



PATERSON GROUP

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

September 16, 2022
File: PE5584-LET.01

**Caivan (Jock River) Limited Partnership
and Barrhaven Conservancy Development Corporation**
2934 Baseline Road, Suite 302
Ottawa, Ontario
K1T 3R7

Attention: **Mr. Hugo Lalonde**

Subject: **Phase I - Environmental Site Assessment Update
4305, 4345 and 4375 McKenna Casey Drive and
3285, 3288, 3300 and 3305 Borrisokane Drive
Ottawa, Ontario (Conservancy Lands)**

patersongroup.ca

Dear Sir,

Further to your request, Paterson Group (Paterson) conducted a Phase I - Environmental Site Assessment (Phase I ESA) Update for the aforementioned property. This report updates a previous Phase I ESA report completed by Golder, dated October 2018, and is intended to meet the requirements of a Phase I ESA, as per the MECP Standard O.Reg. 153/04, as amended, under the Environmental Protection Act. This report is to be read in conjunction with the previous report.

Site Information

The Phase I Property is located on the west and east sides of Borrisokane Road, immediately north of the Jock River, in the City of Ottawa, Ontario. The western portion of the Phase I Property consists of 4305, 4345 and 4375 McKenna Casey Drive and 3288 and 3300 Borrisokane Road. The eastern portion of the Phase I Property consists of 3285 and 3305 Borrisokane Road.

The western portion of the Phase I Property is zoned as a Development Reserve (DR) Zone and the eastern portion is zoned as a Residential Third Density Zone (R3YY) and Open Space and Leisure Zone (O1).

The Phase I Property is 166 hectares in size. The Phase I Property is not currently serviced however, full municipal services will be available at the time of development. The Phase I Property is shown on Drawing PE5584-1 – Site Plan.





Records Review

Phase I ESA Study Area Determination

A radius of approximately 250 m was determined to be appropriate as a Phase I Study Area for this assessment. Properties outside the 250 m radius are not considered to have the potential to impact the Phase I Property, based on their separation distance.

First Developed Use Determination

For the purposes of this report, and based on aerial photographs and the documentation reviewed, the Phase I Property is considered to have been first developed with a farmhouse and barn sometime prior to 1946.

Previous Engineering Reports

The following reports were reviewed prior to conducting this assessment:

- ❑ 'Phase I Environmental Site Assessment, 4305, 4375, 4345 McKenna Casey Drive, 3285, 3300, 3305 Borrisokane Road – Ottawa, Ontario, prepared by Golder dated October 2018.

According to historical research conducted as part of the 2018 Phase I ESA, the portion of the Phase I Property addressed 3288 Borrisokane Road was developed with the former farmhouse and barn prior to 1946. The remainder of the Phase I Property has existed solely as agricultural fields and vacant land. No environmental concerns were identified with respect to the historical use of the Phase I Property.

One historical potentially contaminating activity (PCA) in the form of a historical railway was identified immediately north of the Phase I Property. Based on its separation distance, as well as there being no record of spills in the vicinity of the Phase I Property, the former railway was not considered to have the potential to impact the Phase I Property.

Following the historical research, an inspection of the Phase I Property and surrounding lands was conducted. No environmental concerns were identified on the Phase I Property at the time of the site visit.

No areas of potential environmental concern (APECs) were identified at the time of the Phase I -ESA and as a result, a Phase II -ESA was not recommended.

- ❑ 'Geotechnical Investigation, Proposed Residential Development, Conservancy Lands – Ottawa, Ontario, prepared by Paterson dated July 15, 2021.



The geotechnical investigation involved the advancement of 57 boreholes to a maximum depth of 9.1m below the existing ground surface. Additionally, 39 monitoring wells were installed by others for the purpose of monitoring groundwater levels across the property.

The subsurface profile encountered across the Phase I Property generally consisted of a surficial layer of topsoil underlain by a silty clay deposit. Glacial till was encountered in the south-eastern corner of the Phase I Property at depths ranging from 3.7 to 6.3m below the existing ground surface. Fill material was not encountered during the subsurface investigation.

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on September 8, 2022. The Phase I Property was not listed in the NPRI database. No records of pollutant release were listed in the database for properties located within the Phase I Study Area.

Areas of Natural Significance

A search of natural significance and features within the Phase I Study Area was conducted on the website of the Ontario Ministry of Natural Resources (MNR) on September 8, 2022. The search did not reveal any areas of natural significance within the Phase I Study Area.

Water Bodies

The nearest body of water with respect to the Phase I Property is the Jock River which runs east to west along the southern property boundary of the western portion of the Phase I Property.

PCB Inventory

A search of provincial PCB waste storage sites was conducted. No PCB waste storage sites are located within the Phase I Study Area.

