

October 25, 2021
File: PE4387-LET.02

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Subject: **Response to City Comments**
Re: Phase I ESA (Report PE4387-1)
5510 Boundary Road
Ottawa, Ontario

www.patersongroup.ca

Dear Sir/Madame,

Paterson Group (Paterson) has prepared this letter in response to the comment issued by the City of Ottawa (City) regarding the 5494 and 5510 Boundary Road, Ottawa, Ontario. Specifically, the responses addressed herein pertain to the comments about the Phase I Environmental Site Assessment Report (Comments 1 through 16).

Phase I ESA Comments

City Comment 1.

The Executive Summary in the Phase I ESA report refers to a Phase II ESA to confirm a non-APEC. A copy of the report needs to be submitted.

Paterson's Response 1.

Please refer to the attached Phase I ESA revised report (PE4387-1R), for clarification as well as the Phase II ESA/Fill Quality Assessment Report (PE4387-LET.01R)

City Comment 2.

It is not clear why the APEC was reviewed when Table 1 declares that there are no APECs.

Paterson's Response 2.

Please refer to the attached Phase I ESA revised report (PE4387-1R), for clarification regarding the non-APEC.

It should be noted that the Phase I ESA investigation identified fill material as a PCA. Paterson conducted a subsurface program to assess the quality of fill material, which has been addressed in the Phase II ESA report, appended to this letter.

City Comment 3.

Please change references MOECC to MECP in the reports.

Paterson's Response 3.

Please refer to the attached Phase I ESA revised report (PE4387-1R) and Fill Quality Assessment (PE4387-LET.01R) Reports for the amended changes.

City Comment 4.

An interview with someone familiar with the history of the site is required for Section 5.0.

Paterson's Response 4.

Mr. Michel Pilon (5510 Boundary Road) and Mr. Lesile Kern (5494 Boundary Road) were considered in Section 5.0, based on their knowledge of the Phase I Property. As discussed in the revised Phase I ESA report, the previous landowners (Pomerleau Excavation Ltd. and Mr. Lesile Kern) have owned the property for at least 20 years. The previous landowners (prior to Pomerleau Excavation and Mr. Kern) are not known and as such, any information not discussed in Section 5.0 dating back to 2001 is not available.

City Comment 5.

The comments of the first paragraph below the heading "Site Features" on page 12 require more discussion.

Paterson's Response 5.

Please refer to the attached Phase I ESA Revised (PE4387-1R) for amended changes.

City Comment 6.

The comments of the first paragraph below the heading "7. Land Use History" on page 1 require more discussion.

Paterson's Response 6.

Please refer to the attached Phase I ESA revised report (PE4387-1R) for amended changes.

City Comment 7.

The Phase II ESA is discussed in Section 7.1, page 16, however, it is not provided and as such, it cannot be verified.

Paterson's Response 7.

Please refer to the attached Phase II ESA (PE4387-LET.01).

City Comment 8.

The fill material in Section 7.2 needs to be discussed further.

Paterson's Response 8.

Please refer to the attached Phase I ESA revised report (PE4387-1R) for amended changes as well as the Phase II ESA report.

City Comment 9.

The variety of the independent sources need to be stated at the end of Section 7.2 (page 19) and verified.

Paterson's Response 9.

Please refer to the attached Phase I ESA Revised (PE4387-1R) for amended changes.

City Comment 10.

The statement 'down-gradient,' used variously in the report requires multiple bases to support rational.

Paterson's Response 10.

Based on a "Geological, Hydrogeology and Geotechnical Report, Capital Region Resource Recovery Centre (CRRRC)," prepared by Golder Associates, dated December 2014. The groundwater in the area flows in a northeasterly direction. The topography in the immediate area confirms the groundwater flows in the directions specified above.

City Comment 11.

It is suggested that the septic system be added to the recommendations.

Paterson's Response 11.

The septic system is not relevant to the finding of the Phase I ESA.

City Comment 12.

Photograph 3 (Appendix 1) is of concern.

Paterson's Response 12.

The fill and demolition debris on-site has been discussed and addressed by the subsurface investigation (Phase II ESA) to assess the quality of the fill material. Please refer to the attached Phase II ESA (PE4387-LET.01).

City Comment 13.

Photograph 6 (Appendix 1) is of concern.

Paterson's Response 13.

It is our opinion that the steel remnants are not considered a potential environmental concern to the Phase I Property.

City Comment 14.

Photograph 7 (Appendix 1) is of concern.

Paterson's Response 14.

It is our opinion that the construction waste bin is not considered a potential environmental concern to the Phase I Property.

City Comment 15.

Photograph 12 (Appendix 1) is of concern.

Paterson's Response 15.

It is our opinion that the 2-storey residential dwelling is not considered a potential environmental concern to the Phase I Property.

City Comment 16.

Photograph 14 (Appendix 1) shows a septic system that was not given a condition assessment.

Paterson's Response 16.

The condition of the septic system is not relevant to the findings of the Phase I ESA.

We trust this information satisfies your requirements.

Paterson Group Inc.



Mandy Witteman, B.Eng., M.A.Sc.



Mark D'Arcy, P.Eng., QP_{ESA}



Attachment:

- Phase I ESA Report Revised (PE4387-1R)
- Fill Quality Assessment Report (Phase II ESA)



Geotechnical
Engineering

Environmental
Engineering

Hydrogeology

Geological
Engineering

Materials Testing

Building Science

Phase I Environmental Site Assessment

5494 and 5510 Boundary Road
Ottawa, Ontario

Prepared For

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October 20, 2021

Report: PE4387-1R

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EXECUTIVE SUMMARY

Assessment

A Phase I – Environmental Site Assessment was carried out for the properties addressed 5494 and 5510 Boundary Road, in the City of Ottawa, Ontario. The purpose of this environmental assessment was to research the past and current use of the Phase I Property and Study Area and identify any environmental concerns with the potential to impact the subject property.

Based on a review of available historical sources, the subject site, addressed 5494 Boundary Road was first developed in 1979 with the current homestead. The subject site addressed 5510 Boundary Road was first developed in the early 1960's with what appears to be a homestead. However, in the late 1990's the property was redeveloped and stripped of any structures. Based on aerial photographs, sand was excavated from 5510 Boundary Road and subsequently infilled. Paterson completed a fill quality assessment to address fill material on-site. The laboratory results identified PHC and/or PAH impacted fill material on the Phase I Property, which were considered to be the result of asphaltic concrete in the fill. Recommendations have been provided in the Phase II ESA letter report.

Historical research indicates that the surrounding properties, although many still vacant lots, have been used for light to medium industrial purposes with some residential use. Five (5) potentially contaminating activities (PCAs) were identified on the surrounding lands to the east, across Boundary Road. Based on the separation distance and/or orientation (down-gradient) from the subject property, these PCAs are considered to pose very low risk to the Phase I Property, and therefore are not considered to represent APECs.

Following the historical review, a site assessment was conducted for the Phase I Property and surrounding lands. Current use of the subject property and surrounding lands are considered to pose low risk for reasons previously discussed. Based on the above information, it is our opinion that no further work is required for the Phase I Property at this time.

Recommendations

It is expected that the residential dwelling addressed 5494 Boundary Road will be demolished during future site redevelopment.

In addition, if the domestic well is not to be used in the future then it should be abandoned according to Ontario Regulation 903. Further information can be provided upon request in this regard.

1.0 INTRODUCTION

At the request of Avenue 31 Capital Inc., acting on behalf of Day & Ross, Paterson Group (Paterson) conducted a Phase I - Environmental Site Assessment (Phase I ESA) for the Phase I Properties addressed 5510 and 5494 Boundary Road, in the City of Ottawa, Ontario. The purpose of this Phase I ESA was to research the past and current use of the Phase I Property (5510 and 5494 Boundary Road) and Phase I Study Area and to identify any environmental concerns with the potential to have impacted the subject properties.

Paterson was engaged to conduct this Phase I ESA by Mr. Michel Pilon of Avenue 31 Capital Inc. Mr. Pilon can be reached by telephone at (613) 850-3132.

This report has been prepared specifically and solely for the above noted project which is described herein. It contains all of our findings and results of the environmental conditions at this site.

This Phase I ESA report has been prepared in under the supervision of a Qualified Person (QP_{ESA}), general accordance with the requirements of Ontario Regulation 153/04 as amended by O.Reg. 269/11 (Environmental Protection Act), and also complies with the requirements of CSA Z768-01. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I ESA are based on a review of readily available geological, historical and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as local, provincial and federal agencies and was limited within the scope-of-work, time and budget of the project herein.

2.0 PHASE I PROPERTY INFORMATION

Addresses: 5494 Boundary Road and 5510 Boundary Road, in Ottawa, Ontario.

Legal Description: Part of Lot 1, Concession 9, Ottawa River Front Gloucester Township, in the City of Ottawa, Ontario.

Property Identification Number (PIN): 04324-0161, 04324-0177 and 04324-0178

Location: The Phase I Property is situated on the east side of Boundary Road, just south of Highway 417, in the City of Ottawa, Ontario. Refer to Figure 1 – Key Plan for the site location.

Latitude and Longitude: 45°20' 18" N, 75° 26' 33.8" W;
45°20' 24" N, 75° 26' 30" W

Site Description:

Configuration: Rectangular (approximate)

Site Area: 8.45 ha (approximate)

Zoning: RH1 – Rural Heavy Industrial Zone (5510 Boundary Road)

RU – Rural Countryside Zone (5494 Boundary Road)

Current Use: The parcel of land, addressed 5510 Boundary Road is undeveloped land that has been used as a fill handling site. The other parcel of land addressed 5494 Boundary Road is used as a residential property.

Services: The Phase I Property is situated in a privately serviced area.

3.0 SCOPE OF INVESTIGATION

The scope of work for this Phase I – Environmental Site Assessment was as follows:

- Determine the historical activities on the subject site and study area by conducting a review of readily available records, reports, photographs, plans, mapping, databases and regulatory agencies;
- Investigate the existing conditions present at the subject site and study area by conducting site reconnaissance;
- Conduct interviews with persons knowledgeable of current and historic operations on the subject property, and if warranted, neighbouring properties;
- Present the results of our findings in a comprehensive report in general accordance with the requirements of Ontario Regulation 269/11 amending O.Reg. 153/04 made under the Environmental Protection Act and in compliance with the requirements of CSA Z768-01;
- Provide a preliminary environmental site evaluation based on our findings;
- Provide preliminary remediation recommendations and further investigative work if contamination is suspected or encountered.

4.0 RECORDS REVIEW

4.1 General

Phase I ESA Study Area Determination

A radius of approximately 250 m was determined to be appropriate as a Phase I ESA study area for this assignment. Properties outside the 250 m radius are not considered to have impacted the subject land, based on their significant distance from the site.

First Developed Use Determination

Based on a review of historical information, the northern portion of the Phase I Property addressed 5494 Boundary Road was originally developed with a single-family dwelling circa late 1970s. The southern portion of the Phase I Property addressed 5510 Boundary Road was originally developed with a single-family dwelling circa early 1960s.

Fire Insurance Plans

Fire insurance plans are not available for the Phase I Property or Study Area.

City of Ottawa Street Directories

City directories for the Phase I Property and Study Area were reviewed at the National Archives, in approximate 10-year intervals, from 1986 through 2011.

The portion of the Phase I Property addressed 5510 Boundary Road has never been developed and is unlisted. The second subject property addressed 5494 Boundary Road has been listed as residential since 1980.

Based on a review of the City directories, five (5) off-site potentially contaminating activities (PCAs) were identified, as presented in Table 1. All of the PCAs are situated to the east across Boundary Road. Based on information in our files (as discussed later), the groundwater flows eastward in this area. Given the nature of the PCAs and their distances and/or downgradient locations with respect to the subject land, none of the PCAs are considered to represent an area of potential environmental concern (APEC) on the site. The PCAs that have been identified are presented on Drawing PE4387-2 – Surrounding Land Use Plan.

Table 1: City Directories – PCAs in Phase I Study Area				
Address	Listed Activity	Years Listed	Approximate Distance / Orientation from Site	APEC (Y / N)
Boundary Road				
5425, 5455	Pomerleau Sand and Topsoil Yard Pomerleau Excavations	1992-2011	28 m NE	N
5507	Rene`s Steel & Welding Inc. metal works	1992-2011	20 m SE	N
5495	Luso Gas PK Auto Repair Car Garantiers (Auto repair)	1995-2005 1996-1998 1998-2011	20 m E	N
Indcum Road				
145	Power Asphalt Corporation (Lumber handling facility)	1992-2011	50 m E	N
140	Western Signs and Line Painting	2000-2011	130 m SE	N

It should be noted that while some of the PCA properties are quite close to the subject site; they are downgradient relative to the Phase I Property, and as such, they are not considered to represent APECs on the Phase I Property.

Engineering Reports

The following report was reviewed for this assessment:

- ❑ “Volume III: Geological, Hydrogeology and Geotechnical Report, Capital Region Resource Recovery Centre (CRRRC),” prepared by Golder Associates, dated December 2014.

The proposed CRRRC is situated east, surrounding the aforementioned PCA properties. Based on the extensive investigation work, the groundwater flow of the various aquifers has been determined to be to the east and northeast direction.

Plan of Subdivision

A Plan has been prepared by Hachard Engineering, dated July 12, 2018 and was reviewed as part of this assessment. The plan depicts the Phase I Property in its current configuration with a proposed development plan.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on July 13, 2018. No properties within the Phase I Study Area were listed in the NPRI database.

Ministry of Environment, Climate Change and Parks (MECP) Instruments

A request was submitted to the MECP Freedom of Information office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MECP issued instruments for the site. At the time of issuing this report, a response from the MECP had been received. A copy of the response is provided in Appendix 2.

MECP Coal Gasification Plant Inventory

The Ontario Ministry of Environment and Climate Change document titled "Municipal Coal Gasification Plant Site Inventory, 1991" was reviewed to reference the locations of former plants with respect to the site. No coal gasification plants were identified in the Phase I Study Area.

MECP Incident Reports

A request was submitted to the MECP Freedom of Information office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MECP for the site or adjacent properties. At the time of issuing this report, a response from the MECP had not been received. Any pertinent information will be forwarded to the client upon receipt. A copy of the request form is provided in Appendix 2.

MECP Waste Management Records

A request was submitted to the MECP Freedom of Information office for information with respect to waste management records. At the time of issuing this report, a response from the MECP had not been received. Any pertinent information will be forwarded to the client upon receipt. A copy of the request form is provided in Appendix 2.

MECP Submission

A request was submitted to the MECP Freedom of Information office for information with respect to reports related to environmental conditions for the property. At the time of issuing this report, a response from the MECP had not been received. Any pertinent information will be forwarded to the client upon receipt. A copy of the request form is provided in Appendix 2.

MECP Brownfields Environmental Site Registry

A search of the MECP Brownfields Environmental Site Registry (ESR) was conducted as part of this assessment for the site, neighbouring properties and the general area of the site. No Records of Site Condition (RSCs) were filed for the Phase I Property. There are no RSCs listed for properties within the Phase I Study Area.

MECP Waste Disposal Site Inventory

The Ontario Ministry of Environment and Climate Change document titled "Waste Disposal Site Inventory in Ontario, 1991" was reviewed as part of the historical research. This document includes all recorded active and closed waste disposal sites, industrial manufactured gas plants and coal tar distillation plants in the Province of Ontario. No records were listed for the Phase I Property or for properties within the Phase I Study Area.

Areas of Natural Significance

A search for areas of natural significance and features within the Phase I study area was conducted on the web site of the Ontario Ministry of Natural Resources and Forestry (MNRF) on July 13, 2018. No areas of natural significance were identified on the Phase I Property or within the Phase I Study Area.

City of Ottawa Landfill Document

The document entitled “Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa”, was reviewed. No landfill sites were identified within the Phase I Study Area.

PCB Inventory

A search of national PCB waste storage sites was conducted. No PCB waste storage sites were identified on the Phase I Property or within the Phase I Study Area.

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on July 13, 2018 to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. Two addresses, 5495 and 5425 Boundary Road, east of the subject site, were identified in the TSSA records.

The property addressed 5495 Boundary Road was listed as a former gas station and auto repair shop and registered as having two expired gas pumps and one active gas pump.

The other property addressed 5425 Boundary Road is listed as the Pomerleau Sand and Topsoil Yard and Excavation and registered as having multiple active fuel tanks. Both properties have been identified as PCAs in the Phase I ESA Study Area, however they are not considered to represent APECs on the Phase I Property based on the nature of their business and/or their down gradient location.

A full report has been requested for the two (2) aforementioned addresses. A full report was received from the TSSA on September 26, 2018. According to the reports, the retail fuel outlet at 5425 Boundary Road has been active since 1985. No infractions associated with this property were identified during the review of these reports.

According to the TSSA reports, the private fuel station located at 5495 Boundary Road reported as being in non-compliance from 2001 to 2006 as the ancillary equipment associated with the private fuel station did not meet the current standards at that time. It was reported in 2011 that the license to operate was cancelled, followed by non-compliance orders from 2013 to 2018 due to the abandonment of the UST containing fuel on-site. No other pertinent information was provided in these reports.

As previously discussed in this report, this property is not considered to pose a risk to the Phase I Property due to its downgradient orientation. A copy of the TSSA reports is provided in Appendix 2.

City of Ottawa Historical Land Use Inventory (HLUI)

A requisition form was sent to the City of Ottawa to request information from the City's Historical Land Use Inventory (HLUI 2005) database for the Phase I Property. Based on the City of Ottawa's HLUI report, previously identified PCAs were also listed in the HLUI. A copy of the HLUI report is provided in Appendix 2.

4.3 Physical Setting Sources

Aerial Photographs

Historical air photos from the National Air Photo Library were reviewed in approximate ten (10) year intervals. The review period dates to the first available air photos for the sites. Based on the review, the following observations have been made:

- | | |
|------|--|
| 1945 | The Phase I Property appears as a vacant parcel of land. The surrounding properties are generally vacant, undeveloped lands with occasional farmsteads. |
| 1965 | The Phase I Property appears to have been developed, with three (3) structures visible in the south east part of the subject property. They appear to be a house, a garage and a shed. The surrounding area appears unchanged from the previous photograph. |
| 1976 | Highway No. 417 is visible further to the north. No significant changes are apparent to the Phase I Property and the surrounding lands. |
| 1991 | More development is noticeable north of the subject property; a combination of industrial and residential properties. A residential dwelling is apparent in the north east part of the Phase I Property. Changes are apparent east of the subject property as well, with what appears to be a new roadway and pre-development (excavation) activities. |
| 1999 | Demolition in the of the previously existing residential home in the south east corner of the subject site has occurred and sand is being |

- excavated from the southern portion of the site. No significant changes to the adjacent lands immediately to the north, east and south have occurred.
- 2002 Further excavation and some fill placement has occurred on site, while some dump truck trailers are being stored on the southern part of the site. Lands further to the northeast have been developed for commercial / industrial purpose.
- 2011 Further excavation of the native sand has occurred on site and these areas are filled with shallow groundwater. Lands further to the east have been developed for commercial / industrial purpose.
- 2017 The majority of the subject site, not including 5494 Boundary Road, has been excavated and backfilled with imported fill. Some stockpiles of soil are present on site along with some limited construction materials.

The surrounding properties are depicted as the last aerial photograph. Laser copies of selected aerial photographs reviewed are included in Appendix 1.

Topographic Maps

Topographic information was obtained from Natural Resources Canada – The Atlas of Canada website. The topographic maps indicate that the elevation of the Phase I Property is approximately 77 m above sea level. The regional topography slopes towards the north to Mer Bleue Provincial Park Wetland, approximately 5km away from the Phase I Property. An illustration of the referenced topographic map is presented on Figure 2 – Topographic Map, which is included in Appendix 1.

Physiographic Maps

A Physiographic Map was reviewed from the Natural Resources Canada – The Atlas of Canada website, as a part of this assessment. According to the publication and mapping, the site is situated within the St. Lawrence Lowlands, Till Plains (Drumlinized) physiographic region. According to the mapping description provided: “The lowlands are plain-like areas that were all affected by the Pleistocene glaciations and are therefore covered by surficial deposits and other features associated with the ice sheets.” The Phase I Property is in the Central St. Lawrence Lowland, “where the land is rarely more than 150 m above sea level, except for the Monteregion Hills, which consist of intrusive igneous rocks.”

Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on this information, the bedrock in the area of the Phase I Property consists of shale of the Carlsbad Formation. Overburden of the subject property reportedly consists mostly of nearshore marine sediments of deltaic and estuarian deposits. The south part of the subject property consists of offshore marine deposits of clay and silt, with a drift thickness ranging from approximately 15 to 50 m below grade.

Water Well Records

A search of the MECPs web site for all drilled well records within 250 m of the Phase I Property was conducted on July 13, 2018. Based on the search results, no wells were identified on the Phase I Property. Three (3) mix-use, domestic and commercial wells were present in the Phase I Study Area, located at 100 Entrepreneur Road (1 domestic/commercial use well); 145 Indcum Road (1 domestic use well); and, 120 Indcum Road (1 commercial use well).

Water Bodies and Areas of Natural Significance

No bodies of water or areas of natural significances (ANSI) were present on the Phase I Property or are known to exist within the Phase I Study Area. Mer Bleue Provincial Park Wetland is the closest water body at approximately 5 km to the north of the Phase I Property.

5.0 INTERVIEWS

Property Owner Representative

Mr. Michel Pilon, representing the current owner, Day and Ross Transportation Group, as well as Mr. Lesile Kern, the previous owner of 5494 Boundary Road was considered for this interview based on their knowledge of the Phase I Property.

5510 Boundary Road was previously owned by Pomerleau Excavation Ltd. Pomerleau Excavation has owned the property for more than 15 years, during which the site was used for aggregate extraction purposes.

5494 Boundary Road was owned by Mr. Kern since 2001. According to Mr. Kern, the property has always been used for residential purpose since its first developed use, circa 1979. Mr. Kern is unaware of any potential environmental concerns on the Phase I Property or within the Phase I Study Area.

Any other pertinent information obtained during the interviews have been included in the relevant sections of this report.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

Two site visits were conducted by personnel from the Environmental Division of Paterson Group. The site visit for the vacant parcel of land, located at 5510 Boundary Road was conducted on July 16, 2018.

The site visit for the residential property, located at 5494 Boundary Road was conducted on July 26, 2018. In addition to the Phase I Property, the uses of neighbouring properties within the Phase I Study Area were also assessed at the time of the site visits.

6.2 Specific Observations at Phase I Property

Buildings and Structures

No buildings or permanent structures existed on the southern portion of the Phase I Property (5510 Boundary Road) at the time of the site assessment.

A single-family residential dwelling has been situated on the northern portion of the Phase I Property (5494 Boundary Road) since 1979. The Phase I Property is depicted on Drawing PE4387-1 – Site Plan, in the Figures section of this report.

Underground Utilities

The Phase I Property is situated in a privately serviced area.

Site Features

The majority of the Phase I Property is not developed with any buildings or permanent structures, except the northeast portion of the subject property (5494 Boundary Road).

The vacant portion of the subject site (5510 Boundary Road) is covered with some gravel, low vegetation and stockpiles of fill material. The vacant lot appears to have been stripped entirely of vegetation at one point in time. A small excavator was located in the central-west portion of the property.

Stockpiles of native and non-native fill material, broken concrete, gravel and topsoil, construction material (manhole pipes, and rusted metalworks) and a waste storage container were present on the southwestern portion of the subject property. It appeared however, that no waste was or had been generated on this portion of the Phase I Property. Drainage on the vacant portion of the Phase I Property consists primarily of surficial infiltration. No evidence of surficial staining was observed; however, evidence of stagnant water was observed along the northwest part of the vacant lot (5510 Boundary Road) at the time of the site visit.

The northeastern portion of the Phase I Property (5494 Boundary Road) is occupied by a two (2) storey, red-brick building with a concrete foundation and a shingled roof., constructed circa 1979. The residential dwelling is on a heavily treed lot with a gravel laneway fronting onto Boundary Road.

No signs of above ground or underground fuel storage tanks were observed at the time of the site visit. One pole-mounted transformer was identified on the northern property boundary. A private sewage system and well was observed on the central-west part of the residential property. Site photographs of each parcel of land are provided in Appendix 1.

Drainage on the northeastern portion of the Phase I Property consists primarily of surficial infiltration. No evidence of surficial staining or ponded water was observed at the time of the site visit.

No evidence of recent excavation was observed on the Phase I Property. No evidence of current or former railway or spur lines on the subject land was observed at the time of the site visit. The above-noted site features are shown on Drawing PE4387-1 - Site Plan.

Interior Assessment

As mentioned previously, only one building is presently on the Phase I Property, a 2-storey residential dwelling located on the northeast corner, addressed 5494 Boundary Road. A general description of the building interior follows:

- The floors throughout the building consisted of laminate, hardwood, ceramic tiling and concrete (basement).
- The walls consisted of drywall, some brick and concrete (basement).
- The ceilings were finished with drywall and ceiling stipple.
- Lighting throughout the building was provided by incandescent fixtures.

The building is currently heated with an oil burning furnace. The above ground storage tank (AST manufactured in 2005) with a capacity of 950 L is located in the northeast part of the basement, partitioned from the furnace room (west part of the basement). The furnace is fed through an above ground line via the AST. Some staining was observed on the concrete floor next to the oil line between the partition and the furnace, however, no oil odour was noted. It is expected that the staining is moisture.

Chemical storage on site was limited to cleaning and maintenance products for domestic use.

A sump was located in the basement – no water or odour was observed at the time of site assessment.

Hazardous Building Materials

Based on the age of the residential dwelling addressed 5494 Boundary Road (1979), possible asbestos-containing materials (ACMs) observed during the site visit included possible drywall joint compound and stippled plaster. The potential ACMs were observed to be in good condition at the time of the site visit.

Based on the age of the building, lead-based paint may be present beneath more recent paints or on any original or older painted surfaces. Painted surfaces were generally observed to be in good condition throughout the structure at the time of the site visit.

Urea Formaldehyde Foam Insulation (UFFI) was not identified during the site visit.

Ozone-depleting substances (ODSs) noted at the time of the site visit included an A/C portable unit and a fire extinguisher.

Older PCB-containing light ballasts are considered to have by now been replaced with PCB-free ballasts.

No evidence of mould or water damage was observed on the interior of the subject structure.

Phase I Study Area

An inspection of the neighbouring properties was conducted from publicly accessible roadways at the time of the site inspection. Land use adjacent to the Phase I Property was as follows:

- North – Treed lot, followed by a residential dwelling;
- South – Treed lot, followed by Mitch Owens Road;
- East – Boundary Road, followed by a former gas station / auto repair garage and an excavation & materials company;
- West – Vacant lot, followed by treed land.

Current lands within the Phase I Study Area are vacant or used for light to heavy industrial purposes. Five (5) PCAs were identified within the Phase I Study Area at the time of the site assessment and are consistent with the PCAs listed in Table 1.

Surrounding land use and PCAs within the Phase I Study Area are presented on Drawing PE4387-2 – Surrounding Land Use Plan.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

The Phase I Property is comprised of two (2) parcels of land: a vacant lot, addressed 5510 Boundary Road, and a residential lot, addressed 5494 Boundary Road.

The property addressed 5510 Boundary Road has been a vacant treed lot that was first developed as a residential dwelling between 1945 to 1950's. In the mid 1990's the structures / buildings on the property were demolished. The property since then has been excavated for aggregate extraction purposes and then infilled and used to handle fill material since 1999.

The property addressed 5494 Boundary Road has been a vacant treed lot that was first developed in 1979 with the existing 2-storey residential dwelling.

Based on the historical use of the Phase I Property, the first developed use was residential followed by commercial/light-industrial uses in the mid-1990s.

The intended use of the Phase I Property is commercial; therefore, a Record of Site Condition (RSC) is not required.

Potentially Contaminating Activities (PCAs)

The following identified an on-site PCA, as per Table 2, O.Reg. 153/04 as amended by O.Reg. 269/11, and applicable item number:

- Item 30: “Importation of Fill Material of Unknown Quality” – this PCA was identified to have occurred on the subject property (5510 Boundary Road).

While the fill placed on the subject site would typically be an APEC, a fill quality assessment was subsequently completed by Paterson to determine the quality of the fill material. The results of the fill quality assessment identified PHC and/or PAH impact on the Phase I Property, which is likely a result of asphaltic concrete in the fill material. Reference should be made to the Phase II ESA report for details of the fill assessment, including recommendations to address the impacted fill material. Since the quality of the fill material has been addressed, this former activity is not considered to be an APEC on the Phase I Property.

The following identified off-site PCAs within the Study Area, as per Table 2, O.Reg. 153/04 as amended by O.Reg. 269/11, and applicable item number:

- Item 28: “Gasoline and Associated Products Storage in Fixed Tanks” – this PCA was identified to have occurred on 5495 Boundary Road (former retail fuel outlet) and on 5425 Boundary Road (Pomerleau Sand and Topsoil Yard);
- Item 34: “Metal Fabrication” – this PCA was identified to have potentially occurred on 5507 Boundary Road (Rene’s Steel & Welding Inc.);
- Item 39: “Paints Manufacturing, Processing and Bulk Storage” – this PCA was identified to have potentially occurred on 140 Indcum Road (Western Signs and Line Painting);
- Item 52: “Storage, maintenance, fuelling and repair of equipment, vehicles, and materials used to maintain transportation systems” – this PCA was identified to have occurred on 5495 Boundary Road (Car Guarantiers);
- Item 59: “Wood Treating and Preservative Facility and Bulk Storage of Treated and Preserved Wood Products” – this PCA was identified to have potentially occurred on 145 Indcum Road (Power Asphalt Corporation).

