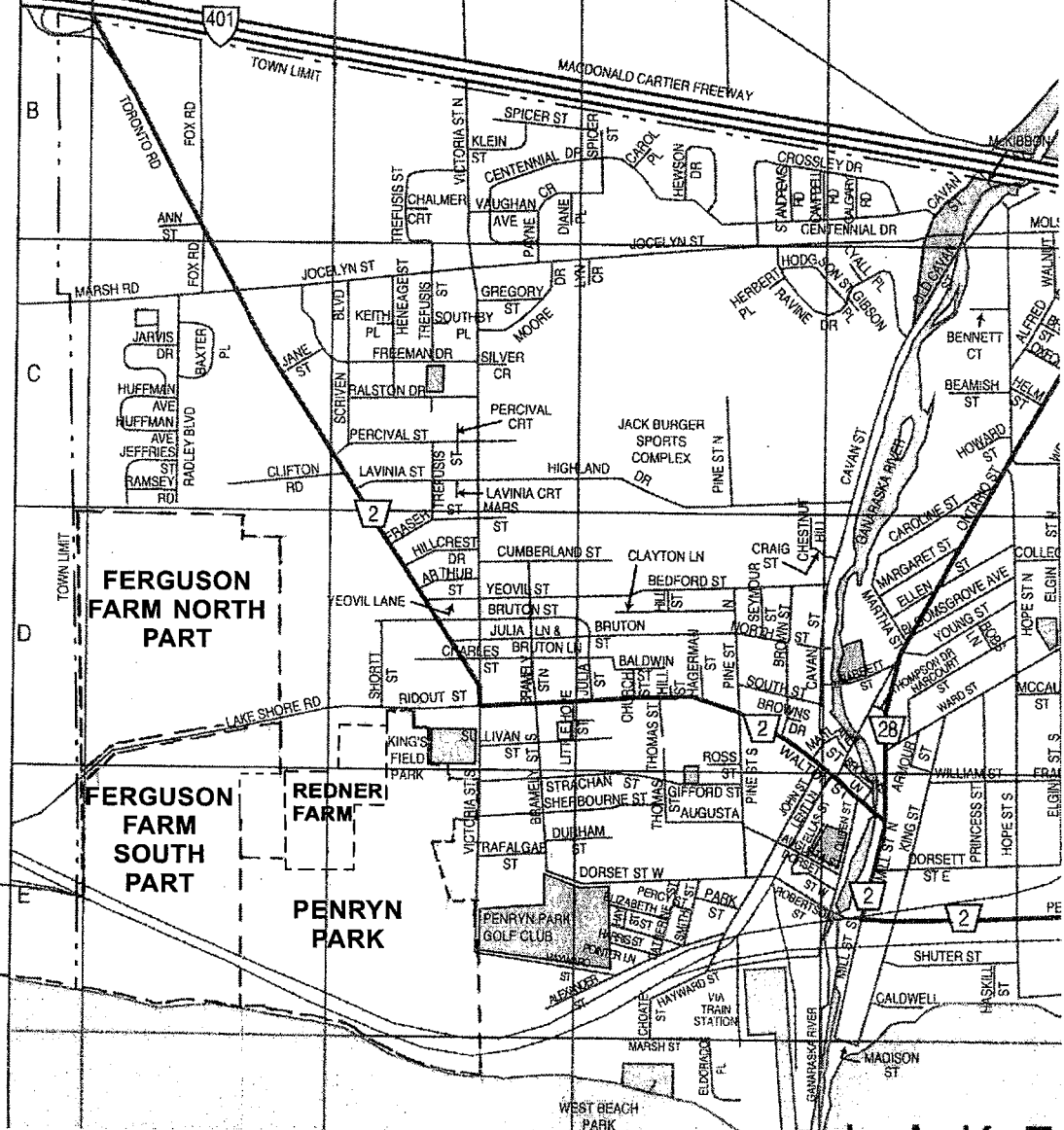
1.2 OBJECTIVE AND SCOPE

The primary objectives of the ESA were to document existing site conditions, and to evaluate the potential for environmental concerns at the site as a result of historical and current site and surrounding land uses.

PORT HOPE



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LEGEND

SITE LOCATION PLAN

Environmental Site Assessment
Penryn Lands
Port Hope, Ontario
For: AON Inc.

DATE: JUNE, 2005

SCALE: AS SHOWN

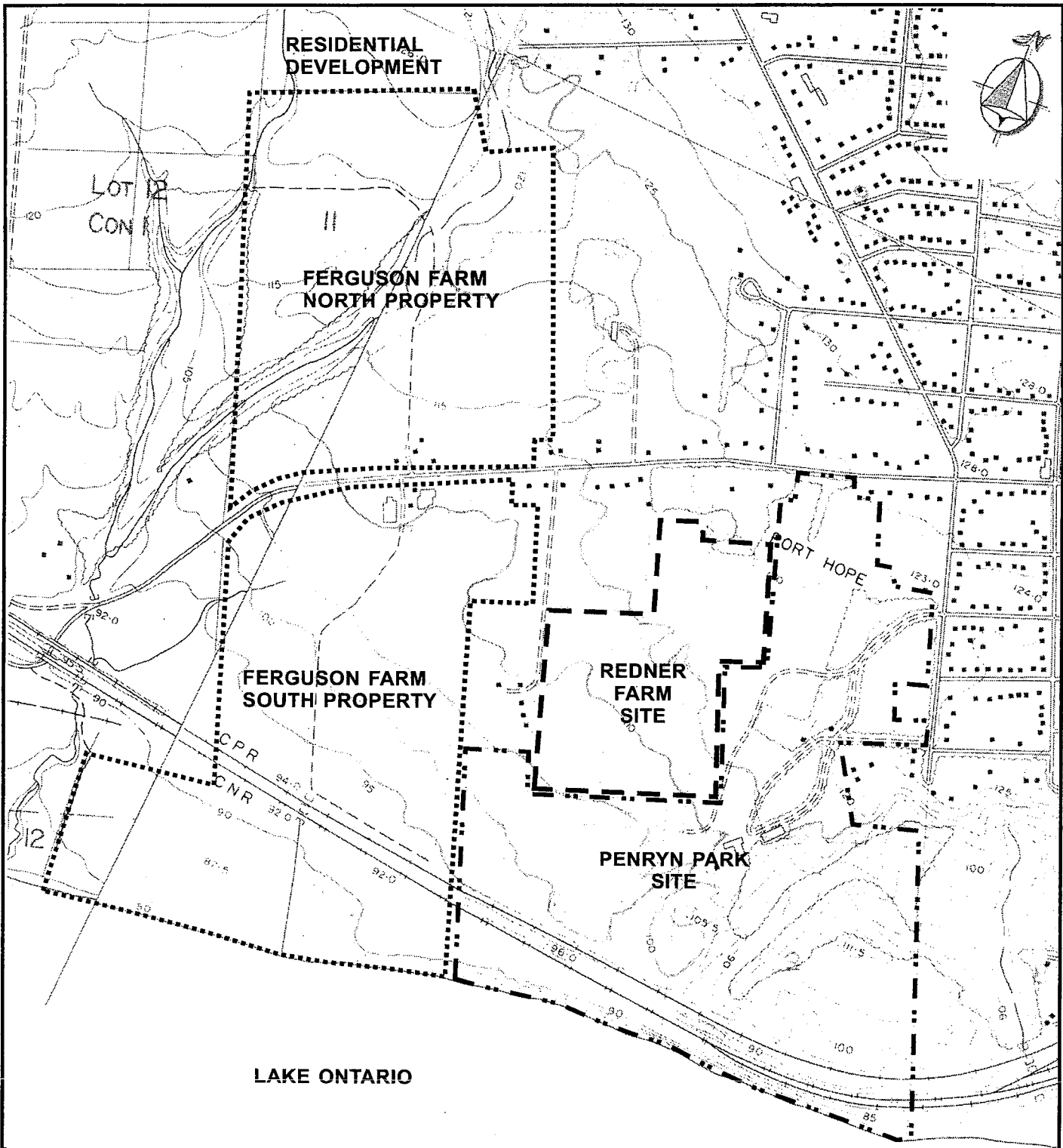
PROJECT: 03050404.00

REF. NO.: 0305040400F1

Site Investigation Services
Division of Jagger Hims Limited
Geotechnical, Hydrogeological & Environmental Services

FIGURE

1



LEGEND

SITE AND SITE AREA PLAN

Environmental Site Assessment
 Penryn Lands
 Port Hope, Ontario
 For: AON Inc.

DATE: JUNE, 2005

SCALE: 1 : 10,000

PROJECT: 03050404.00

REF. NO.: 0305040400F2

Site Investigation Services
 Division of Jagger Hims Limited
 Geotechnical, Hydrogeological & Environmental Services

FIGURE

2

The ESA was completed based on requirements of the Canadian Standards Association (CSA) Standard Z768-01 *Phase 1 Environmental Site Assessment (2001)*, and such standards meet the minimum requirements of American Society for Testing and Materials (ASTM) ESA-Standard E 1527-00, with the exception of the ASTM 1527-00 specified regulatory databases, which are not available within Canada. Tasks completed during the ESA included the following:

- a records review of technical data obtained from third party sources;
- a review of a geotechnical report for the site that was prepared by Site Investigation Services Limited;
- a review of historical aerial photographs;
- inspections of the site to identify potential sources of environmental contaminants;
- interviews; and
- report preparation.

2.0 SITE DESCRIPTION

2.1 SITE LOCATION AND DESCRIPTION

The site is located in parts of Lots 9 and 10, Municipality of Port Hope (Hope Township) within both Concession 1 and the Broken Front Concession.

Most of the site is covered with an 18-hole golf course and driving range, part of which has existed since 1900. Southerly and westerly extensions to the golf course were constructed in the 1990's. The golf course is serviced with a relatively new clubhouse. The original clubhouse, referred to as the Red Barn, was recently converted to a residence. There also is an older onsite barn that is used for golf course related storage and modest equipment maintenance (an above-ground hydraulic hoist is located in front of this building), a large residence, known as the farmhouse, that was renovated and expanded in the 1990's, a residence known as the Green Cottage, two residences about 40 years old that have been renovated, a residence of early 1900 vintage, located near Victoria Street, that has been partly renovated, a 1½ storey residence

converted from the historic Billiard Hall, and a two storey fully renovated, functions rental building known as the Mansion. There also is an onsite tennis court. Photographs of some of the buildings are appended to this report.