Ministry of the Environment, Conservation and Parks (MECP) Instruments

A request was submitted to the MECP Freedom of Information (FOI) 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 Phase I Property. At the time of issuance of this report, a response from the MECP had not been received. A copy of the response will be forwarded to the client, should it contain any pertinent information.



MECP Submissions

A request was submitted to the MECP FOI office for information with respect to reports related to environmental conditions for the Phase I Property. At the time of issuance of this report, a response from the MECP had not been received. A copy of the response will be forwarded to the client, should it contain any pertinent information.

MECP Incident Reports

A request was submitted to the MECP FOI 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 issuance of this report, a response from the MECP had not been received. A copy of the response will be forwarded to the client, should it contain any pertinent information.

MECP Waste Management Records

A request was submitted to the MECP FOI office for information with respect to waste management records. At the time of issuance of this report, a response from the MECP had not been received. A copy of the response will be forwarded to the client, should it contain any pertinent information.

MECP Coal Gasification Plant Inventory

The Ontario Ministry of Environment document titled "Municipal Coal Gasification Plant Site Inventory, 1991" was reviewed to reference the locations of former plants with respect to the site. No Municipal Coal Gasification Plant Sites are located within the Phase I Study Area.

MECP Brownfields Environmental Site Registry

A search of the MECP Brownfields Environmental Site Registry 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 or properties within the Phase I ESA Study Area.

MECP Waste Disposal Site Inventory

The Ontario Ministry of Environment 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. There are no former waste disposal sites located within 250 m of the Phase I Study Area.



Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto, was contacted electronically on September 8, 2022, to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. A response from the TSSA indicated that no records were listed in the TSSA registry for the selected properties. A copy of the TSSA response has been appended to this report.

City of Ottawa Landfill Document

The document entitled “Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa”, was reviewed. There are no closed landfill sites within the vicinity of the Phase I study area.

City of Ottawa Historical Land Use Inventory (HLUI)

The response from the City of Ottawa to the 2018 HLUI request was reviewed as part of this assessment. No records were identified on the Phase I Property or within the Phase I Study Area. The City noted that there are existing waste facilities located along Trail Road, however these waste facilities were located approximately 1.5 km from the Phase I Property and based on their significant separation distance, are not considered to have had the potential to impact the Phase I Property.

A requisition form was sent to the City of Ottawa to request information from the City’s Historical Land Use Inventory database for the Phase I Property. A response had not been received at the time of issuing this report. A copy of the search results will be forwards to the client upon receipt. A copy of the HLUI request form has been appended to this report.

Environmental Risk Information Service (ERIS) Report

Paterson reviewed the ERIS report that was acquired in conjunction with the 2018 Golder Phase I – ESA.

Three borehole records were documented for the Phase I Property. The boreholes were completed in conjunction with previous geotechnical investigations. Four water well information systems (WWIS) records were also identified on the Phase I Property and pertained to domestic wells that are no longer in use.

Records identified within the Phase I Study Area were limited to borehole records, certificate of approval (CA) records, ERIS historical searches and WWIS records.

No PCAs were identified through a review of the ERIS database report.



Aerial Photographs

The latest aerial photograph reviewed for the 2018 Phase I ESA was from 2014. A review of the 2021 aerial photograph shows the Phase I Property as being in the initial stages of development. Several access roads can be seen traversing the Phase I Property and soil disturbances indicating lot grading can be seen in the central and western portions of the property. No PCAs were identified through a review of the 2021 aerial photograph. A copy of the 2021 aerial photograph has been appended to this report.

Topographic Maps

Topographic maps were obtained from Natural Resources Canada – The Atlas of Canada website and from the City of Ottawa website.

Regionally, the topographic maps indicate the Phase I Property is approximately 90 m above sea level and regional topography in the general area of the Phase I Property slopes gently downward to the south, towards the Jock River. An illustration of the referenced topographic map is presented on Figure 2 – Topographic Map, appended to this report.

Physiographic Maps

A Physiographic Map was reviewed from the Natural Resources Canada – The Atlas of Canada website. According to this physiographic map, the site is located in the St. Lawrence Lowlands. 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.” Mapping shows the Phase I Property as situated in an area of limestone plains.

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, bedrock in the area of the site is reported to consist of interbedded dolostone and sandstone of the Oxford Formation. Overburden soils consist of clay and silt with a drift thickness ranging from 10 to 15m. Based on the completed geotechnical assessment, the subsurface of the Phase I Property consists of clay and glacial till in the southeastern portion.

Water Well Records

A search of the MECP’s web site for all drilled well records within 250 m of the Phase I Property was conducted on September 9, 2022. One well record was identified on the Phase I Property and pertained to a domestic well that was drilled in 1990. Well records for 6 water supply wells and one abandonment record from 1963 to 2015 were identified for properties within the Phase I Study Area.



The potable wells were drilled to depths ranging from 7 to 37m below grade. Bedrock was encountered at an average depth of 13m, and the groundwater table was intercepted at depths ranging from 2.87 to 10.44m.