Five (5) off-site PCAs have been identified east and southeast of subject property. Based on the groundwater direction (the groundwater flows east, away from the Phase I Property) and, as a result these off-site PCAs are not considered to represent APECs on the Phase I Property. These PCAs are depicted in green on Drawing PE4387-2 – Surrounding Land use Plan.

Areas of Potential Environmental Concern (APECs)

Based on the above mentioned findings, there are no APECs on the Phase I Property.

Contaminants of Concern

The contaminants of concern on the Phase I Property are PHCs and PAHs in the fill material, as identified in the fill quality assessment report.

7.2 Conceptual Site Model

Existing Buildings and Structures

A residential dwelling is the only structure on the site located on the north east corner of the Phase I Property.

Fill Material

Based on the Phase II ESA, the quality of the fill material has been addressed.

Geological and Hydrogeological Setting

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on this information, the bedrock in the area of the Phase I Property consists of shale of the Carlsbad Formation. The reported overburden thickness of the Phase I Property ranges from 25 to 50 m below grade, consisting mostly of nearshore marine sediments of deltaic and estuarine deposits. A small part of the subject property in the south consists of an overburden thickness of 15 to 25 m below grade, consisting of offshore marine deposits of clay.

The regional topography slopes towards the northeastern direction. The regional groundwater flows in an easterly direction.

Water Bodies

There are no bodies of water on the Phase I Property. The closest water body is the Mer Bleue Provincial Park Wetland, approximately 5 km north of the Phase I Property.

Areas of Natural Significance

No areas of natural significance were identified on the Phase I Property or on other properties within the Phase I Study Area.

Drinking Water Wells

One drinking water well was located on the Phase I Property. Three (3) mixed-use, domestic and commercial wells were identified in the Phase I Study Area, located at 100 Entrepreneur Road (1 domestic/commercial use well); 145 Indcum Road (1 domestic use well); and, 120 Indcum Road (1 commercial use well).

Neighbouring Land Use

Neighbouring land use in the Phase I Study Area is primarily light to medium industrial use with occasional vacant land, residential and commercial land. Land use in the surrounding area is presented on Drawing PE4387-2 - Surrounding Land Use Plan.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

The former PCA on the subject property had been assessed, and thus, is no longer an APEC. Additional PCAs were identified within the Phase I Study Area, however these activities were not considered to represent APECs on the Phase I Property based on their respective separation distances and/or orientations with respect to the Phase I Property.

Assessment of Uncertainty and/or Absence of Information

The information available for review as part of the preparation of this Phase I ESA is considered to be sufficient to conclude that there are no areas of potential environmental concern on the subject site.

A variety of independent sources were consulted and verified as part of this assessment, and as such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

8.0 CONCLUSION

Assessment

A Phase I – Environmental Site Assessment was carried out for the properties addressed 5494 and 5510 Boundary Road, in the City of Ottawa, Ontario. The purpose of this environmental assessment was to research the past and current use of the Phase I Property and Study Area and identify any environmental concerns with the potential to impact the subject property.

Based on a review of available historical sources, the subject site, addressed 5494 Boundary Road was first developed in 1979 with the current homestead. The subject site addressed 5510 Boundary Road was first developed in the early 1960's with what appears to be a homestead. However, in the late 1990's the property was redeveloped and stripped of any structures. Based on aerial photographs, sand was excavated from 5510 Boundary Road and subsequently infilled. Paterson completed a fill quality assessment to address fill material on-site. The laboratory results identified PHC and/or PAH impacted fill material on the Phase I Property, which were considered to be the result of asphaltic concrete in the fill. Recommendations have been provided in the Phase II ESA letter report.

Historical research indicates that the surrounding properties, although many still vacant lots, have been used for light to medium industrial purposes with some residential use. Five (5) potentially contaminating activities (PCAs) were identified on the surrounding lands to the east, across Boundary Road. Based on the separation distance and/or orientation (down-gradient) from the subject property, these PCAs are considered to pose very low risk to the Phase I Property, and therefore are not considered to represent APECs.

Following the historical review, a site assessment was conducted for the Phase I Property and surrounding lands. Current use of the subject property and surrounding lands are considered to pose low risk for reasons previously discussed. Based on the above information, it is our opinion that no further work is required for the Phase I Property at this time.

Recommendations

It is expected that the residential dwelling addressed 5494 Boundary Road will be demolished during future site redevelopment.

In addition, if the domestic well is not to be used in the future then it should be abandoned according to Ontario Regulation 903. Further information can be provided upon request in this regard.

9.0 STATEMENT OF LIMITATIONS

This Phase I - Environmental Site Assessment report has been prepared under the supervision of a Qualified Person (QP_{ESA}), in general accordance with O.Reg. 153/04 as amended by O.Reg. 269/11, and meets the requirements of CSA Z768-01. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I ESA are based on a review of readily available geological, historical and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as, local, provincial and federal agencies and was limited within the scope-of-work, time and budget of the project herein.

Should any conditions be encountered at the subject site and/or historical information that differ from our findings, we request that we be notified immediately in order to allow for a reassessment.

This report was prepared for the sole use of Day & Ross. Permission and notification from Day & Ross and Paterson Group will be required to release this report to any other party.

Paterson Group Inc.



Mandy Witteman, B.Eng., M.A.Sc



Mark S. D'Arcy, P.Eng., QP_{ESA}



Report Distribution:

- Day & Ross
- Paterson Group Inc.

10.0 REFERENCES

Federal Records

Air photos at the Energy Mines and Resources Air Photo Library.
National Archives.
Maps and photographs (Geological Survey of Canada surficial and subsurface).
Natural Resources Canada – The Atlas of Canada.
Environment Canada, National Pollutant Release Inventory.
PCB Waste Storage Site Inventory.

Provincial Records

MECP Freedom of Information and Privacy Office.
MECP Municipal Coal Gasification Plant Site Inventory, 1991.
MECP document titled “Waste Disposal Site Inventory in Ontario”.
MECP Brownfields Environmental Site Registry.
Office of Technical Standards and Safety Authority, Fuels Safety Branch.
MNRF Areas of Natural Significance.
MECP Water Well Inventory.
Chapman, L.J., and Putnam, D.F., 1984: ‘The Physiography of Southern Ontario, Third Edition’, Ontario Geological Survey Special Volume 2.

Municipal Records

City of Ottawa Document “Old Landfill Management Strategy, Phase I - Identification of Sites”, prepared by Golder Associates, 2004.
The City of Ottawa Historical Land Use Inventory.
Intera Technologies Limited Report “Mapping and Assessment of Former Industrial Sites, City of Ottawa”, 1988.
The City of Ottawa eMap website.

Local Information Sources

Previous Engineering Reports.
Plan of Subdivision, Hatchard Engineering (July 12, 2018)

Public Information Sources

Google Earth.
Google Maps/Street View.

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE4387-1 – SITE PLAN

DRAWING PE4387-2 – SURROUNDING LAND USE PLAN

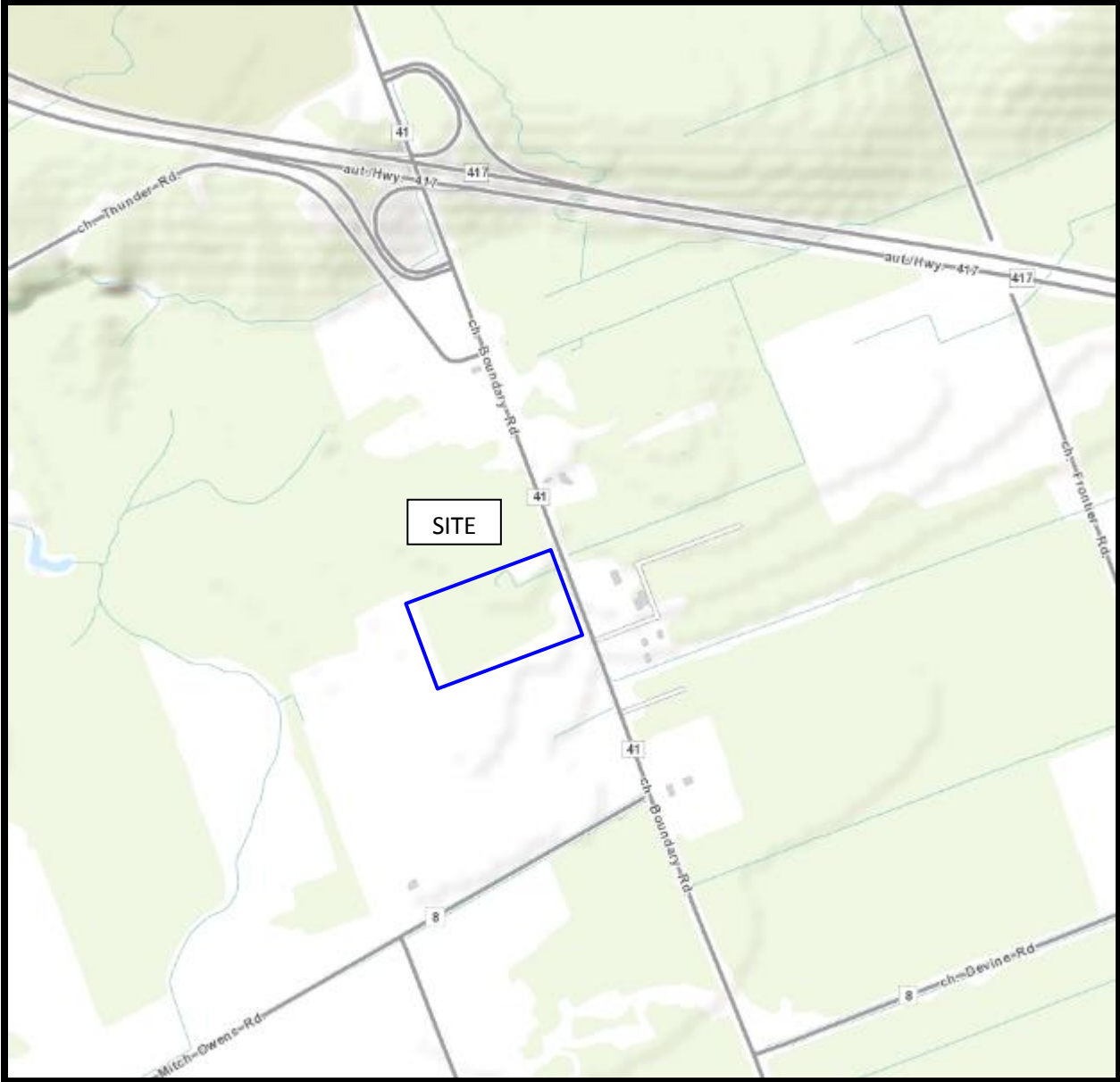


FIGURE 1
KEY PLAN

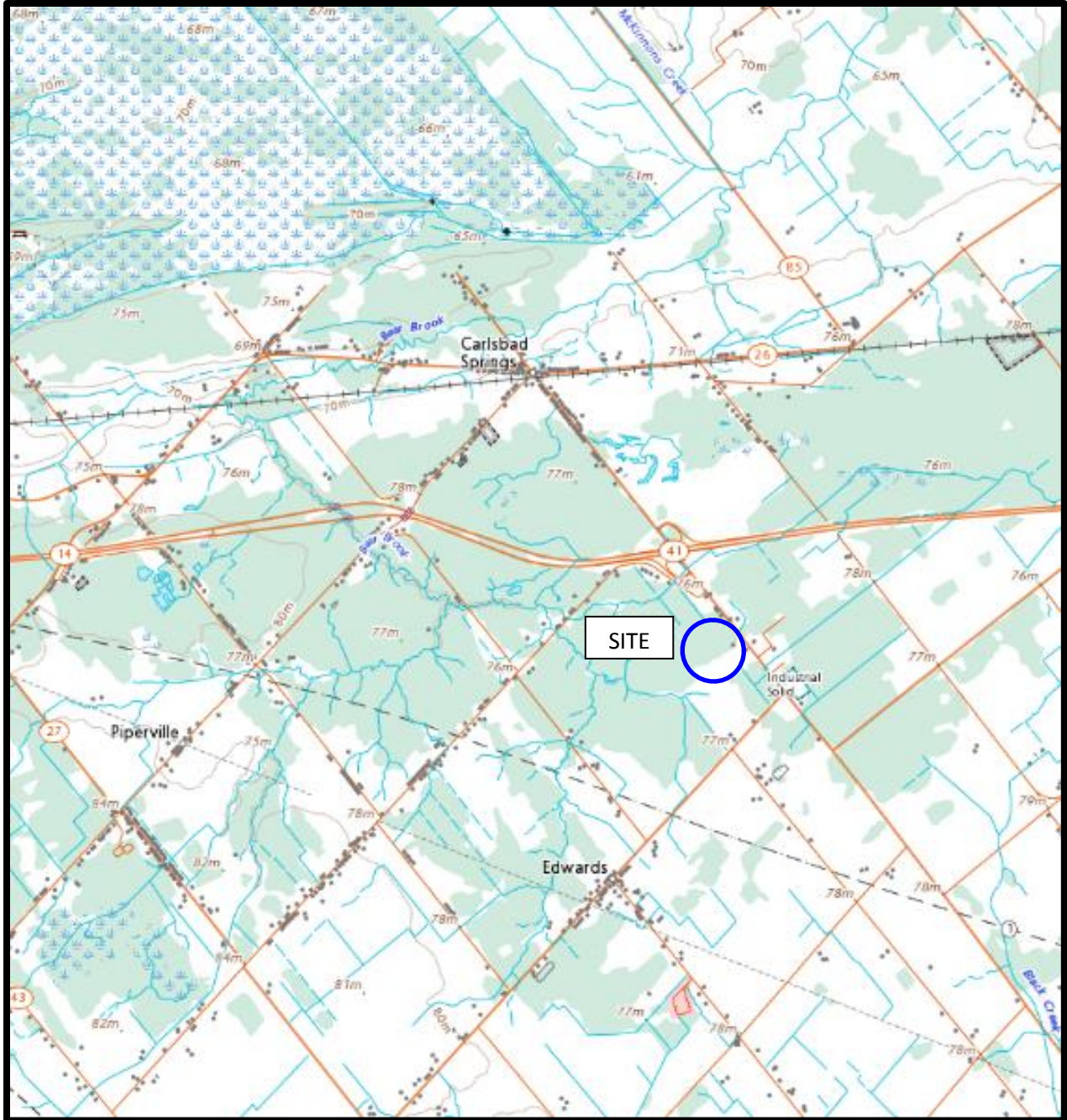
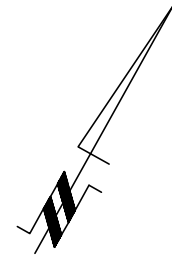


FIGURE 2
TOPOGRAPHIC MAP



#5900 THUNDER ROAD
VACANT / AGRICULTURAL

VACANT TREED LOT

#5494 BOUNDARY ROAD
RESIDENTIAL

#5510 BOUNDARY ROAD
FILL MATERIAL - GRAVEL AND TOPSOIL STOCKPILES

#5455 BOUNDARY ROAD
COMMERCIAL
(TOPSOIL SUPPLIER)

#5495 BOUNDARY ROAD
COMMERCIAL
(FORMER RETAIL FUEL OUTLET /
AUTOMOTIVE SERVICE GARAGE)

BOUNDARY ROAD

VACANT TREED LOT

patersongroup
consulting engineers

154 Colonnade Road South
Ottawa, Ontario K2E 7J5
Tel: (613) 226-7381 Fax: (613) 226-6344

NO.	REVISIONS	DATE	INITIAL
0			

DAY & ROSS
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
5494 AND 5510 BOUNDARY ROAD

OTTAWA, ONTARIO

Title: **SITE PLAN**

Scale:	1:1500	Date:	07/2018
Drawn by:	RCG	Report No.:	PE4387-1
Checked by:		Dwg. No.:	PE4387-1
Approved by:	MSD	Revision No.:	0



POTENTIALLY CONTAMINATING ACTIVITIES:

1. 5510 BOUNDARY ROAD - IMPORTATION OF FILL MATERIAL OF UNKNOWN QUALITY
2. 5495 BOUNDARY ROAD - FORMER GAS STATION AND CURRENT (GUARANTIERS AUTO SHOP)
3. 5425 AND 5455 BOUNDARY ROAD - POMERLEAU LIMITED (TOPSOIL SUPPLIER)
4. 5507 BOUNDARY ROAD - RENE STEEL AND WELDING INC.
5. 145 INDCUM ROAD - POWER ASPHALT CORPORATION (LUMBER HANDLING FACILITY)
6. 140 INDCUM ROAD - WESTERN SIGNS AND LINE PAINTING

patersongroup
consulting engineers

154 Colonnade Road South
Ottawa, Ontario K2E 7J5
Tel: (613) 226-7381 Fax: (613) 226-6344

NO.	REVISIONS	DATE	INITIAL
0			

DAY & ROSS

PHASE I - ENVIRONMENTAL SITE ASSESSMENT
5494 AND 5510 BOUNDARY ROAD

OTTAWA, ONTARIO

Title: **SURROUNDING LAND USE PLAN**

Scale:	1:4000	Date:	07/2018
Drawn by:	RCG	Report No.:	PE4387-1
Checked by:		Dwg. No.:	PE4387-2
Approved by:	MSD	Revision No.:	0



LEGEND

- SAMEDAY - 16 DOORS
19620 SQ. FT
- DEDICATED - 12 DOORS
7470 SQ. FT
- DAY & ROSS - 48 DOORS
27090 SQ. FT
- 140 CAR PARKING
- 51 TRACTOR PARKING
- 89 TRAILER PARKING

PIN 04324-0161
PLAN 4R-13964
3.0435 Hect.

Consultant

HATCHARD ENGINEERING
 728 Perth Main Street, Suite B Perth-Andover, N.B. E7H 2W7
 Phone: 506-273-6640 Fax: 506-273-4305
 Email: bhatchard@hatchard.ca www.hatchardgoguen.ca

Expert-conseil
General notes
 Notes générales

REFERENCE
 A - DETAIL NUMBER
 B - DETAIL LOCATION
 C - SHEET NUMBER - WHERE DETAILED

THIS DRAWING IS THE PROPERTY OF HATCHARD ENGINEERING LTD. AND HAS BEEN PREPARED SOLELY FOR THIS PROJECT. THIS DRAWING IS NOT TO BE USED BY ANY PARTIES ON OTHER PROJECTS OR EXTENSIONS TO THIS PROJECT EXCEPT BY AGREEMENT AND APPROPRIATE COMPENSATION TO HATCHARD ENGINEERING LTD.

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Sheet Title	Titre de la feuille	Date	Date	Project No.
SITE PLAN		JULY 12 - 2018		HE-000358
Project Title	Titre du projet	Scale	Échelle	Sheet No.
DAY & ROSS INC. OFFICE & WAREHOUSE PROPOSAL OTTAWA, ONTARIO		1:500		L1
Drawn by	Desiné par	Approved by	Approuvé par	

APPENDIX 1

PLAN OF SUBDIVISION

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS



AERIAL PHOTOGRAPH
1945



AERIAL PHOTOGRAPH
1965



AERIAL PHOTOGRAPH
1976



AERIAL PHOTOGRAPH
1991



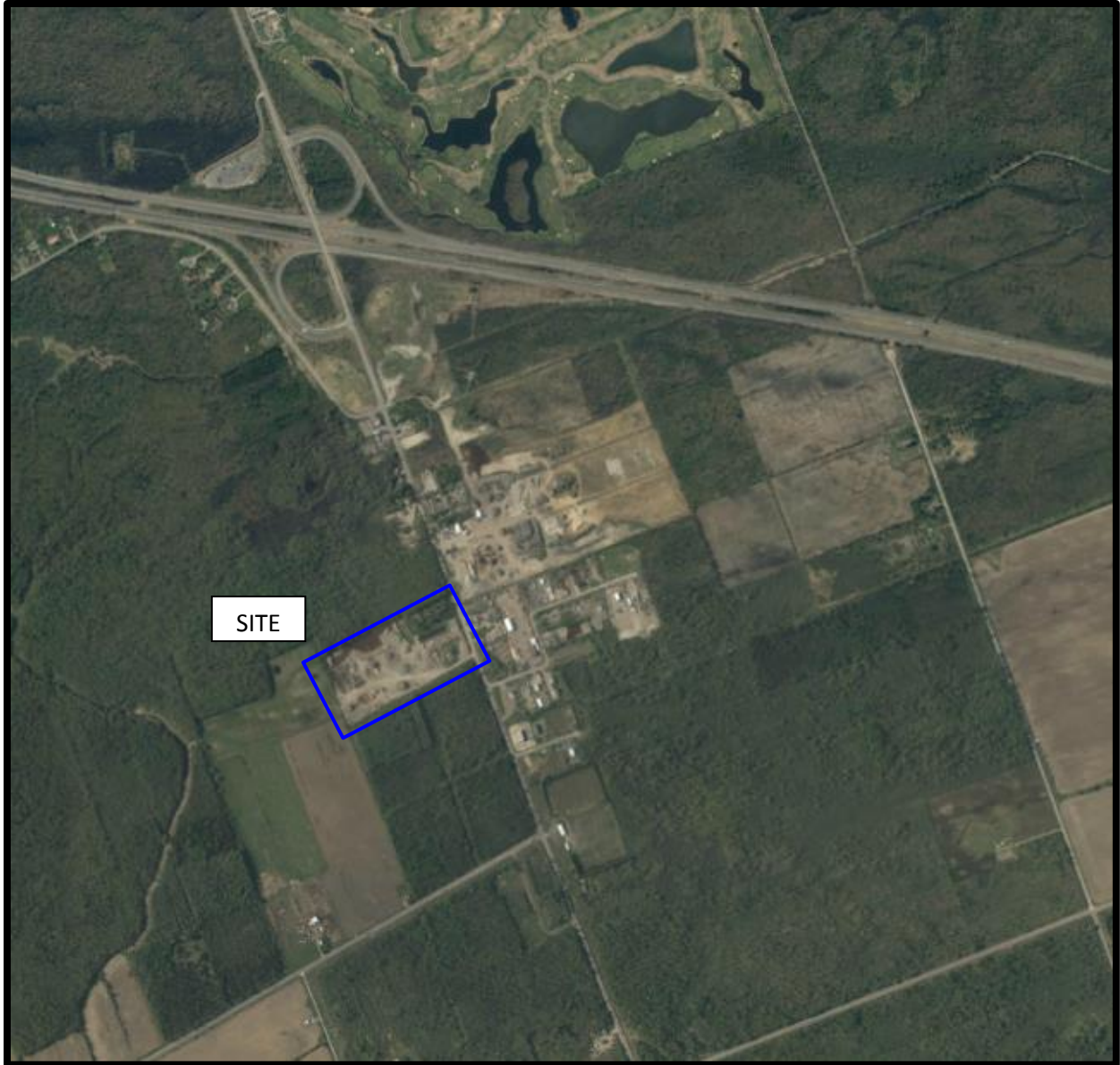
AERIAL PHOTOGRAPH
1999



AERIAL PHOTOGRAPH
2002



AERIAL PHOTOGRAPH
2011



AERIAL PHOTOGRAPH
2017

Site Photographs

PE4387

5510 and 5494 Boundary Road, Ottawa, ON

August 15, 2018



Photograph 1: View of the north east corner of the vacant portion of the subject site, looking onto the Boundary Road and the adjacent property (former gas station).



Photograph 2: View along the south end of the vacant lot, looking south west from Boundary Road.

Site Photographs

PE4387

5510 and 5494 Boundary Road, Ottawa, ON

August 15, 2018



Photograph 3: View of the north east part of the vacant lot, looking towards the residential portion of the subject site.



Photograph 4: View of the eastern portion of the vacant lot, taken from the west end of the site, looking towards Boundary Road.

Site Photographs

PE4387

5510 and 5494 Boundary Road, Ottawa, ON

August 15, 2018



Photograph 5: View of the central north west part of the vacant lot, looking north.



Photograph 6: View of the central south part of the subject site, looking south.

Site Photographs

PE4387

5510 and 5494 Boundary Road, Ottawa, ON

August 15, 2018



Photograph 7: View of the south west corner of the subject property, looking west.



Photograph 8: View of the north west corner of the vacant lot, looking north.

Site Photographs

PE4387

5510 and 5494 Boundary Road, Ottawa, ON

August 15, 2018



Photograph 9: View of the central south part of the vacant lot, looking south west.



Photograph 10: View of the former gas station, across Boundary Road, taken from the vacant lot.

Site Photographs

PE4387

5510 and 5494 Boundary Road, Ottawa, ON

August 15, 2018



Photograph 11: View of the east portion of the residential lot, looking onto Boundary Road (east).



Photograph 12: Front view of the residential dwelling on the residential lot.

Site Photographs

PE4387

5510 and 5494 Boundary Road, Ottawa, ON

August 15, 2018



Photograph 13: View of the front yard (east part) of the residential property.



Photograph 14: View of the septic system, located on the north side of the residential dwelling.

APPENDIX 2

MECP FREEDOM OF INFORMATION SEARCH REQUEST

MECP WATER WELL RECORDS

TSSA RESPONSE

TSSA REPORTS

HISTORICAL LAND USE INVENTORY (HLUI)

Ministry of the Environment,
Conservation and Parks

Ministère de l'Environnement, de
la Protection de la nature et des
Parcs



Freedom of Information and
Protection of Privacy Office

Bureau de l'accès à l'information et
de la protection de la vie privée

12th Floor
40 St. Clair Avenue West
Toronto ON M4V 1M2
Tel: (416) 314-4075

12^e étage
40, avenue St. Clair ouest
Toronto ON M4V 1M2
Tél.: (416) 314-4075

August 16, 2018

Mandy Witteman
Paterson Group Inc.
154 Colonnade Road
Ottawa, ON K3E 7J5

Dear Mandy Witteman:

**RE: Freedom of Information and Protection of Privacy Act Request
Our File #: A-2018-04784, Your Reference #: PE4387**

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 5510, 5494 Boundary Road, Carlsbad Springs.

After a thorough search of the Ministry's Ottawa District Office, Investigations and Enforcement Branch, Environmental Assessment and Permissions Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, records were located in response to your request. It is my decision to provide partial access to the attached information as identifying information pertaining to private individuals has been removed to protect privacy (Section 21(1)(f) of the Act).

In accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, detailed below are our charges:

• Search Time 1 hour @ \$30/hour	\$ 30.00
• Copying 21 pages @ \$0.20/page	\$ 4.20
• Delivery	\$ 3.00
• Total	\$ 37.20
• Deposit Received	- \$ 30.00
• BALANCE WAIVED (NOT REQUIRED)	\$ 7.20

You may request a review of my decision by contacting the Information and Privacy Commissioner/Ontario, 2 Bloor Street East, Suite 1400, Toronto, ON M4W 1A8 (800-387-0073 or 416-326-3333). Please note that there is a \$25.00 fee and you only have 30 days from receipt of this letter to request a review.

If you have any questions regarding this matter, please contact Katie Tudor at katie.tudor@ontario.ca.

Yours truly,

Janet Dadufalza
FOI Manager

Attachments

**Pages 3 to / à 8
are not relevant
sont non pertinentes**



Ontario

Ministry of the
Environment

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[ABOUT US](#)
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[User Management](#)
[Company Mgmt](#)
[Manifests](#)
[Site Data](#)
[Help](#)
[Logout](#)



Generator Details

Registration/Notification Number

ON9780812

Legal Company Name

Primary Name: R.W. Tomlinson Ltd.

Company Operating Name

Primary Name: R.W. Tomlinson Ltd.

Mailing Address

Division Building: NA

Address Line 1: 5597 Power Road

Town/City: Ottawa

Country: (if inside Ontario) OTTAWA CARLTON (RM)

Country: (if outside Ontario) NA

Country: Canada

Site Location

This should be the street address of the site that is being registered. You are required to register each site that generates hazardous waste separately.

Division Building: NA

Address Line 1: 5510 Boundary Road

Address Line 2: NA

Town/City: Ottawa

Country: (if inside Ontario) OTTAWA CARLTON (RM)

Country: (if outside Ontario) NA

Country: Canada

Division Name: NA

Division Name: NA

Post Box Number: NA

Address Line 2: NA

Postal Code / Zip Code: K1G 3N4

Province/State (if inside Canada/US) ONTARIO

Province / State (if outside Canada / US) NA

Post Box Number: NA

Postal Code / Zip Code: K4B 1P6

Province / State (if inside Canada / US) ONTARIO

Province / State (if outside Canada / US) NA



Compliance Summary Inspection Report

Client:	Pomerleau Ltd Mailing Address: 5425 Boundary Rd, Ottawa, Ontario, Canada, K4B 1P6 Physical Address: 5425 Boundary Rd, Ottawa, City, Ontario, Canada Telephone: (613)822-1211 Client #: 6619-8ATHQV, Client Type: Corporation		
Inspection Site Address:	5510 Boundary Address: 5510 Boundary Rd, Ottawa, City, K0A 1K0 District Office: Ottawa GeoReference: , LIO GeoReference: Zone: , UTM Easting , UTM Northing , Latitude: , Longitude:		
Contact Name:	Regent Pomerleau	Title:	Owner
Contact Telephone:	(613)822-1211 ext	Contact Fax:	
Last Inspection Date:			
Inspection Start Date:	2014/05/12	Inspection Finish Date:	2014/05/12
Region:	Eastern		

1.0 INTRODUCTION

see attached POEC inspection

2.0 INSPECTION OBSERVATIONS

see attached POEC inspection

2.1 AREA OF FOCUS

This inspection is being conducted under the following Ministry of Environment program(s) and/or activities:

Properties of Environmental Concern

Specifics:

2.2 COMPLIANCE OVERVIEW

Specifics:

See warnings under section 6.0 below. See attached POEC inspection.