The barns, the clubhouse and most of the residences are of frame construction with wood siding. The larger Mansion building and the converted billiard hall are brick-faced frame structures.

Heating generally is with gas-fired furnaces supplemented by electric baseboard heat systems in a few buildings. However two residences have oil-fired furnaces supplied by basement level fuel oil tanks.

There are three relatively old electrical transformers on the site and there is a high probability that the coolants of the transformers contain PCB's.

Two relatively new above-ground fuel tanks (gasoline and diesel) are located near the works barn as shown on Photograph No. 1 in the Appendix.

The northerly part of the site is relatively flat and the southerly part slopes towards Lake Ontario. The easterly area is very hilly with some deeply incised valleys.

Development near the site is agricultural, with scattered residences to the west of the site, and residential to the north and east.

A review of 1954, 1971 and 1978 aerial photographs confirms that the historic site and nearby site usages have been similar for many years. The only significant change has been the expansion of the golf course into former agricultural lands. The appended title search data confirms that the easterly part of the site was owned by individuals from the 1800's until it was purchased by AON Inc. in 1989. The westerly agricultural area that was converted to golf course holes and a driving range also was owned by individuals from 1804 until the purchase by AON Inc.

2.2 **PHYSIOGRAPHY AND DRAINAGE**

The site is located within the Peterborough Drumlin Field Physiographic Region, as described by Chapman and Putnam (1984), which is characterized as a rolling plain of drumlinized glacial till. Based on boreholes that Site Investigation Services drilled on the site in 1989 the glacial till soils are usually sandy with sand and silty sand lenses, and the till soils usually are covered with a silty sand soil. The general ground slope is gradual in a southerly direction with the exception of a few deeply incised gullies in the southeasterly part of the site. There are some more steeply sloping areas and some valleys near the Lake Ontario Shoreline.

Based on the topographical assessment, the groundwater flow from the immediate site area generally is southerly. There are no storm sewers.

3.0 **RECORDS REVIEW**

The records review provides information regarding the physical setting, development history, and existing land use of the site and adjacent properties. Information sources and findings are summarized in the following table.

SOURCE	INFORMATION OBTAINED
Ministry of the Environment (MOE)	<p>No response to an MOE Freedom of Information request was received prior to report finalization. If MOE records are obtained that are environmentally significant in terms of this ESA, an addendum will be forwarded to the client.</p> <p>The Waste Disposal Site Inventory (MOE, 1991) does not list any active or closed waste disposal facilities within 1 km of the site.</p> <p>The Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario (MOE 1988 & 1997) lists 70 to 80 John Street as an historic coal gasification site that is located within 1 km of the site. However, the coal tar site is more than 20m lower in grade than most of the site area and there is no potential for cross contamination.</p> <p>The Ontario Inventory of PCB Storage Sites (MOE, 1998) does not list any PCB storage sites within 1 km of the subject site.</p>

SOURCE	INFORMATION OBTAINED
Ministry of Natural Resources	The 1954 and 1978 aerial photographs for the site area were reviewed, copies are appended. All three of the air photos indicated that the site and site area land uses have not changed for many years, with the exception of a few new residences and expansion of the golf course. Copies of the 1954 and 1978 photos are appended to this report.
Technical Standards and Safety Authority (TSSA)	The TSSA indicates that no records are available for the site.

In summary, available historical records do not contain any information suggesting that there is a significant potential for environmental impacts on the site as a result of current or historical onsite and adjacent land uses.

3.1 SITE INSPECTION

Site inspections of the subject property, and a cursory visual inspection of adjacent properties, were completed on June 7, 2005, to gather information about potential environmental concerns related to recent site and site area activity. Several photographs were taken for reference (selected photographs from the inspection are appended). A summary of the inspection findings is provided below.

- The site consists primarily of a golf course and driving (practice) range with some mature trees in most parts of the site, particularly near the clubhouse and to the east. The relatively new single storey frame (with a concrete slab-on-grade floor) clubhouse building and an historic wood constructed barn with stone rubble foundation walls, that is used for equipment and materials storage and some minor maintenance, are the two onsite structures related to golf course operation.

The clubhouse was clean and well maintained and no evidence of environmental concern was observed. The barn (see Appendix Photograph No. 4) also is relatively clean and well maintained and no evidence of significant staining was observed in the concrete floor or gravel surfaced areas adjacent to the barn.

Some oil and cleaner type materials, in small closed original containers, are stored in the barn on shelves. There was no evidence of stains or spills in this area. Pesticides are stored in a small locked room. We did not inspect the interior of the storage room. There was no evidence of stains near a welding machine and small air compressor located inside the building.

- A small above-ground hydraulic lift exists in front of the maintenance barn. We did not see any evidence of spills or stains near the lift, which is visible next to the tractor on the appended Photograph No. 4.
- Two relatively new above-ground fuel tanks, one gasoline and one diesel, are located in a gravel-surfaced area near the maintenance barn is shown on appended Photograph No. 1. There was no evidence of stains or odours near the tanks. Large concrete blocks next to the tanks prevent inadvertent damage from equipment and vehicles.
- Three old electrical transformers, still in use, exist on the property. One is adjacent to the subsequently described Mansion building and two are in the general vicinity of the tennis court. The steel enclosure boxes were locked and there was no signage on the exterior of the boxes to give details of the size and type of transformer. However, there is a high probability that the coolant in the transformers contains PCB's. Testing and disposal in accordance with Provincial and federal regulations will be required when the transformers are taken out of service. We did not observe any evidence of leakage near the transformers.
- There are seven residences on the property in the east-central part. The largest is the original farmhouse that was completely renovated and expanded in 1990. One residence referred to as the Red Barn, is a conversion of an historic golf course clubhouse and one is a conversion of an historic billiards building. An older 1½ storey frame structure near the site entrance at Victoria Street, and the Green Cottage located near the works barn, are old structures (up to 87 years old). Both buildings have been renovated in the 1990's. The other two residences, the Lilac Cottage and the Honeymoon Cottage are frame residences with basements that were renovated and expanded in the 1990's.

➤ The residences, other than the Lilac and Honeymoon Cottages have been converted to natural gas for heating using forced air furnaces. Historic heating used fuel oil (with above-ground tanks) or propane. The Lilac and Honeymoon Cottage forced air heating system still uses fuel oil from new storage tanks in the basements. We observed the Honeymoon Cottage basement and did not find any evidence of stains or odours near the location of the new and historic fuel tanks. We were not able to see the facilities in the Lilac Cottage.

➤ The large two storey brick-faced Mansion building, shown on Appendix Photograph No. 3, has been fully renovated and is rented out for functions such as weddings. Renovations included the installation of a new natural gas forced air furnace.

The wood frame structure has mortared stone rubble basement walls, in good condition, and mostly wood floors. Much of the original plaster is intact. We observed one area where the plaster was broken and noted that it was horse hair reinforced.

The previous heating system was fuel oil fired from a basement level tank, supplemented by second storey electrical baseboard heaters which still exist. We looked at the historic tank area (removed) and did not see any evidence of stains or odours.

Hot water piping is covered with fibreglass insulation and we understand that asbestos insulation was removed during the renovation work.

A few closed paint cans were observed on the basement stairs.

➤ Based on cursory inspections from the boundaries of the site, the adjacent properties appear generally clean and well maintained, with agricultural lands with scattered houses to the west, development to the north and residential development and a small Municipal park to the east. Lake Ontario, or the CN and CP Railway corridors form the southerly boundary. No evidence of spills, such as stains or odours were observed in the railway area.

Inspection observations relating to specific aspects of the ESA are summarized in the following table.

ENVIRONMENTAL ASPECT	OBSERVATIONS
WATER MANAGEMENT	The site has Municipal sanitary sewer and water services.
MATERIAL STORAGE AND MANAGEMENT	Some oil and solvents related to equipment maintenance observed in the golf course maintenance barn were neatly stored and there was no evidence of spills or significant staining. Pesticides for golf course use were stored in a locked room in the maintenance barn. We did not see the inside of the room.
STORAGE TANKS	A number of historic fuel oil tanks were removed at residences now heated with natural gas. The tanks apparently were all above-ground tanks adjacent to the buildings or in the basement. We observed the historic basement level fuel oil tank in the Mansion building and did not see any evidence of stains or odours. Two new basement level tanks still exist in two of the seven onsite residences to supply fuel to oil fired furnaces. Two above-ground gasoline and diesel fuel tanks next to the works barn are relatively new and no stains, odours or stressed vegetation was observed near the tanks.
PCB MATERIALS AND EQUIPMENT	Three onsite electrical transformers probably contain PCB's in the coolant fluid.
ASBESTOS CONTAINING MATERIALS	There were no asbestos containing materials at observable locations on the site at the time of inspection.
LEAD CONTAINING MATERIALS	There was no evidence of lead containing materials on the site at the time of inspection.
UREA FORMALDEHYDE FOAM INSULATION (UFFI)	There was no evidence that UFFI material may have been installed in onsite buildings.
MOULD CONTAINING MATERIALS	There was some seasonal seepage into the Honeymoon Cottage basement but there were no musty odours. We did not inspect other buildings for evidence of mould. Detailed mould inspections are beyond the scope of this assessment.
OZONE DEPLETING MATERIALS	No equipment containing ozone depleting materials were observed on-site during the time of inspection.
SPILLS AND ACCIDENTAL RELEASES	There were no signs of accidental spills or releases on the ground surface near the on-site buildings, fuel storage tanks, stored chemical areas or the above-ground hydraulic hoist areas at the time of our inspection.
FILL MATERIAL	We did not see any evidence of fill materials.
AIR EMISSIONS	No significant sources of air emissions were observed that would require a certificate of approval from the MOE.
ADJACENT PROPERTIES	
	Visual inspection of the adjacent properties confirmed that current land use is mostly agricultural, with scattered residences, or residential. These areas appear to be clean and no sources of possible pollutants were observed.