Based on the age of the well records as well as the availability of municipal services once residential development is completed on the Phase I Property, the potable wells are no longer considered to be in use. A copy of the well records has been appended to this report.

Interviews

Mr. Hugo Lalonde, a representative of the current property owner, was interviewed as part of this Phase I ESA Update. Mr. Lalonde informed Paterson that the Phase I Property has historically been used for residential and agricultural purposes. Paterson was also informed that there has never been any fuel or oil stored on the Phase I Property and that the property is in the initial stages of residential development.

Mr. Lalonde was unaware of any environmental concerns on the Phase I Property or in the immediate vicinity.

Site Reconnaissance

A site reconnaissance visit was conducted on September 12, 2022, by a representative of the Environmental Division at Paterson Group Inc. 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 visit.

Buildings and Structures

There are currently no buildings or structures on the Phase I Property.

Site Features

The Phase I Property is primarily occupied by vacant lightly vegetated land with gravel service roads that run east-west across the central portion of the property. Four surcharge stockpiles were observed on the Phase I Property: two on the western portion and two on the eastern portion. These piles consist of engineered fill and/or reworked native material and are used to assess the loading capabilities of the native soils prior to development.

Additionally, four small stockpiles of concrete and several stockpiles of boulders were observed on the western and eastern portions of the Phase I Property. Small amounts of rebar were observed in the concrete within the stockpiles. Although the stockpiled rebar and concrete are not considered to have the potential to impact the Phase I Property, it is recommended they are removed prior to development.



Site drainage occurs primarily through infiltration in the lightly vegetated areas and sheet flow to drainage ditches throughout the Phase I Property. The Phase I Property is relatively flat and at grade with Borrisokane Road and the regional topography slopes gently downward to the south, towards the Jock River. Groundwater within the Phase I Study Area is expected to flow towards the south.

No evidence of current or former railway or spur lines was observed on the Phase I Property at the time of the site visit. There were no unidentified substances observed on the exterior of the Phase I Property.

As previously discussed, based on the age of the potable well records as well as the availability of municipal services once residential development on the Phase I Property is complete, it is unlikely potable wells remain in use. No potable wells observed on the Phase I Property or on properties within the Phase I Study Area.

The Phase I Property is shown on Drawing PE5584-1 - Site Plan

Other Potential Environmental Concerns

No signs of stressed vegetation or unidentified substances were observed on the Phase I Property at the time of this assessment.

Importation of Fill Material of Known Quality

Fill material was imported to the Phase I Property, for development purposes, during the interim of February through April 2020 and again in October 2020. The fill material, consisting of a silty sand and silty clay material, resulted from the redevelopment of the former Drummond's aggregate pit addressed 3713 Borrisokane Road. It should be noted that Paterson had completed several environmental investigations at the source property and that a Record of Site Condition was filed in the MECP's Environmental Site Registry for the residential redevelopment.

The excavation of fill material was monitored on a full-time basis by Paterson personnel. All soil was subjected to a screening, sampling, and analysis program prior to importation to the Phase I Property to ensure the site standards of the Phase I Property were met. All soil imported to the Phase I Property was determined to comply with the applicable MECP standards. Based on the findings of the monitoring program and analytical test results, the fill material is not considered to represent a potentially contaminating activity on the Phase I Property and as such, does not represent an area of potential environmental concern.



Neighbouring Properties

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 – Strandherd Drive followed by vacant land and residential dwellings;
- South – Jock River followed by agricultural fields;
- East – Agricultural fields followed by Greenbank Road;
- West – Highway No.416 followed by agricultural fields.

Land use within the Phase I Study Area primarily consists of residential developments and agricultural fields.

No PCAs were identified with respect to the current use of the surrounding lands. The surrounding land use within the Phase I Study Area is presented on Drawing PE5584-2 – Surrounding Land Use Plan, appended to this report.

Review and Evaluation of Information

Land Use History

The Phase I Property solely existed as vacant agricultural land with the exception of a farmstead previously located on the property addressed 3288 Borrisokane Road prior to the preparation of the land for development in 2020/2021.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

No new potentially contaminating activities (PCAs) were identified at the Phase I Property or within the Phase I Study Area, since the previous 2018 Phase I ESA. As such, no areas of potential environmental concern (APECs) are present on the Phase I Property.

Conceptual Site Model

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, bedrock in the area of the site is reported to consist of interbedded dolostone and sandstone of the Oxford Formation. Overburden soils consist of clay and silt with a drift thickness ranging from 10 to 15m. Based on the completed geotechnical assessment, the subsurface of the Phase I Property consists of clay and glacial till in the southeastern portion.



Existing Buildings and Structures

There are currently no buildings or structures located on the Phase I Property.

Water Bodies and Areas of Natural Significance

The Jock River runs along the southern property boundary of the eastern portion of the Phase I Property.