3.0 REVIEW OF PREVIOUS NON-COMPLIANCE ISSUES

7.0 INCIDENT REPORT

Not Applicable

8.0 ATTACHMENTS

Pomerleau Ltd May 12 2014.doc

PREPARED BY:

Environmental Officer:

Name:

District Office:

Date:

Signature

Lance Larkin
Ottawa District Office
2014/05/13



REVIEWED BY:

District Supervisor:

Name:

District Office:

Date:

Signature:

Jena Leavoy
Ottawa District Office
2014/05/28



File Storage Number:

SI OT OT BO 100

Note:

This inspection report does not in any way suggest that there is or has been compliance with applicable legislation and regulations as they may apply to this facility. It is, and remains, the responsibility of the owner and/or the operating authority to ensure compliance with all applicable legislative and regulatory requirements.

SAC Action Class:	Pollution Incident Reports (PIRs) and "Other" calls
Non-Standard Procedure:	No
ERP Call-out Initiated:	No

Client(s)

Client Details

Site(s)

Site Details
Vacant Land<UNOFFICIAL> Address: Lot , Part , Vacant land on Boundary road, south off Hwy 17, Carlsdad Springs, Ottawa, City, District Office: Ottawa
+ + + +
5510 Boundary Road<UNOFFICIAL> Address: Lot , Part , 5510 Boundary Road, Ottawa, City, District Office: Ottawa

Incident Information

Incident Summary:	TIPS: Drain All trucks dumping >200 loads on vacant land <i>cannot be longer than 60 characters</i>
Incident Description:	<p>Caller reports Drain All trucks are known for illegal dumping in the vacant land south of a gas station located on Boundary Rd (South of Hwy 417). The caller estimates >200 loads have been dumped this year alone. The trucks are always Drain All. Many people are aware of this. The caller could not give any more details on the location. The caller just saw a truck now, and reports dumping takes place during the day and night. The caller has not personally observed dumping, but reports others have. He reports the area is easy to find if you park at the gas station and walk south. Caller wished to remain anonymous.</p> <p>LL - Dec 20, 2012 - I checked previous IRs. I called previous complainant, [REDACTED]. He said that Drain-All was dumping cutting water from pavement. Caller said he's been to the site, 5588 Boundary Road. Caller said he saw Drain-All on Dec 19th, 2012 at 6 p.m. He said they go to the site 3x per day. Rheel Delaquis was dealing with this originally. Nothing in writing found from Rheel Delaquis Regent Pomerleau Ltd. or Drain-All.</p> <p>16:05 - I called Drain-All and spoke to Frank Cardinali (President). He said they have trucks that do vacuum excavation. He mentioned there's no financial gain for them to dump any contaminated mud slurry. He said if there slurry is deemed "fill" it will go to Pomerleau on boundary road, 5425 Boundary. He believed they are stockpiling the material. Mr. Cardinali said they have sampled material in the past. A visual check is used and drivers are trained in Reg. 347. He said that he was confident that if I sampled no contaminants of concern would be detected. He mentioned there's more of a financial gain for them to take the material to their transfer station. He mentioned that Officer Rheel Delaquis was dealing with Dave Elsie. He explained that the mud slurry is generated by cutting into soil to create gas mains and bell wire mains. He said that workers are always looking at where they are cutting. Any sheen would be visible. He mentioned that abnormalities have been discovered and when that happens, they manage the material as contaminated material. He said the material wouldn't pass the slump test.</p> <p>Jan 8, 2013 - I drove by 5425 Boundary Road, Pomerleau Sand & Gravel. Three seconds down the road, was 5588 Boundary Road. The metal swing gate was open and it was snow covered. Doesn't appear that the gate was ever closed this winter. The inner roadway leading to the back of the property had been plowed recently. There was a roto screener equipment near the entrance to the right. The site was snow covered. There were three or four large piles of what I could see was soil. Some of the soil was exposed. It looked like it was there for some time due to snow cover. There was one Hitachi front loader parked near the piles. There were a few piles of industrial size metal I beams. There were about 6 large metal tanks (~30,000 litre capacity) stored on the property. They were on their sides. They seemed empty to me as scrap metal. There were no flowing watercourses in the vicinity of the site, however it was difficult to see due to winter conditions. I drove to the back</p>

s.21

Links & Comments:	
Attachments Names:	mud - inert fill_Mar2001 (2).pdf

Date & Time of Incident	Incident Date Confirmation? Estimated 2012/12/19		
Source Type:		Sector Type:	
Nearest Watercourse:		Watershed Category Code:	
Environmental Impact:	Possible		
Nature of Impact:			
Incident Cause:		Incident Reason:	
Damaged Party:	No		

Contaminants Table							
Contaminant Name	Code	UN#	Limit	Quantity	[units]	[freq]	

Controller of Material:		Owner of Material:	
Estimated Clean Up Cost:		Who Cleaned Up:	
% Clean Up:	%	Agencies Involved:	

Voluntary / Mandatory Abatement

Is there Voluntary Abatement Activity?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	<input type="radio"/> To be determined
--	---------------------------	-------------------------------------	--

Voluntary / Mandatory Compliance Items

Type Parent RefNo Work Summary (may be truncated) Date AttainList

Offence(s)

Suspected Violation(s)/Offence(s):	
Act - Regulation - Section, Description (General Offence)	

Provincial Officer:

Name: Lance Larkin
Badge No: 723

MUD - Inert Fill

Question: Does clean mud or muddy water meet the inert fill definition in Reg. 347, (i.e. exempt from Part V)?

Reg. Reference: O. Reg. 347, (Waste Management) definitions, Section 3(1) (Exemptions)

Background: Mud and muddy water are generated from the drilling of wells, directional boring activities, construction activities, etc. On occasion the mud and muddy water from these activities needs to be removed.

Regulation 347 defines “inert fill” as “earth or rock fill or waste of a similar nature that contains no putrescible materials or soluble or decomposable chemical substances”.

If it is known or can reasonably be expected to be known that the mud and muddy water is otherwise not contaminated, then the Ministry does not need to regulate this off-site disposal activity. The Ministry can deal with “may impair” and “adverse effect” issues under the appropriate legislation if the situation arises.

The intent of the legislation is not to capture clean mud and muddy water as waste. Under Reg. 347 “drilling fluids and produced wastes associated with the exploration, development or production of crude oil or natural gas” are explicitly excluded from the definition of “liquid industrial waste”. Therefore, clean mud and muddy water from other similar activities, should also be excluded from this definition.

Response: Clean mud and muddy water are essentially earth mixed with varying amounts of water. Since the definition of inert fill includes earth, than mud and muddy water can be considered inert fill making them exempt from Part V.

1.0 Introduction:

The purpose of this inspection was to assess the Site's compliance with the requirements of the Ontario Environmental Protection Act (EPA) and the Ontario Water Resources Act (OWRA). A walkabout of the site was conducted to assess waste management requirements and potential for adverse effects. No non-compliance issues were identified.

The Site is zoned Rural Heavy Industrial and is located across from an industrial area located west of highway 417 and Carlsbad Springs.



Pomerleau Ltd. (the Company) operates a sand and gravel operation at 5425 Boundary Road, just east of the subject Site. The Company's headquarters is located there as well.

2.0 Inspection Observations:

The Site is primarily used for the temporary storage of recycled material such as asphalt and concrete. As per a review of historical aerial photos crushed stone and likely other

Does the owner/operator have a history of non-compliance with environmental legislation or activities that had the potential or caused an adverse effect in the past?

Yes No

Specifics:

2.2 Abandoned or Derelict:

Which of the following best describes the property?

Abandoned

Derelict

Idle

What is the legal description of the site and what are its area boundaries?

(If municipal address is unavailable or insufficient to accurately describe the site, please give a description of the site area, e.g. Roadway boundaries).

Specifics: 5510 Boundary Road, Ottawa, K0A 1K0 (Concession 9, South Part, Lot 1) and PIN No. 043240177 (Concession 9, Part Lot 1 of Gloucester Part 2, 4R13964).

Is the site secure? *(Please indicate if the site is occupied 24/7, fenced, locked gates, locked buildings, evidence of forced entry, etc. List information if there has been a breach. Could the problem potentially pose a risk to human health or the environment?)*

Yes No

Specifics: The main swing gate was locked.

During the time of the inspection can the inspector observe any potential or adverse effect related to the site condition?

Yes No Unknown

Specifics:

Do inspection observations suggest the owner or operator ceased operations on the site and may not have properly decommissioned or closed the site, resulting in a potential or an adverse effect?

No

Yes

Potential

Specifics:

From the inspection observations is further decommissioning/site closure work or compliance activities required to ameliorate any potential or adverse effect(s)?

Yes No

Specifics:

2.3 Chemical and Waste Storage:

Are there volumes of chemicals or waste materials stored at the site that would be of environmental concern?

Yes No Potential

List:

Chemicals or Waste	Estimated Volume

- Yes, known and confirmed adverse effect
- Potential (Ministry review still in not started or in progress)

N/A

What are the contaminants of concern for each affected media and highest concentrations? (*Indoor soil vapour could also be listed*)

List: NA

Contaminant of Concern	Groundwater concentrations	Soil/Sediment concentrations	Ministry Standard (INSERT TABLE FROM O.Reg 153)

If the reporting information is readily available please describe the horizontal and vertical extent of the contaminants of concern found in the sub surface, on or off-site? (*please indicate if the contamination is moving, the source, if it is an ongoing source, etc.*)

Specifics: N/A

Is the site located in an area of natural significance as defined in O.Reg. 153/04, Records of Site Condition?

- Yes No

Specifics:

Are there any receptors that are associated with the potential or adverse effect that has been attributed by the site?

(*Please list the types of receptors, estimated distances to receptors, exposure pathways, etc.*)

Specifics: N/A

Has there been a remedial action plan/risk assessment designed to mitigate the associated adverse effect or potential for an adverse effect on and off site contamination found on and/or off the site?

- Yes No No, not required

Specifics:

Does the plan adequately address the adverse effect or potential for an adverse effect?

- Yes No

Specifics: N/A

2.5 Overlapping with Other Program Areas:

Is the inspection performed with another overlapping inspection media?

- Yes No (list the common media)

If yes, provide reference? (*Additional inspection forms may be filled out related to other program areas for the site if there is an overlap. Please copy significant information from other inspections reports where applicable and vice versa.*)

Specifics:

6.0 Other Inspection Findings

These are inspection findings, which are not classified under the site categories and may often involve other programs areas. This may often involve inspection findings that are not under Ministry jurisdiction but are potential issues and concerns that need to be made to the appropriate jurisdictional agency. Where the Environmental Officer can, for example, identify a contravention of a Ministry requirement which in itself may not trigger a "Program Priority", but may still require some action from the owner/operating authority. The Environmental Officer may also include suggested actions to be taken.

- *The Company should be mindful that any water taking greater than 50,000 litres per day requires a Permit To Take Water under the OWRA. Should water takings occur at the site, the company should track the volumes of water removed from the site.*
- *The Company should be mindful that Section 53 of the OWRA requires approval prior to using, operating, establishing, altering, extending or replacing new or existing sewage works.*

7.0 Actions Required

Use the Compliance Guidelines and the Delivery Strategies to determine appropriate procedure for ensuring that full and timely compliance is achieved.

N/A

8.0 EO Recommended Case File Management

- Site requires no further action
- Site inventory for prioritization exercise required
- Level 1 - Case Files Managed Within the District
- Level 2 - Case Files Managed Between Two Districts in the Same Region- Coordinated Approach
- Level 3 - Case Files Managed Over Multiple Districts / Regions or Provincially Significant

Note:

This inspection report does not in any way suggest that there is or has been compliance with applicable legislation and regulations as they may apply to this facility. It is, and remains, the responsibility of the owner and/or the operating authority to ensure compliance with all applicable legislative and regulatory requirements.

Material 2:		Code :
Amount :		UN No.:
Material 3:		Code :
Amount :		UN No.:
Cause.....:		Code ..:
Reason.....:		Code ..:
Person in Control:		Waste GenNum :
Owner.....:		Waste GenNum :
Agencies Involved.....:		
Clean up and Restoration Carried out by:		
<input type="checkbox"/> Controller	<input type="checkbox"/> Owner	<input type="checkbox"/> Other
% Cleaned up:	Estimated Cost:	
Were Directions or Approval Given Under		
EPA Part X <input type="checkbox"/>	Regulation 362 <input type="checkbox"/>	Manifest No.
Waste Class :		Code ...:
Hauler :		Code ...:
Disposal Site :		Code ...:
Environmental Impact:	Nature of Impact:	Code ...:
People/Business Damaged		
(Other than to Owner/Controller) :		
Nature of Damage:		Code ...:

Instructions for Completing Form

- For use in the Province of Ontario only. This document is a permanent legal document. Please retain for future reference.
- All Sections must be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form.
- Questions regarding completing this application can be directed to the Water Well Management Coordinator at 416-235-6203.
- All metre measurements shall be reported to 1/10th of a metre.
- Please print clearly in blue or black ink only.

Well Owner's Information and Location of Well Information

Ministry Use Only			
MUN	15 002	CON	OF
			LOT 02

RR#/Street Number/Name Plan 50M-136 Pt BLK1 145 Ardmore Rd. Carleton Springs	City/Town/Village Cumberland (Ottawa)	Site/Compartment/Block/Tract etc. A2-3 RPS 0126120
GPS Reading NAD 8 3	Zone 18	Easting 465747
	Northing 5020692	Unit Make/Model Wagellan
		Mode of Operation: <input type="checkbox"/> Undifferentiated <input checked="" type="checkbox"/> Averaged <input type="checkbox"/> Differentiated, specify _____

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Depth To
Brown	Sandy soil	clay		0	5
grey	clay			5	15
blue	clay			15	95
grey	hard pan	gravel		95	109
grey	rock			109	110

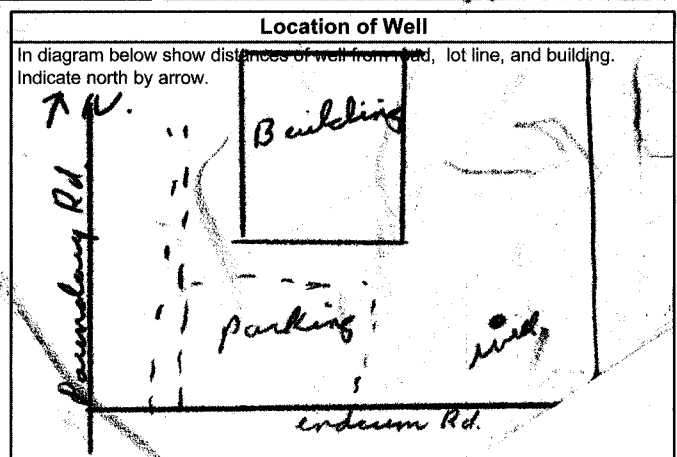
Hole Diameter		
Depth From	Metres To	Diameter Centimetres
0	110	6"

Construction Record				
Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Metres To
Casing				
6 1/4	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	188	0	109
Screen				
Outside diam	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	Slot No.		
No Casing or Screen				
	<input type="checkbox"/> Open hole			

Test of Well Yield				
Pumping test method	Draw Down		Recovery	
	Time min	Water Level Metres	Time min	Water Level Metres
Sub.				
Pump intake set at - (metres) 52'	Static Level	2.60		2.77
Pumping rate - (litres/min) 42	1	2.70	1	2.65
Duration of pumping 1 hrs + 42 min	2	2.70	2	2.64
Final water level end of pumping _____ metres	3	2.70	3	2.63
Recommended pump type <input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep	4	2.72	4	2.62
Recommended pump depth 50' metres	5	2.72	5	2.61
Recommended pump rate 50 (litres/min)	10	2.72	10	2.60
	15	2.74	15	2.60
If flowing give rate - 0 (litres/min)	20	2.74	20	2.60
	25	2.75	25	2.60
If pumping discontinued, give reason.	30	2.75	30	2.60
	40	2.75	40	2.60
	50	2.76	50	2.60
	60	2.77	60	2.60

Water Record	
Water found at _____ metres	Kind of Water
110' m	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other:
_____ m	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other:
_____ m	<input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other:
After test of well yield, water was <input type="checkbox"/> Clear and sediment free <input type="checkbox"/> Other, specify _____	
Chlorinated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Plugging and Sealing Record		
Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.
0	30'	grout
		Volume Placed (cubic metres) 3 bag.



Method of Construction			
<input checked="" type="checkbox"/> Cable Tool	<input type="checkbox"/> Rotary (air)	<input type="checkbox"/> Diamond	<input type="checkbox"/> Digging
<input type="checkbox"/> Rotary (conventional)	<input type="checkbox"/> Air percussion	<input type="checkbox"/> Jetting	<input type="checkbox"/> Other
<input type="checkbox"/> Rotary (reverse)	<input type="checkbox"/> Boring	<input type="checkbox"/> Driving	

Water Use			
<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Industrial	<input type="checkbox"/> Public Supply	<input type="checkbox"/> Other
<input type="checkbox"/> Stock	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used	
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Municipal	<input type="checkbox"/> Cooling & air conditioning	

Final Status of Well			
<input checked="" type="checkbox"/> Water Supply	<input type="checkbox"/> Recharge well	<input type="checkbox"/> Unfinished	<input type="checkbox"/> Abandoned, (Other)
<input type="checkbox"/> Observation well	<input type="checkbox"/> Abandoned, insufficient supply	<input type="checkbox"/> Dewatering	
<input type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, poor-quality	<input type="checkbox"/> Replacement well	

Audit No. Z 12477	Date Well Completed 2004 05 27
Was the well owner's information package delivered? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Delivered 2004 05 27

Well Contractor/Technician Information	
Name of Well Contractor Maurice Capor Ltd	Well Contractor's Licence No. 1547
Business Address (street name, number, city etc.) Carleton Place	
Name of Well Technician (last name, first name)	Well Technician's Licence No.
Signature of Technician/Contractor X Maurice Capor	Date Submitted 2004

Ministry Use Only	
Data Source	Contractor 1517
Date Received AUG 18 2004	Date of Inspection
Remarks	Well Record Number 1534876

Instructions for Completing Form

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- All Sections **must** be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form.
- Questions regarding completing this application can be directed to the Water Well Help Desk (Toll Free) at 1-888-396-9355.
- All metre measurements shall be reported to 1/10th of a metre.**
- Please print clearly in blue or black ink only.

Ministry Use Only

Well Owner's Information and Location of Well Information

MUN		CON		LOT		CON	
Address of Well Location (County/District/Municipality) OTTAWA - City				Township Cumberland		Lot 2	
RR#/Street Number/Name 120 Indcum				City/Town/Village CARLSBAD-ON		Site/Compartment/Block/Tract etc. 50R-6420	
GPS Reading	NAD	Zone	Easting	Northing	Unit Make/Model	Mode of Operation: <input type="checkbox"/> Undifferentiated <input checked="" type="checkbox"/> Averaged <input type="checkbox"/> Differentiated, specify	
	83	18	465723	5020642	MAGELLAN	UTM	

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth Metres	
				From	To
Brown	Play		Soft	0	0.90
Red	Clay		Soft	0.90	3.63
Grey	Clay		Soft	3.63	30.30
Grey	Crinel		Soft	30.30	31.51
Grey	SHALE		Porous	31.51	32.42

Hole Diameter			Construction Record				Test of Well Yield					
Depth From	Metres To	Diameter Centimetres	Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Metres To	Pumping test method	Draw Down Time min	Water Level Metres	Recovery Time min	Water Level Metres
0	7.57	20.32	15.55	Steel	0.48	0	31.51	Submersible	1	3.20	1	2.89
								Pump intake set at - (metres) 9.09	Static Level	2.89		3.04
								Pumping rate - (litres/min) 58.50	1	3.20	1	2.89
								Duration of pumping 1 hrs + 00 min	2	3.17	2	
								Final water level end of pumping 3.04 metres	3	3.12	3	
								Recommended pump type. <input checked="" type="checkbox"/> Shallow <input type="checkbox"/> Deep	4	3.10	4	
								Recommended pump depth. 9.09 metres	5	3.10	5	
								Recommended pump rate. 45.50 (litres/min)	10	3.08	10	
								If flowing give rate - (litres/min)	15	3.04	15	
									20	3.04	20	
									25	3.04	25	
								If pumping discontinued, give reason.	30	3.04	30	
									40	3.04	40	
									50	3.04	50	
									60	3.04	60	

Plugging and Sealing Record Annular space Abandonment

Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
0	7.57	Cement grout	120kg

Method of Construction

Cable Tool Rotary (air) Diamond Digging

Rotary (conventional) Air percussion Jetting Other

Rotary (reverse) Boring Driving

Water Use

Domestic Industrial Public Supply Other

Stock Commercial Not used

Irrigation Municipal Cooling & air conditioning

Final Status of Well

Water Supply Recharge well Unfinished Abandoned, (Other)

Observation well Abandoned, insufficient supply Dewatering

Test Hole Abandoned, poor quality Replacement well

Well Contractor/Technician Information

Name of Well Contractor: **DXR-WATER-well-Drilling** Well Contractor's Licence No.: **6006**

Business Address (street name, number, city etc.): **CP 98 - St-Albert - ON**

Name of Well Technician (last name, first name): **Louis Desnoyers** Well Technician's Licence No.: **T-625**

Signature of Technician/Contractor: *Louis Desnoyers* Date Submitted: **2007 04 26**

Location of Well

In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.

Audit No. **Z 71657** Date Well Completed **2007 04 26**

Was the well owner's information package delivered? Yes No Date Delivered **2007 04 26**

Ministry Use Only

Data Source: Contractor **6006**

Date Received **MAY 09 2007** Date of Inspection

Remarks: Well Record Number

Well ID Number: 7266180
 Well Audit Number: Z197003
 Well Tag Number: A131930

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	100 ENTREPRENEUR CRESCENT
Township	CUMBERLAND TOWNSHIP
Lot	024
Concession	CON 11
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	OTTAWA
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 465761.00 Northing: 5020502.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	LOAM			0 m	.2 m
GREY	CLAY			.2 m	2.75 m
GREY	CLAY			2.75 m	4 m
BLUE	CLAY			4 m	7 m

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 m	2.5 m	ELASTIC CLAY	

Method of Construction & Well Use

Method of Construction	Well Use
Digging	Commercial Domestic

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
	PLASTIC	0 m	7.5 m

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
		0 m	3 m

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 6667

Results of Well Yield Testing

After test of well yield, water was	CLEAR
If pumping discontinued, give reason	
Pump intake set at	
Pumping Rate	
Duration of Pumping	
Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	N

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind
	Fresh

Hole Diameter

Depth From	Depth To	Diameter
0 m	3 m	6 m
3 m	5 m	4 m
5 m	7 m	4 m

Audit Number: Z197003

Date Well Completed: March 23, 2015

Date Well Record Received by MOE: July 11, 2016

Updated: June 28, 2018

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Mandy Witteman

From: Public Information Services <publicinformationsservices@tssa.org>
Sent: July-16-18 3:45 PM
To: Mandy Witteman
Subject: RE: Search Records Request (PE4387)

Good afternoon Mandy,

Thank you for your request for confirmation of public information.

I have searched the below noted addresses and I have located the following record:

Inst Number	Context	Address	City	Province	Postal Code	Status
9189889	FS GASOLINE STATION - SELF SERVE	5495 BOUNDARY RD	CUMBERLAND	ON	K4B 1P6	EXPIRED
9995453	FS GASOLINE STATION - FULL SERVE	5495 BOUNDARY RD	CUMBERLAND	ON	K4B 1P6	EXPIRED
10092079	FS GASOLINE STATION - FULL SERVE	5495 BOUNDARY RD	CUMBERLAND	ON	K4B 1P6	Active
11292691	FS LIQUID FUEL TANK	5495 BOUNDARY RD	CUMBERLAND	ON	K4B 1P6	Active
11292649	FS LIQUID FUEL TANK	5495 BOUNDARY RD	CUMBERLAND	ON	K4B 1P6	Active
11292671	FS LIQUID FUEL TANK	5495 BOUNDARY RD	CUMBERLAND	ON	K4B 1P6	Active
11292709	FS LIQUID FUEL TANK	5495 BOUNDARY RD	CUMBERLAND	ON	K4B 1P6	Active
11571736	FS LIQUID FUEL TANK	5495 BOUNDARY RD	CUMBERLAND	ON	K4B 1P6	Active
9310504	FS PRIVATE FUEL OUTLET - SELF SERVE	5425 BOUNDARY RD	CUMBERLAND	ON	K4B 1P6	Active
10901268	FS LIQUID FUEL TANK	5425 BOUNDARY RD	CUMBERLAND	ON	K4B 1P6	Active
10901283	FS LIQUID FUEL TANK	5425 BOUNDARY RD	CUMBERLAND	ON	K4B 1P6	Active

11372189	FS LIQUID FUEL TANK	5425 BOUNDARY RD	CUMBERLAND	ON	K4B 1P6	Active
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For a further search in our archives or for copies of documents, please complete our release of public information form found at <https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?mid=392> and email the completed form to publicinformationservices@tssa.org or through mail along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard) or with a Cheque made payable to TSSA.

Although TSSA believes the information provided pursuant to your request is accurate, please note that TSSA does not warrant this information in any way whatsoever.

Kind regards,

Yalini

From: Mandy Witteman <MWitteman@Patersongroup.ca>
Sent: July 13, 2018 2:03 PM
To: Public Information Services <publicinformationservices@tssa.org>
Subject: Search Records Request (PE4387)

Good afternoon,

Could you please complete a search of your records for **underground/aboveground storage tanks, historical spills or other incidents/infractions** for the following addresses in the City of Ottawa:

Boundary Rd: #5494, 5495, 5485, 5510, 5507 and 5425
Indcum Rd: 145, 120, and 140

Thank you very much!

Best Regards,

Mandy Witteman

patersongroup
solution oriented engineering

154 Colonnade Road South
Ottawa, Ontario, K2E 7J5
Tel: (613) 226-7381 Ext. 339
Fax: (613) 226-6344
Email: mwitteman@patersongroup.ca

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protected from disclosure and it must not be disclosed, copied, forwarded or distributed without authorization. If you have received this message in error, please notify the sender immediately and delete the original message.



345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel.: 416.734.3300
Fax: 416.231.1626
Toll Free: 1.877.682.8772

www.tssa.org

26 September 2018

Mandy Witterman
PATTERSON GROUP
154 Colonnade Road
OTTAWA ON K2E 7J5

Subject: 5425 Boundary Road, Cumberland
Your File No.: PE4387
SR No.: 2368706

Dear Madam/Sir:

We are in receipt of your correspondence wherein you requested information regarding the above noted subject.

A search of our records produced the attached Fuels Safety documents.

The Technical Standards and Safety Act and associated regulations do not require the registration of private fuel outlets. Nor does it require that any documentation on these facilities be submitted to or reviewed or approved by TSSA. As a result, TSSA has limited information on these facilities. TSSA cautions that any information provided may be inaccurate, incomplete or out of date.

TSSA does not make any representations or warranties with respect to the accuracy or completeness of any records released. The requestor assumes all risk in using or relying on the information provided.

Trusting the attached satisfies your request; however, should you have any questions, please contact Public Information at publicinformationservices@tssa.org.

Yours truly,

Yalini Kanagendran

Yalini Kanagendran
Public Information Services

Installed Base

Navigator

Favorites

Home Profile Sign Out Help

Item Instances

General

- Additional Attributes
- Assets
- Party Relationships
 - Owner
 - Parties
 - Accounts
 - Contacts
 - Summary
- Pricing
- Counters
- Contracts
- Notes
- Transactions
- Service Requests
- Repair Orders
- History
- Operating Units
- Configuration

Quick Find Item Instance

Go Advanced Search

Logged In As YKANAGENDRAN

Item Instance Details

Item Instance: 9310504
 Item: FS PRIVATE FUEL OUTLET - SELF SERVE
 Item Description: Fuels Safety Private Fuel Outlet - Self Serve

General Attributes

Organization Name	TSSA Item Master	Instance Name	
Last Version Label 1		Version Label Date	06-JUL-1990 0:00
Revision		New Version Label	
System	<input type="text"/>	External Reference	<input type="text"/>
	<input type="button" value="Go"/>	Accounting Classification	Customer Product
Item Instance Type	<input type="button" value="Go"/>	Lot Number	: not lot-controlled
Operational Status	Not Used	Condition	
Status	Active	UOM	Each
Quantity	1	Start Time	0:00
Start Date	06-JUL-1990	Shipped On Time	
Shipped On Date		End Time	
End Date		Return By Time	
Return By Date		Actual Return Time	
Actual Return Date			

* Indicates required field.
 Time format is HH24:MM
 Note: You do not have permission to make updates in this page.