In summary, the site inspection did not reveal any existing on or off-site sources of significant environmental contamination that would potentially cause subsurface soil and groundwater

impacts on the site, and it is considered highly unlikely that contaminants in concentrations that exceed the generic acceptability criteria in Table A of Appendix 2 of the *Guideline for Use at Contaminated Sites in Ontario* (February 1997) exist in subsoils or groundwater below the site.

4.0 INTERVIEWS

Mr. Ross Smith of AON Inc. indicated that he was not aware of any contaminated areas or sources of contamination on the Penryn Lands. Mr. Smith has owned the property and has resided in one of the onsite buildings since 1990. We also talked to Robert Sculthorpe, the previous long term owner of the property. Mr. Sculthorpe confirmed some of the dates for various construction on the property and also confirmed that he was not aware of any incidents such as spills or leaks that would have had an adverse environmental impact.

5.0 CONCLUSIONS AND RECOMMENDATIONS

A Phase 1 Environmental Site Assessment (ESA) was completed for the property in Lots 9 and 10, Concessions 1 and Broken Front in the municipality of Port Hope (Hope Township) that is referred to as the Penryn Lands. This site is predominantly a golf course with some tree covered areas. The ESA was completed to provide information for financial transactions related to the property. Based on the information presented in this report, we conclude the following.

- Historical information, interviews, and aerial photographs indicate that the subject property has been a golf course or in agricultural use for at least 100 years. Historic development in the areas near the site has consisted for many years, of agricultural lands to the west and residential uses, with one Municipal park to the north and east. Current use of lands to the north of the farm area north of Lakeshore Road is residential.
- Historic above-ground and basement level fuel oil tanks have been removed from all but two of the onsite structures. The two remaining residential basement level fuel tanks are almost new. Apparently there was no evidence of leakage or spillage impacts in the ground when the tanks were removed in the 1990's and we did not observe any evidence

of stains or odours in the vicinity of one of the existing tanks (Honeymoon Cottage) and one removed tank (Mansion building).

There are two relatively new above-ground gasoline and diesel fuel tanks near the maintenance barn. We did not observe any evidence of stains or odours in the vicinity of the tanks.

- At the time of inspection, no ground staining, refuse or significant debris was noted on the subject property.
- No significant off-site sources of environmental contaminants were identified in the site area, or on adjacent areas, with potential to cause contaminant impacts on the subject property.
- The risk of chemical impacts on native subsoils at the site, from existing or historical on-site and adjacent land use sources, is considered to be very low, and it is considered unlikely that significant subsurface soil and groundwater impacts, in excess of Ministry of the Environment generic acceptability criteria, provided in Table A of Appendix 2 of the *Guideline for Use at Contaminated Sites in Ontario* (February 1997), exist on the site.
- The only outstanding issue of possible significance is conditions near the CPR and CNR main line railway tracks that cross the southerly part of the site. The track sections are not part of any loading or unloading facilities. Consequently, the risk, if any, from the railway would be limited primarily to spills. There is no evidence to suggest that spills have occurred. A freedom of information (FOI) request has been made to the Ministry of the Environment (MOE) to confirm the status of the site, including spills. If there is anything of significance in the MOE response to the FOI request we will send out an amendment to our report. Polyaromatic hydrocarbons, associated with treated timber railway ties, can leach into the subsoils. However, the transfer of such leaching beyond the immediate track area is very unlikely. Noise issues related to railway use are beyond the scope of this assessment.

6.0 QUALIFIER

During the records review for this Phase 1 ESA, Site Investigation Services (Division of Jagger Hims Limited) has relied on information obtained from municipal, provincial, and independent sources as referenced in this report, and on interviews. Verification of the accuracy or completeness of third party information was not undertaken.

Site conditions, environmental or otherwise, are not static and it should be appreciated that this report documents observed conditions at the time of the site inspections. Conclusions provided in this report reflect our best judgment based on information available at the time of preparation. While there was no evidence to suggest that significant contaminant impacts exist on the site, this assessment is not a guarantee that such impacts do not exist in unobserved areas.

This Phase 1 ESA report is prepared for the AON Inc. for its use, or the use of its assignees, in the evaluation of the subject Penryn Lands, located in Lots 9 and 10, Concessions 1 and Broken Front, in the Municipality of Port Hope (Hope Township), for the purposes of providing information for evaluating financial transactions related to the property. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibility of such third parties. Site Investigation Services accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

Respectfully Submitted by:

SITE INVESTIGATION SERVICES

Division of Jagger Hims Limited



Robert E. Marttila, B.Sc., M.A.Sc., P. Eng.,
Consulting Engineer

Reviewed by:



Stuart Baird, P. Eng.,
Project Engineer

APPENDIX

- **SITE PHOTOGRAPHS 1 TO 5**
- **1954 AERIAL PHOTOGRAPH**
- **1978 AERIAL PHOTOGRAPH**
- **SURVEY PLAN PROVIDED BY AON**
- **TITLE SEARCH DATA**
- **ARTICLES DISCUSSING HISTORIC SITE
DEVELOPMENT AND USAGE**

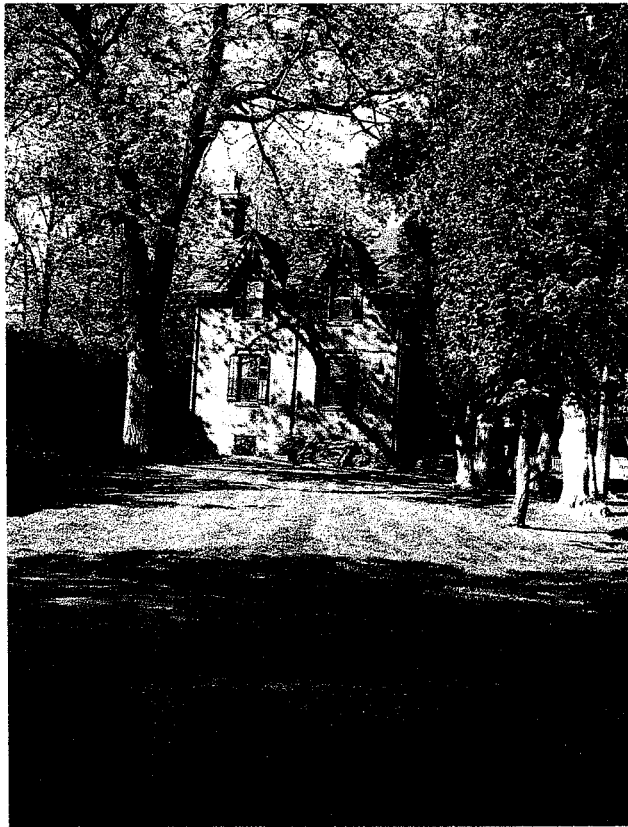
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Penryn Lands, Port Hope ESA

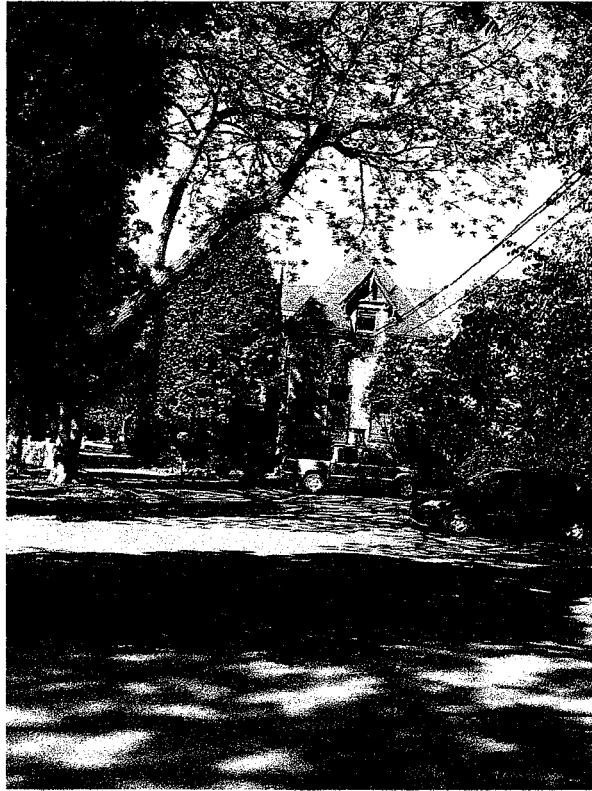


Photograph 1: Two fuel storage tanks located next to the Barn. The building in the right corner is the Red Barn which has been converted to a residence.



Photograph 2: Looking easterly at the Billard House.

Penryn Lands, Port Hope ESA

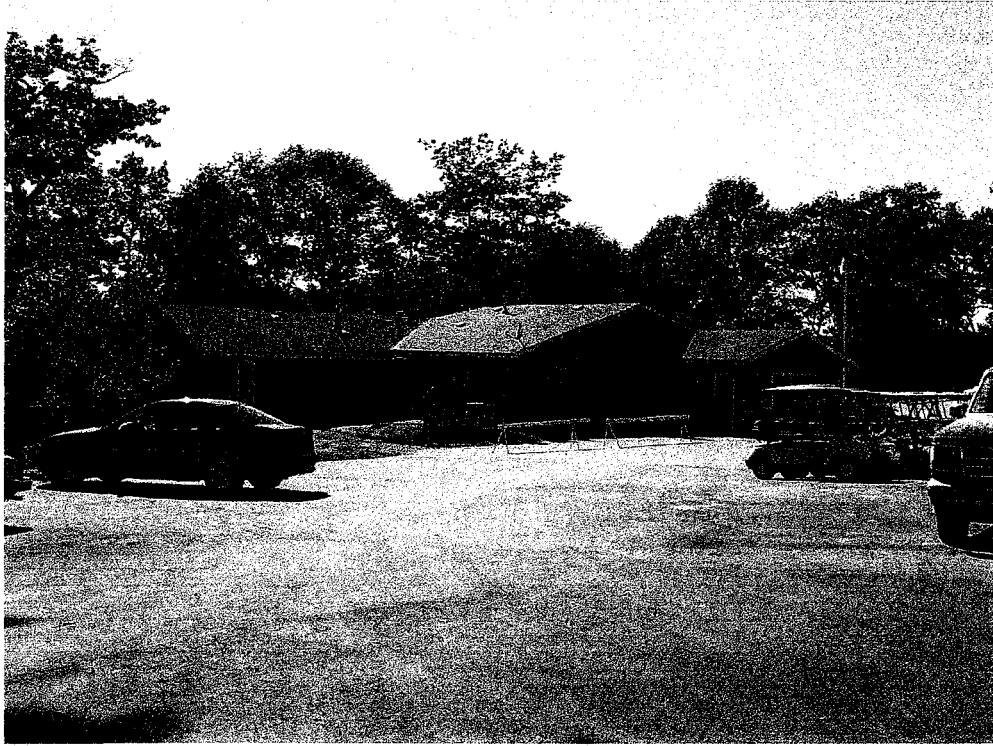


Photograph 3: Looking easterly at the west end of the Mansion Building. An old transformer is located below the tree on the left side of the building.