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

Water Well Records

A search of the MECP 's web site for all drilled well records within 250 m of the Phase I Property was conducted on September 9, 2022. One well record was identified on the Phase I Property and pertained to a domestic well that was drilled in 1990. Well records for 6 water supply wells and one abandonment record from 1963 to 2015 were identified for properties within the Phase I Study Area.

The potable wells were drilled to depths ranging from 7 to 37m below grade. Bedrock was encountered at an average depth of 13m, and the groundwater table was intercepted at depths ranging from 2.87 to 10.44m.

Based on the age of the well records as well as the availability of municipal services once residential development is completed on the Phase I Property, the potable wells are no longer considered to be in use. A copy of the well records has been appended to this report.

Neighbouring Land Use

Neighbouring land use in the Phase I Study Area is primarily residential dwellings to the north, Highway No.416 followed by agricultural fields to the west, residential development to the east and the Jock River to the south. Two retail fuel outlets were identified within the Jock River followed by a residential development to the south. No PCAs were identified with respect to the current use of the neighbouring lands.

Potentially Contaminating Activities and Areas of Potential Environmental Concerns

Based on the findings of the updated records review and site visit, no PCAs resulting in APECs on the Phase I Property were identified.



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 APECs on the Phase I Property. A variety of independent sources were consulted 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.

Conclusions

The results of the records review, research, and site inspection indicated that there are no new potential environmental concerns regarding the Phase I Property since the 2018 Phase I ESA. Based on the results of this Phase I ESA Update, **in our opinion, a Phase II Environmental Site Assessment is not required for the property**

Statement of Limitations

This Phase I - Environmental Site Assessment Update report has been prepared in general accordance with O.Reg. 153/04, as amended. The conclusions presented herein are based on information gathered from a historical review and field inspection program. The findings of the Phase I ESA Update 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 Phase I Property 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 Caivan (Jock River) Limited Partnership and Barrhaven Conservancy Development Corporation.

Permission and notification from Caivan (Jock River) Limited Partnership and Barrhaven Conservancy Development Corporation as well as this firm will be required to release this report to any other party.



We trust that this submission satisfies your current requirements. Should you have any questions, please contact the undersigned.

Paterson Group Inc.

Samuel Berube, EIT

Karyn Munch, P.Eng., Q.P.ESA



Report Distribution

- Caivan (Jock River) Limited Partnership c/o Barrhaven Conservancy Development Corporation
- Paterson Group (1 copy)

Attachments:

- Figure 1 - Key Plan
- Figure 2 - Topographic Map
- Aerial Photograph (2019)
- Drawing PE5584-1 - Site Plan
- Drawing PE5584-2 - Surrounding Land Use Plan
- FOI Request
- TSSA Correspondence
- HLUI Request
- MECP Well Records