Creation Completed

Owner

Party Type Party
 Party Name: REGENT POMERLEAU LTD Party Number: 313873
 Account Number: 145486 Account Name: REGENT POMERLEAU LTD

Current Location

* Type Party Site
 Party Name: REGENT POMERLEAU LTD Party Number:
 *Line 1: 5425 BOUNDARY F Site Number:
 Address: 5425 BOUNDARY RD
 CUMBERLAND , K4B 1P6, CA

Installed At

Installed Date 06-JUL-1990

Installed Time 0:00

Time format is HH24:MM

Change in installed date does not change contract date.

Type

Order

Sales Order Number	Sales Order Date
Sales Order Line	
Purchase Order Number	Agreement Name


Item Flags


- BOM Enabled
- IB Trackable
- Inventory Trackable
- Sellable
- Shippable


Item Views

- Merchant
- Customer

Descriptive Flexfields


Context Value 
Select Context Value and click 'Go' to show relevant fields.


Facility Type 2 

Facility Type 3 

Total Capacity - Liquid Fuel Tanks (L)

Total Capacity - Propane Tank s (USWG)

* Previous Facility Type 

Previous Instance Number 



Installed Base



Navigator



Favorites

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View : Item Instance : 10901268

Item **FS LIQUID FUEL TANK** System
 Item Description **FS Liquid Fuel Tank** Owner **REGENT POMERLEAU LTD**
 Account Number **145486**

Other Item Instance Details

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- [Item Instance History](#)
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General | **Location** | **Associations** | **Configuration** | **Counters** | **Notes**

External Reference		New Version Label	
Organization	TSSA Item Master	Last Version Label	1
Revision		Creation Date	06-Jul-1990 00:00:00
Instance Name		Status	Active
Quantity	1	Install Date	06-Jul-1990 00:00:00
UOM	Each	Expiration Date	
Item Instance Type		Shipped On Date	
Item Condition		Return By Date	
Accounting Classification	Customer Product	Actual Return Date	
Operational Status Code	Not Used		

Hide Instance Flex Fields

Show Additional Attributes

Fuel Type1 **Diesel**
Diesel

Fuel Type2

Fuel Type3

Capacity (L) **22700**

Tank Material **Fiberglass (FRP)**
Fiberglass (FRP)

Tank Type **Single Wall UST**
Single Wall UST

FS Corrosion Protection **Fiberglass**
Fiberglass

Overfill Protection Type

Installation Year **1992**

ULC Standard

Manufacturer

Model

Serial Number

Description **UNDERGROUND TANK**

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View : Item Instance : 10901283

Item **FS LIQUID FUEL TANK** System
 Item Description **FS Liquid Fuel Tank** Owner **REGENT POMERLEAU LTD**
 Account Number **145486**

Other Item Instance Details

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- [Operating Units](#)
- [Contracts](#)
- [Orders](#)
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General | **Location** | **Associations** | **Configuration** | **Counters** | **Notes**

External Reference		New Version Label	
Organization	TSSA Item Master	Last Version Label	1
Revision		Creation Date	06-Jul-1990 00:00:00
Instance Name		Status	Active
Quantity	1	Install Date	06-Jul-1990 00:00:00
UOM	Each	Expiration Date	
Item Instance Type		Shipped On Date	
Item Condition		Return By Date	
Accounting Classification	Customer Product	Actual Return Date	
Operational Status Code	Not Used		

[Hide Instance Flex Fields](#)

[Show Additional Attributes](#)

Fuel Type1 **Diesel**
Diesel

Fuel Type2
 Fuel Type3

Capacity (L) **13600**

Tank Material **Fiberglass (FRP)**
Fiberglass (FRP)

Tank Type **Single Wall UST**
Single Wall UST

FS Corrosion Protection **Fiberglass**
Fiberglass

Overfill Protection Type

Installation Year **1985**

ULC Standard
 Manufacturer
 Model

Serial Number
 Description **UNDERGROUND TANK**

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View : Item Instance : 11372189

Item **FS LIQUID FUEL TANK** System
 Item Description **FS Liquid Fuel Tank** Owner **REGENT POMERLEAU LTD**
 Account Number **145486**

Other Item Instance Details

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- [Service Requests](#)
- [Orders and Directives](#)
- [View Relationship Graphically](#)
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General | **Location** | **Associations** | **Configuration** | **Counters** | **Notes**

External Reference		New Version Label	
Organization	TSSA Item Master	Last Version Label	1
Revision		Creation Date	06-Jul-1990 00:00:00
Instance Name		Status	Active
Quantity	1	Install Date	06-Jul-1990 00:00:00
UOM	Each	Expiration Date	
Item Instance Type		Shipped On Date	
Item Condition		Return By Date	
Accounting Classification	Customer Product	Actual Return Date	
Operational Status Code	Not Used		

[Hide Instance Flex Fields](#)

[Show Additional Attributes](#)

Fuel Type1 **Diesel**
Diesel

Fuel Type2

Fuel Type3

Capacity (L) **13600**

Tank Material **Fiberglass (FRP)**
Fiberglass (FRP)

Tank Type **Single Wall UST**
Single Wall UST

FS Corrosion Protection **Fiberglass**
Fiberglass

Overfill Protection Type

Installation Year **1985**

ULC Standard

Manufacturer

Model

Serial Number

Description **UNDERGROUND TANK**

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1 Report Number: FS-2002-0001361
2 File Number: FS PIN 2002-01361

Technical Standards and Safety Act, 2000

3 Location Address: 5425 BOUNDARY RD, CUMBERLAND TWP, ON K4B 1P6, CANADA
4 License/Serial Number: 0001028875-C
5 Job Type: Periodic Inspection (FS)
6 Inspection Date: Mar 06, 2006
7 Facility Type: Gasoline Station - Self Serve
8 Client: REGENT POMERLEAU LTD, 5425 BOUNDARY RD, CUMBERLAND, ON K4B 1P6
The Facility/Equipment is inspected in accordance with Ontario's Technical Standards & Safety Act...

Table with 4 columns: Order No., Code Section, Order Issued To, Compliance Date. Contains two rows of inspection findings related to corrosion protection.

INSPECTION NOTE: ON SITE TO INSPECT PFO INSPECTORS INSTRUCTIONS ISSUED.

* Note: This report is eligible for the Voluntary Compliance option. Should you choose to exercise it, please adhere to the following procedure:

- 1. All Inspectors orders appearing on the inspection report must be complied with.
2. The recipient must complete the Voluntary Compliance Option box.
3. Should TSSA fail to receive the Voluntary Compliance Form by the compliance date, an inspector will re-inspect and bill at double our normal rate.

For more information please contact TSSA at the number above or toll-free at 1-877-682-8772. It is an offence to knowingly make a false statement or to furnish false information under the Act, the Regulations or a Ministers order.

Table with 4 columns: Total Time (2), Travel Time (0.5), Billable Hours (2), Additional Charges.

Voluntary Compliance Option* - Eligible? [X] Yes [] No *Please, refer to guidelines

I hereby confirm that all the Inspector's orders, appearing on this inspection report have been completed.

Print Name _____ Client Signature _____

David Norman

(613) 284-8296

Inspector

Inspector Fax Number



Technical Standards and Safety Authority

Inspector's Report - Part A

Issued under Ontario's Energy Act and/or Gasoline Handling Act

Report No.

E-053220

PLEASE PRINT

Location Inspected <i>POMERLEAU</i>	
Address <i>5425 BOUNDARY RD</i>	
City/town <i>CUMBERLAND</i>	
Postal Code <i>K6A1K0</i>	Tel. No. <i>K4B-156 822 1211</i>
Operator's Name	
Licence No. <i>0001028875</i>	

Owner's Name	
Address	
City/town	
Postal Code	Tel. No.
Fuel Supplier	City

Contractor

Registration No.

OPERATION/SUB	LOC TYPE	POP DEN	FUEL	CLASS	REASON	TRIGGER	ACTION
<i>20</i>	<i>02</i>	<i>01</i>	<i>DIESEL</i>	<i>03</i>	<i>26</i>	<i>02</i>	
ACT	REG	DURATION	TRAVEL	BILLABLE	BILL	OCC RATE	CAUSE
<i>TSSA</i>	<i>217 02</i>	<i>15</i>	<i>0</i>	<i>1.5</i>	<i>1 2 3</i>		
CON FACT	OCC DATE	OCC TIME	FIELD 1	SITE REM	COMPLETED?		
				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Investigation/Audit/Occurrence Summary *ON SITE TO INSPECT PRIVATE FUEL FACILITY*
ALL IN COMPLIANCE AT TIME OF INSPECTION
NOTE POSTAL CODE

Equipment/Appliance/Component	
Type	
Description	
Manufacturer	
Model	Serial No.
Material	
Fuel Input Rating	
Date of Manufacture	
Installation Date	
Supply Pressure	Manifold Pressure

Equipment/Appliance/Component	
Type	
Description	
Manufacturer	
Model	Serial No.
Material	
Fuel Input Rating	
Date of Manufacture	
Installation Date	
Supply Pressure	Manifold Pressure



MAY 16 2002

As a not-for-profit regulatory authority, the Technical Standards and Safety Authority operates on a cost recovery basis. An invoice will be issued for this activity.

Client's Signature <i>[Signature]</i>	Inspector's Name <i>[Signature]</i>	Badge # <i>254</i>	Date of Inspection <i>2002 05 02</i>
--	--	-----------------------	---

FS 09181 (12/99)

Les demandes d'une version française du présent document seront prises en considération.

Head Office



Ministry of Consumer and Commercial Relations
 Ministère de la Consommation et du Commerce

Technical Standards Division
 Division des normes techniques

Inspection and Enforcement Branch
 Direction de l'inspection et de l'application des mesures législatives

Inspector's Report / Rapport de l'inspecteur/inspectrice
Part A/Partie A

Report #/N° de rapport :

D- 17482

OCT. 5 1995
 DATA ENTERED

Location Inspected/Lieu inspecté
REGENT POMERAN

Address/Adresse
5425 BOUNDARY RD.

City/town/Ville
CUMBERLAND TWP

Postal Code/Code postal
K0A 1K0

Operator's Name/Nom de la personne responsable

Licence #/N° de permis
0001028875

Owner's Name / Nom du/de la propriétaire
SAME

Address/Adresse

City/town/Ville

Postal Code/Code postal
 Tel.No. /N° de tél.

Fuel Supplier/Fournisseur de combustible
 City/Ville
PETRO CANADA OTTAWA

Contractor/Entrepreneur
 Registration #/N° d'inscription

OPERATION/ACTIVITÉ 20	SUB TYPE/SOUS-TYPE	LOC TYPE/TYPE DE LIEU 03	POP DENS/DENS. DE POP. 05	FUEL/COMBUSTIBLE GAS DIESEL	CLASS/CATÉGORIE 03	REASON/RAISON 26	TRIGGER/MOTIVÉ PAR : 02
ACTION/MESURES PRISES 01	ACT/LOI Q4A	REG/RÈGLEMENT S21/43	DURATION/DURÉE 1.0	BILLABLE/À FACTURER 1.0	TRAVEL/DÉPLACEMENT .25	BILL FACTURER Y/N (O/N) Y	
DAMAGE/DOMMAGES	OCC RATE/GRAV. DE L'ACC.	CAUSE/CAUSE	CON FACT/FACT. CONTR.	OCC DATE/DATE DE L'ACC.	OCC TIME/HEURE DE L'ACC.	MANDATED MANDAT Y/N (O/N) Y	
FIELD 1/ DOMAINE 1	CALL/INTERVENTION 01	CONSULT CONSULT. Y/N (O/N) N	SITE REM REMÉDIER Y/N (O/N) N				F/U REQ'D? SUIVI REQUIS? Y/N (O/N) N

Comments/Remarques
PHONE AMEND ADDRESS.

Equipment/Appliance/Component / Matériel/Appareil/Composant

Type/Type	Code/Code
Description/Description	
Manufacturer/Fabricant	
Model/Modèle	Serial #/N° de série
Material/Matériel	
Corrosion Protection/Protection contre la corrosion	
Fuel Input Rating/Débit de combustible	
Capacity/Capacité	
Installation Date/Date d'installation	
Manufacture Date/Date de fabrication	
Supply Pressure/Pression d'alimentation	Manifold Pressure/Pression d'admission

Equipment/Appliance/Component / Matériel/Appareil/Composant

Type/Type	Code/Code
Description/Description	
Manufacturer/Fabricant	
Model/Modèle	Serial #/N° de série
Material/Matériel	
Corrosion Protection/Protection contre la corrosion	
Fuel Input Rating/Débit de combustible	
Capacity/Capacité	
Installation Date/Date d'installation	
Manufacture Date/Date de fabrication	
Supply Pressure/Pression d'alimentation	Manifold Pressure/Pression d'admission

RECEIVED
AUG 8 1995
 Technical Standards Division

Client's Signature / Signature du client/de la cliente
[Signature]

Inspector's Name / Nom de l'inspecteur/inspectrice
Eire Lynn

Badge #/N° d'insigne
154

Date of Inspection/Date de l'inspection
1995 07 26



345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel.: 416.734.3300
Fax: 416.231.1626
Toll Free: 1.877.682.8772

www.tssa.org

26 September 2018

Mandy Witterman
PATTERSON GROUP
154 Colonnade Road
OTTAWA ON K2E 7J5

Subject: 5495 Boundary Road, Cumberland
Your File No.: PE4387
SR No.: 2368706

Dear Madam/Sir:

We are in receipt of your correspondence wherein you requested information regarding the above noted subject.

A search of our records produced the attached Fuels Safety documents.

TSSA does not make any representations or warranties with respect to the accuracy or completeness of any records released. The requestor assumes all risk in using or relying on the information provided.

Trusting the attached satisfies your request; however, should you have any questions, please contact Public Information at publicinformationservices@tssa.org.

Yours truly,

Yalini Kanagendran

Yalini Kanagendran
Public Information Services

Item Instances

General

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Quick Find Item Instance

Go Advanced Search

Logged In As YKANAGENDRAN

Item Instance Details

Item Instance: 10092079
 Item: FS GASOLINE STATION - FULL SERVE
 Item Description: FS Gasoline Station - Full Serve

General Attributes

Organization Name	TSSA Item Master	Instance Name	
Last Version Label 1		Version Label Date	13-NOV-1998 0:00
Revision		New Version Label	
System	<input type="text"/>	External Reference	<input type="text"/>
	<input type="button" value="Go"/>	Accounting Classification	Customer Product
Item Instance Type	<input type="button" value="Go"/>	Lot Number	: not lot-controlled
Operational Status	Not Used	Condition	
Status	Active	UOM	Each
Quantity	1	Start Time	0:00
Start Date	13-NOV-1998	Shipped On Time	
Shipped On Date		End Time	
End Date		Return By Time	
Return By Date		Actual Return Time	
Actual Return Date			

* Indicates required field.
 Time format is HH24:MM
 Note: You do not have permission to make updates in this page.

Creation Completed

Owner

Party Type Party
 Party Name: ANIVIC ENTREPRISE INC O/A LUSO GAS
 Account Number: 15988
 Party Number: 42503
 Account Name: ANIVIC ENTREPRISE INC O/A LUSO GAS

Current Location

* Type Party Site
 Party Name Party Number
 *Line 1 Site Number
 Address 5495 BOUNDARY RD
 CUMBERLAND, K4B 1P6, CA

Installed At

Installed Date 13-NOV-1998 0:00

Installed
Time

Time format is HH24:MM

Change in installed date does not change contract date.

Type

Order

Sales Order Number	Sales Order Date
Sales Order Line	
Purchase Order Number	Agreement Name


Item Flags

<input checked="" type="checkbox"/> BOM Enabled	<input type="checkbox"/> Inventory Trackable
<input checked="" type="checkbox"/> IB Trackable	<input type="checkbox"/> Shippable
<input checked="" type="checkbox"/> Sellable	


Item Views


<input type="checkbox"/> Merchant	<input checked="" type="checkbox"/> Customer
-----------------------------------	--

Descriptive Flexfields

Context Value 


Select Context Value and click 'Go' to show relevant fields.


Facility Type 2 

Facility Type 3 

Total Capacity - Liquid Fuel Tanks (L)

Total Capacity - Propane Tank s (USWG)

* Previous Facility Type 

Previous Instance Number 

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Quick Find Item Instance

Go Advanced Search

Logged In As YKANAGENDRAN

Item Instance Details

Item Instance: 9995453
 Item: FS GASOLINE STATION - FULL SERVE
 Item Description: FS Gasoline Station - Full Serve

General Attributes

Organization Name	TSSA Item Master	Instance Name	
Last Version Label 1		Version Label Date	03-JUN-1993 0:00
Revision		New Version Label	
System	<input type="text"/>	External Reference	<input type="text"/>
	<input type="button" value="Go"/>	Accounting Classification	Customer Product
Item Instance Type	<input type="button" value="v"/>	Lot Number	: not lot-controlled
Operational Status	Not Used	Condition	
Status	EXPIRED	UOM	Each
Quantity	1	Start Time	0:00
Start Date	03-JUN-1993	Shipped On Time	
Shipped On Date		End Time	0:00
End Date	04-JUN-1993	Return By Time	
Return By Date		Actual Return Time	
Actual Return Date			

* Indicates required field.
 Time format is HH24:MM
 Note: You do not have permission to make updates in this page.

Creation Completed

Owner

Party Type Party
 Party Name: TOTAL PETROLEUM LTD
 Account Number: 176844
 Party Number: 379213
 Account Name: TOTAL PETROLEUM LTD

Current Location

* Type Party Site
 Party Name Party Number

 *Line 1 Site Number

 Address 5495 BOUNDARY RD
 CUMBERLAND, K4B 1P6, CA

Installed At

Installed Date 03-JUN-1993

Installed Time 0:00

Time format is HH24:MM

Change in installed date does not change contract date.

Type

Order

Sales Order Number	Sales Order Date
Sales Order Line	
Purchase Order Number	Agreement Name


Item Flags


- BOM Enabled
- IB Trackable Inventory Trackable
- Sellable Shippable


Item Views

- Merchant
- Customer

Descriptive Flexfields


Context Value 
Select Context Value and click 'Go' to show relevant fields.


Facility Type 2 

Facility Type 3 

Total Capacity - Liquid Fuel Tanks (L)

Total Capacity - Propane Tank s (USWG)

* Previous Facility Type 

Previous Instance Number 

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- History
- Operating Units
- Configuration

Quick Find Item Instance

Go Advanced Search

Logged In As YKANAGENDRAN

Item Instance Details

Item Instance: 9189889
 Item: FS GASOLINE STATION - SELF SERVE
 Item Description: FS Gasoline Station - Self Serve

General Attributes

Organization Name	TSSA Item Master	Instance Name	
Last Version Label 1		Version Label Date	06-JUN-1989 0:00
Revision		New Version Label	
System	<input type="text"/>	External Reference	<input type="text"/>
	<input type="button" value="Go"/>	Accounting Classification	Customer Product
Item Instance Type	<input type="button" value="v"/>	Lot Number	: not lot-controlled
Operational Status	Not Used	Condition	
Status	EXPIRED	UOM	Each
Quantity	1	Start Time	0:00
Start Date	06-JUN-1989	Shipped On Time	
Shipped On Date		End Time	0:00
End Date	07-JUN-1989	Return By Time	
Return By Date		Actual Return Time	
Actual Return Date			

* Indicates required field.
 Time format is HH24:MM
 Note: You do not have permission to make updates in this page.

Creation Completed

Owner

Party Type Party
 Party Name: TOP OIL RESOURCES LTD
 Account Number: 175526
 Party Number: 376430
 Account Name: TOP OIL RESOURCES LTD

Current Location

* Type Party Site
 Party Name TOP OIL RESOURC
 *Line 1 5495 BOUNDARY F
 Address 5495 BOUNDARY RD
 CUMBERLAND, K4B 1P6, CA

Installed At

Installed Date 06-JUN-1989

Installed Time 0:00

Time format is HH24:MM

Change in installed date does not change contract date.

Type

Order

Sales Order Number	Sales Order Date
Sales Order Line	
Purchase Order Number	Agreement Name


Item Flags


- BOM Enabled
- IB Trackable Inventory Trackable
- Sellable Shippable


Item Views

- Merchant
- Customer

Descriptive Flexfields


Context Value 
Select Context Value and click 'Go' to show relevant fields.


Facility Type 2 

Facility Type 3 

Total Capacity - Liquid Fuel Tanks (L)

Total Capacity - Propane Tanks (USWG)

* Previous Facility Type 

Previous Instance Number 



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View : Item Instance : 11292691

Item	FS LIQUID FUEL TANK	System	
Item Description	FS Liquid Fuel Tank	Owner	ANIVIC ENTREPRISE INC O/A LUSO GAS
		Account Number	15988

Other Item Instance Details

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General | **Location** | **Associations** | **Configuration** | **Counters** | **Notes**

External Reference		New Version Label	
Organization	TSSA Item Master	Last Version Label	1
Revision		Creation Date	19-Jul-2000 20:15:15
Instance Name		Status	Active
Quantity	1	Install Date	03-Jun-2009 00:00:00
UOM	Each	Expiration Date	
Item Instance Type		Shipped On Date	
Item Condition		Return By Date	
Accounting Classification	Customer Product	Actual Return Date	
Operational Status Code	Not Used		

Hide Instance Flex Fields

Show Additional Attributes

Fuel Type1	Diesel <small>Diesel</small>
Fuel Type2	
Fuel Type3	
Capacity (L)	25000
Tank Material	Steel <small>Steel</small>
Tank Type	Single Wall UST <small>Single Wall UST</small>
FS Corrosion Protection	Sacrificial anode <small>Sacrificial anode</small>
Overfill Protection Type	
Installation Year	1989
ULC Standard	
Manufacturer	
Model	
Serial Number	
Description	2009VBS

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View : Item Instance : 11292709

Item	FS LIQUID FUEL TANK	System	
Item Description	FS Liquid Fuel Tank	Owner	ANIVIC ENTREPRISE INC O/A LUSO GAS
		Account Number	15988

Other Item Instance Details

- [Transaction History](#)
- [Item Instance History](#)
- [Operating Units](#)
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- [OMS Orders](#)

General | **Location** | **Associations** | **Configuration** | **Counters** | **Notes**

External Reference		New Version Label	
Organization	TSSA Item Master	Last Version Label	1
Revision		Creation Date	19-Jul-2000 20:15:15
Instance Name		Status	Active
Quantity	1	Install Date	03-Jun-2009 00:00:00
UOM	Each	Expiration Date	
Item Instance Type		Shipped On Date	
Item Condition		Return By Date	
Accounting Classification	Customer Product	Actual Return Date	
Operational Status Code	Not Used		

[Hide Instance Flex Fields](#)

[Show Additional Attributes](#)

Fuel Type1	Gasoline <small>Gasoline</small>
Fuel Type2	
Fuel Type3	
Capacity (L)	15000
Tank Material	Steel <small>Steel</small>
Tank Type	Single Wall UST <small>Single Wall UST</small>
FS Corrosion Protection	Sacrificial anode <small>Sacrificial anode</small>
Overfill Protection Type	
Installation Year	1989
ULC Standard	
Manufacturer	
Model	
Serial Number	
Description	2009VBS ETHANOL

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View : Item Instance : 11292649

Item	FS LIQUID FUEL TANK	System	
Item Description	FS Liquid Fuel Tank	Owner	ANIVIC ENTREPRISE INC O/A LUSO GAS
		Account Number	15988

Other Item Instance Details

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- [Item Instance History](#)
- [Operating Units](#)
- [Contracts](#)
- [Orders](#)
- [Service Requests](#)
- [Orders and Directives](#)
- [View Relationship Graphically](#)
- [OMS Orders](#)

General | **Location** | **Associations** | **Configuration** | **Counters** | **Notes**

External Reference		New Version Label	
Organization	TSSA Item Master	Last Version Label	1
Revision		Creation Date	19-Jul-2000 20:15:15
Instance Name		Status	Active
Quantity	1	Install Date	03-Jun-2009 00:00:00
UOM	Each	Expiration Date	
Item Instance Type		Shipped On Date	
Item Condition		Return By Date	
Accounting Classification	Customer Product	Actual Return Date	
Operational Status Code	Not Used		

[Hide Instance Flex Fields](#)

[Show Additional Attributes](#)

Fuel Type1	Gasoline <small>Gasoline</small>
Fuel Type2	
Fuel Type3	
Capacity (L)	35000
Tank Material	Steel <small>Steel</small>
Tank Type	Single Wall UST <small>Single Wall UST</small>
FS Corrosion Protection	Sacrificial anode <small>Sacrificial anode</small>
Overfill Protection Type	
Installation Year	1989
ULC Standard	
Manufacturer	
Model	
Serial Number	
Description	2009VBS REGULAR

[Return to Instance Search](#)

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Item Instance | **Counters** | **Mass Update**

Item Instances | [Systems](#) | [Transactions](#)

[Item Instance: Item Instances >](#) [Item Instance Search >](#)

View : Item Instance : 11292671

Item	FS LIQUID FUEL TANK	System	
Item Description	FS Liquid Fuel Tank	Owner	ANIVIC ENTREPRISE INC O/A LUSO GAS
		Account Number	15988

Other Item Instance Details

- [Transaction History](#)
- [Item Instance History](#)
- [Operating Units](#)
- [Contracts](#)
- [Orders](#)
- [Service Requests](#)
- [Orders and Directives](#)
- [View Relationship Graphically](#)
- [OMS Orders](#)

General | **Location** | **Associations** | **Configuration** | **Counters** | **Notes**

External Reference		New Version Label	
Organization	TSSA Item Master	Last Version Label	1
Revision		Creation Date	19-Jul-2000 20:15:15
Instance Name		Status	Active
Quantity	1	Install Date	03-Jun-2009 00:00:00
UOM	Each	Expiration Date	
Item Instance Type		Shipped On Date	
Item Condition		Return By Date	
Accounting Classification	Customer Product	Actual Return Date	
Operational Status Code	Not Used		

[Hide Instance Flex Fields](#)

[Show Additional Attributes](#)

Fuel Type1	Gasoline <small>Gasoline</small>
Fuel Type2	
Fuel Type3	
Capacity (L)	25000
Tank Material	Steel <small>Steel</small>
Tank Type	Single Wall UST <small>Single Wall UST</small>
FS Corrosion Protection	Sacrificial anode <small>Sacrificial anode</small>
Overfill Protection Type	
Installation Year	1989
ULC Standard	
Manufacturer	
Model	
Serial Number	
Description	2009VBS REGULAR

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Item Instance | **Counters** | **Mass Update**

Item Instances | [Systems](#) | [Transactions](#)

[Item Instance: Item Instances](#) > [Item Instance Search](#) >

View : Item Instance : 11571736

Item	FS LIQUID FUEL TANK	System	
Item Description	FS Liquid Fuel Tank	Owner	ANIVIC ENTREPRISE INC O/A LUSO GAS
		Account Number	15988

Other Item Instance Details

- [Transaction History](#)
- [Item Instance History](#)
- [Operating Units](#)
- [Contracts](#)
- [Orders](#)
- [Service Requests](#)
- [Orders and Directives](#)
- [View Relationship Graphically](#)
- [OMS Orders](#)

General | **Location** | **Associations** | **Configuration** | **Counters** | **Notes**

External Reference		New Version Label	
Organization	TSSA Item Master	Last Version Label	1
Revision		Creation Date	19-Jul-2000 20:15:15
Instance Name		Status	Active
Quantity	1	Install Date	03-Jun-2009 00:00:00
UOM	Each	Expiration Date	
Item Instance Type		Shipped On Date	
Item Condition		Return By Date	
Accounting Classification	Customer Product	Actual Return Date	
Operational Status Code	Not Used		

[Hide Instance Flex Fields](#)

[Show Additional Attributes](#)

Fuel Type1	Gasoline <small>Gasoline</small>
Fuel Type2	
Fuel Type3	
Capacity (L)	9200
Tank Material	Steel <small>Steel</small>
Tank Type	Double Wall UST <small>Double Wall UST</small>
FS Corrosion Protection	Sacrificial anode <small>Sacrificial anode</small>
Overfill Protection Type	
Installation Year	1998
ULC Standard	
Manufacturer	
Model	
Serial Number	
Description	2009VBS REGULAR

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Service Request #	1704554
Inspection Report #	7325211

Inspection Address: 5495 BOUNDARY RD CUMBERLAND;ON CA K4B 1P6	Reference Number(s):	Inspection Completion Date: SEP 06, 2018
	Facility Type: FS Gasoline Station - Full Serve	Equipment Type:
Customer Name and Address: ANIVIC ENTREPRISE INC O/A LUSO GAS 5495 BOUNDARY RD CUMBERLAND;ON CA K4B 1P6	Task Type: FS-Follow up LF Inspect	
	The facility/equipment is inspected in accordance with Ontario's Technical Standards & Safety Act and the appropriate regulations and codes. When an Inspector's order is issued, time limits for compliance reflect the severity of the violation and serve to avoid disruption of service.	