Photograph 4: Looking northerly at the works barn. Above ground hydraulic hoist is located beside the tractor.

Penryn Lands, Port Hope ESA



Photograph 5: Looking southwesterly at the access road and clubhouse.



54-4343
20-167

1954



78-4366
48-

384

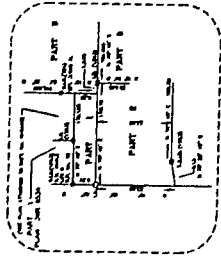
NORTHWAY SURVEY CORPORATION LIMITED

1978

PLAN 39R
 RECORD AND APPROVED
 USE RECEIVING THE PLAN
 WITHIN THE LIMITS OF THE
 MUNICIPALITY OF PORT HOPE
 N. L. JAMES, DISTRICT M.A.
 REGISTERED PLANNING ENGINEER

NO.	DESCRIPTION	AREA (SQ. FT.)	AREA (SQ. M.)
1	LOT 1	10,000	929
2	LOT 2	10,000	929
3	LOT 3	10,000	929
4	LOT 4	10,000	929
5	LOT 5	10,000	929
6	LOT 6	10,000	929
7	LOT 7	10,000	929
8	LOT 8	10,000	929
9	LOT 9	10,000	929
10	LOT 10	10,000	929

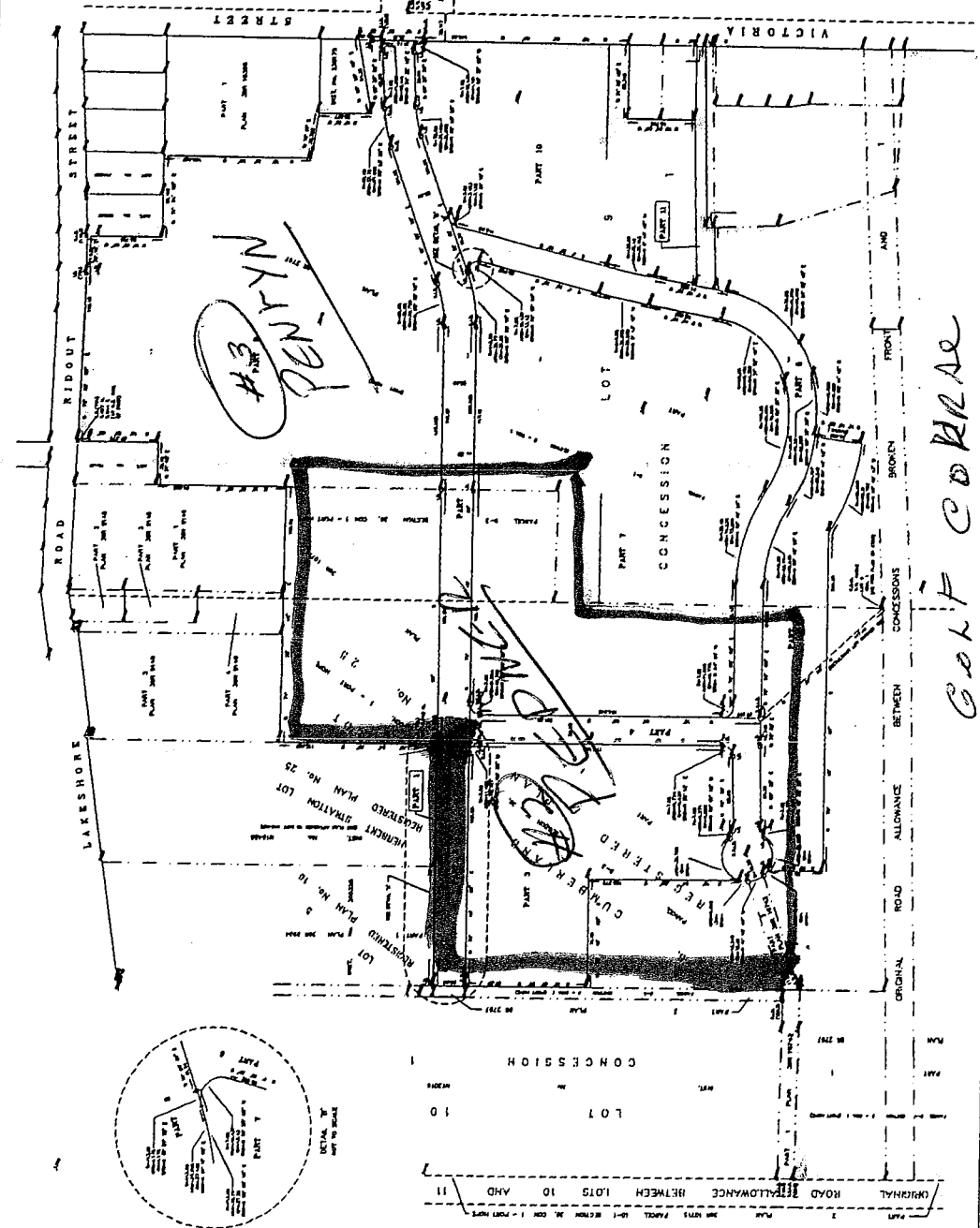
PLANNING ENGINEER'S CERTIFICATE
 I HEREBY CERTIFY THAT THE PLAN AND THE INFORMATION CONTAINED THEREIN ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THAT THE PLAN AND THE INFORMATION CONTAINED THEREIN ARE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY OF PORT HOPE AND THE MUNICIPALITY OF NORTHUMBERLAND.



PART OF BLOCK OF
 PART OF THE S. CUMBERLAND LOT
 REGISTERED PLAN NO. 25
 (FORMERLY PART OF LOT 1, CONCESSION 1, MUNICIPALITY OF PORT HOPE)
 AND PART OF LOT 9 CONCESSION 1
 (FORMERLY CONCESSION 1, MUNICIPALITY OF PORT HOPE) NOW 1500
 MUNICIPALITY OF PORT HOPE
 COUNTY OF NORTHUMBERLAND
 SCALE = 1:1,500
 E. LYNN BROWN O.L.S.

METRIC
 CONVERSION TABLE
 METERS TO FEET
 FEET TO METERS

NOTE
 METERS AND FEET ARE BOTH UNITS OF LENGTH AND ARE USED TO MEASURE THE SAME LENGTH OF LINE. THE METRIC UNIT IS THE STANDARD UNIT OF MEASUREMENT.



MAY 25 2005

Lot 9, Concession 1, Twp. of Hope
 Lot 9, Concession 1, Town of Port Hope
 Part of the Original Road Allowance between
 Concession 1 & Broken Front Concession, Twp. of Hope

	Grant	16 June 1804	The Crown	Ann Ridout	200 acres - copy attached
3239	Grant	14 July 1860	Municipal Corp. of the Twp. of Hope	Sarah Spadrow Williams	that part of the original road-allowance between Conc. 1 & Broken Front Conc., Twp. of Hope lying south of the west half of Lot 9, Conc. 1.
C3731	Grant	3 July 1922	Henry H. King	Winnifred King Schultz	description attached
315	O.M.B. Order	17 Oct. 1955			
		28 Oct. 1955	annexes that part of the west half of Lot 9, Concession 1, Twp. of Hope lying north of the southerly limit of the Lakeshore Rd. as located on April 1, 1955 to the Town of Port Hope		
N19657	By-law No. 1475	28 Oct. 1967	Twp. of Hope - to designate an area of subdivision control		copy attached
N21066	Ancillary Letters Probate	5 Sept. 1967	Estate of Winnifred King Schultz	Hildegarde Schultz Norton Henrietta Schultz Thomas Executrices	
N21067	Certificate	30 April 1968	Treasurer of Ontario re: estate of Winnifred King Schultz		lands in N23463

N23463	Executors Deed	23 Sept. 1968	1 May 1969	Hildegarde Schultz Norton, Henrietta Schultz Thomas Executrices of Winnifred King Scultz	Hildegarde Schultz Norton Henrietta Scultz Thomas Alice K. Sculthorpe Albert B. Schultz Jr. as tenants in common	copy attached
* 29058	Letters Probate	9 April 1969	27 Jan. 1971	Estate of Albert Bigelow Schultz Robert John Wickett Sculthorpe & John Jennings Dashwood, Trustees		
29061	Certificate	23 Dec. 1970	27 Jan. 1971	Treasurer of Ontario re: estate of Albert Bigelow Schultz		lands in N23463
* 48007	Ancillary Letters Probate	5 Dec. 1974	26 April 1976	Estate of Hildegarde S. Norton William S. Norton- Executor		
48008	Certificate	7 April 1976	26 April 1976	Minister of National Revenue re: estate of Hildegarde S. Norton		lands in N23463

51332	Deed	2 Feb. 1977	30 March 1977	William S. Norton Executor of the estate of Hildegarde S. Norton	William S. Norton	lands in N23463 transfers an undivided 1/4 interest
79560	Transfer		11 Nov. 1985	Henrietta Schultz Thomas	Canadian Institute of Cultural Affairs	lands in N23463 transfers an undivided 1/4 interest
94156	Transfer		13 Sept. 1988	Alice K. Sculthorpe William S. Norton Canadian Institute of Cultural Affairs Robert John Wickett Sculthorpe & John Jennings Dashwood, Trustees of the estate of Albert Bigelow Schultz	Aon Inc.	lands in N23463