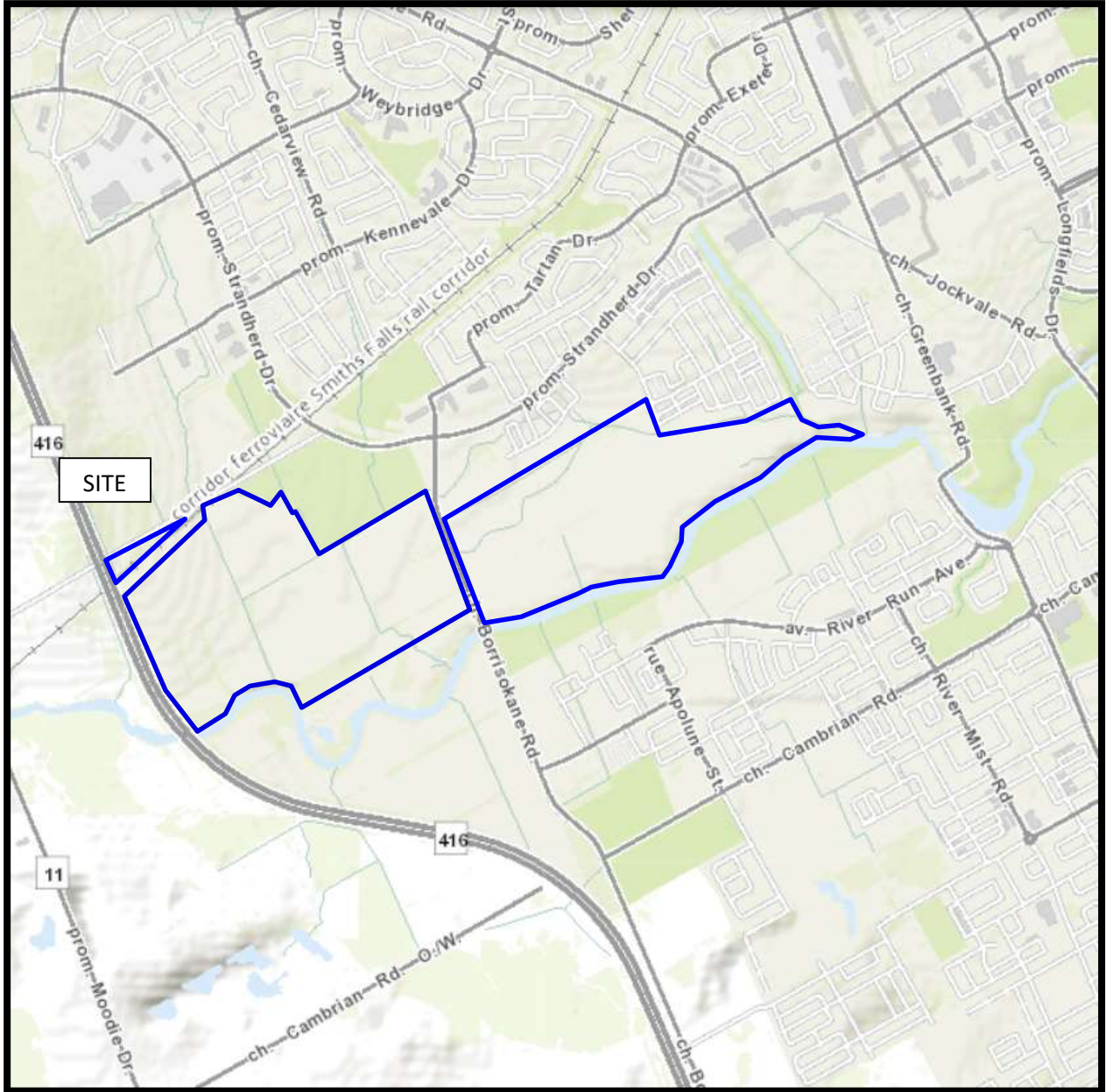


FIGURE 1
KEY PLAN

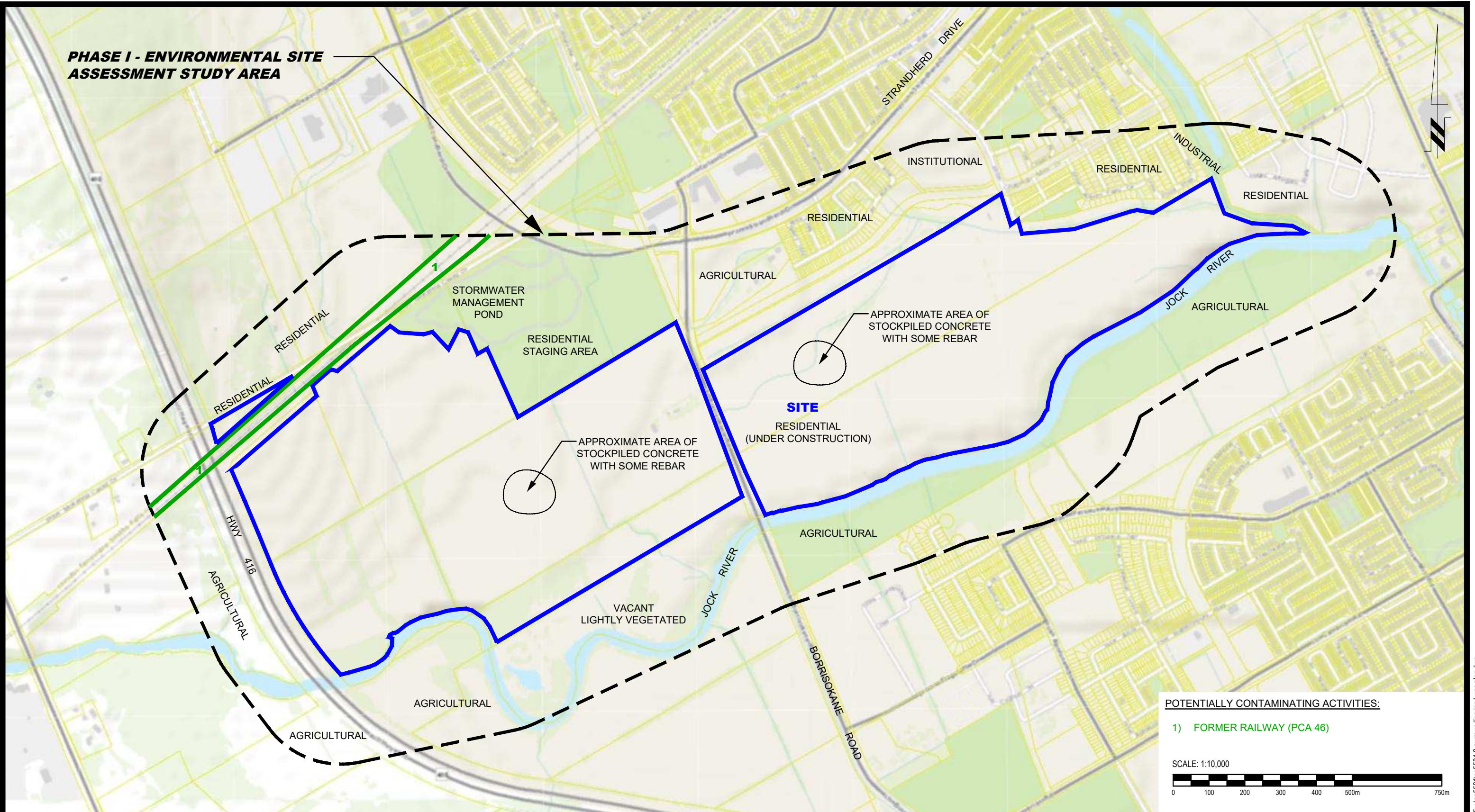


FIGURE 2
TOPOGRAPHIC MAP



AERIAL PHOTOGRAPH
2021

PHASE I - ENVIRONMENTAL SITE ASSESSMENT STUDY AREA



POTENTIALLY CONTAMINATING ACTIVITIES:

- 1) FORMER RAILWAY (PCA 46)

SCALE: 1:10,000



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

NO.	REVISIONS	DATE	INITIAL

CAIVAN COMMUNITIES
PHASE I - ENVIRONMENTAL SITE ASSESSMENT UPDATE
CONSERVANCY LANDS

OTTAWA, ONTARIO

Title: **SITE PLAN & SURROUNDING LAND USE PLAN**

Scale:	1:10,000	Date:	09/2022
Drawn by:	YA	Report No.:	PE5584-1
Checked by:	SB	Dwg. No.:	PE5584-1
Approved by:	KM	Revision No.:	

Ministry of the Environment, Conservation and Parks

Freedom of Information Request for Property Information

Instructions

Use this form to:

- submit and pay for a new FOI request for access to records/information about a property
- pay for a deposit or a final fee on an existing FOI request

Fields marked with an asterisk (*) are mandatory.

Are you: *

- Submitting a new FOI Request for Property Information
- Paying a deposit or final fee for an existing FOI Request for Property Information

Section 1 – Description of Records Requested

Time Period for Records Requested

From (yyyy/mm/dd) *

2018/01/01

To (yyyy/mm/dd) *

2022/09/09

Type of Record(s) *

- All environmental records relating to the identified property/site exclusive of Environmental Approvals and Registrations
- Environmental Approvals and Registrations (e.g. Environmental Compliance Approvals; Certificate of Approval; Renewable Energy Approvals; Environmental Activity and Sector Registry Registrations)

Select only if you are seeking access to an Approval or Registration that is not publicly available or if you are also seeking supporting documents relating to the Approval or Registration.

Operator and vendor Pesticide Licenses from September 4, 2018, final Approvals and Registrations are publicly available on the Access Environment website at:

<https://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/GoSearch.action?search=basic&lang=en>.

Records of Site Condition (RSC) records are publicly available on the Brownfields Environmental Site Registry (BSER).

- RSC records between 2004 to June 30, 2011 are available at:
<https://www.lrcsde.lrc.gov.on.ca/besrWebPublic/generalSearch>
- RSC records filed after July 2011 are available at:
https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/earchFiledRsc_search?request_locale=en