Orders Issued To: PERSONS ON SITE

Line	Reference and Order(s)	Compliance Date
74034 2-2	Liquid Fuels Handling Code 2007. 2.4.2.1 Where an underground storage tank is out of service for 2 years or more, the owner of the tank system or the owner of the property on which the tank is located shall remove the tank from the ground. THIS SITE HAS NOT BEEN IN USE FOR MORE THAN 2 YEARS TAKES MUST BE REMOVED.	OCT 05, 2018
74034 2-3	Liquid Fuels Handling Code 2007. 8.3.1 Where an underground storage tank(s) has been removed permanently and the property no longer maintains any fuel storage equipment or tank systems, the owner or operator of the facility, the owner or operator of the storage tank systems, or the owner of the property on which the equipment is installed, as the case may be, shall: (a) submit an assessment report to TSSA that delineates the full extent of any petroleum product that has escaped into the environment or inside a building both on site and, where necessary and practical, off site; and (b) immediately notify the Ontario Ministry of the Environment in accordance with the Environmental Protection Act, as amended, and the Ontario Water Resources Act, as amended. This report shall be submitted electronically to: fsubmissions@tssa.org or shall be mailed to: Technical Standards and Safety Authority 3300 Bloor Street 14th Floor, Centre Tower Toronto, Ontario, M8X 2X4 NOTE: All submissions MUST be accompanied by a completed Environmental Review Services Form. If the form is incomplete the report will not be reviewed and the file will not be closed. Copies of the form are available at http://www.tssa.org/regulated/fuels/fuelsForms.asp TSSA does not consider the matter resolved and the file closed until written correspondence from the TSSA engineering department has been provided upon review of the report submission.	OCT 05, 2018
74034 2-4	Technical Standards and Safety Act. 37 (1) - Offences Every person who, (a) contravenes or fails to comply with any provision of this Act, the regulations or a Minister's order; (b) knowingly makes a false statement or furnishes false information under this Act, the regulations or a Minister's order; (c) contravenes or fails to comply with a term or condition of an authorization; (d) contravenes or fails to comply with an order or requirement of a director or an inspector, or obstructs an inspector, is guilty of an offence and on conviction is liable to a fine of not more than \$50,000 or to imprisonment for a term of not more than one year, or to both, or, if the person is a body corporate, to a fine of not more than \$1,000,000. 2000, c. 16, s. 37 (1); 2009, c. 28, s. 14 (1). NOTE: In a site inspection done on September 5, 2018 at 5495 Boundry Road in Cumberland of the former Luso Gas station it has revealed that the site is closed. The fuel tanks still remain on site and have not been removed and it is not clear if the fuel has been removed from the tanks. Pursuant to my authority under section 21(2) of the Technical Standards and Safety Act, 2000, S.O. 2000, as the (person, corporation, company, party) with the authority to correct the contravention, I order you to have a persons qualified remove the fuel tanks and complete the Environmental Assessment report by the compliance date as given.	OCT 05, 2018

Customer Signature & Position / Date:		Inspector Name: Hutchinson, Mark	Inspector Contact Number: 613-537-9963
Report Received By:	Customer Contact Number:	Inspector Email: mhutchinson@tssa.org	Inspector Fax: 613-537-5236

As a not-for-profit regulatory authority, TSSA operates on a cost recovery basis. An Invoice will be issued for the Total Charges Incurred.

(Note: This is not an invoice)



Service Request #	1704554
Inspection Report #	7325211

Inspection Address: 5495 BOUNDARY RD CUMBERLAND;ON CA K4B 1P6	Reference Number(s):	Inspection Completion Date: SEP 06, 2018
	Facility Type: FS Gasoline Station - Full Serve	Equipment Type:
Customer Name and Address: ANIVIC ENTREPRISE INC O/A LUSO GAS 5495 BOUNDARY RD CUMBERLAND;ON CA K4B 1P6	Task Type: FS-Follow up LF Inspect	
	The facility/equipment is inspected in accordance with Ontario's Technical Standards & Safety Act and the appropriate regulations and codes. When an Inspector's order is issued, time limits for compliance reflect the severity of the violation and serve to avoid disruption of service.	

Issued on September 6, 2018

<p>Task Notes</p> <p>In a site inspection done on September 5, 2018 at 5495 Boundry Road in Cumberland of the former Luso Gas station it has revealed that the site is closed.</p> <p>The fuel tanks still remain on site and have not been removed and it in not clear if the fuel has been removed from the tanks.</p> <p>The site has provided NO information to our office as requested.</p> <p>NEW orders have been issued</p> <p>ALL INSTRUCTIONS MUST BE COMPLETED BY THE DUE DATE AND SENT TO TSSA OR A BILLABLE FOLLOW UP INSPECTIONS WILL APPLY.</p> <p>THIS REPORT IS FOR NON COMPLIANCE AUDIT. INSPECTOR HAS ISSUED TIME SENSITIVE INSTRUCTIONS.</p> <p>TSSA's time involved with this inspection will be billed to the above named client in the form of cost recovery fees by authority of Section 19 of the TSSAct, 2011 and according to TSSA billing policy.</p> <p>Pursuant to my authority under section 21 of the TSSAct, 2011, you are hereby ordered to comply with the above orders forthwith.</p>
--

Customer Signature & Position / Date:		Inspector Name: Hutchinson, Mark	Inspector Contact Number: 613-537-9963
Report Received By:	Customer Contact Number:	Inspector Email: mhutchinson@tssa.org	Inspector Fax: 613-537-5236

As a not-for-profit regulatory authority, TSSA operates on a cost recovery basis. An Invoice will be issued for the Total Charges Incurred.
(Note: This is not an invoice)



Service Request #	1704554
Inspection Report #	5834284

Inspection Address: 5495 BOUNDARY RD CUMBERLAND;ON CA K4B 1P6	Reference Number(s):	Inspection Completion Date: OCT 07, 2015
	Facility Type: FS Gasoline Station - Full Serve	Equipment Type:
Customer Name and Address: ANIVIC ENTREPRISE INC O/A LUSO GAS 5495 BOUNDARY RD CUMBERLAND;ON CA K4B 1P6	Task Type: FS-Periodic LF Inspection	
	The facility/equipment is inspected in accordance with Ontario's Technical Standards & Safety Act and the appropriate regulations and codes. When an Inspector's order is issued, time limits for compliance reflect the severity of the violation and serve to avoid disruption of service.	

Orders Issued To: PERSONS ON SITE

Line	Reference and Order(s)	Compliance Date
74034 2-2	Liquid Fuels Handling Code 2007. 2.4.2.1 Where an underground storage tank is out of service for 2 years or more, the owner of the tank system or the owner of the property on which the tank is located shall remove the tank from the ground. THIS SITE HAS NOT BEEN IN USE FOR MORE THAN 2 YEARS TAKES MUST BE REMOVED.	JUN 23, 2018
74034 2-3	Liquid Fuels Handling Code 2007. 8.3.1 Where an underground storage tank(s) has been removed permanently and the property no longer maintains any fuel storage equipment or tank systems, the owner or operator of the facility, the owner or operator of the storage tank systems, or the owner of the property on which the equipment is installed, as the case may be, shall: (a) submit an assessment report to TSSA that delineates the full extent of any petroleum product that has escaped into the environment or inside a building both on site and, where necessary and practical, off site; and (b) immediately notify the Ontario Ministry of the Environment in accordance with the Environmental Protection Act, as amended, and the Ontario Water Resources Act, as amended. This report shall be submitted electronically to: fsubmissions@tssa.org or shall be mailed to: Technical Standards and Safety Authority 3300 Bloor Street 14th Floor, Centre Tower Toronto, Ontario, M8X 2X4 NOTE: All submissions MUST be accompanied by a completed Environmental Review Services Form. If the form is incomplete the report will not be reviewed and the file will not be closed. Copies of the form are available at http://www.tssa.org/regulated/fuels/fuelsForms.asp TSSA does not consider the matter resolved and the file closed until written correspondence from the TSSA engineering department has been provided upon review of the report submission.	JUN 23, 2018

Task Notes

FIND ATTACHED YOUR COPY OF THE FUEL SAFETY INSPECTION ON OCT 7 2015. SHOULD YOU HAVE ANY QUESTIONS ABOUT THIS REPORT, CONTACT DAVID NORMAN AT 613-2977422

If you have questions regarding your invoice, when received, contact TSSA billing department by telephone at 1-877-682-TSSA (8772) or customerservices@tssa.org

TRAVEL, SITE INSPECTION DOCUMENTATION AND REPORT PREPARATION BILLED IN ACCORDANCE WITH TSSA POLICY

This inspector has no control over billing.

ON SITE FOR REGULAR AUDIT. SITE OUT OF SERVICE FOR 2 PLUS YEARE ORDERS TO REMOVE TANKS LINES AND COMPLETE AN ENVIRONMENTAL

INSPECTOR HAS ISSUED TIME SENSITIVE INSTRUCTIONS.

THIS IS ASSIGNED AS A FS Declaration of Compliance AND MUST BE FILED OUT AND SENT IN TO ADDRESS OR FAX AT BOTTOM OF FORM.

ALL INSTRUCTIONS MUST BE COMPLETED BY THE DUE DATE AND SENT TO TSSA OR A BILLABLE FOLLOW UP INSPECTIONS

Customer Signature & Position / Date:		Inspector Name: Norman, David	Inspector Contact Number: 613-284-8284
Report Received By:	Customer Contact Number:	Inspector Email: DNorman@tssa.org	Inspector Fax: 613-284-8296

As a not-for-profit regulatory authority, TSSA operates on a cost recovery basis. An Invoice will be issued for the Total Charges Incurred.

(Note: This is not an invoice)



Service Request #	1704554
Inspection Report #	5834284

Inspection Address: 5495 BOUNDARY RD CUMBERLAND;ON CA K4B 1P6	Reference Number(s):	Inspection Completion Date: OCT 07, 2015
	Facility Type: FS Gasoline Station - Full Serve	Equipment Type:
Customer Name and Address: ANIVIC ENTREPRISE INC O/A LUSO GAS 5495 BOUNDARY RD CUMBERLAND;ON CA K4B 1P6	Task Type: FS-Periodic LF Inspection	The facility/equipment is inspected in accordance with Ontario's Technical Standards & Safety Act and the appropriate regulations and codes. When an Inspector's order is issued, time limits for compliance reflect the severity of the violation and serve to avoid disruption of service.

WILL APPLY.

YOU ARE ORDERED TO COMPLY WITH THE ABOVE INSTRUCTIONS BY COMPLIANCE DATE AS PER Section 19 of the TSSAct, 2000!

ALL PETROLEUM WORK TO BE COMPLETED BY A LICENSED PETROLEUM MECHANIC!

Every person who,(a) contravenes or fails to comply with any provision of this Act, the regulations or a Minister's order;(b) knowingly makes a false statement or furnishes false information under this Act, the regulations or a Minister's order;(c) contravenes or fails to comply with a term or condition of an authorization;(d) contravenes or fails to comply with an order or requirement of an inspector or obstructs an inspector, is guilty of an offence and on conviction is liable to a fine of not more than \$50,000 or to imprisonment for a term of not more than one year, or to both, or, if the person is a body corporate, to a fine of not more than \$1,000,000.(Technical Standards and Safety Act, 2000, Section 37 (1))

Standard Notes

This Inspection Report contains Inspector's Orders with a compliance date(s) and is eligible for Declaration of Compliance. Documented proof that the order(s) have been complied with before the compliance date must be submitted to TSSA This documented proof shall include, but is not limited to, any of the following where applicable: Photocopies of Licenses, Certificates, Registrations, Invoices, and/or Work Orders, Photographs, and Name, Certificate number, and Signature (where applicable) of the person who has performed the corrective action.

YOU MUST EXERCISE THIS OPTION TO AVOID A FOLLOW UP INSPECTION AND THE ASSOCIATED FEES WHICH WILL RESULT.

Reporting requirements are as follows:

- All Inspector's Orders (directives) appearing on the inspection report must be complied with.
- A person who has legal signing authority on behalf of the Owner or User must complete the Declaration of Compliance and submit this to TSSA via EMAIL or FAX on or before the last compliance date appearing on the inspection report.

Note: Declaration of Compliance is subject to an audit process which may result in additional inspection fees.

Declaration of Compliance

I, the undersigned hereby declare that all orders on this Inspection Report have been complied with.

Printed Name _____

Title _____

Signature _____ Date _____

Contact Email Address _____ Contact Phone Number _____

It is an offence to knowingly make a false statement or to furnish false information under The Act, the regulations or a ministers order; Technical Standards and Safety Act, 2000; sect. 37.

Submission:
Send an EMAIL (dcreporting@tssa.org) or FAX (416-734-6242) complete with the following information

- The Service Request number from the Inspection Report as the Subject line.
- A copy of the Inspection Report with the Declaration of Compliance portion completed and attached.

Customer Signature & Position / Date:	Inspector Name: Norman, David	Inspector Contact Number: 613-284-8284
Report Received By:	Customer Contact Number:	Inspector Email: DNorman@tssa.org
		Inspector Fax: 613-284-8296

As a not-for-profit regulatory authority, TSSA operates on a cost recovery basis. An Invoice will be issued for the Total Charges Incurred.
(Note: This is not an invoice)



Service Request #	1704554
Inspection Report #	5834284

Inspection Address: 5495 BOUNDARY RD CUMBERLAND;ON CA K4B 1P6	Reference Number(s):	Inspection Completion Date: OCT 07, 2015
	Facility Type: FS Gasoline Station - Full Serve	Equipment Type:
Customer Name and Address: ANIVIC ENTREPRISE INC O/A LUSO GAS 5495 BOUNDARY RD CUMBERLAND;ON CA K4B 1P6	Task Type: FS-Periodic LF Inspection	
	The facility/equipment is inspected in accordance with Ontario's Technical Standards & Safety Act and the appropriate regulations and codes. When an Inspector's order is issued, time limits for compliance reflect the severity of the violation and serve to avoid disruption of service.	

For more information please contact TSSA at 416-734-3599 or email dcreporting@tssa.org

Other Charges Detail			
Date	Activity	Qty	Comments
OCT 07, 2015	Billing	1	

Customer Signature & Position / Date:		Inspector Name: Norman, David	Inspector Contact Number: 613-284-8284
Report Received By:	Customer Contact Number:	Inspector Email: DNorman@tssa.org	Inspector Fax: 613-284-8296

As a not-for-profit regulatory authority, TSSA operates on a cost recovery basis. An Invoice will be issued for the Total Charges Incurred.
(Note: This is not an invoice)



Service Request #	988630
Inspection Report #	4233977

Inspection Address: 5495 BOUNDARY RD CUMBERLAND;ON CA K4B 1P6	Reference Number(s):	Inspection Completion Date: JAN 21, 2013
	Facility Type: FS Gasoline Station - Full Serve	Equipment Type:
Customer Name and Address: ANIVIC ENTREPRISE INC O/A LUSO GAS 5495 BOUNDARY RD CUMBERLAND;ON CA K4B 1P6	Task Type: FS-Shutdown LF Inspect	The facility/equipment is inspected in accordance with Ontario's Technical Standards & Safety Act and the appropriate regulations and codes. When an Inspector's order is issued, time limits for compliance reflect the severity of the violation and serve to avoid disruption of service.

Orders Issued To: ANIVIC ENTREPRISE INC O/A LUSO GAS

Line	Reference and Order(s)	Compliance Date
62721 9-1	Liquid Fuels Handling Code 2007. 2.4.2.1 Where an underground storage tank is out of service for 2 years or more, the owner of the tank system or the owner of the property on which the tank is located shall remove the tank from the ground. 8.3.1 Where an underground storage tank(s) has been removed permanently and the property no longer maintains any fuel storage equipment or tank systems, the owner or operator of the facility, the owner or operator of the storage tank systems, or the owner of the property on which the equipment is installed, as the case may be, shall (a) submit an assessment report to TSSA that delineates the full extent of any petroleum product that has escaped into the environment or inside a building both on site and, where necessary and practical, off site; and (b) immediately notify the Ontario Ministry of the Environment in accordance with the Environmental Protection Act, as amended, and the Ontario Water Resources Act, as amended. THE REPORT MUST MEET THE CRITERIA AS SET FORTH IN TSSA Environmental Management Protocol for Operating Fuel Handling Sites in Ontario . THE REPORT SHALL BE SENT TO TSSA WEST TOWER 14th FLOOR ENVIRONMENTAL OFFICE, 3300 BLOOR STREET WEST TORONTO, ONTARIO M8X 2X4 OR E-MAIL TO fsubmissions@tssa.org	APR 30, 2013

Task Notes
<p>FIND ATTACHED YOUR COPY OF THE FUEL SAFETY INSPECTION ON JAN 21 2013. SHOULD YOU HAVE ANY QUESTIONS, CONTACT DAVID NORMAN AT 613-2977422 ALL INSTRUCTIONS MUST BE COMPLETED BY THE DUE DATE OR BILLABLE FOLLOW UP INSPECTIONS WILL APPLY.</p> <p>ATTEND SITE RE SHUTDOWN ORDER RE SITE OUT OF SERVICE MORE THAN 2 YEARS. AS PER ORDERS ALL PETROLEUM EQUIPMENT MUST BE REMOVED YOU ARE ORDERED TO COMPLY WITH THE ABOVE INSTRUCTIONS BY COMPLIANCE DATE!</p> <p>ALL PETROLEUM WORK TO BE COMPLETED BY A LICENSED PETROLEUM MECHANIC!</p> <p>"TO BE COMPLETED: BY PETROLEUM MECHANIC DEFICIENCY ORDER # EG 1 2 COMPLETED: _____,</p> <p>PRINT NAME: _____, SIGN -----</p> <p>CERTIFICATE # : _____.</p>

Customer Signature & Position / Date:	Inspector Name: Norman, David	Inspector Contact Number: 613-284-8284
Report Received By:	Customer Contact Number:	Inspector Email: DNorman@tssa.org
		Inspector Fax: 613-284-8296

As a not-for-profit regulatory authority, TSSA operates on a cost recovery basis. An Invoice will be issued for the Total Charges Incurred.
(Note: This is not an invoice)



Service Request #	988630
Inspection Report #	4233977

Inspection Address: 5495 BOUNDARY RD CUMBERLAND;ON CA K4B 1P6	Reference Number(s):	Inspection Completion Date: JAN 21, 2013
	Facility Type: FS Gasoline Station - Full Serve	Equipment Type:
Customer Name and Address: ANVIC ENTREPRISE INC O/A LUSO GAS 5495 BOUNDARY RD CUMBERLAND;ON CA K4B 1P6	Task Type: FS-Shutdown LF Inspect	
	The facility/equipment is inspected in accordance with Ontario's Technical Standards & Safety Act and the appropriate regulations and codes. When an Inspector's order is issued, time limits for compliance reflect the severity of the violation and serve to avoid disruption of service.	

COMPANY'S NAME: _____ "

Standard Notes	
<p>This Inspection Report contains Inspector's Orders with a compliance date(s) and is eligible for Declaration of Compliance. Documented proof that the order(s) have been complied with before the compliance date must be submitted to TSSA This documented proof shall include, but is not limited to, any of the following where applicable: Photocopies of Licenses, Certificates, Registrations, Invoices, and/or Work Orders, Photographs, and Name, Certificate number, and Signature (where applicable) of the person who has performed the corrective action. YOU MUST EXERCISE THIS OPTION TO AVOID A FOLLOW UP INSPECTION AND THE ASSOCIATED FEES WHICH WILL RESULT. Reporting requirements are as follows;</p> <ol style="list-style-type: none"> All Inspector's Orders (directives) appearing on the inspection report must be complied with. A person who has legal signing authority on behalf of the Owner or User must complete the Declaration of Compliance and submit this to TSSA via EMAIL or FAX on or before the last compliance date appearing on the inspection report. <p>Note: Declaration of Compliance is subject to an audit process which may result in additional inspection fees.</p> <p>Declaration of Compliance</p> <p>I, the undersigned hereby declare that all orders on this Inspection Report have been complied with.</p> <p>Printed Name _____</p> <p>Title _____</p> <p>Signature _____ Date _____</p> <p>Contact Email Address _____ Contact Phone Number _____</p> <p>It is an offence to knowingly make a false statement or to furnish false information under The Act, the regulations or a ministers order; Technical Standards and Safety Act, 2000; sect. 37.</p> <p>Submission: Send an EMAIL (dcreporting@tssa.org) or FAX (416-231-5435) complete with the following information</p> <ol style="list-style-type: none"> The Service Request number from the Inspection Report as the Subject line. A copy of the Inspection Report with the Declaration of Compliance portion completed and attached. <p>For more information please contact TSSA at 416-734-3599 or email dcreporting@tssa.org</p>	

Labour Detail			
Date	Activity	Hours	Comments
JAN 21, 2013	Inspection	2	INSPECT FACILITY PREPARE AND MAIL ORDERS
Customer Signature & Position / Date:		Inspector Name: Norman, David	Inspector Contact Number: 613-284-8284
Report Received By:		Customer Contact Number:	Inspector Email: DNorman@tssa.org
			Inspector Fax: 613-284-8296

As a not-for-profit regulatory authority, TSSA operates on a cost recovery basis. An Invoice will be issued for the Total Charges Incurred.
 (Note: This is not an invoice)



**TECHNICAL STANDARDS
and SAFETY AUTHORITY**

14th Floor, Centre Tower
3300 Bloor Street West
Toronto, Ontario M8X 2X4
Toll free 1-877-682-8772
Fax (416) 231-1626
www.tssa.org

FS Inspection Report

Service Request #	988630
Inspection Report #	4233977

Inspection Address: 5495 BOUNDARY RD CUMBERLAND;ON CA K4B 1P6	Reference Number(s):	Inspection Completion Date: JAN 21, 2013
	Facility Type: FS Gasoline Station - Full Serve	Equipment Type:
Customer Name and Address: ANIVIC ENTREPRISE INC O/A LUSO GAS 5495 BOUNDARY RD CUMBERLAND;ON CA K4B 1P6	Task Type: FS-Shutdown LF Inspect	
	The facility/equipment is inspected in accordance with Ontario's Technical Standards & Safety Act and the appropriate regulations and codes. When an Inspector's order is issued, time limits for compliance reflect the severity of the violation and serve to avoid disruption of service.	

JAN 21, 2013	Travel	1.5	TRAVEL TO SITE 92
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Customer Signature & Position / Date:		Inspector Name: Norman, David	Inspector Contact Number: 613-284-8284
Report Received By:	Customer Contact Number:	Inspector Email: DNorman@tssa.org	Inspector Fax: 613-284-8296

As a not-for-profit regulatory authority, TSSA operates on a cost recovery basis. An Invoice will be issued for the Total Charges Incurred.
(Note: This is not an invoice)



Service Request #	82486
Inspection Report #	2143661

Inspection Address: 5495 BOUNDARY RD CUMBERLAND;ON CA K4B 1P6	Reference Number(s):	Inspection Completion Date: JUN 14, 2011
	Facility Type: FS Gasoline Station - Full Serve	Equipment Type:
Customer Name and Address: ANIVIC ENTREPRISE INC O/A LUSO GAS 5495 BOUNDARY RD CUMBERLAND;ON CA K4B 1P6	Task Type: FS-Periodic LF Inspection	
	The facility/equipment is inspected in accordance with Ontario's Technical Standards & Safety Act and the appropriate regulations and codes. When an Inspector's order is issued, time limits for compliance reflect the severity of the violation and serve to avoid disruption of service.	

Task Notes
SITE NOT IN OPERATION CANCEL LICENCE

Standard Notes
TSSA inspected the above mentioned location and did not find any non-compliances at the time of inspection.

Customer Signature & Position / Date:	Inspector Name: Norman, David	Inspector Contact Number: 613-284-8284
Report Received By:	Customer Contact Number:	Inspector Email: DNorman@tssa.org
		Inspector Fax: 613-284-8296

As a not-for-profit regulatory authority, TSSA operates on a cost recovery basis. An Invoice will be issued for the Total Charges Incurred.
(Note: This is not an invoice)

1 Report Number: FS-2002-0010608
2 File Number: FS PIN 2002-10608

Technical Standards and Safety Act, 2000

3 Location Address 5495 BOUNDARY RD CUMBERLAND, ON K4B 1P6 CANADA		4 License/Serial Number 0076536275-C	5 Job Type Periodic Inspection (FS)	6 Inspection Date Mar 06, 2006
		7 Facility Type Gasoline Station - Full Serve		
8 Client ANIVIC ENTREPRISE INC O/A LUSO GAS 5495 BOUNDARY RD CUMBERLAND, ON K4B 1P6		The Facility/Equipment is inspected in accordance with Ontario's Technical Standards & Safety Act and the appropriate regulations and codes. When an Inspector's order is issued, time limits for compliance reflect the severity of the violation and serve to avoid disruption of service. In the interim period the recipient must ensure that additional precautions are taken for safe use.		

9 Order No.	10 Code Section	11 Order Issued To	12 Compliance Date
	LFHC 2.3.1.3.	Record of corrosion test missing/test failed - The corrosion protection system for an underground storage tank system shall be tested and certified in writing to be in working order by a professional engineer or by a person with qualifications approved by the Director, at intervals exceeding two (2) years. The record of testing and certification shall be retained in accordance with sections 1.1.3 and 1.1.4. OVER DUE	Apr 15, 2006
	LFHC 4.5.1.8.	No corrosion protection and/or does not meet standard - Steel piping and vent lines in direct contact with backfill shall be provided with corrosion protection in accordance with ULC Standard S603.1 or with an impressed current cathodic protection system.	Apr 15, 2006
	LFHC 1.1.5.	Unapproved hoses and nozzels - Equipment installed at a facility or on a tank vehicle shall be approved and installed in accordance with the requirements of this Document and the manufacturer's instructions, and shall be appropriate for the service for which it is intended. PUMP 4	Apr 15, 2006

INSPECTION NOTE: ON SITE TO INSPECT FACILITY INSPECTORS INSTRUCTIONS ISSUED.

* Note: This report is eligible for the Voluntary Compliance option. Should you choose to exercise it, please adhere to the following procedure:

1. All Inspectors orders appearing on the inspection report must be complied with.
2. The recipient must complete the Voluntary Compliance Option box. After complying with the above conditions, this inspection report must be returned directly to TSSA head office via fax or mail, by the last compliance date appearing on the inspection report.
3. Should TSSA fail to receive the Voluntary Compliance Form by the compliance date, an inspector will re-inspect and bill at double our normal rate.

For more information please contact TSSA at the number above or toll-free at 1-877-682-8772. It is an offence to knowingly make a false statement or to furnish false information under the Act, the Regulations or a Ministers order. (Technical Standards and Safety Act, 2000; Sect 37)

13 Total Time 2	14 Travel Time 0.5	15 Billable Hours 0	16 Additional Charges
---------------------------	------------------------------	-------------------------------	------------------------------

Voluntary Compliance Option* - Eligible? Yes No *Please, refer to guidelines

I hereby confirm that all the Inspector's orders, appearing on this inspection report have been completed.

Print Name _____ Client Signature _____

David Norman

(613) 284-8296

Inspector

Inspector Fax Number



Technical Standards and Safety Authority

Inspector's Report - Part A

Issued under Ontario's Energy Act and/or Gasoline Handling Act

Report No.

E- 051805

PLEASE PRINT

Location Inspected
LUSO GAS

Address
5495 BOUNDARY RD.

City/town
CUMBERLAND

Postal Code
K4B-1P6

Tel. No.
613 822 1863

Operator's Name
MORRIS CHAMOUN

Licence No.
0076536275

Owner's Name

Address

City/town

Postal Code

Tel. No.

Fuel Supplier

City

Contractor

Registration No.

OPERATION/SUB	LOC TYPE	POP DEN	FUEL	CLASS	REASON	TRIGGER	ACTION
<i>10</i>	<i>02</i>	<i>01</i>	<i>GAS</i>	<i>03</i>	<i>26</i>	<i>01</i>	<i>01</i>
ACT	REG	DURATION	TRAVEL	BILLABLE	BILL	OCC RATE	CAUSE
<i>GHA</i>	<i>50193</i>	<i>2</i>	<i>.5</i>	<i>1.5</i>	<i>1 2 3</i>	<i>02</i>	
CON FACT	OCC DATE	OCC TIME	FIELD 1	SITE REM	COMPLETED?		
				<input type="checkbox"/> Yes <input type="checkbox"/> No	<i>0005661</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Investigation/Audit/Occurrence Summary

ON SITE TO INSPECT FUEL FACILITY INSPECTORS INSTRUCTIONS ISSUED

Equipment/Appliance/Component

Type

Description

Manufacturer

Model

Serial No.

Material

Fuel Input Rating

Date of Manufacture

Installation Date

Supply Pressure

Manifold Pressure

APR 24 2001

Equipment/Appliance/Component

Type

Description

Manufacturer

Model

Serial No.

Material

Fuel Input Rating

Date of Manufacture

Installation Date

Supply Pressure

Manifold Pressure

RECEIVED
APR 16 2001
TECHNICAL STANDARDS & SAFETY AUTHORITY
FUELS SAFETY
CORPORATE SERVICES DIVISION

As a not-for-profit regulatory authority, the Technical Standards and Safety Authority operates on a cost recovery basis. An invoice will be issued for this activity.

Client's Signature <i>[Signature]</i>	Inspector's Name <i>[Signature]</i>	Badge # <i>25</i>	Date of Inspection <i>2001 04 02</i>
--	--	----------------------	---



Technical Standards and Safety Authority

Inspector's Instructions/Orders Part B

Report No.