94157	Mortgage	13 Sept. 1988	Aon Inc.	Alice K. Sculthorpe William S. Norton Canadian Institute of Cultural Affairs estate of Albert Bigelow-Schultz Robert John Wickett Sculthorpe & John Jennings Dashwood, Trustees (1/4 share each)	lands in N23463
9R-2284	Plan	15 Dec. 1988			lands in N23463
99210	Transfer	31 July 1989	Alice K. Sculthorpe William S. Norton Canadian Institute of Cultural Affairs Robert John Wickett Sculthorpe & John Jennings Dashwood, Trustees of the estate of Albert Bigelow Schultz	Aon Inc.	lands in N23463 redescrbed in accordance with Plan 9R-2284 - copy attached

Part of the road allowance between Concession Broken Front and 1,
in the Town of Port Hope, County of Northumberland designated as
Part 4 on Plan 9R-2284

102568	By-law 10/90	13 Mar. 90	Town of Port Hope By-law closing part of the road allowance designated as Part 4 on Plan 9R-2284	copy attached
102683	Transfer	21 Mar. 90	The Corporation of Aon Inc. the Town of Port Hope	Part 4 on Plan 9R-2284 & consent of Committee of Adjustment copy attached

Lot 10, Concession 1, Twp. of Hope
& Broken Front Concession

	Grant		6 April 1804	The Crown	James Robbins	200 acres- patent attached
3917	Grant	26 August 1871	2 Sept. 1871	Municipal Corp. of the Twp. of Hope	John Milton Gilles	that part of the original road allowance lying between the southerly boundary of Lot 10, Conc. 1 and the Broken Front Concession of said Lot 10, Twp. of Hope
3403	Deed	16 Oct. 1957	7 Nov. 1957	John William Uglow Jr.	Winnifred King Schultz	copy attached- subject to easement re: hedge
3527	By-law No. 1316	20 Nov. 1957	9 Dec. 1957	Twp. of Hope By-law closing the road allowance between Lots 10 & 11, Concession 1, Twp. of Hope		copy attached
3528	By-Law No. 1813	20 Nov. 1957	9 Dec. 1957	the United Counties of Northumberland and Durham By-law confirming By-law No. 1316 of the Twp. of Hope		copy attached

N12016	Deed & Grant 28 Aug. 1963 of Right of Way	30 Aug. 1963	Winnifred King Schultz	Peter Skora & Irene Skora	transfer of right-of-way and other lands. description of right-of-way attached. Survey attached
N19657	previously noted	- see Lot 9, Concession 1			
N21066	previously noted				
N21067	previously noted				
N23463	previously noted				
29058	previously noted				
29061	previously noted				
48007	previously noted				
48008	previously noted				
51332	previously noted				
79560	previously noted				
94156	previously noted				
94157	previously noted				
9R-2284	previously noted				
99210	previously noted				

Trinity College School Record.

VOL II

TRINITY COLLEGE SCHOOL, PORT HOPE, DEC. 21st, 1899

NO 8.



The Trinity College School Record.

EDITOR: Mr. J. H. COLLINSON, M. A.
MANAGERS: Mr. W. H. NIGHTINGALE, B.A. MAN. & TREAS.
Secy. Rev. G. H. BROUGHALL, M.A. SECRETARY.
ASSISTANTS: F. T. LUCAS, D. B. PLUMB, L. M. RATHBUN,
A. D. REID, K. A. RAMSAY, J. R. FRANCIS

All communications on business, and all subscriptions should be addressed to the Manager, who will also send the rates for advertising, on request.

Letters and articles for insertion should be addressed to the Editor, and must in every case be accompanied by the name of the writer, though not necessarily for publication.

ANNUAL SUBSCRIPTION 50 CENTS.

The President of the Old Boys' Association.

ARTHUR JUKES JOHNSON is the eldest son of the late Rev. W. A. Johnson, who was the founder of Trinity College School. He was the first prefect in this School when it was handed over, in 1865, to Trinity College, and was incorporated and recognized as its preparatory School, and won that year the first cup given for the mile race.

In the autumn of 1866 he entered Trinity College as an Arts student, taking at the same time a course at the Toronto School of Medicine as a special pupil of the late Dr. James Bovell. Having completed the requirements of the curriculum as it applied to medical students at that date, he graduated in the spring of 1870, taking the degree of M. B. at both Trinity and Toronto Universities.

In January 1871, he became a Member of the Royal College of Surgeons, England, at which time he was holding the position of House Surgeon to St. Thomas's Hospital, London. He practised medicine for a short time at Folkestone, with the late Dr. Fitzgerald, and returned to Canada at the request of Dr. Hodder to fill the chair of Microscopy in the Medical Faculty of Trinity University, which position he occupied till 1881.

During this period he was Demonstrator of Anatomy, lectured on Applied Surgery, and was Pathologist to the Toronto General Hospital.

In 1890 he was appointed an Examiner in Medical Jurisprudence at Trinity College, and at the same time was elected a Member of the Medical Council of Ontario to represent the medical profession of Toronto and the County of York.

With a constantly increasing general practice, he has acted, and is still acting, as a Crown Medical Officer for the City of Toronto, and has given expert evidence in almost all important murder trials in Ontario for many years.

He is a member of the Consulting Staff of the Toronto General Hospital, and of St. John's Hospital for Women, and of the Corporation of the University of Trinity College.

COL. McLAREN, of Hamilton, has the distinction of having had the largest number of boys educated here. Since W. F. McLaren entered in 1882, the School has never lacked one of this family of six sons.

Fathers of five, who have been at the School are the Bishop of Niagara, Rev. A. J. Broughall, E. Martin Esq., Q.C., and the late E. Morris Esq. These large families have all been distinguished for their exceptional physique and skill in games.

Lectures.

Head Master has arranged for the Course of Lectures to be given in winter.

- Lectures (with lantern views by Rev. Claud A. Mackenzie, M.A.
- Lectures by Rev. Dean Rigby, M.A.
- Lectures by Prof. Mackenzie, M.A.
- Lectures by H. W. Church, Esq. M.A.
- Lectures (lantern views) by Rev. G. F. Davidson, M.A.

... football ground, which has been of preparation for some time, is now at a level: it will prove an inestimable benefit to Little-Side, for whose benefit the grounds of the RECORD have been thus extended from the cricket lawn to the fence. We see a day in the future when the Big-Side will cast covetous eyes on "Naboth's Vineyard."

* * *

... is rapidly approaching when the Fire will not be so well-known in the town as it is now. But five boys remember those who "passed through the flames" are L. M. Rathbun, K. A. Ramson, J. Spencer, G. W. Morley and E. F. ...

* * *

... of H. P. LEADER among our officers in the Transvaal, recalls the School Cadet Corps, of which he was a member. We are not acquainted with the movement in the School, but to speculate on the military and efficiency displayed, and the results which led to the abandonment of the Corps. Few Schools are fortunate enough to have a rifle range within bounds, and the Cadet Corps realize to the full the advantages possessed in this respect? With the aid of its gift, a Cadet Corps will be long a-dying.

* * *

... ball has improved very much of late, and is the better for us. We had a very successful season with the Port Hope team, all-fought, improving struggles, and a victory on Nov. 18th. The School has won two of their regular halves, and while Bousfield was absent, the team, while Bousfield was absent, was a success. The Town won by ...

Golf.

For some time golf clubs have been more or less in evidence in the School grounds. The thought arises, will this desultory play ever give place to an organized system, bringing the game into the same rank as those already established. The game has much to recommend its introduction into our scheme of sport, and possibly something to condemn it. We have heard it advanced that its encouragement might be detrimental to Cricket. Anything that would tend in any way to detract from the nobler game should be tabooed at once. The reputation that we have gained in it by years of devoted effort must not run the slightest risk of being tarnished. This we admit. But if the game of golf were hedged about with wise restrictions, such as, for example, an absolute veto during the Cricket season, might it not be admitted into our general favour? There are times in the year when it would be a rival of none, when we are pining for some outdoor amusement and none offers. In the early spring, there are some weeks when it would be a real boon, and again in the autumn, when football is dead. There are,

moreover the off-days in the football season, when the change to a more restful game would be beneficial. To boys with certain weaknesses, which debar them from more violent sport, golf would be a godsend at all seasons. After all, the great aim of School athletics seems to be, not so much to gain distinction in them—though that is very pleasant—as to interest every boy in some healthy sport. Close at hand, in the meadows beside Gage's creek, we have delightful links, where are to be found greens ready-made, beautiful soft turf, kept shorn by nibbling sheep, and plenty of bunkers with other delights. We should not therefore be surprised to see a flourishing Golf Club in our midst before long, gathering up the crumbs of time and opportunity let fall from the tables of cricket and football.

* * *

The festivities connected with the end of the Term will include the rendering of Carols by the choir, the Presentation of Prizes won at the Athletic Sports in October, a house supper and an informal dance. The holidays begin on Dec. 21st.

University of Toronto

MEDICAL FACULTY.

The regular course of instruction will consist of Four Sessions of eight months each, commencing September 30th.

There will be a distinct and separate course for each of the four years.

The lectures and demonstrations in the subjects of the First and Second years will be given in the Biological Laboratory and the lecture-rooms of the University.

Lectures and demonstrations in the subjects of the Third and Fourth years will be given in the building of the Medical Faculty corner of Gerrard and Sackville Streets.

To meet the requirements of the Ontario Medical Council a course of instruction during a fifth year will be conducted. This will be entirely optional as far as the University of Toronto is concerned.

Clinical Teaching (largely bedside) in the Toronto General Hospital, Burnside Lying-in Hospital, St. Michael's Hospital, Hospital for Sick Children, and other medical charities of Toronto.

FEES:

Lectures and Demonstrations: 1st year, \$100; 2nd year, \$100; 3rd year, \$100; 4th year, \$100. Registration for Lectures, \$5. Registration for Matriculation, \$7. Annual Examinations, each \$10. For Examination in Practical Chemistry 50c. For admission *ad eundem statum* \$10. Degree \$20. Hospital Perpetual Ticket, \$34. Lying-in Hospital, \$8.