- Other Specific Document(s)

Type of Approval/Registration *

- Drinking Water Licenses
- No Supporting Documents All Supporting Documents Some Supporting Documents
- Pesticide Licenses

Only pesticide licenses post September 2018 are available. Prior to September 2018, only Pesticide license applications and supporting documentation is available

No Supporting Documents All Supporting Documents Some Supporting Documents

Permits to Take Water

No Supporting Documents All Supporting Documents Some Supporting Documents

Water Source *

Groundwater Surface Water

Noise Vibrations Approvals/Registrations

No Supporting Documents All Supporting Documents Some Supporting Documents

Air Emissions Approvals/Registrations

No Supporting Documents All Supporting Documents Some Supporting Documents

Water Approvals/Registrations - Ontario Water Resources Commission, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster), mains

No Supporting Documents All Supporting Documents Some Supporting Documents

Sewage – Treatment, Stormwater, Storm, Leachate & Lieachate Treatment & Sewage pump stations, Sanitary

No Supporting Documents All Supporting Documents Some Supporting Documents

Waste Water - Industrial discharge

No Supporting Documents All Supporting Documents Some Supporting Documents

Waste Sites - Disposal, Landfill sites, Transfer stations, Processing sites, Incinerator sites

No Supporting Documents All Supporting Documents Some Supporting Documents

Waste Management Systems - haulers: sewage, non-hazardous & hazardous waste, mobile waste processing units, Polychlorinated Biphenyls (PCBs) storage, transfer or destruction, Waste Generator Systems)

No Supporting Documents All Supporting Documents Some Supporting Documents

Company Name

Waste Generator Registration - number/class

List any record(s) that should be excluded from the scope of your request (e.g. email correspondences; records originating from your organization/business; records already in your possession, prior year(s) annual reports for approvals)

Please provide any additional relevant information relating to your request. For example, does your request relate to any other ministry business? Please note that this information is being requested only in order to provide contextual information to the Access and Privacy Office and will not in any way affect or expedite the status of any related ministry business identified.