E051805

00759639

Issued under Ontario's Energy Act and Gasoline Handling Act

Date: 2001 04 02
Y M D

Location Address (No RR's)					
LUSO GAS 5495 BOUNDARY RD CUMBERLAND K4B-1P6					
Issued To	Position				
MORRIS CHAMOUN					
Mailing Address					
LUSO GAS 5495 BOUNDARY RD CUMBERLAND K4B-1P6					
Your attention is requested pursuant to:					
Act	Regulation				
GHA	521/93				
Licence #	Expiry	Registration #	Expiry	Certificate #	Expiry
0076536275	2002 01 31				

Order #	Section	You are hereby instructed to correct the following infraction(s)	Compliance Date
1	5(34)	Pursuant to the gasoline handling code 521 [93] The corrosion protection system for an underground storage tank system shall be tested and certified in writing to the owner to be in working order by a person certified by NACE or an engineer at intervals not exceeding 2 years and the record of testing and certification shall be retained by the owner.	May 24 2001
2	5(51)(b)iv	EVERY COMMON HEADER AND EVERY INDIVIDUAL VENT PIPE NOT CONNECTED INTO A COMMON HEADER SHALL: BE FIRMLY SUPPORTED AND PROTECTED.	May 24 2001
3	8(46)	THERE SHALL BE PROVIDED AT EVERY FACILITY: A MINIMUM OF 2 FIRE EXTINGUISHERS WHICH ARE LOCATED SO AS TO BE READILY ACCESSIBLE AND WHICH ARE MAINTAINED TO HAVE AN EFFECTIVE TOTAL RATING EQUIVALENT TO AT LEAST 20-BC	APRIL 20 2001

Received By: (print) MORRIS CHAMOUN	Inspector: (print) DAVE NORMAN
Position:	Signature:
Signature:	Inspector's Badge #: 254



Ministry of Consumer and Commercial Relations
Ministère de la Consommation et du Commerce

Technical Standards Division
Division des normes techniques

Inspection and Enforcement Branch
Direction de l'inspection et de l'application des mesures législatives

Inspector Report / Rapport de l'inspecteur/inspectrice
Part A/Partie A

Report #/N° de rapport :

D-14471

Location Inspected/Lieu inspecté
DRUMMOND

Address/Adresse
5495 BOUNDARY RD.

City/town/Ville
CUMBERLAND TWP.

Postal Code/Code postal
K0A 1K0

Tel.No./N° de tél.
822 1863

Operator's Name/Nom de la personne responsable
TONY CHAMOUN

Licence #/N° de permis
7642 6543

Owner's Name / Nom du/de la propriétaire
ALBERTO BELIUS

Address/Adresse
SAME.

City/town/Ville

Postal Code/Code postal

Tel.No. /N° de tél.

Fuel Supplier/Fournisseur de combustible
DRUMMOND

City/Ville
OTTAWA

Contractor/Entrepreneur

Registration #/N° d'inscription

OPERATION/ACTIVITÉ 10	SUB TYPE/ SOUS-TYPE	LOC TYPE/ TYPE DE LIEU 02	POP DENS/ DENS. DE PGP. 05	FUEL/ COMBUSTIBLE GAS	CLASS/ CATÉGORIE 01	REASON/ RAISON 21	TRIGGER/ MOTIVÉ PAR : 01
ACTION/ MESURES PRISES 01	ACT/LOI 440	REG/RÉGLEMENT S21/93	DURATION/ DURÉE 1.0	BILLABLE/ À FACTURER 1.0	TRAVEL/ DÉPLACEMENT 1.0	BILL FACTURER, Y/N (O/N) Y	
DAMAGE/ DOMMAGES	OCC PATC/ GRAV. DE L'ACC.	CAUSE/CAUSE	CON FACT/ FACT. CONTR.	OCC DATE/ DATE DE L'ACC.	OCC TIME/ HEURE DE L'ACC.	MANDATED MANDAT Y/N (O/N) Y	
FIELD 1/ DOMAINE 1	CALL/ INTERVENTION 01	CONSULT CONSULT. Y/N (O/N) N	SITE REM REMÉDIER Y/N (O/N) N				F/U REQ'D? Y/N SUIVI REQUIS? (O/N) N

Comments/Remarques

Equipment/Appliance/Component / Matériel/Appareil/Composant

Type/Type
Code/Code

Description/Description

Manufacturer/Fabricant

Model/Modèle
Serial #/N° de série

Material/Matériel

Corrosion Protection/Protection contre la corrosion

Fuel Input Rating/Débit de combustible

Capacity/Capacité

Installation Date/Date d'installation

Manufacture Date/Date de fabrication

Supply Pressure/
Pression d'alimentation

Manifold Pressure/
Pression d'admission

Equipment/Appliance/Component / Matériel/Appareil/Composant

Type/Type
Code/Code

Description/Description

Manufacturer/Fabricant

Model/Modèle
Serial #/N° de série

Material/Matériel

Corrosion Protection/Protection contre la corrosion

Fuel Input Rating/Débit de combustible

Capacity/Capacité

Installation Date/Date d'installation

Manufacture Date/Date de fabrication

Supply Pressure/
Pression d'alimentation

Manifold Pressure/
Pression d'admission

Client's Signature / Signature du client/de la cliente
Tanos Chamoun

Inspector's Name / Nom de l'inspecteur/inspectrice
ERIC LUNN

Badge #/N° d'insigne
154

Date of Inspection/
Date de l'inspection
1996 08 15



Ministry of Consumer and Commercial Relations
Ministère de la Consommation et du Commerce

Technical Standards Division
Division des normes techniques

Inspection and Enforcement Branch
Direction de l'inspection et de l'application des mesures législatives

Inspector's Instructions/Orders
Directives et ordres de l'inspecteur/inspectrice
Part B/Partie B

Report #/N° de rapport :

D14471

Date: 1996 08 13
Y/A M/M D/J

00417006

Location Address (No RR's)
Adresse du lieu inspecté (pas de RR) 5495 BOUNDARY RD., CUMBERLAND TWP.

Issued To/Développé à ALBERTO BELTIONS Position/Fonction OWNER.

Mailing Address/Adresse postale

Your attention is required pursuant to:
Ces ordres ou directives vous sont donnés en vertu : Act de la Loi 9114 Regulation du Règlement 521/95

Licence # N° de permis	Expiry/Expiration	Registration # N° d'inscription	Expiry/Expiration	Certificate # N° de certificat	Expiry/Expiration
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CALL/INTERVENTION	ACTION/MESURES PRISES	DURATION/DURÉE	BILLABLE/À FACTURER	TRAVEL/DÉPLACEMENT	BILL Y/N / FACTURER (O/N)
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Order #/ N° de l'ordre	Section/ Article	You are hereby instructed to correct the following infraction(s)/ Vous devez rectifier l'infraction ou les infractions suivantes.	Compliance Date/ Date limite d'exécution
1	ACT(6) (1)a)	RENEW OVERDUE LICENSE	AUG 23/96
2	REG(10)	POST LICENSE IN A CONSPICUOUS PLACE AT THE PLACE OF BUSINESS	SEPT 30/96

Received By: (print) Reçu par : (en lettres moulées) TANIOSCHAMOUN.	Inspector: (print) Inspecteur(trice) : (en lettres moulées) ERIC LUNN
Position:/Fonction : MA WEGER	Signature :
Signature :	Inspector's Badge#: N° d'insigne de l'inspecteur(trice) : 154



Ministry of Consumer and Commercial Relations
Ministère de la Consommation et du Commerce

Technical Standards Division
Division des normes techniques

Inspection and Enforcement Branch
Direction de l'inspection et de l'application des mesures législatives

Inspector's Report / Rapport de l'inspecteur/inspectrice
Part A/Partie A

Report #/N° de rapport :

D- 17474

Location Inspected/Lieu inspecté <i>DRUMMOND</i>		Owner's Name / Nom du/de la propriétaire <i>ALBERTO BOULHOS</i>	
Address/Adresse <i>5495 BOUNDARY RD.</i>		Address/Adresse <i>SAME</i>	
City/town/Ville <i>CUMBERLAND</i>		City/town/Ville	
Postal Code/Code postal <i>K0A 1S0</i>		Postal Code/Code postal <i>872-1863</i>	
Tel.No./N° de tél.		Tel.No. /N° de tél.	
Operator's Name/Nom de la personne responsable <i>TONY CHANCON</i>		Fuel Supplier/Fournisseur de combustible <i>DRUMMOND</i>	
Licence #/N° de permis <i>0076426543</i>		City/Ville <i>OTTAWA</i>	
Contractor/Entrepreneur		Registration #/N° d'inscription	

OPERATION/ACTIVITÉ <i>100/100</i>	SUB TYPE/SOUS-TYPE	LOC TYPE/TYPE DE LIEU <i>02</i>	POP DENS/DENS. DE POP. <i>05</i>	FUEL/COMBUSTIBLE <i>GAS/DIE</i>	CLASS/CATÉGORIE <i>03</i>	REASON/RAISON <i>26</i>	TRIGGER/MOTIVÉ PAR : <i>02</i>
ACTION/MESURES PRISES <i>01</i>	ACT/LOI <i>94A</i>	REG/RÉGLEMENT <i>52/93</i>	DURATION/DURÉE <i>1.25</i>	BILLABLE/À FACTURER <i>1.0</i>	TRAVEL/DÉPLACEMENT <i>0.25</i>	BILL FACTURER Y/N (O/N) <i>Y</i>	
DAMAGE/DOMMAGES	OCC RATE/GRAV. DE L'ACC.	CAUSE/CAUSE	CON FACT/FACT. CONTR.	OCC DATE/DATE DE L'ACC.	OCC TIME/HEURE DE L'ACC.	MANDATED MANDAT Y/N (O/N) <i>Y</i>	
FIELD 1/ DOMAINE 1	CALL/INTERVENTION <i>01</i>	CONSULT CONSULT. Y/N (O/N) <i>N</i>	SITE REM REMÉDIER Y/N (O/N) <i>N</i>				F/U REQ'D? SUIVI REQUIS? Y/N (O/N) <i>N</i>

Comments/Remarques

Equipment/Appliance/Component / Matériel/Appareil/Composant

Type/Type	Code/Code
Description/Description	
Manufacturer/Fabricant	
Model/Modèle	Serial #/N° de série
Material/Matériel	
Corrosion Protection/Protection contre la corrosion	
Fuel Input Rating/Débit de combustible	
Capacity/Capacité	
Installation Date/Date d'installation	
Manufacture Date/Date de fabrication	
Supply Pressure/Pression d'alimentation	Manifold Pressure/Pression d'admission

Equipment/Appliance/Component / Matériel/Appareil/Composant

Type/Type	Code/Code
Description/Description	
Manufacturer/Fabricant	
Model/Modèle	Serial #/N° de série
Material/Matériel	
Corrosion Protection/Protection contre la corrosion	
Fuel Input Rating/Débit de combustible	
Capacity/Capacité	
Installation Date/Date d'installation	
Manufacture Date/Date de fabrication	
Supply Pressure/Pression d'alimentation	Manifold Pressure/Pression d'admission

RECEIVED
AUG 8 1995
Technical Standards Division

Client's Signature / Signature du client/de la cliente <i>Tony Chancon</i>	Inspector's Name / Nom de l'inspecteur/inspectrice <i>Bill Lund</i>	Badge #/N° d'insigne <i>154</i>
		Date of Inspection/Date de l'inspection <i>1995 07 24</i>



Ministry of
Consumer and
Commercial Relations
Ministère de
la Consommation
et du Commerce

Technical
Standards
Division
Division des
normes
techniques

Inspection and
Enforcement
Branch
Direction de l'Inspection
et de l'application
des mesures législatives

Inspector's Instructions/Orders
Directives et ordres de l'inspecteur/inspectrice
Part B/Partie B

Report #/N° de rapport :

D. 7474

Date : 1995 07 24
Y/A M/M D/J

Location Address (No RR's)
Adresse du lieu inspecté (pas de RR) **5495 BOUNDARY RD, CUMSCRAW, K0A 1S0**

Issued To/Délicivé à **TONY MANOUN** Position/Fonction **MANAGER**

Mailing Address/Adresse postale

Your attention is required pursuant to:
Ces ordres ou directives vous sont donnés en vertu : Act de la Loi **94A** Regulation du Règlement **821/93**

Licence # / N° de permis **0076** Expiry/Expiration **95/08/31** Registration # / N° d'inscription **0076426543** Certificate # / N° de certificat **154** Expiry/Expiration

CALL/INTERVENTION	ACTION/MESURES PRISES	DURATION/DURÉE	BILLABLE/A FACTURER	TRAVEL/DÉPLACEMENT	BILL Y/N / FACTURER (O/N)
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Order #/ N° de l'ordre	Section/ Article	You are hereby instructed to correct the following infraction(s)/ Vous devez rectifier l'infraction ou les infractions suivantes.	Compliance Date/ Date limite d'exécution
1	5(4)(d)	RECONCILE TANKS AND METERS DAILY IN ACCORDANCE WITH THE REQUIREMENTS OF THE CODE	AUG 4/95
2	5(5)(b)(iv)	PROTECT VENT STACKS FROM IMPACT IN ALL DIRECTIONS	AUG 4/95
3	8(27)	POST A SIGN SHOWING THE TYPES OF PORTABLE CONTAINERS THAT MAY BE FILLED	AUG 4/95
4	8(28)	POST MINIMUM OCTANE RATINGS IN A LOCATION VISIBLE TO THE PUBLIC	AUG 4/95
5	5(23)	ENSURE THAT ALL TANKS HAVE TAGS	AUG 4/95
6	5(34)	HAVE CORROSION PROTECTION SYSTEM PERFORMED	AUG 4/95
7	8(40)	PROVIDE WRITTEN EMERGENCY PROCEDURES DEALING WITH FIRES, LEAKS, SPILLS AND EXPLOSIONS	AUG 4/95
8	8(41)	ENSURE THAT ALL STAFF ARE TRAINED AND HAVE THEM SIGN A RECORD THAT THEY HAVE BEEN TRAINED	AUG 4/95

Received By: (print) Reçu par : (en lettres moulées) TANIOS CHAMOUN.	Inspector: (print) Inspecteur(trice) : (en lettres moulées) ERIC LUND
Position:/Fonction : MANAGER	Signature : ERIC LUND
Signature : TANIOS CHAMOUN	Inspector's Badge#: N° d'insigne de l'inspecteur(trice) : 154



To

TOP OIL RESOURCES LTD
Name

AUG. 1 19 90

24 BENTLEY AVE
Address

NEPEAN ONTARIO
K2E 6T8 1 of 3

Your attention is required pursuant to

Energy Act

Gasoline Handling Act

Propane

Gasoline

Fuel Oil

Natural Gas Utilization

Transmission and Distribution

Regulation

439/80 AS AMENDED BY 67/89

You are hereby instructed to correct the infractions noted

RE: TOP STOP 5495 BOUNDARY RD (CUMBERLAND)

① SECT. 7 (19) EVERY VENT SHALL

(a) HAVE A WEATHER-PROOF HOOD

(b) TERMINATE IN OPEN AIR NOT LESS THAN 12' FOR CLASS 1 PRODUCTS

(c) BE FIRMLY SUPPORTED AND PROTECTED

② SECT 7 (32) (b) ALL FILL PIPES OF ALL UNDER-GROUND STORAGE TANKS SHALL BE PERMANENTLY MARKED TO INDICATE THE PRODUCT IN EACH TANK.

(33) THESE MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF SECT 5 (47) & (48) GHA

③ SECT 8 (17) FIXED DISPENSING EQUIPMENT SHALL BE INSTALLED

(b) AT A DISTANCE OF AT LEAST 10' FROM ANY PROPERTY LINE (DIESEL PUMP, MOVE PUMP OR PRODUCT

OFFICE COPY INDICATING COMPLIANCE)

Received by	To be completed by	Inspector	Copy
<u>Margot Johnson</u>	<u>Lee Ragatz</u> 19	<u>J. Fisher</u>	<u>2</u>
Signature	Signature	Signature	



To TOP OIL RESOURCES LTD AUG 1 19 90
Name
24 BENTLEY AVE
Address
NEPEAN ONTARIO

Pg # 2 of 3

Your attention is required pursuant to
 Energy Act Gasoline Handling Act
 Propane Gasoline Fuel Oil
 Natural Gas Utilization Transmission and Distribution

Regulation 439/80 AS AMENDED BY 67/89

You are hereby instructed to correct the infractions noted

RE: TOP STOP 5495 BOUNDARY RD CAMBRIDGE

(4) SECT 7(8) EXPOSE ALL TANK MONITORING
COWARS AND PROVIDE WRITTEN
CERTIFICATION THAT THE CATHODIC
PROTECTION IS FULLY FUNCTIONAL.

(5) SECT. 8(28) NO PERSON SHALL DISPENSE GASOLINE
IF HE PRODUCES UNLESS HE/SHE IS
A COMPETENT TRAINED EMPLOYEE OF
THE OWNER OR OPERATOR AS THE
CASE MAY BE AND ALL "SELF-
SERVE" SIGNAGE SHALL BE REMOVED
PRIOR TO OPERATION.

ALL WORK TO CONFORM TO THE G.H.A.C.T
AND BE CARRIED OUT BY A REGISTERED GASOLINE
CONTRACTOR

OFFICE COPY

Received by	To be completed by	Inspector	Copy
<i>Kiaight Johnson</i> Signature	<u>AUG 8</u> 19 <u>90</u>	<i>J. FISHER</i> Signature	2



Ontario

Ministry of Consumer and Commercial Relations

Technical Standards Division

Fuels Safety Branch

Inspector's Instructions

To

TOP OIL RESOURCES LTD

Name

Sept. 27 1990

24 BENTLEY AVE

Address

NEPEAN CHARLOTT

R2E 6T8

1 of 3

Your attention is required pursuant to

Energy Act

Gasoline Handling Act

Propane

Gasoline

Fuel Oil

Natural Gas Utilization

Transmission and Distribution

Regulation 439/80 AS AMENDED BY 67/89

You are hereby instructed to correct the infractions noted

Re: TOP OIL 5495 BOUNDARY RD CUMBERLAND

(1) SEC 7 (1) EVERY VENT SHALL

(a) HAVE A WEATHERPROOF HOOD

(b) TERMINATE IN OPEN AIR NOT LESS THAN 10' FOR CLASS I; 7' FOR CLASS II PRODUCTS

(c) BE FIRMLY SUPPORTED AND PROTECTED

(2) SEC 7 (32) (b) ALL FILL PIPES OF UNDERGROUND STORAGE TANKS SHALL BE PERMANENTLY MARKED TO INDICATE THE PRODUCT IN EACH TANK

(33) THESE MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF SEC 5 (47-49)

(3) SEC 8 (17) FIXED DISPENSING EQUIPMENT SHALL BE INSTALLED AT A DISTANCE OF 10' FROM PROPERTY LINES

(4) SEC 7 (5) EXPOSE ALL TANK MONITORING COLLARS AND PROVIDE WRITTEN CERTIFICATION THAT THE CATHODIC PROTECTION IS FULLY FUNCTIONAL

LOCATION COPY

Received by

To be completed by

Inspector

Copy

Margot Johnson

See PAGE # 2

J. FISHER

3

09181 (02/85)

Signature

19

Signature



Ministry of
Consumer and
Commercial
Relations

Technical
Standards
Division

Fuels
Safety
Branch

Inspector's
Instructions

To

TOP OIL RESOURCES LTD
Name
24 BENTLEY AVE
Address
NEPEAN ONTARIO

Sept 27 19 90

2 OF 3

Your attention is required pursuant to

Energy Act

Gasoline Handling Act

Propane

Gasoline

Fuel Oil

Natural Gas Utilization

Transmission and Distribution

Regulation 439/80 AS AMENDED BY 61/89

You are hereby instructed to correct the infractions noted

RE TOP STOP 5495 BOUNDARY RD (CUMBERLAND)

(5) Sect 8(29) No person shall dispense
CLASS 1: II PRODUCTS UNLESS HE/SHE
IS A COMPETENT TRAINED EMPLOYEE
OF THE OWNER OR OPERATOR AS
THE CASE MAY BE AND THE "SELF
SERVE" SIGNAGE SHALL BE REMOVED
FORTHWITH.

9/29/90
 J. Fisher

ALL WORK TO CONFORM TO THE
GASOLINE HANDLING ACT: CODE AND BE
CARRIED OUT BY A REGISTERED
GASOLINE CONTRACTOR

LOCATION COPY

Received by	To be completed by	Inspector	Copy
<u>Margot H...</u>	<u>5</u> 19 <u>90</u>	<u>J. FISHER</u>	3
Signature		Signature	



File Number: D06-03-18-0029

August 1, 2018

Mandy Witteman
Paterson Group
154 Colonnade Rd S
Ottawa, ON
K2E 7S8

Sent via email [mwitteman@patersongroup.ca]

Dear Ms. Witteman,

**Re: Information Request
5510 Boundary Road & 5494 Boundary Road, Ottawa, Ontario (“Subject Properties”)**

Internal Department Circulation

The Planning, Infrastructure and Economic Development Department has the following information in response to your request for information regarding the Subject Properties:

- Disposals & Environmental Remediation – The subject properties are within 500 M of a former landfill known as Cu-01, located near the intersection of Devine Road and Frontier Road. The City’s Environmental Remediation Unit has no information on the current environmental conditions of this former landfill as the site is under private ownership. The City’s Environmental Remediation Unit has no other record of environmental contamination information for the subject properties or on rights of way or other city-owned properties adjacent to the subject properties.

Search of Historical Land Use Inventory

This acknowledges receipt of the signed Disclaimer regarding your request for information from the City’s Historical Land Use Inventory (HLUI 2005) database for the Subject Properties.

A search of the HLUI database revealed the following information:

- There are no activities associated with the Subject Properties.

*Shaping our future together
Ensemble, formons notre avenir*

City of Ottawa
Planning, Infrastructure and Economic
Development Department

110 Laurier Avenue West, 4th Floor
Ottawa, ON K1P 1J1
Tel: (613) 580-2424 ext. 14743
Fax: (613) 560-6006
www.ottawa.ca

Ville d’Ottawa
Services de la planification, de l’infrastructure et
du développement économique

110, avenue Laurier Ouest, 4e étage
Ottawa (Ontario) K1P 1J1
Tél.: (613) 580-2424 ext. 14743
Télééc: (613) 560-6006
www.ottawa.ca

The HLUI database was also searched for activity associated with properties located within 50m of the Subject Properties. The search revealed the following:

- There are 10 activities associated with properties located within 50m of the Subject Properties: Activity Numbers 4727, 6485, 11564, 11569, 11873, 11499, 6225, 3101, 7603 and 11227.

A site map has been included to show the location of the Subject Properties as well as the location of all the activities noted above.

Additional information may be obtained by contacting:

Ontario's Environmental Registry

The Environmental Registry found at <http://www.ebr.gov.on.ca/ERS-WEB-External/> contains "public notices" about environmental matters being proposed by all government ministries covered by the Environmental Bill of Rights. The public notices may contain information about proposed new laws, regulations, policies and programs or about proposals to change or eliminate existing ones. By using key words i.e. name of proponent/owner and the address one can ascertain if there is any information on the proponent and address under the following categories: Ministry, keywords, notice types, Notice Status, Acts, Instruments and published date (all years).

The Ontario Land Registry Office

Registration of real property is recorded in the Ontario Land Registry Office through the Land Titles Act or the Registry Act. Documents relating to title and other agreements that may affect your property are available to the public for a fee. It is recommended that a property search at the Land Registry Office be included in any investigation as to the historic use of your property. The City of Ottawa cannot comment on any documents to which it is not a party.

Court House
161 Elgin Street 4th Floor
Ottawa ON K2P 2K1
Tel: (613) 239-1230
Fax: (613) 239-1422

Please note, as per the HLUI Disclaimer, that the information contained in the HLUI database has been compiled from publicly available records and other sources of information. The HLUI may contain erroneous information given that the records used as sources of information may be flawed. For instance, changes in municipal addresses over time may introduce error. Accordingly, all information from the HLUI database is provided on an "as is" basis with no representation or warranty by the City with respect to the information's accuracy or exhaustiveness in responding to the request.

Furthermore, the HLUI database and the results of this search in no way confirm the presence or absence of contamination or pollution of any kind. This information is provided on the assumption that it will not be relied upon by any person for any purpose whatsoever. The City of Ottawa denies all liability to any persons attempting to rely on any information provided from the HLUI database.

Please note that in responding to your request, the City of Ottawa does not guarantee or comment on the environmental condition of the Subject Property. You may wish to contact the Ontario Ministry of Environment and Climate Change for additional information.

If you have any further questions or comments, please contact Melanie Vivian at 613-580-2424 ext. 14743 or HLUI@ottawa.ca

Sincerely,



Melanie Vivian

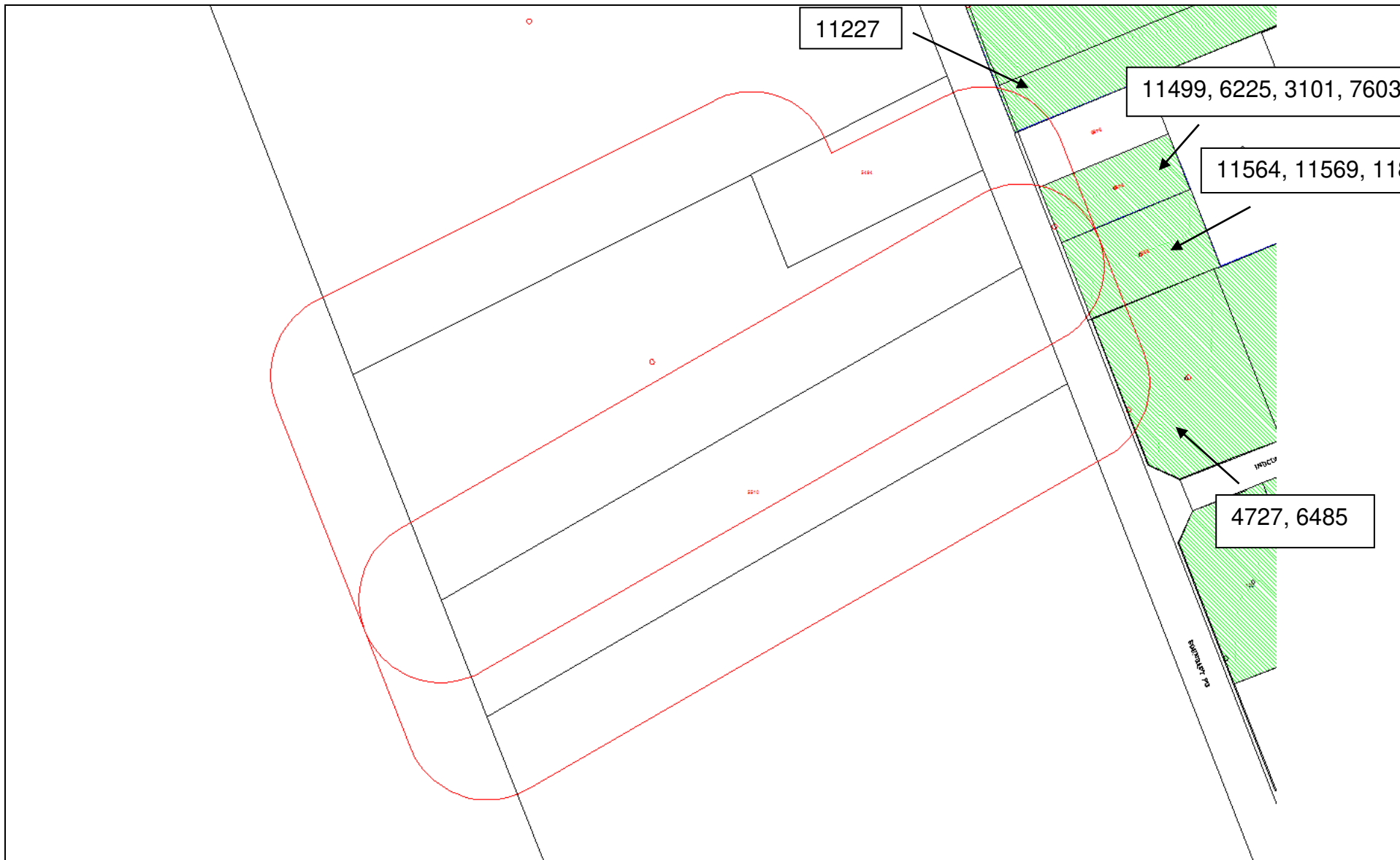
Per:

Michael Boughton, MCIP, RPP
Senior Planner
Development Review East
Planning Services
Planning, Infrastructure and Economic Development Department

MB/ MV

Attach: 5

cc: File no. D06-03-18-0029




Scale 1: n/a

5510 Boundary Road & 5494 Boundary Road
 Ottawa, ON
 File # D06-03-18-0029
 Melanie Vivian



Overview

ID# = Activity Identification Number

 = Subject Site



CITY OF OTTAWA

HLUI ID: __679BQI

AREA (Square Metres): 4224.057

Report: RPTC_OT_DEV0122

Run On: 01 Aug 2018 at: 10:04:56

Study Year
2005

PIN
145580038

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 11569 **Multiple PINS:** N

PIN Certainty: 1 **Previous Activity ID(s) :**

Related PINS: 145580038

Name: RENE'S WELDING INC.

Address: 5507 BOUNDARY ROAD, CARLSBAD SPRINGS

Facility Type: Site Work

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2001 Employment Survey

NAICS	SIC
238390	0

Company Name

RENE'S WELDING INC.