R. A. REEVE, B. A., M. D.
Dean

A. PRIMROSE, M. B.
Secretary
Biological Department, University of Toronto

Port Hope Ladies 1900

THE PORT HOPE WEEKLY GUIDE, FRIDAY, JULY 6, 1900

GOLF.

While others were enjoying themselves in various ways, last Monday, the members of the Golf club were deeply interested in a game played between the ladies of Peterboro, under the captaincy of Miss Haliday, and the home team by Mrs. Burton. Shortly after ten the game began on our beautiful "links." Much interest was taken; hard and furious were the drives. Excitement in some instances ran high, and many magnificent shots were witnessed.

Miss Daisy Hamilton is to be congratulated on her game, as she was the only one who won for Peterboro. Mrs. Davidson, too, played a very fine game and prevented Mrs. Edgar from being a winner. This contest ended in a tie, in fact they kept even all the time. When all the returns were handed in, it was found the home team was fourteen (14) ahead.

The lunch provided reflected great credit to the reception committee, and was indeed thoroughly relished.

The Peterboro's have gone home determined to turn the tables when our club give them the return match, which will take place at an early date.

THE SCORE.

Peterboro ladies.		Port Hope ladies	
1. Miss Hamilton	1	Mrs. Thompson	0
2. Mrs. Campbell	0	Mrs. Pepler	3
3. Miss Haliday, capt	0	Mrs. Brown	8
4. Mrs. Davidson	0	Mrs. Edgar	0
5. Miss N. Hall	0	Mrs. Burton, cap	6
Total	1		15

Port Hope won by 14.

This whole earth I will own some day,
Then comes the dreadful doubt,
Suppose the tenants will not pay,
How shall I put them out?

Notices of Births, Marriages and Deaths
Fifty Cents.

DIED.

PARKER.—At Hinsdale, Ill., on Monday, June 25th, 1900, aged 71 years, Paul Barker.

SEASO

New Goods

DRESS SKIRTS
DAINTY BLOUSES
HOSIERY
STOCK COLLARS

FLAGS

In Canadian, British, Sc

JOHN WICKETT

FULFORD BROS S'

Dry Goods Importers,
CASH AND ONE PRICE

More

SUMM

WEEKLY GUIDE, FRIDAY, JULY 12 1907

ed men were running the affair. Tom gave all of the other starters one minute start and was somewhat surprised when a lad named Norman Flowers, whose home is at Caledonia, beat him home by a considerable margin. Flowers ran a great race and would have made the Indian go some even if they had started on even terms.

GOLF

On Thursday afternoon a number of the lady members of the Peterboro Golf Club visited Port Hope, and were the guests of the local club. Luncheon was served at noon and in the afternoon the match was played, resulting in a victory for the Port Hope ladies by twelve.

The teams and scores were as follows:

PORT HOPE		PETERBORO	
Mrs. Brown.....	3	Mrs. Hull.....	9
Miss Clark.....	3	Miss Clementi....	0
Miss Pepler.....	3	Miss P. Lundy....	0
Miss Hudspeeth...	0	Miss Moore.....	1
Miss G. Burnham	3	Miss Gwen Hall..	0
Mrs. Burton.....	3	Mrs. Hill.....	0
Mrs. Soames....	3	Mrs. Coulthard..	0
Mrs. Ralston....	1	Mrs. Gardiner....	0
Mrs. Edgar.....	0	Mrs. Alymer.....	3
Mrs. Bennett....	0	Mrs. Davidson....	3
	19		7

the maid placed it in the arms of its she and her husband and the three Sloeks returned to the pier and board ship, the gangplank was drawn in and moorings were cast off.

HIGH SCHOOL PROMOTION EXA

COMMERCIAL DIPLOMAS

IN ORDER OF MERIT

Honors—Victor Peacock, Gertie Mollie Angus.

Pass—Zita Rathe, Mary A. Grice Reed, Ruth Thompson, Chas. Fox, I. Rathe.

PROMOTIONS FROM FORM

IN ORDER OF MERIT

Honors—Harold H. Brown, Philp, Howard Thomas, Toot Sto Phyllis Rasmaden, Louis M. Honor.

Pass—Harry Aldrich, Florence son, Gerald Curran, Orville Bunn, Reeve, Jack Brown, Verna Maybee, Burnham, Fraser Smith, Olive W. Harry O'Brien, Alice McMillan, R. Walker, Harold Fogarty, Cora S. W.

Recommended—Reta Caldwell.

PROMOTIONS FROM FORM

COUNTERFEITERS

Appendix B

Aerial View 2015



FINAL REPORT

CA19890-MAY19 R1

G030235-B1, 73515972, Penryn Ph5

Prepared for

GHD Limited - 735

First Page

CLIENT DETAILS

Client GHD Limited - 735
 Address 347 Pido Rd., Unit #29
 Peterborough, ON
 K9J 6Z8. Canada
 Contact Shaun Shepherd
 Telephone 705-749-3317
 Facsimile
 Email shaun.shepherd@ghd.com
 Project G030235-B1, 73515972, Penryn Ph5
 Order Number
 Samples Soil (1)

LABORATORY DETAILS

Project Specialist Brad Moore Hon. B.Sc
 Laboratory SGS Canada Inc.
 Address 185 Concession St., Lakefield ON, K0L 2H0
 Telephone 705-652-2143
 Facsimile 705-652-6365
 Email brad.moore@sgs.com
 SGS Reference CA19890-MAY19
 Received 05/31/2019
 Approved 06/11/2019
 Report Number CA19890-MAY19 R1
 Date Reported 06/11/2019

COMMENTS

CCME Method Compliance: Analyses were conducted using analytical procedures that comply with the Reference Method for the CWS for Petroleum Hydrocarbons in Soil and have been validated for use at the SGS laboratory, Lakefield, ON site.

Quality Compliance: Instrument performance / calibration quality criteria were met and extraction and analysis limits for holding times were met.

nC6 and nC10 response factors within 30% of response factor for toluene: YES

nC10, nC16 and nC34 response factors within 10% of the average response for the three compounds: YES

C50 response factors within 70% of nC10 + nC16 + nC34 average: YES

Linearity is within 15%: YES

F4G - gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.

The results for F4 and F4G are both reported and the greater of the two values is to be used in application to the CWS PHC.

Hydrocarbon results are expressed on a dry weight basis.

Temperature of Sample upon Receipt: 10 degrees C

Cooling Agent Present: Yes

Custody Seal Present: No

Chain of Custody Number: 005993

For CR(VI) possible poor homogeneity of sample (sample #9 0.5 and 0.3) causes the RPD to fall outside of acceptance criteria. Reported the higher value. All other QC fine

SIGNATORIES

Brad Moore Hon. B.Sc



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FINAL REPORT

CA19890-MAY19 R1

Client: GHD Limited - 735

Project: G030235-B1, 73515972, Penryn Ph5

Project Manager: Shaun Shepherd

Samplers: Shaun Shepherd

PACKAGE: **REG153 - BTEX (SOIL)**

Sample Number 9
Sample Name TP-1, GS-1
Sample Matrix Soil
Sample Date 30/05/2019

L1 = REG153 / SOIL / FINE - TABLE 2 - Residential/Parkland - UNDEFINED

Parameter	Units	RL	L1	Result
BTEX				
Benzene	µg/g	0.02	0.17	< 0.02
Ethylbenzene	µg/g	0.05	1.6	< 0.05
Toluene	µg/g	0.05	6	< 0.05
Xylene (total)	µg/g	0.05	25	< 0.05
m/p-xylene	µg/g	0.05		< 0.05
o-xylene	µg/g	0.05		< 0.05

PACKAGE: **REG153 - Hydrides (SOIL)**

Sample Number 9
Sample Name TP-1, GS-1
Sample Matrix Soil
Sample Date 30/05/2019

L1 = REG153 / SOIL / FINE - TABLE 2 - Residential/Parkland - UNDEFINED

Parameter	Units	RL	L1	Result
Hydrides				
Antimony	µg/g	0.8	7.5	< 0.8
Arsenic	µg/g	0.5	18	1.3
Selenium	µg/g	0.7	2.4	< 0.7



FINAL REPORT

CA19890-MAY19 R1

Client: GHD Limited - 735

Project: G030235-B1, 73515972, Penryn Ph5

Project Manager: Shaun Shepherd

Samplers: Shaun Shepherd

PACKAGE: REG153 - Metals and Inorganics (SOIL)

Sample Number 9
Sample Name TP-1, GS-1
Sample Matrix Soil
Sample Date 30/05/2019

L1 = REG153 / SOIL / FINE - TABLE 2 - Residential/Parkland - UNDEFINED

Parameter	Units	RL	L1	Result
Metals and Inorganics				
Moisture Content	%	-		19.0
Barium	µg/g	0.1	390	31
Beryllium	µg/g	0.02	5	0.33
Boron	µg/g	1	120	2
Cadmium	µg/g	0.02	1.2	0.07
Chromium	µg/g	0.5	160	11
Cobalt	µg/g	0.01	22	3.1
Copper	µg/g	0.1	180	3.4
Lead	µg/g	0.1	120	4.1
Molybdenum	µg/g	0.1	6.9	0.1
Nickel	µg/g	0.5	130	6.1
Silver	µg/g	0.05	25	< 0.05
Thallium	µg/g	0.02	1	0.05
Uranium	µg/g	0.002	23	0.47
Vanadium	µg/g	3	86	21
Zinc	µg/g	0.7	340	28
Water Soluble Boron	µg/g	0.5	1.5	< 0.5



FINAL REPORT

CA19890-MAY19 R1

Client: GHD Limited - 735

Project: G030235-B1, 73515972, Penryn Ph5

Project Manager: Shaun Shepherd

Samplers: Shaun Shepherd

PACKAGE: **REG153 - Other (ORP) (SOIL)**

Sample Number 9
Sample Name TP-1, GS-1
Sample Matrix Soil
Sample Date 30/05/2019

L1 = REG153 / SOIL / FINE - TABLE 2 - Residential/Parkland - UNDEFINED

Parameter	Units	RL	L1	Result
Other (ORP)				
Mercury	µg/g	0.05	1.8	< 0.05
Sodium Adsorption Ratio	---	0.2	5	< 0.2
SAR Calcium	mg/L	0.09		16.6
SAR Magnesium	mg/L	0.02		1.0
SAR Sodium	mg/L	0.15		0.85
Conductivity	mS/cm	0.002	0.7	0.09
pH	pH Units	0.05		6.77
Chromium VI	µg/g	0.2	10	0.5
Free Cyanide	µg/g	0.05		< 0.05