Section 2 – Requester Information

Last Name * First Name * Middle Initial

Business/Organization Name (if applicable or indicate "N/A") *

Project/Reference Number (if applicable)

Are you submitting this request on behalf of a client? *
 Yes No

Mailing Address

Unit Number Street Number * Street Name *

PO Box City/Town * Province * Postal Code *

Telephone Number * ext. Email Address *

Is there an alternate contact (e.g. office admin)? *
 Yes No

Section 3 – Current Property Address Information

Is the property a:

Park Lake First Nation Band Wind Farm Federal Land Island Unsurveyed Land

Are you requesting information about multiple addresses? *

Yes No

Please only submit a request with multiple addresses if the property is one site. To be considered one site, addresses must be adjacent to each other and owned by the same owner(s).

Do the multiple addresses belong to one site? *

Yes No

Please submit a separate FOI request for each address.

Site Name

Property Address

Address 1

Unit Number Street Number Street Name

Full Lot Number Concession Geographic Township

City/Town/Village *

Closest Intersection

Strandherd Drive and Mckenna Casey Drive

Address 2

Unit Number

Street Number

Street Name

4345

McKenna Casey Drive

Full Lot Number

Concession

Geographic Township

Nepean

City/Town/Village *

Ottawa

Closest Intersection

Strandherd Drive and Mckenna Casey Drive

Address 3

Unit Number

Street Number

Street Name

3305

Borrisokane Road

Full Lot Number

Concession

Geographic Township

Nepean

City/Town/Village *

Ottawa

Closest Intersection

Borrisokane Road and Strandherd Drive

Section 4 – Previous Property Address Information

Do you want the ministry to search all prior historical addresses for this property/site for the time period of the records requested? *

Yes No

Section 5 – Owner Information

Please provide all present and previous property owner and/or tenant names for the search years requested.

Current Property Owner/Tenant

Address 1

4375 McKenna Casey Drive

Nepean

Ottawa

Owner Name

Caivan

Date of Ownership (yyyy/mm/dd)

Tenant Name

Address 2

4345 McKenna Casey Drive

Nepean

Ottawa

Owner Name

Caivan

Date of Ownership (yyyy/mm/dd)

Tenant Name

Address 3

3305 Borrisokane Road
Nepean
Ottawa

Owner Name

Caivan

Date of Ownership (yyyy/mm/dd)

Tenant Name

Section 6 – Supporting Documents

Please upload any documents (e.g. Maps) that are relevant to your FOI request.

The total size of all attachments must not be more than 8 MB.

1. File Name

Total File Size

Payment confirmation number: 24288686

Ministry of the Environment, Conservation and Parks

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From (yyyy/mm/dd) *

2018/01/01

To (yyyy/mm/dd) *

2022/09/08

Type of Record(s) *

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- Environmental Approvals and Registrations (e.g. Environmental Compliance Approvals; Certificate of Approval; Renewable Energy Approvals; Environmental Activity and Sector Registry Registrations)

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No Supporting Documents All Supporting Documents Some Supporting Documents

Air Emissions Approvals/Registrations

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Water Approvals/Registrations - Ontario Water Resources Commission, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster), mains

No Supporting Documents All Supporting Documents Some Supporting Documents

Sewage – Treatment, Stormwater, Storm, Leachate & Lieachate Treatment & Sewage pump stations, Sanitary

No Supporting Documents All Supporting Documents Some Supporting Documents

Waste Water - Industrial discharge

No Supporting Documents All Supporting Documents Some Supporting Documents

Waste Sites - Disposal, Landfill sites, Transfer stations, Processing sites, Incinerator sites

No Supporting Documents All Supporting Documents Some Supporting Documents

Waste Management Systems - haulers: sewage, non-hazardous & hazardous waste, mobile waste processing units, Polychlorinated Biphenyls (PCBs) storage, transfer or destruction, Waste Generator Systems)

No Supporting Documents All Supporting Documents Some Supporting Documents

Company Name

Waste Generator Registration - number/class

List any record(s) that should be excluded from the scope of your request (e.g. email correspondences; records originating from your organization/business; records already in your possession, prior year(s) annual reports for approvals)

Please provide any additional relevant information relating to your request. For example, does your request relate to any other ministry business? Please note that this information is being requested only in order to provide contextual information to the Access and Privacy Office and will not in any way affect or expedite the status of any related ministry business identified.