Year of Operation

c. 2001



CITY OF OTTAWA
HLUI ID: __679BQI
AREA (Square Metres): 4224.057

Report: RPTC_OT_DEV0122

Run On: 01 Aug 2018 at: 10:04:56

Study Year
2005

PIN
145580038

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 11873 **Multiple PINS:** N

PIN Certainty: 1 **Previous Activity ID(s) :**

Related PINS: 145580038

Name: ROTHSAY LAURENCO
Address: 5507 BOUNDARY ROAD,
Facility Type: Waste Materials, Wholesale

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2005 Select Phone

NAICS	SIC
418190	0

Company Name
ROTHSAY LAURENCO

Year of Operation
c. 2005



CITY OF OTTAWA
HLUI ID: __670HA2
AREA (Square Metres): 3041.364

Report: RPTC_OT_DEV0122
 Run On: 01 Aug 2018 at: 10:05:49

Study Year
1998

PIN
145580037

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 11499 **Multiple PINS:** N
PIN Certainty: 1 **Previous Activity ID(s) :** 6225
Related PINS: 145580037

Name: PK AUTO IMPORT AND DOMESTIC SALES AND SERVICE
Address: 5495 BOUNDARY ROAD, CUMBERLAND
Facility Type: Motor Vehicle Repair Shops
Comments 1:
Comments 2:
Generator Number:
Storage Tanks:
HL References 1: MCBED1996
HL References 2:
HL References 3:

NAICS	SIC
811119	635
811112	635
811121	635

Company Name	Year of Operation
PK Auto Import and Domestic Sales and Service	c. 1996



CITY OF OTTAWA
HLUI ID: __670HA2
AREA (Square Metres): 3041.364

Report: RPTC_OT_DEV0122

Run On: 01 Aug 2018 at: 10:05:49

Study Year
1998

PIN
145580037

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 3101 **Multiple PINS:** N

PIN Certainty: 1 **Previous Activity ID(s) :**

Related PINS: 145580037

Name: CAR GUARANTIERS
Address: 5495 BOUNDARY ROAD,
Facility Type: Motor Vehicles, Wholesale

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2005 Select Phone

NAICS	SIC
811111	0

Company Name
CAR GUARANTIERS

Year of Operation
c. 2005



CITY OF OTTAWA
HLUI ID: __670HA2
AREA (Square Metres): 3041.364

Report: RPTC_OT_DEV0122

Run On: 01 Aug 2018 at: 10:05:49

Study Year
1998

PIN
145580037

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 7603 **Multiple PINS:** N

PIN Certainty: 1 **Previous Activity ID(s) :**

Related PINS: 145580037

Name: RICHMOND GLEN ESTATES LIMITED
Address: 5495 BOUNDARY ROAD, CUMBERLAND
Facility Type: Gasoline Service Stations

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2005 Property Assessment

NAICS	SIC
447110	0
447190	0

Company Name	Year of Operation
RICHMOND GLEN ESTATES LIMITED	c. 2005
LUOSO GAS	c. 2001
LUOSO GAS	c. 2005



CITY OF OTTAWA

HLUI ID: __6790IX

AREA (Square Metres): 410976.930

Report: RPTC_OT_DEV0122

Run On: 01 Aug 2018 at: 10:07:17

Study Year
2005

PIN
145580031

Multi-NAIC
Y

Multiple Activities
N

Activity ID: 11227 Multiple PINS: Y

PIN Certainty: 1 Previous Activity ID(s) :

Related PINS: 145580031

Name: R. POMERLEAU LIMITED

Address: 5425 BOUNDARY ROAD, CUMBERLAND TOWNSHIP

Facility Type: Site Work

Comments 1:

Comments 2:

Generator Number: ON2049900

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2003 PID

NAICS	SIC
238990	0
238910	0

Company Name

R. POMERLEAU LIMITED

Year of Operation

c. 2003

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

POSITION

Intermediate Environmental Engineer

EDUCATION

Carleton University
M.A.Sc., Environmental Engineering, 2013
B.Eng., Environmental Engineering, 2008

MEMBERSHIPS & AWARDS

Ontario Professional Engineers Association (EIT)
NSERC Industry R&D Scholarship

EXPERIENCE

2018 – Present

Paterson Group Inc.

Consulting Engineers
Geotechnical and Environmental Division
Environmental Engineer

2014 – 2015

Thurber Engineering Limited

Oil Sand Tailings Group
Tailings Engineer

2009 – 2014

Carleton University

Department of Civil & Environmental Engineering
Research Engineer, Research Assistant & Teaching Assistant

2008 – 2009

SLR Consulting Limited

Contaminated Sites
Junior Environmental Engineer

SELECTED LIST OF PROJECTS

Phase I & II Environmental Site Assessments – NRC, Kingston
Remediation – National Capital Region, Saskatchewan
Multi-lift and dry-stacking pilot programs – Northern Alberta
Polymer amended oil sand tailings – Northern Alberta
Hydraulic cut-off wall – Allen, Saskatchewan
Cemented paste backfill systems – Northern Ontario

Geotechnical
Engineering

Environmental
Engineering

Hydrogeology

Geological
Engineering

Materials Testing

Building Science

Archaeological
Services

POSITION

Associate and Supervisor of the Environmental Division
Senior Environmental/Geotechnical Engineer

EDUCATION

Queen's University, B.A.Sc.Eng, 1991
Geotechnical / Geological Engineering

MEMBERSHIPS

Ottawa Geotechnical Group
Professional Engineers of Ontario

EXPERIENCE

1991 to Present

Paterson Group Inc.

Associate and Senior Environmental/Geotechnical Engineer
Environmental and Geotechnical Division
Supervisor of the Environmental Division

SELECT LIST OF PROJECTS

Mary River Exploration Mine Site - Northern Baffin Island
Agricultural Supply Facilities - Eastern Ontario
Laboratory Facility – Edmonton (Alberta)
Ottawa International Airport - Contaminant Migration Study - Ottawa
Richmond Road Reconstruction - Ottawa
Billings Hurdman Interconnect - Ottawa
Bank Street Reconstruction - Ottawa
Environmental Review – Various Laboratories across Canada - CFIA
Dwyer Hill Training Centre – Ottawa
Nortel Networks Environmental Monitoring - Carling Campus – Ottawa
Remediation Program - Block D Lands – Kingston
Investigation of former landfill sites – City of Ottawa
Record of Site Condition for Railway Lands – North Bay
Commercial Properties – Guelph and Brampton
Brownfields Remediation – Alcan Site - Kingston
Montreal Road Reconstruction - Ottawa
Appleford Street Residential Development - Ottawa
Remediation Program - Ottawa Train Yards
Remediation Program - Bayshore and Heron Gate
Gladstone Avenue Reconstruction – Ottawa
Somerset Avenue West Reconstruction - Ottawa

154 Colonnade Road South
Ottawa, Ontario
Canada, K2E 7J5
Tel: (613) 226-7381
Fax: (613) 226-6344

October 20, 2021
File: PE4387-LET.01R

Day & Ross

Transportation Group
398 Main Street
Hartland, New Brunswick
E7P 1C6

Geotechnical Engineering
Environmental Engineering
Hydrogeology
Geological Engineering
Materials Testing
Building Science

www.patersongroup.ca

Subject: **Fill Quality Assessment
Phase II Environmental Site Assessment
5510 Boundary Road
Ottawa, Ontario**

Dear Sir/Madame,

As requested, Paterson Group (Paterson) conducted a Phase II Environmental Site Assessment (ESA) to assess the fill material placed on the subject land. Based on a Phase I ESA completed by Paterson in conjunction with this study, it was determined that the land was excavated as an aggregate source and subsequent infilling of the site has taken place, with the majority of the excavated area having now been backfilled. This letter contains a summary of our findings with regard to the quality of the above noted fill material.

Field Findings/Observations

The Phase II ESA consisted primarily of a test pit excavation program, which was carried out on August 1, 2018. At that time, twelve (12) test pits were excavated through the fill layer and representative fill and native soil samples were recovered from the test pits. Four (4) boreholes were also placed on site, one of which (BH4) was completed with a groundwater monitoring well.

No obvious odours or staining were noted during the excavation of the test pits, however, minor amounts of brick, asphaltic concrete, concrete, wood and insulation were present in the fill material, which ranged in thickness from 1.4 to 3.2m below grade. The native soils encountered below the fill consisted of fine sands and silty clays. No evidence of impact was observed in the native soils, or the groundwater that was encountered in the test pits.

The recovered soil samples were subjected to a vapour screening survey which did not identify the potential for significant volatile contamination.

Analytical Test Results

Six (6) fill samples were submitted to Paracel Laboratories in Ottawa for petroleum hydrocarbons (PHC, Fractions 2 to 4), metals and polycyclic aromatic hydrocarbons (PAHs). The test results are presented in Tables 1 through 3 below, along with the MECP Table 2 industrial coarse grained soil standards. A copy of the certificate of analysis is attached to this letter.

Table 1 - Analytical Test Results			
PHC (F₂-F₄)			
Parameter	MDL (µg/g)	Soil Sample (µg/g)	MECP Table 2 Standards Commercial Coarse (µg/g)
		August 1, 2018	
		TP2 G1	
F ₂ (C ₁₀ -C ₁₆)	4	11	230
F ₃ (C ₁₆ -C ₃₄)	8	347	1,700
F ₄ (C ₃₄ -C ₅₀)	6	875	3,300
F ₄ (gravimetric)	50	6,590	3,300
Notes:			
<input type="checkbox"/>	MDL - Method Detection Limit		
<input type="checkbox"/>	nd - not detected above the MDL		
<input type="checkbox"/>	Bold - Value exceeds selected MECP Standards		

The PHC heavy Fraction 4 concentration exceeds the selected Ontario Ministry of Conservation and Parks (MECP) Table 2 Commercial Standard. The remaining PHC concentrations comply with the standards.

All PHC concentrations exceed the MECP Table 1 typical Ontario background standards, which are commonly used to assess the quality of fill for off-site disposal.

Table 2 - Analytical Test Results								
Metals								
Parameter	MDL (µg/g)	Soil Samples (µg/g) August 1, 2018						MECP Table 2 Standards Commercial Coarse (µg/g)
		TP2 G1	TP4 G2	TP5 G2	TP7 G1	TP8 G1	TP11 G1	
Antimony	1	nd	nd	nd	nd	nd	nd	40
Arsenic	1	2.6	1.9	1.3	2.6	1.7	1.9	18
Barium	1	67.5	96.6	168	112	152	128	670
Beryllium	0.5	nd	nd	nd	nd	nd	nd	8
Boron (total)	5	11.1	nd	nd	nd	nd	nd	120
Cadmium	0.5	nd	nd	nd	nd	nd	nd	1.9
Chromium	5	15.8	26.9	43.0	32.8	32.0	47.0	160
Cobalt	1	4.9	6.4	10.6	7.9	7.5	10.0	80
Copper	5	14.0	18.5	20.7	23.5	17.9	29.0	230
Lead	1	30.9	47.7	22.7	26.5	37.2	26.8	120
Molybdenum	1	nd	nd	nd	nd	nd	nd	40
Nickel	5	14.3	16.2	25.1	20.0	18.1	28.8	270
Selenium	1	nd	nd	nd	nd	nd	nd	5.5
Silver	0.3	nd	nd	nd	nd	nd	nd	40
Thallium	1	nd	nd	nd	nd	nd	nd	3.3
Uranium	1	nd	nd	nd	nd	nd	nd	33
Vanadium	10	33.2	30.6	42.6	34.4	33.9	39.7	86
Zinc	20	58.4	63.4	61.6	50.9	69.0	79.0	340

Notes:

- MDL - Method Detection Limit
- nd - not detected above the MDL
- nd** - Value exceeds selected MECP Standard

All of the metal results comply with the selected MECP Table 2 standards. All of the metals results also comply with the MECP Table 1 background standards.

Table 3 - Analytical Test Results					
PAHs					
Parameter	MDL (µg/g)	Soil Samples (µg/g) August 1, 2018			MECP Table 2 Standards Commercial Coarse (µg/g)
		TP2 G1	TP4 G2	TP5 G2	
Acenaphthene	0.05	0.07	0.09	0.03	21
Acenaphthylene	0.05	0.07	0.06	nd	0.15
Anthracene	0.05	0.21	0.21	0.06	0.67
Benzo[a]anthracene	0.05	0.51	0.46	0.14	0.96
Benzo[a]pyrene	0.05	0.47	0.46	0.21	0.3
Benzo[b]fluoranthene	0.05	1.24	1.05	0.19	0.96
Benzo[ghi]perylene	0.05	0.34	0.31	0.26	9.6
Benzo[k]fluoranthene	0.05	0.67	0.59	0.10	0.96
Chrysene	0.05	0.56	0.45	0.14	9.6
Dibenzo[a,h]anthracene	0.05	0.09	0.09	0.06	0.1
Fluoranthene	0.05	1.26	1.0	0.29	9.6
Fluorene	0.05	0.07	0.06	nd	62
Indeno[1,2,3-cd]pyrene	0.05	0.30	0.31	0.24	0.76
1-Methylnaphthalene	0.05	0.02	0.03	nd	30
2-Methylnaphthalene	0.05	0.03	0.03	nd	30
Naphthalene	0.05	0.04	0.05	nd	9.6
Phenanthrene	0.05	0.67	0.69	0.19	12
Pyrene	0.05	0.99	0.86	0.25	96

Notes:

- MDL - Method Detection Limit
- nd - not detected above the MDL
- Bold** - Value exceeds selected MECP Standard

Table 3 - Analytical Test Results - Continued					
PAHs					
Parameter	MDL (µg/g)	Soil Samples (µg/g) August 1, 2018			MECP Table 2 Standards Commercial Coarse (µg/g)
		TP7 G1	TP8 G1	TP11 G1	
Acenaphthene	0.05	0.02	nd	nd	21
Acenaphthylene	0.05	nd	nd	nd	0.15
Anthracene	0.05	0.07	nd	0.07	0.67
Benzo[a]anthracene	0.05	0.15	0.04	0.13	0.96
Benzo[a]pyrene	0.05	0.18	0.06	0.15	0.3
Benzo[b]fluoranthene	0.05	0.16	0.07	0.15	0.96
Benzo[ghi]perylene	0.05	0.18	0.09	0.22	9.6
Benzo[k]fluoranthene	0.05	0.10	0.3	0.08	0.96
Chrysene	0.05	0.20	0.05	0.12	9.6
Dibenzo[a,h]anthracene	0.05	0.05	nd	0.05	0.1
Fluoranthene	0.05	0.26	0.07	0.17	9.6
Fluorene	0.05	nd	nd	nd	62
Indeno[1,2,3-cd]pyrene	0.05	0.16	0.07	0.17	0.76
1-Methylnaphthalene	0.05	nd	0.02	nd	30
2-Methylnaphthalene	0.05	nd	0.03	nd	30
Naphthalene	0.05	0.02	0.02	0.01	9.6
Phenanthrene	0.05	0.17	0.04	0.21	12
Pyrene	0.05	0.26	0.07	0.14	96

Notes:

- MDL - Method Detection Limit
- nd - not detected above the MDL
- Bold** - Value exceeds selected MECP Standard

Several parameter concentrations in Samples TP2 G1 and TP4 G2 exceed the selected Table 2 standards, while the results from the remaining samples are in compliance with these standards.

Parameter results from Samples TP2 G1, TP4 G2 and TP5 G2 exceed the Table 1 standards, while the remaining sample results comply with the Table 1 standards.

Groundwater

A groundwater sample was collected from the monitoring well installed in BH4 and submitted for PHCs and volatile organic compound (VOC) analysis. The results of the analytical testing and the selected MECP standards are presented in Tables 4 and 5. A copy of the laboratory certificate of analysis is attached to this report.

Table 4 Analytical Test Results - Groundwater PHCs (Fractions 1 to 4)			
Parameter	MDL (ug/L)	Groundwater Sample (ug/L)	MECP Table 2 Commercial Standards (ug/L)
		BH4-GW1	
F1 PHCs (C ₆ -C ₁₀)	25	nd	750
F2 PHCs (C ₁₀ -C ₁₆)	100	nd	150
F3 PHCs (C ₁₆ -C ₃₄)	100	nd	500
F4 PHCs (C ₃₄ -C ₅₀)	100	nd	500

Notes: MDL - Method Detection Limit
 nd - Not Detected (< MDL)

The PHC results comply with the MECP Table 2 standards.

Table 5			
Analytical Test Results – Groundwater			
VOCs			
Parameter	MDL (ug/L)	Groundwater Sample August 8, 2018	MECP Table 2 Commercial Standards (µg/L)
		BH4-GW1	
Acetone	5.0	nd	2,700
Benzene	0.5	nd	5
Bromodichloromethane	0.5	nd	16
Bromoform	0.5	nd	25
Bromomethane	0.5	nd	0.89
Carbon Tetrachloride	0.2	nd	0.79
Chlorobenzene	0.5	nd	30
Chloroform	0.5	nd	2.4
Dibromochloromethane	0.5	nd	25
Dichlorodifluoromethane	1.0	nd	590
1,2-Dichlorobenzene	0.5	nd	3
1,3-Dichlorobenzene	0.5	nd	59
1,4-Dichlorobenzene	0.5	nd	1
1,1-Dichloroethane	0.5	nd	5
1,2-Dichloroethane	0.5	nd	1.6
1,1-Dichloroethylene	0.5	nd	1.6
cis-1,2-Dichloroethylene	0.5	nd	1.6
trans-1,2-Dichloroethylene	0.5	nd	1.6
1,2-Dichloropropane	0.5	nd	5
1,3-Dichloropropene	0.5	nd	0.5
Ethyl benzene	0.5	nd	2.4
Ethylene dibromide	0.5	nd	0.2
Hexane	1.0	nd	51
Methyl Ethyl Ketone	5.0	nd	1,800
Methyl Isobutyl Ketone	5.0	nd	640
Methyl tert-butyl ether	2.0	nd	15
Methylene Chloride	5.0	nd	50
Styrene	0.5	nd	5.4
1,1,1,2-Tetrachloroethane	0.5	nd	1.1
1,1,2,2-Tetrachloroethane	0.5	nd	1
Tetrachloroethylene	0.5	nd	1.6
Toluene	0.5	nd	24
1,1,1-Trichloroethane	0.5	nd	200
1,1,2-Trichloroethane	0.5	nd	4.7
Trichloroethylene	0.5	nd	1.6
Trichlorofluoromethane	1.0	nd	150
Vinyl Chloride	0.5	nd	0.5
Xylenes	0.5	nd	300
Notes:			
<input type="checkbox"/> MDL - Method Detection Limit			
<input type="checkbox"/> nd - Not Detected (< MDL)			

The VOC results comply with the MECP Table 2 standards.

Assessment

Twelve (12) test pits were excavated through the fill layer and representative fill and native soil samples were recovered from the test pits. No obvious odours or staining were noted during the excavation of the test pits, however, minor amounts of brick, asphaltic concrete, concrete, wood and insulation were present in the majority of the test pits. A significant amount of asphaltic concrete was present in Test Pit 4. The fill layer ranged in thickness from 1.4 to 3.2m below grade. No evidence of impact was observed in the native soils, or the groundwater that was encountered in the test pits

Six (6) samples of the fill material were submitted to Paracel Laboratories for petroleum hydrocarbons (PHC, Fractions 2 to 4), metals and/or polycyclic aromatic hydrocarbons (PAHs). The test results were compared to the MECP Table 2 industrial coarse grained soil standards, which were considered appropriate for the intended use of the land. The PHC F4 concentration and 2 PAH parameter concentrations in Test Pit 2 exceeded the selected standards, as did 2 PAH parameter concentrations in Test Pit 4. These concentrations are considered to be a result of asphaltic concrete being present in the fill material. The remainder of the test results were in compliance with the selected standards for the subject property.

The results were also compared to the MECP Table 1 typical Ontario background standards, which are commonly used to assess the quality of fill for off-site disposal purposes. A comparison of the test data to these standards indicates that the same soil samples from TP2 and TP4 have numerous PAH parameters that exceed the standards, in addition to the sample from TP5. The remaining test results are in compliance with the Table 1 standards.

A groundwater sample was collected from the monitoring well installed in BH4 and submitted for PHC and VOC analyses. No parameters were detected above the laboratory detection limits. The water results comply with the selected site standards.

Conclusion/Recommendations

Based on our findings, it is evident that some of the fill on site has concentrations of petroleum hydrocarbons and/or PAHs above the selected MECP Standards. The PAHs are considered likely to be a result of the asphaltic concrete fragments observed in the fill. The test pits where the contaminants were identified were also the test pits where the greatest amount of demolition debris was observed. These test pits were generally situated in the southern portion of the property, which was the first portion of the site to be back filled.

The impacted fill (and fill containing demolition debris) is not considered to pose a risk to the intended use of the land, however, it is recommended that any fill with contaminant concentration in excess of the Table 2 standards or containing significant demolition debris should be removed from the site during redevelopment. Based on the limited nature of our investigation, an accurate determination of the impacted fill cannot be made at this time.

Given that the site is slated for development, it should be noted that any fill that has to be taken off site for construction purposes has to comply with the appropriate standards for the selected destination site and cannot contain non-inert materials, such as the construction/demolition debris observed in a significant number of the test pits, if it is going anywhere but an approved waste disposal facility.

Statement of Limitations

A soils investigation of this nature is a limited sampling program. Should any conditions at the site be encountered which differ from those at the test locations, we request that we be notified immediately in order to permit reassessment of our recommendations/conclusions.

The present report applies only to the project described in this document. Use of this report for purposes other than those described herein or by person(s) other than Day & Ross, or their agents, without review by this firm for the applicability of our recommendations to the altered use of the report, is prohibited.

Paterson Group Inc.



Mark S. D'Arcy, P.Eng.

Attachments

- Laboratory Certificates of Analysis

Report Distribution

- Day & Ross (1 copy and electronic copy)
- Paterson Group (1 copy)

Certificate of Analysis

Paterson Group Consulting Engineers

154 Colonnade Road South
Nepean, ON K2E 7J5
Attn: Mark D'Arcy

Client PO: 24819
Project: PE4387
Custody: 44358

Report Date: 13-Aug-2018
Order Date: 8-Aug-2018

Order #: 1832245

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Parcel ID	Client ID
1832245-01	TP2-G1
1832245-02	TP4-G2
1832245-03	TP5-G2
1832245-04	TP7-G1
1832245-05	TP8-G1
1832245-06	TP11-G1

Approved By:



Mark Foto, M.Sc.
Lab Supervisor

Certificate of Analysis
Client: Paterson Group Consulting Engineers
Client PO: 24819

Report Date: 13-Aug-2018
Order Date: 8-Aug-2018
Project Description: PE4387

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
PHC F4G (gravimetric)	CWS Tier 1 - Extraction Gravimetric	13-Aug-18	13-Aug-18
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	9-Aug-18	10-Aug-18
REG 153: Metals by ICP/MS, soil	EPA 6020 - Digestion - ICP-MS	10-Aug-18	10-Aug-18
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	9-Aug-18	13-Aug-18
Solids, %	Gravimetric, calculation	10-Aug-18	10-Aug-18

Certificate of Analysis
 Client: Paterson Group Consulting Engineers
 Client PO: 24819

Report Date: 13-Aug-2018

Order Date: 8-Aug-2018

Project Description: PE4387

Client ID:	TP2-G1	TP4-G2	TP5-G2	TP7-G1
Sample Date:	08/01/2018 09:00	08/01/2018 09:00	08/01/2018 09:00	08/01/2018 09:00
Sample ID:	1832245-01	1832245-02	1832245-03	1832245-04
MDL/Units	Soil	Soil	Soil	Soil

Physical Characteristics

% Solids	0.1 % by Wt.	90.6	91.4	83.0	91.1
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Metals

Antimony	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Arsenic	1.0 ug/g dry	2.6	1.9	1.3	2.6
Barium	1.0 ug/g dry	67.5	96.6	168	112
Beryllium	0.5 ug/g dry	<0.5	<0.5	<0.5	<0.5
Boron	5.0 ug/g dry	11.1	<5.0	<5.0	<5.0
Cadmium	0.5 ug/g dry	<0.5	<0.5	<0.5	<0.5
Chromium	5.0 ug/g dry	15.8	26.9	43.0	32.8
Cobalt	1.0 ug/g dry	4.9	6.4	10.6	7.9
Copper	5.0 ug/g dry	14.0	18.5	20.7	23.5
Lead	1.0 ug/g dry	30.9	47.7	22.7	26.5
Molybdenum	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Nickel	5.0 ug/g dry	14.3	16.2	25.1	20.0
Selenium	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Silver	0.3 ug/g dry	<0.3	<0.3	<0.3	<0.3
Thallium	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Uranium	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Vanadium	10.0 ug/g dry	33.2	30.6	42.6	34.4
Zinc	20.0 ug/g dry	58.4	63.4	61.6	50.9

Hydrocarbons

F2 PHCs (C10-C16)	4 ug/g dry	11	-	-	-
F3 PHCs (C16-C34)	8 ug/g dry	347	-	-	-
F4 PHCs (C34-C50)	6 ug/g dry	875 [1]	-	-	-
F4G PHCs (gravimetric)	50 ug/g dry	6590	-	-	-

Semi-Volatiles

Acenaphthene	0.02 ug/g dry	0.07	0.09	0.03	0.02
Acenaphthylene	0.02 ug/g dry	0.07	0.06	<0.02	<0.02
Anthracene	0.02 ug/g dry	0.21	0.21	0.06	0.07
Benzo [a] anthracene	0.02 ug/g dry	0.51	0.46	0.14	0.15
Benzo [a] pyrene	0.02 ug/g dry	0.47	0.46	0.21	0.18
Benzo [b] fluoranthene	0.02 ug/g dry	1.24	1.05	0.19	0.16
Benzo [g,h,i] perylene	0.02 ug/g dry	0.34	0.31	0.26	0.18
Benzo [k] fluoranthene	0.02 ug/g dry	0.67	0.59	0.10	0.10
Chrysene	0.02 ug/g dry	0.56	0.45	0.14	0.20

Certificate of Analysis
 Client: Paterson Group Consulting Engineers
 Client PO: 24819

Report Date: 13-Aug-2018

Order Date: 8-Aug-2018

Project Description: PE4387

	Client ID:	TP2-G1	TP4-G2	TP5-G2	TP7-G1
	Sample Date:	08/01/2018 09:00	08/01/2018 09:00	08/01/2018 09:00	08/01/2018 09:00
	Sample ID:	1832245-01	1832245-02	1832245-03	1832245-04
	MDL/Units	Soil	Soil	Soil	Soil
Dibenzo [a,h] anthracene	0.02 ug/g dry	0.09	0.09	0.06	0.05
Fluoranthene	0.02 ug/g dry	1.26	1.00	0.29	0.26
Fluorene	0.02 ug/g dry	0.07	0.06	<0.02	<0.02
Indeno [1,2,3-cd] pyrene	0.02 ug/g dry	0.30	0.31	0.24	0.16
1-Methylnaphthalene	0.02 ug/g dry	0.02	0.03	<0.02	<0.02
2-Methylnaphthalene	0.02 ug/g dry	0.03	0.03	<0.02	<0.02
Methylnaphthalene (1&2)	0.04 ug/g dry	0.05	0.06	<0.04	<0.04
Naphthalene	0.01 ug/g dry	0.04	0.05	<0.01	0.02
Phenanthrene	0.02 ug/g dry	0.67	0.69	0.19	0.17
Pyrene	0.02 ug/g dry	0.99	0.86	0.25	0.26
2-Fluorobiphenyl	Surrogate	85.0%	111%	95.0%	96.3%
Terphenyl-d14	Surrogate	78.5%	96.7%	82.9%	77.9%

Certificate of Analysis
 Client: Paterson Group Consulting Engineers
 Client PO: 24819

Report Date: 13-Aug-2018

Order Date: 8-Aug-2018

Project Description: PE4387

Client ID:	TP8-G1	TP11-G1	-	-
Sample Date:	08/01/2018 09:00	08/01/2018 09:00	-	-
Sample ID:	1832245-05	1832245-06	-	-
MDL/Units	Soil	Soil	-	-

Physical Characteristics

% Solids	0.1 % by Wt.	90.9	85.6	-	-
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Metals

Antimony	1.0 ug/g dry	<1.0	<1.0	-	-
Arsenic	1.0 ug/g dry	1.7	1.9	-	-
Barium	1.0 ug/g dry	152	128	-	-
Beryllium	0.5 ug/g dry	<0.5	<0.5	-	-
Boron	5.0 ug/g dry	<5.0	<5.0	-	-
Cadmium	0.5 ug/g dry	<0.5	<0.5	-	-
Chromium	5.0 ug/g dry	32.0	47.0	-	-
Cobalt	1.0 ug/g dry	7.5	10.0	-	-
Copper	5.0 ug/g dry	17.9	29.0	-	-
Lead	1.0 ug/g dry	37.2	26.8	-	-
Molybdenum	1.0 ug/g dry	<1.0	<1.0	-	-
Nickel	5.0 ug/g dry	18.1	28.8	-	-
Selenium	1.0 ug/g dry	<1.0	<1.0	-	-
Silver	0.3 ug/g dry	<0.3	<0.3	-	-
Thallium	1.0 ug/g dry	<1.0	<1.0	-	-
Uranium	1.0 ug/g dry	<1.0	<1.0	-	-
Vanadium	10.0 ug/g dry	33.9	39.7	-	-
Zinc	20.0 ug/g dry	69.0	79.0	-	-