FINAL REPORT

CA19890-MAY19 R1

Client: GHD Limited - 735

Project: G030235-B1, 73515972, Penryn Ph5

Project Manager: Shaun Shepherd

Samplers: Shaun Shepherd

PACKAGE: **REG153 - PHCs (SOIL)**

Sample Number 9
Sample Name TP-1, GS-1
Sample Matrix Soil
Sample Date 30/05/2019

L1 = REG153 / SOIL / FINE - TABLE 2 - Residential/Parkland - UNDEFINED

Parameter	Units	RL	L1	Result
PHCs				
F1 (C6-C10)	µg/g	10	65	< 10
F1-BTEX (C6-C10)	µg/g	10		< 10
F2 (C10-C16)	µg/g	10	150	< 10
F3 (C16-C34)	µg/g	50	1300	< 50
F4 (C34-C50)	µg/g	50	5600	< 50
Chromatogram returned to baseline at nC50	Yes / No	-		YES

PACKAGE: **REG153 - THMs (VOC) (SOIL)**

Sample Number 9
Sample Name TP-1, GS-1
Sample Matrix Soil
Sample Date 30/05/2019

L1 = REG153 / SOIL / FINE - TABLE 2 - Residential/Parkland - UNDEFINED

Parameter	Units	RL	L1	Result
THMs (VOC)				
Bromodichloromethane	µg/g	0.05	1.9	< 0.05
Bromoform	µg/g	0.05	0.26	< 0.05
Dibromochloromethane	µg/g	0.05	2.9	< 0.05



FINAL REPORT

CA19890-MAY19 R1

Client: GHD Limited - 735

Project: G030235-B1, 73515972, Penryn Ph5

Project Manager: Shaun Shepherd

Samplers: Shaun Shepherd

PACKAGE: REG153 - VOC Surrogates (SOIL)

Sample Number 9
Sample Name TP-1, GS-1
Sample Matrix Soil
Sample Date 30/05/2019

L1 = REG153 / SOIL / FINE - TABLE 2 - Residential/Parkland - UNDEFINED

Parameter	Units	RL	L1	Result
VOC Surrogates				
Surr 1,2-Dichloroethane-d4	Surr Rec %	-		89
Surr 4-Bromofluorobenzene	Surr Rec %	-		89
Surr 2-Bromo-1-Chloropropane	Surr Rec %	-		87

PACKAGE: REG153 - VOCs (SOIL)

Sample Number 9
Sample Name TP-1, GS-1
Sample Matrix Soil
Sample Date 30/05/2019

L1 = REG153 / SOIL / FINE - TABLE 2 - Residential/Parkland - UNDEFINED

Parameter	Units	RL	L1	Result
VOCs				
Acetone	µg/g	0.5	28	< 0.5
Bromomethane	µg/g	0.05	0.05	< 0.05
Carbon tetrachloride	µg/g	0.05	0.12	< 0.05
Chlorobenzene	µg/g	0.05	2.7	< 0.05
Chloroform	µg/g	0.05	0.18	< 0.05
1,2-Dichlorobenzene	µg/g	0.05	1.7	< 0.05
1,3-Dichlorobenzene	µg/g	0.05	6	< 0.05
1,4-Dichlorobenzene	µg/g	0.05	0.097	< 0.05
Dichlorodifluoromethane	µg/g	0.05	25	< 0.05
1,1-Dichloroethane	µg/g	0.05	0.6	< 0.05
1,2-Dichloroethane	µg/g	0.05	0.05	< 0.05
1,1-Dichloroethylene	µg/g	0.05	0.05	< 0.05
trans-1,2-Dichloroethylene	µg/g	0.05	0.75	< 0.05



FINAL REPORT

CA19890-MAY19 R1

Client: GHD Limited - 735

Project: G030235-B1, 73515972, Penryn Ph5

Project Manager: Shaun Shepherd

Samplers: Shaun Shepherd

PACKAGE: REG153 - VOCs (SOIL)

Sample Number 9
Sample Name TP-1, GS-1
Sample Matrix Soil
Sample Date 30/05/2019

L1 = REG153 / SOIL / FINE - TABLE 2 - Residential/Parkland - UNDEFINED

Parameter	Units	RL	L1	Result
VOCs (continued)				
cis-1,2-Dichloroethylene	µg/g	0.05	2.5	< 0.05
1,2-Dichloropropane	µg/g	0.05	0.085	< 0.05
cis-1,3-dichloropropene	µg/g	0.03		< 0.03
trans-1,3-dichloropropene	µg/g	0.03		< 0.03
1,3-dichloropropene (total)	µg/g	0.05	0.081	< 0.05
Ethylenedibromide	µg/g	0.05	0.05	< 0.05
n-Hexane	µg/g	0.05	34	< 0.05
Methyl ethyl ketone	µg/g	0.5	44	< 0.5
Methyl isobutyl ketone	µg/g	0.5	4.3	< 0.5
Methyl-t-butyl Ether	µg/g	0.05	1.4	< 0.05
Methylene Chloride	µg/g	0.05	0.96	< 0.05
Styrene	µg/g	0.05	2.2	< 0.05
Tetrachloroethylene	µg/g	0.05	2.3	< 0.05
1,1,1,2-Tetrachloroethane	µg/g	0.05	0.05	< 0.05
1,1,2,2-Tetrachloroethane	µg/g	0.05	0.05	< 0.05
1,1,1-Trichloroethane	µg/g	0.05	3.4	< 0.05
1,1,2-Trichloroethane	µg/g	0.05	0.05	< 0.05
Trichloroethylene	µg/g	0.05	0.52	< 0.05
Trichlorofluoromethane	µg/g	0.05	5.8	< 0.05
Vinyl Chloride	µg/g	0.02	0.022	< 0.02

EXCEEDANCE SUMMARY

No exceedances are present above the regulatory limit(s) indicated



FINAL REPORT

CA19890-MAY19 R1

QC SUMMARY

Conductivity

Method: EPA 6010/SM 2510 | Internal ref.: ME-CA-IENVIEWL-LAK-AN-006

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Conductivity	EWL0020-JUN19	mS/cm	0.002	<0.002	0	10	99	90	110	NA		

Cyanide by SFA

Method: SM 4500 | Internal ref.: ME-CA-IENVISFA-LAK-AN-005

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Free Cyanide	SKA5000-JUN19	µg/g	0.05	<0.05	NV	20	97	80	120	100	75	125

Hexavalent Chromium by IC

Method: EPA218.6/EPA3060A | Internal ref.: ME-CA-IENVIIC-LAK-AN-008

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Chromium VI	DIO0027-JUN19	µg/g	0.2	<0.2	50	20	106	80	120	97	75	125

QC SUMMARY

Mercury by CVAAS

Method: EPA 7471A/EPA 245 | Internal ref.: ME-CA-IENVISPE-LAK-AN-004

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Mercury	EMS0007-JUN19	µg/g	0.05	<0.05	ND	20	102	80	120	95	70	130

Metals in aqueous samples - ICP-OES

Method: MOE 4696e01/EPA 6010 | Internal ref.: ME-CA-IENVISPE-LAK-AN-003

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
SAR Calcium	ESG0005-JUN19	mg/L	0.09	<0.09	3	20	92	80	120	NV	70	130
SAR Magnesium	ESG0005-JUN19	mg/L	0.02	<0.02	1	20	93	80	120	NV	70	130
SAR Sodium	ESG0005-JUN19	mg/L	0.15	<0.15	4	20	91	80	120	NV	70	130



FINAL REPORT

CA19890-MAY19 R1

QC SUMMARY

Metals in Soil - Aqua-regia/ICP-MS

Method: EPA 3050/EPA 200.8 | Internal ref.: ME-CA-IENVISPE-LAK-AN-005

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Silver	EMS0007-JUN19	ug/g	0.05	<0.05	ND	20	98	70	130	97	70	130
Arsenic	EMS0007-JUN19	µg/g	0.5	<0.5	4	20	102	70	130	100	70	130
Barium	EMS0007-JUN19	ug/g	0.1	<0.1	4	20	104	70	130	99	70	130
Beryllium	EMS0007-JUN19	µg/g	0.02	<0.02	3	20	99	70	130	93	70	130
Boron	EMS0007-JUN19	µg/g	1	<1	7	20	109	70	130	89	70	130
Cadmium	EMS0007-JUN19	µg/g	0.02	<0.02	16	20	102	70	130	105	70	130
Cobalt	EMS0007-JUN19	µg/g	0.01	<0.01	1	20	103	70	130	109	70	130
Chromium	EMS0007-JUN19	µg/g	0.5	<0.5	3	20	107	70	130	114	70	130
Copper	EMS0007-JUN19	µg/g	0.1	<0.1	4	20	105	70	130	106	70	130
Molybdenum	EMS0007-JUN19	µg/g	0.1	<0.1	ND	20	102	70	130	107	70	130
Nickel	EMS0007-JUN19	ug/g	0.5	<0.5	2	20	105	70	130	113	70	130
Lead	EMS0007-JUN19	ug/g	0.1	<0.1	2	20	102	70	130	105	70	130
Antimony	EMS0007-JUN19	µg/g	0.8	<0.8	ND	20	104	70	130	104	70	130
Selenium	EMS0007-JUN19	µg/g	0.7	<0.7	ND	20	104	70	130	103	70	130
Thallium	EMS0007-JUN19	µg/g	0.02	<0.02	ND	20	102	70	130	107	70	130
Uranium	EMS0007-JUN19	µg/g	0.002	<0.002	0	20	99	70	130	99	70	130
Vanadium	EMS0007-JUN19	µg/g	3	<3	1	20	104	70	130	108	70	130
Zinc	EMS0007-JUN19	µg/g	0.7	<0.7	3	20	104	70	130	108	70	130

QC SUMMARY

Petroleum Hydrocarbons (F1)

Method: CCME Tier 1 | Internal ref.: ME-CA-IENVIGC-LAK-AN-010

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
F1 (C6-C10)	GCM0008-JUN19	µg/g	10	<10	ND	30	98	80	120	104	60	140

Petroleum Hydrocarbons (F2-F4)

Method: CCME Tier 1 | Internal ref.: ME-CA-IENVIGC-LAK-AN-010

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
F2 (C10-C16)	GCM0021-JUN19	µg/g	10	<10	ND	30	97	80	120	91	60	140
F3 (C16-C34)	GCM0021-JUN19	µg/g	50	<50	ND	30	97	80	120	91	60	140
F4 (C34-C50)	GCM0021-JUN19	µg/g	50	<50	ND	30	97	80	120	91	60	140

QC SUMMARY

pH

Method: SM 4500 | Internal ref.: ME-CA-ENVIEWL-LAK-AN-001

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
pH	ARD0002-JUN19	pH Units	0.05		1	20	101	80	120			

QC SUMMARY

Volatile Organics

Method: EPA 5035A/5030B/8260C | Internal ref.: ME-CA-IENVIGC-LAK-AN-004

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
1,1,1,2-Tetrachloroethane	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	86	60	130	104	50	140
1,1,1-Trichloroethane	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	77	60	130	97	50	140
1,1,2,2-Tetrachloroethane	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	88	60	130	91	50	140
1,1,2-Trichloroethane	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	85	60	130	90	50	140
1,1-Dichloroethane	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	74	60	130	91	50	140
1,1-Dichloroethylene	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	65	60	130	85	50	140
1,2-Dichlorobenzene	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	90	60	130	103	50	140
1,2-Dichloroethane	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	82	60	130	89	50	140
1,2-Dichloropropane	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	84	60	130	99	50	140
1,3-Dichlorobenzene	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	90	60	130	107	50	140
1,4-Dichlorobenzene	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	90	60	130	105	50	140
Acetone	GCM0007-JUN19	µg/g	0.5	< 0.5	ND	50	76	50	140	71	50	140
Benzene	GCM0007-JUN19	µg/g	0.02	< 0.02	ND	50	82	60	130	101	50	140
Bromodichloromethane	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	84	60	130	96	50	140
Bromoform	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	85	60	130	90	50	140
Bromomethane	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	89	50	140	86	50	140
Carbon tetrachloride	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	81	60	130	101	50	140
Chlorobenzene	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	87	60	130	107	50	140
Chloroform	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	83	60	130	100	50	140
cis-1,2-Dichloroethylene	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	82	60	130	98	50	140

QC SUMMARY

Volatile Organics (continued)

Method: EPA 5035A/5030B/8260C | Internal ref.: ME-CA-IENVIGC-LAK-AN-004

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
cis-1,3-dichloropropene	GCM0007-JUN19	µg/g	0.03	< 0.03	ND	50	84	60	130	91	50	140
Dibromochloromethane	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	86	60	130	92	50	140
Dichlorodifluoromethane	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	72	50	140	80	50	140
Ethylbenzene	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	88	60	130	113	50	140
Ethylenedibromide	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	87	60	130	89	50	140
n-Hexane	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	72	60	130	90	50	140
m/p-xylene	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	89	60	130	114	50	140
Methyl ethyl ketone	GCM0007-JUN19	µg/g	0.5	< 0.5	ND	50	82	50	140	78	50	140
Methyl isobutyl ketone	GCM0007-JUN19	µg/g	0.5	< 0.5	ND	50	84	50	140	82	50	140
Methyl-t-butyl Ether	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	80	60	130	84	50	140
Methylene Chloride	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	60	60	130	69	50	140
o-xylene	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	88	60	130	112	50	140
Styrene	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	89	60	130	109	50	140
Tetrachloroethylene	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	87	60	130	108	50	140
Toluene	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	85	60	130	105	50	140
trans-1,2-Dichloroethylene	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	68	60	130	83	50	140
trans-1,3-dichloropropene	GCM0007-JUN19	µg/g	0.03	< 0.03	ND	50	84	60	130	91	50	140
Trichloroethylene	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	83	60	130	104	50	140
Trichlorofluoromethane	GCM0007-JUN19	µg/g	0.05	< 0.05	ND	50	80	50	140	98	50	140
Vinyl Chloride	GCM0007-JUN19	µg/g	0.02	< 0.02	ND	50	78	50	140	93	50	140

QC SUMMARY

Water Soluble Boron

Method: O.Reg. 153/04 | Internal ref.: ME-CA-IENVI SPE-LAK-AN-003

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Water Soluble Boron	ESG0004-JUN19	µg/g	0.5	<0.5	ND	20	100	80	120	107	70	130

Method Blank: a blank matrix that is carried through the entire analytical procedure. Used to assess laboratory contamination.

Duplicate: Paired analysis of a separate portion of the same sample that is carried through the entire analytical procedure. Used to evaluate measurement precision.

LCS/Spike Blank: Laboratory control sample or spike blank refer to a blank matrix to which a known amount of analyte has been added. Used to evaluate analyte recovery and laboratory accuracy without sample matrix effects.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate laboratory accuracy with sample matrix effects.

Reference Material: a material or substance matrix matched to the samples that contains a known amount of the analyte of interest. A reference material may be used in place of a matrix spike.

RL: Reporting limit

RPD: Relative percent difference

AC: Acceptance criteria

Multielement Scan Qualifier: as the number of analytes in a scan increases, so does the chance of a limit exceedance by random chance as opposed to a real method problem. Thus, in multielement scans, for the LCS and matrix spike, up to 10% of the analytes may exceed the quoted limits by up to 10% absolute and the spike is considered acceptable.

Duplicate Qualifier: for duplicates as the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL.

Matrix Spike Qualifier: for matrix spikes, as the concentration of the native analyte increases, the uncertainty of the matrix spike recovery increases. Thus, the matrix spike acceptance limits apply only when the concentration of the matrix spike is greater than or equal to the concentration of the native analyte.

LEGEND

FOOTNOTES

NSS Insufficient sample for analysis.
RL Reporting Limit.
 ↑ Reporting limit raised.
 ↓ Reporting limit lowered.
NA The sample was not analysed for this analyte
ND Non Detect

Samples analysed as received. Solid samples expressed on a dry weight basis. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

Analysis conducted on samples submitted pursuant to or as part of Reg. 153/04, are in accordance to the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act" published by the Ministry and dated March 9, 2004 as amended.

SGS provides criteria information (such as regulatory or guideline limits and summary of limit exceedances) as a service. Every attempt is made to ensure the criteria information in this report is accurate and current, however, it is not guaranteed. Comparison to the most current criteria is the responsibility of the client and SGS assumes no responsibility for the accuracy of the criteria levels indicated. This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents.

This report must not be reproduced, except in full. This report supersedes all previous versions.

-- End of Analytical Report --

<p>Received By: <u>K. Shepherd</u> Received Date (mm/dd/yyyy): <u>05/31/19</u> (mm/dd/yyyy) Received Time: <u>09:00</u></p> <p>Received By (signature): <u>[Signature]</u> Custody Seal Present: <input type="checkbox"/> No <input type="checkbox"/> Yes Custody Seal Intact: <input type="checkbox"/> No <input type="checkbox"/> Yes</p> <p>Project #: <u>G030235-B1</u> Site Location/ID: <u>Peaxy Ph. 5</u></p> <p>Quotation #: _____ P.O. #: _____</p> <p>Project #: <u>G030235-B1</u> Site Location/ID: <u>Peaxy Ph. 5</u></p> <p>Regular TAT (5-7days) <input checked="" type="checkbox"/> Regular TAT (5-7days) RUSH TAT (Additional Charges May Apply): <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input type="checkbox"/> 4 Days PLEASE CONFIRM RUSH FEASIBILITY WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION</p> <p>Specify Due Date: _____ Rush Confirmation ID: _____</p> <p>NOTE: DRINKING (POTABLE) WATER SAMPLES FOR HUMAN CONSUMPTION MUST BE SUBMITTED WITH SGS DRINKING WATER CHAIN OF CUSTODY</p>	<p>Company: <u>GHD Ltd.</u> Contact: <u>Shaun Shepherd</u> Address: <u>29-347 Pido Rd.</u> <u>Peterborough, ON, K9J 6X7</u> Phone: <u>(705) 761-8927</u> Email: <u>Shaun.shepherd@ghd.com</u> Email: <u>GHD.com</u></p> <p>REGULATIONS</p> <p>Other Regulations: <input type="checkbox"/> Reg 347/558 (3 Day min TAT) <input checked="" type="checkbox"/> NO <input type="checkbox"/> PWQO <input type="checkbox"/> MMR <input type="checkbox"/> CCME <input type="checkbox"/> MISA <input type="checkbox"/> Sanitary <input type="checkbox"/> Storm Municipality:</p> <p>Soil Texture: <input type="checkbox"/> R/P/I <input type="checkbox"/> I/C/G <input type="checkbox"/> A/O <input checked="" type="checkbox"/> Fine <input type="checkbox"/> Coarse <input type="checkbox"/> Medium</p> <p>REGISTRATION: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>	<p>REPORT INFORMATION</p> <p><input checked="" type="checkbox"/> (same as Report Information)</p> <p>Company: _____ Contact: _____ Address: _____ Phone: _____ Email: _____</p> <p>INVOICE INFORMATION</p> <p>Project #: <u>G030235-B1</u> Site Location/ID: <u>Peaxy Ph. 5</u></p> <p>Regular TAT (5-7days) <input checked="" type="checkbox"/> Regular TAT (5-7days) RUSH TAT (Additional Charges May Apply): <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input type="checkbox"/> 4 Days PLEASE CONFIRM RUSH FEASIBILITY WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION</p> <p>Specify Due Date: _____ Rush Confirmation ID: _____</p> <p>NOTE: DRINKING (POTABLE) WATER SAMPLES FOR HUMAN CONSUMPTION MUST BE SUBMITTED WITH SGS DRINKING WATER CHAIN OF CUSTODY</p>																																																																	
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