Semi-Volatiles

Acenaphthene	0.02 ug/g dry	<0.02	<0.02	-	-
Acenaphthylene	0.02 ug/g dry	<0.02	<0.02	-	-
Anthracene	0.02 ug/g dry	<0.02	0.07	-	-
Benzo [a] anthracene	0.02 ug/g dry	0.04	0.13	-	-
Benzo [a] pyrene	0.02 ug/g dry	0.06	0.15	-	-
Benzo [b] fluoranthene	0.02 ug/g dry	0.07	0.15	-	-
Benzo [g,h,i] perylene	0.02 ug/g dry	0.09	0.22	-	-
Benzo [k] fluoranthene	0.02 ug/g dry	0.03	0.08	-	-
Chrysene	0.02 ug/g dry	0.05	0.12	-	-
Dibenzo [a,h] anthracene	0.02 ug/g dry	<0.02	0.05	-	-
Fluoranthene	0.02 ug/g dry	0.07	0.17	-	-
Fluorene	0.02 ug/g dry	<0.02	<0.02	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g dry	0.07	0.17	-	-
1-Methylnaphthalene	0.02 ug/g dry	0.02	<0.02	-	-

Certificate of Analysis
 Client: Paterson Group Consulting Engineers
 Client PO: 24819

Report Date: 13-Aug-2018

Order Date: 8-Aug-2018

Project Description: PE4387

	Client ID:	TP8-G1	TP11-G1	-	-
	Sample Date:	08/01/2018 09:00	08/01/2018 09:00	-	-
	Sample ID:	1832245-05	1832245-06	-	-
	MDL/Units	Soil	Soil	-	-
2-Methylnaphthalene	0.02 ug/g dry	0.03	<0.02	-	-
Methylnaphthalene (1&2)	0.04 ug/g dry	0.05	<0.04	-	-
Naphthalene	0.01 ug/g dry	0.02	0.01	-	-
Phenanthrene	0.02 ug/g dry	0.04	0.21	-	-
Pyrene	0.02 ug/g dry	0.07	0.14	-	-
2-Fluorobiphenyl	Surrogate	93.5%	107%	-	-
Terphenyl-d14	Surrogate	85.5%	77.1%	-	-

Certificate of Analysis
Client: **Paterson Group Consulting Engineers**
Client PO: 24819

Report Date: 13-Aug-2018

Order Date: 8-Aug-2018

Project Description: **PE4387**

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F2 PHCs (C10-C16)	ND	4	ug/g						
F3 PHCs (C16-C34)	ND	8	ug/g						
F4 PHCs (C34-C50)	ND	6	ug/g						
F4G PHCs (gravimetric)	ND	50	ug/g						
Metals									
Antimony	ND	1.0	ug/g						
Arsenic	ND	1.0	ug/g						
Barium	ND	1.0	ug/g						
Beryllium	ND	0.5	ug/g						
Boron	ND	5.0	ug/g						
Cadmium	ND	0.5	ug/g						
Chromium	ND	5.0	ug/g						
Cobalt	ND	1.0	ug/g						
Copper	ND	5.0	ug/g						
Lead	ND	1.0	ug/g						
Molybdenum	ND	1.0	ug/g						
Nickel	ND	5.0	ug/g						
Selenium	ND	1.0	ug/g						
Silver	ND	0.3	ug/g						
Thallium	ND	1.0	ug/g						
Uranium	ND	1.0	ug/g						
Vanadium	ND	10.0	ug/g						
Zinc	ND	20.0	ug/g						
Semi-Volatiles									
Acenaphthene	ND	0.02	ug/g						
Acenaphthylene	ND	0.02	ug/g						
Anthracene	ND	0.02	ug/g						
Benzo [a] anthracene	ND	0.02	ug/g						
Benzo [a] pyrene	ND	0.02	ug/g						
Benzo [b] fluoranthene	ND	0.02	ug/g						
Benzo [g,h,i] perylene	ND	0.02	ug/g						
Benzo [k] fluoranthene	ND	0.02	ug/g						
Chrysene	ND	0.02	ug/g						
Dibenzo [a,h] anthracene	ND	0.02	ug/g						
Fluoranthene	ND	0.02	ug/g						
Fluorene	ND	0.02	ug/g						
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g						
1-Methylnaphthalene	ND	0.02	ug/g						
2-Methylnaphthalene	ND	0.02	ug/g						
Methylnaphthalene (1&2)	ND	0.04	ug/g						
Naphthalene	ND	0.01	ug/g						
Phenanthrene	ND	0.02	ug/g						
Pyrene	ND	0.02	ug/g						
Surrogate: 2-Fluorobiphenyl	1.20		ug/g		89.7	50-140			
Surrogate: Terphenyl-d14	1.34		ug/g		101	50-140			

Certificate of Analysis
Client: Paterson Group Consulting Engineers
Client PO: 24819

Report Date: 13-Aug-2018
Order Date: 8-Aug-2018
Project Description: PE4387

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F2 PHCs (C10-C16)	ND	4	ug/g dry	ND				30	
F3 PHCs (C16-C34)	ND	8	ug/g dry	ND				30	
F4 PHCs (C34-C50)	ND	6	ug/g dry	ND				30	
Metals									
Antimony	ND	1.0	ug/g dry	ND				30	
Arsenic	1.6	1.0	ug/g dry	1.8			12.2	30	
Barium	60.3	1.0	ug/g dry	58.2			3.5	30	
Beryllium	0.6	0.5	ug/g dry	0.5			20.3	30	
Boron	10.2	5.0	ug/g dry	10.0			1.4	30	
Cadmium	ND	0.5	ug/g dry	ND			0.0	30	
Chromium	16.4	5.0	ug/g dry	15.9			2.6	30	
Cobalt	4.6	1.0	ug/g dry	4.6			0.7	30	
Copper	8.1	5.0	ug/g dry	8.0			1.0	30	
Lead	29.1	1.0	ug/g dry	29.6			1.8	30	
Molybdenum	ND	1.0	ug/g dry	ND			0.0	30	
Nickel	12.4	5.0	ug/g dry	11.9			3.7	30	
Selenium	ND	1.0	ug/g dry	1.0			0.0	30	
Silver	ND	0.3	ug/g dry	ND			0.0	30	
Thallium	ND	1.0	ug/g dry	ND			0.0	30	
Uranium	ND	1.0	ug/g dry	ND			0.0	30	
Vanadium	19.5	10.0	ug/g dry	19.4			0.0	30	
Zinc	73.5	20.0	ug/g dry	75.5			2.7	30	
Physical Characteristics									
% Solids	90.4	0.1	% by Wt.	92.7			2.5	25	
Semi-Volatiles									
Acenaphthene	ND	0.02	ug/g dry	ND				40	
Acenaphthylene	ND	0.02	ug/g dry	ND				40	
Anthracene	ND	0.02	ug/g dry	ND			0.0	40	
Benzo [a] anthracene	ND	0.02	ug/g dry	ND				40	
Benzo [a] pyrene	ND	0.02	ug/g dry	ND				40	
Benzo [b] fluoranthene	ND	0.02	ug/g dry	ND				40	
Benzo [g,h,i] perylene	ND	0.02	ug/g dry	ND				40	
Benzo [k] fluoranthene	ND	0.02	ug/g dry	ND			0.0	40	
Chrysene	ND	0.02	ug/g dry	ND				40	
Dibenzo [a,h] anthracene	ND	0.02	ug/g dry	ND				40	
Fluoranthene	ND	0.02	ug/g dry	ND			0.0	40	
Fluorene	ND	0.02	ug/g dry	ND				40	
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g dry	ND				40	
1-Methylnaphthalene	ND	0.02	ug/g dry	ND				40	
2-Methylnaphthalene	ND	0.02	ug/g dry	ND				40	
Naphthalene	ND	0.01	ug/g dry	ND				40	
Phenanthrene	ND	0.02	ug/g dry	ND				40	
Pyrene	ND	0.02	ug/g dry	ND			0.0	40	
Surrogate: 2-Fluorobiphenyl	0.931		ug/g dry		63.8	50-140			
Surrogate: Terphenyl-d14	0.930		ug/g dry		63.7	50-140			

Certificate of Analysis
 Client: Paterson Group Consulting Engineers
 Client PO: 24819

Report Date: 13-Aug-2018
 Order Date: 8-Aug-2018
 Project Description: PE4387

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F2 PHCs (C10-C16)	124	4	ug/g	ND	129	60-140			
F3 PHCs (C16-C34)	315	8	ug/g	ND	134	60-140			
F4 PHCs (C34-C50)	167	6	ug/g	ND	112	60-140			
F4G PHCs (gravimetric)	930	50	ug/g		93.0	80-120			
Metals									
Antimony	37.9		ug/L	ND	75.9	70-130			
Arsenic	39.1		ug/L	ND	76.8	70-130			
Barium	66.6		ug/L	23.3	86.5	70-130			
Beryllium	44.4		ug/L	ND	88.5	70-130			
Boron	44.2		ug/L	ND	80.5	70-130			
Cadmium	37.7		ug/L	ND	75.3	70-130			
Chromium	50.8		ug/L	6.4	88.8	70-130			
Cobalt	45.2		ug/L	1.8	86.6	70-130			
Copper	46.5		ug/L	ND	86.7	70-130			
Lead	56.2		ug/L	11.9	88.6	70-130			
Molybdenum	38.6		ug/L	ND	76.7	70-130			
Nickel	48.3		ug/L	ND	87.1	70-130			
Selenium	38.7		ug/L	ND	76.6	70-130			
Silver	38.0		ug/L	ND	75.9	70-130			
Thallium	45.8		ug/L	ND	91.4	70-130			
Uranium	45.0		ug/L	ND	89.7	70-130			
Vanadium	52.5		ug/L	ND	89.5	70-130			
Zinc	66.6		ug/L	30.2	72.7	70-130			
Semi-Volatiles									
Acenaphthene	0.198	0.02	ug/g	ND	108	50-140			
Acenaphthylene	0.175	0.02	ug/g	ND	95.8	50-140			
Anthracene	0.186	0.02	ug/g	ND	102	50-140			
Benzo [a] anthracene	0.176	0.02	ug/g	ND	96.3	50-140			
Benzo [a] pyrene	0.193	0.02	ug/g	ND	106	50-140			
Benzo [b] fluoranthene	0.216	0.02	ug/g	ND	118	50-140			
Benzo [g,h,i] perylene	0.170	0.02	ug/g	ND	93.3	50-140			
Benzo [k] fluoranthene	0.200	0.02	ug/g	ND	110	50-140			
Chrysene	0.210	0.02	ug/g	ND	115	50-140			
Dibenzo [a,h] anthracene	0.185	0.02	ug/g	ND	102	50-140			
Fluoranthene	0.187	0.02	ug/g	ND	103	50-140			
Fluorene	0.192	0.02	ug/g	ND	105	50-140			
Indeno [1,2,3-cd] pyrene	0.198	0.02	ug/g	ND	108	50-140			
1-Methylnaphthalene	0.229	0.02	ug/g	ND	126	50-140			
2-Methylnaphthalene	0.225	0.02	ug/g	ND	123	50-140			
Naphthalene	0.212	0.01	ug/g	ND	116	50-140			
Phenanthrene	0.203	0.02	ug/g	ND	111	50-140			
Pyrene	0.193	0.02	ug/g	ND	106	50-140			
Surrogate: 2-Fluorobiphenyl	1.46		ug/g		100	50-140			

Certificate of Analysis
Client: Paterson Group Consulting Engineers
Client PO: 24819

Report Date: 13-Aug-2018

Order Date: 8-Aug-2018

Project Description: PE4387

Qualifier Notes:

Sample Qualifiers :

1 : GC-FID signal did not return to baseline by C50

Sample Data Revisions

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

Soil results are reported on a dry weight basis when the units are denoted with 'dry'.

Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.
- F1 range corrected for BTEX.
- F2 to F3 ranges corrected for appropriate PAHs where available.
- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.
- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.

Certificate of Analysis

Paterson Group Consulting Engineers

154 Colonnade Road South
Nepean, ON K2E 7J5
Attn: Mark D'Arcy

Client PO: 24870
Project: PE4387
Custody: 118614

Report Date: 14-Aug-2018
Order Date: 8-Aug-2018

Order #: 1832249

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Parcel ID	Client ID
1832249-01	BH4-GW1

Approved By:



Mark Foto, M.Sc.
Lab Supervisor

Certificate of Analysis
Client: Paterson Group Consulting Engineers
Client PO: 24870

Report Date: 14-Aug-2018

Order Date: 8-Aug-2018

Project Description: PE4387

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
PHC F1	CWS Tier 1 - P&T GC-FID	10-Aug-18	10-Aug-18
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	9-Aug-18	9-Aug-18
REG 153: VOCs by P&T GC/MS	EPA 624 - P&T GC-MS	10-Aug-18	10-Aug-18

Certificate of Analysis
 Client: Paterson Group Consulting Engineers
 Client PO: 24870

Report Date: 14-Aug-2018

Order Date: 8-Aug-2018

Project Description: PE4387

Client ID:	BH4-GW1	-	-	-
Sample Date:	08/08/2018 09:00	-	-	-
Sample ID:	1832249-01	-	-	-
MDL/Units	Water	-	-	-

Volatiles

Acetone	5.0 ug/L	<5.0	-	-	-
Benzene	0.5 ug/L	<0.5	-	-	-
Bromodichloromethane	0.5 ug/L	<0.5	-	-	-
Bromoform	0.5 ug/L	<0.5	-	-	-
Bromomethane	0.5 ug/L	<0.5	-	-	-
Carbon Tetrachloride	0.2 ug/L	<0.2	-	-	-
Chlorobenzene	0.5 ug/L	<0.5	-	-	-
Chloroform	0.5 ug/L	<0.5	-	-	-
Dibromochloromethane	0.5 ug/L	<0.5	-	-	-
Dichlorodifluoromethane	1.0 ug/L	<1.0	-	-	-
1,2-Dichlorobenzene	0.5 ug/L	<0.5	-	-	-
1,3-Dichlorobenzene	0.5 ug/L	<0.5	-	-	-
1,4-Dichlorobenzene	0.5 ug/L	<0.5	-	-	-
1,1-Dichloroethane	0.5 ug/L	<0.5	-	-	-
1,2-Dichloroethane	0.5 ug/L	<0.5	-	-	-
1,1-Dichloroethylene	0.5 ug/L	<0.5	-	-	-
cis-1,2-Dichloroethylene	0.5 ug/L	<0.5	-	-	-
trans-1,2-Dichloroethylene	0.5 ug/L	<0.5	-	-	-
1,2-Dichloropropane	0.5 ug/L	<0.5	-	-	-
cis-1,3-Dichloropropylene	0.5 ug/L	<0.5	-	-	-
trans-1,3-Dichloropropylene	0.5 ug/L	<0.5	-	-	-
1,3-Dichloropropene, total	0.5 ug/L	<0.5	-	-	-
Ethylbenzene	0.5 ug/L	<0.5	-	-	-
Ethylene dibromide (dibromoethane)	0.2 ug/L	<0.2	-	-	-
Hexane	1.0 ug/L	<1.0	-	-	-
Methyl Ethyl Ketone (2-Butanone)	5.0 ug/L	<5.0	-	-	-
Methyl Isobutyl Ketone	5.0 ug/L	<5.0	-	-	-
Methyl tert-butyl ether	2.0 ug/L	<2.0	-	-	-
Methylene Chloride	5.0 ug/L	<5.0	-	-	-
Styrene	0.5 ug/L	<0.5	-	-	-
1,1,1,2-Tetrachloroethane	0.5 ug/L	<0.5	-	-	-
1,1,2,2-Tetrachloroethane	0.5 ug/L	<0.5	-	-	-
Tetrachloroethylene	0.5 ug/L	<0.5	-	-	-
Toluene	0.5 ug/L	<0.5	-	-	-
1,1,1-Trichloroethane	0.5 ug/L	<0.5	-	-	-

Certificate of Analysis
 Client: Paterson Group Consulting Engineers
 Client PO: 24870

Report Date: 14-Aug-2018
 Order Date: 8-Aug-2018
 Project Description: PE4387

	Client ID:	BH4-GW1	-	-	-
	Sample Date:	08/08/2018 09:00	-	-	-
	Sample ID:	1832249-01	-	-	-
	MDL/Units	Water	-	-	-
1,1,2-Trichloroethane	0.5 ug/L	<0.5	-	-	-
Trichloroethylene	0.5 ug/L	<0.5	-	-	-
Trichlorofluoromethane	1.0 ug/L	<1.0	-	-	-
Vinyl chloride	0.5 ug/L	<0.5	-	-	-
m,p-Xylenes	0.5 ug/L	<0.5	-	-	-
o-Xylene	0.5 ug/L	<0.5	-	-	-
Xylenes, total	0.5 ug/L	<0.5	-	-	-
4-Bromofluorobenzene	Surrogate	92.5%	-	-	-
Dibromofluoromethane	Surrogate	122%	-	-	-
Toluene-d8	Surrogate	99.6%	-	-	-

Hydrocarbons

F1 PHCs (C6-C10)	25 ug/L	<25	-	-	-
F2 PHCs (C10-C16)	100 ug/L	<100	-	-	-
F3 PHCs (C16-C34)	100 ug/L	<100	-	-	-
F4 PHCs (C34-C50)	100 ug/L	<100	-	-	-

Certificate of Analysis
 Client: Paterson Group Consulting Engineers
 Client PO: 24870

Report Date: 14-Aug-2018
 Order Date: 8-Aug-2018
 Project Description: PE4387

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	ND	25	ug/L						
F2 PHCs (C10-C16)	ND	100	ug/L						
F3 PHCs (C16-C34)	ND	100	ug/L						
F4 PHCs (C34-C50)	ND	100	ug/L						
Volatiles									
Acetone	ND	5.0	ug/L						
Benzene	ND	0.5	ug/L						
Bromodichloromethane	ND	0.5	ug/L						
Bromoform	ND	0.5	ug/L						
Bromomethane	ND	0.5	ug/L						
Carbon Tetrachloride	ND	0.2	ug/L						
Chlorobenzene	ND	0.5	ug/L						
Chloroform	ND	0.5	ug/L						
Dibromochloromethane	ND	0.5	ug/L						
Dichlorodifluoromethane	ND	1.0	ug/L						
1,2-Dichlorobenzene	ND	0.5	ug/L						
1,3-Dichlorobenzene	ND	0.5	ug/L						
1,4-Dichlorobenzene	ND	0.5	ug/L						
1,1-Dichloroethane	ND	0.5	ug/L						
1,2-Dichloroethane	ND	0.5	ug/L						
1,1-Dichloroethylene	ND	0.5	ug/L						
cis-1,2-Dichloroethylene	ND	0.5	ug/L						
trans-1,2-Dichloroethylene	ND	0.5	ug/L						
1,2-Dichloropropane	ND	0.5	ug/L						
cis-1,3-Dichloropropylene	ND	0.5	ug/L						
trans-1,3-Dichloropropylene	ND	0.5	ug/L						
1,3-Dichloropropene, total	ND	0.5	ug/L						
Ethylbenzene	ND	0.5	ug/L						
Ethylene dibromide (dibromoethane)	ND	0.2	ug/L						
Hexane	ND	1.0	ug/L						
Methyl Ethyl Ketone (2-Butanone)	ND	5.0	ug/L						
Methyl Isobutyl Ketone	ND	5.0	ug/L						
Methyl tert-butyl ether	ND	2.0	ug/L						
Methylene Chloride	ND	5.0	ug/L						
Styrene	ND	0.5	ug/L						
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L						
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L						
Tetrachloroethylene	ND	0.5	ug/L						
Toluene	ND	0.5	ug/L						
1,1,1-Trichloroethane	ND	0.5	ug/L						
1,1,2-Trichloroethane	ND	0.5	ug/L						
Trichloroethylene	ND	0.5	ug/L						
Trichlorofluoromethane	ND	1.0	ug/L						
Vinyl chloride	ND	0.5	ug/L						
m,p-Xylenes	ND	0.5	ug/L						
o-Xylene	ND	0.5	ug/L						
Xylenes, total	ND	0.5	ug/L						
Surrogate: 4-Bromofluorobenzene	81.8		ug/L		102	50-140			
Surrogate: Dibromofluoromethane	83.8		ug/L		105	50-140			
Surrogate: Toluene-d8	78.6		ug/L		98.3	50-140			

Certificate of Analysis
 Client: Paterson Group Consulting Engineers
 Client PO: 24870

Report Date: 14-Aug-2018
 Order Date: 8-Aug-2018
 Project Description: PE4387

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	ND	25	ug/L	ND				30	
Volatiles									
Acetone	7.14	5.0	ug/L	7.64			6.8	30	
Benzene	ND	0.5	ug/L	ND				30	
Bromodichloromethane	1.45	0.5	ug/L	1.43			1.4	30	
Bromoform	ND	0.5	ug/L	ND				30	
Bromomethane	ND	0.5	ug/L	ND				30	
Carbon Tetrachloride	ND	0.2	ug/L	ND				30	
Chlorobenzene	ND	0.5	ug/L	ND				30	
Chloroform	3.33	0.5	ug/L	3.25			2.4	30	
Dibromochloromethane	0.88	0.5	ug/L	0.87			1.1	30	
Dichlorodifluoromethane	ND	1.0	ug/L	ND				30	
1,2-Dichlorobenzene	ND	0.5	ug/L	ND				30	
1,3-Dichlorobenzene	ND	0.5	ug/L	ND				30	
1,4-Dichlorobenzene	ND	0.5	ug/L	ND				30	
1,1-Dichloroethane	ND	0.5	ug/L	ND				30	
1,2-Dichloroethane	ND	0.5	ug/L	ND				30	
1,1-Dichloroethylene	ND	0.5	ug/L	ND				30	
cis-1,2-Dichloroethylene	ND	0.5	ug/L	ND				30	
trans-1,2-Dichloroethylene	ND	0.5	ug/L	ND				30	
1,2-Dichloropropane	ND	0.5	ug/L	ND				30	
cis-1,3-Dichloropropylene	ND	0.5	ug/L	ND				30	
trans-1,3-Dichloropropylene	ND	0.5	ug/L	ND				30	
Ethylbenzene	ND	0.5	ug/L	ND				30	
Ethylene dibromide (dibromoethane)	ND	0.2	ug/L	ND				30	
Hexane	ND	1.0	ug/L	ND				30	
Methyl Ethyl Ketone (2-Butanone)	ND	5.0	ug/L	ND			0.0	30	
Methyl Isobutyl Ketone	ND	5.0	ug/L	ND				30	
Methyl tert-butyl ether	ND	2.0	ug/L	ND				30	
Methylene Chloride	ND	5.0	ug/L	ND				30	
Styrene	135	0.5	ug/L	130			3.6	30	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	ND				30	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	ND				30	
Tetrachloroethylene	ND	0.5	ug/L	ND				30	
Toluene	ND	0.5	ug/L	ND				30	
1,1,1-Trichloroethane	ND	0.5	ug/L	ND				30	
1,1,2-Trichloroethane	ND	0.5	ug/L	ND				30	
Trichloroethylene	ND	0.5	ug/L	ND				30	
Trichlorofluoromethane	ND	1.0	ug/L	ND				30	
Vinyl chloride	ND	0.5	ug/L	ND				30	
m,p-Xylenes	ND	0.5	ug/L	ND				30	
o-Xylene	ND	0.5	ug/L	ND				30	
Surrogate: 4-Bromofluorobenzene	96.4		ug/L		120	50-140			
Surrogate: Dibromofluoromethane	97.7		ug/L		122	50-140			
Surrogate: Toluene-d8	79.5		ug/L		99.3	50-140			

Certificate of Analysis
 Client: Paterson Group Consulting Engineers
 Client PO: 24870

Report Date: 14-Aug-2018

Order Date: 8-Aug-2018

Project Description: PE4387

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	1820	25	ug/L		91.0	68-117			
F2 PHCs (C10-C16)	1780	100	ug/L		111	60-140			
F3 PHCs (C16-C34)	5050	100	ug/L		129	60-140			
F4 PHCs (C34-C50)	3140	100	ug/L		127	60-140			
Volatiles									
Acetone	96.5	5.0	ug/L	7.64	88.8	50-140			
Benzene	51.8	0.5	ug/L	ND	130	50-140			
Bromodichloromethane	49.0	0.5	ug/L	1.43	119	50-140			
Bromoform	49.7	0.5	ug/L	ND	124	50-140			
Bromomethane	49.2	0.5	ug/L	ND	123	50-140			
Carbon Tetrachloride	48.8	0.2	ug/L	ND	122	50-140			
Chlorobenzene	41.6	0.5	ug/L	ND	104	50-140			
Chloroform	46.8	0.5	ug/L	3.25	109	50-140			
Dibromochloromethane	51.0	0.5	ug/L	0.87	125	50-140			
Dichlorodifluoromethane	50.4	1.0	ug/L	ND	126	50-140			
1,2-Dichlorobenzene	46.8	0.5	ug/L	ND	117	50-140			
1,3-Dichlorobenzene	46.7	0.5	ug/L	ND	117	50-140			
1,4-Dichlorobenzene	46.8	0.5	ug/L	ND	117	50-140			
1,1-Dichloroethane	51.5	0.5	ug/L	ND	129	50-140			
1,2-Dichloroethane	42.9	0.5	ug/L	ND	107	50-140			
1,1-Dichloroethylene	40.7	0.5	ug/L	ND	102	50-140			
cis-1,2-Dichloroethylene	50.5	0.5	ug/L	ND	126	50-140			
trans-1,2-Dichloroethylene	43.1	0.5	ug/L	ND	108	50-140			
1,2-Dichloropropane	50.1	0.5	ug/L	ND	125	50-140			
cis-1,3-Dichloropropylene	46.0	0.5	ug/L	ND	115	50-140			
trans-1,3-Dichloropropylene	47.7	0.5	ug/L	ND	119	50-140			
Ethylbenzene	44.1	0.5	ug/L	ND	110	50-140			
Ethylene dibromide (dibromoethane)	47.4	0.2	ug/L	ND	119	50-140			
Hexane	43.1	1.0	ug/L	ND	108	50-140			
Methyl Ethyl Ketone (2-Butanone)	135	5.0	ug/L	ND	135	50-140			
Methyl Isobutyl Ketone	134	5.0	ug/L	ND	134	50-140			
Methyl tert-butyl ether	99.2	2.0	ug/L	ND	99.2	50-140			
Methylene Chloride	42.4	5.0	ug/L	ND	106	50-140			
Styrene	167	0.5	ug/L	130	92.0	50-140			
1,1,1,2-Tetrachloroethane	50.5	0.5	ug/L	ND	126	50-140			
1,1,2,2-Tetrachloroethane	45.2	0.5	ug/L	ND	113	50-140			
Tetrachloroethylene	46.0	0.5	ug/L	ND	115	50-140			
Toluene	42.1	0.5	ug/L	ND	105	50-140			
1,1,1-Trichloroethane	41.7	0.5	ug/L	ND	104	50-140			
1,1,2-Trichloroethane	48.0	0.5	ug/L	ND	120	50-140			
Trichloroethylene	46.8	0.5	ug/L	ND	117	50-140			
Trichlorofluoromethane	45.0	1.0	ug/L	ND	112	50-140			
Vinyl chloride	50.5	0.5	ug/L	ND	126	50-140			
m,p-Xylenes	95.9	0.5	ug/L	ND	120	50-140			
o-Xylene	48.8	0.5	ug/L	ND	122	50-140			
Surrogate: 4-Bromofluorobenzene	65.2		ug/L		81.5	50-140			

Certificate of Analysis
Client: **Paterson Group Consulting Engineers**
Client PO: **24870**

Report Date: 14-Aug-2018
Order Date: 8-Aug-2018
Project Description: **PE4387**

Qualifier Notes:

None

Sample Data Revisions

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable
ND: Not Detected
MDL: Method Detection Limit
Source Result: Data used as source for matrix and duplicate samples
%REC: Percent recovery.
RPD: Relative percent difference.

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.
- F1 range corrected for BTEX.
- F2 to F3 ranges corrected for appropriate PAHs where available.
- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.
- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.



Client Name: PATERSON Project Reference: PE4367
 Contact Name: MARK D'ARCY Quote # _____
 Address: 154 Colonnade PO # 24070
 Telephone: 613-226-7341 Email Address: mdarcy@patersonsgroup.ca
 Criteria: O. Reg. 153/04 (As Amended) Table 2 RSC Filing O. Reg. 558/00 PWQO CCME SUB (Storm) SUB (Sanitary) Municipality: _____ Other: _____

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)				Required Analyses															
Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken		PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWS)							
				Date	Time														
1 <u>PHH-GW</u>	<u>GW</u>		<u>3</u>	<u>Aug 8/16</u>		<u>X</u>	<u>X</u>												
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Comments: _____ Method of Delivery: Paracel

Relinquished By (Sign): <u>h.l.B.</u>	Received by Driver/Depot: <u>T. LOUISE</u>	Received at Lab: <u>h.l.B.</u>	Verified By: <u>MUSE</u>
Relinquished By (Print): <u>MIKE B.</u>	Date/Time: <u>08/08/18 3:30</u>	Date/Time: <u>8/8/18 4:25</u>	Date/Time: <u>Aug 8/18 5:24</u>
Date/Time: _____	Temperature: <u>7.1</u> °C	Temperature: <u>19.0</u> °C	pH Verified [] By: _____