Section 2 – Requester Information

Last Name * First Name * Middle Initial

Business/Organization Name (if applicable or indicate "N/A") *

Project/Reference Number (if applicable)

Are you submitting this request on behalf of a client? *
 Yes No

Mailing Address

Unit Number Street Number * Street Name *

PO Box City/Town * Province * Postal Code *

Telephone Number * ext. Email Address *

Is there an alternate contact (e.g. office admin)? *
 Yes No

Section 3 – Current Property Address Information

Is the property a:

Park Lake First Nation Band Wind Farm Federal Land Island Unsurveyed Land

Are you requesting information about multiple addresses? *

Yes No

Please only submit a request with multiple addresses if the property is one site. To be considered one site, addresses must be adjacent to each other and owned by the same owner(s).

Do the multiple addresses belong to one site? *

Yes No

Please submit a separate FOI request for each address.

Site Name

Property Address

Address 1

Unit Number Street Number Street Name

Full Lot Number Concession Geographic Township

City/Town/Village *

Closest Intersection

Mckenna Casey Drive and Strandherd Drive

Address 2

Unit Number

Street Number

Street Name

3285

Borrisokane road

Full Lot Number

Concession

Geographic Township

13

3

Nepean

City/Town/Village *

Ottawa

Closest Intersection

Borrisokane Road and Strandherd Drive

Address 3

Unit Number

Street Number

Street Name

3288

Borrisokane road

Full Lot Number

Concession

Geographic Township

14

4

Nepean

City/Town/Village *

Ottawa

Closest Intersection

Borrisokane Road and Strandherd Drive

Address 4

Unit Number

Street Number

Street Name

3300

Borrisokane road

Full Lot Number

Concession

Geographic Township

13

4

Nepean

City/Town/Village *

Ottawa

Closest Intersection

Borrisokane Road and Strandherd Drive

Section 4 – Previous Property Address Information

Do you want the ministry to search all prior historical addresses for this property/site for the time period of the records requested? *

Yes No

Section 5 – Owner Information

Please provide all present and previous property owner and/or tenant names for the search years requested.

Current Property Owner/Tenant

Address 1

4305 Mckenna Casey Drive

Lot 14 Conc 3 Nepean
Ottawa

Owner Name

Caivan

Date of Ownership (yyyy/mm/dd)

Tenant Name

Address 2

3285 Borrisokane road
Lot 13 Conc 3 Nepean
Ottawa

Owner Name

Caivan

Date of Ownership (yyyy/mm/dd)

Tenant Name

Address 3

3288 Borrisokane road
Lot 14 Conc 4 Nepean
Ottawa

Owner Name

Caivan

Date of Ownership (yyyy/mm/dd)

Tenant Name

Address 4

3300 Borrisokane road
Lot 13 Conc 4 Nepean
Ottawa

Owner Name

Caivan

Date of Ownership (yyyy/mm/dd)

Tenant Name

Section 6 – Supporting Documents

Please upload any documents (e.g. Maps) that are relevant to your FOI request.

The total size of all attachments must not be more than 8 MB.

1. File Name

Total File Size

Payment confirmation number: 24284615

Samuel Berube

From: Public Information Services <publicinformationservices@tssa.org>
Sent: September 8, 2022 4:23 PM
To: Samuel Berube
Subject: RE: PE5584 - TSSA Request

Please refrain from sending documents to head office. The Public Information (PI) team works remotely, mailing in applications will lengthen the overall processing time.

NO RECORD FOUND IN CURRENT DATABASE

Hello Samuel,

Thank you for your request for confirmation of public information. TSSA has performed a preliminary search of TSSA's current database.

- We confirm that there are no records in our current database of any fuel storage tanks at the subject address(es).

This is not a confirmation that there are no records in the archives. For a further search in our archives, please submit an application for release of public information (PI Form) through TSSA's new Service Prepayment Portal. The associated fee must be paid via credit card (Visa or MasterCard) through a secure site.

Please follow the steps below to access the new application(s) and Service Prepayment Portal:

1. Click [Release of Public Information - TSSA](#) - TSSA and click "need a copy of a document";
2. Select the appropriate application, download it and complete it in full; and
3. Proceed to page 3 of the application and click the link TSSA Service Prepayment Portal under payment options (the link will take you the secure site to pay for the release via credit card).

Accessing the Service Prepayment Portal:

1. Select new or existing customer (*if you are an existing customer, you will need your account # & postal code to access your account);
2. Select the program area: AD (Amusement Devices), BPV (Boilers and Pressure Vessels), ED (Elevating Devices), FS (Fuels Services), OE (Operating Engineers) or SKI (Ski Lifts) and click continue;
3. Enter the application form number (obtained from bottom left corner of application form) and click continue;
 - a. When selecting the application form number from the drop-down menu, please make sure you select the application that begins with "PI" (i.e. PI-FS, PI-BPV etc.);
4. Complete the primary contact information section;
5. Complete the fees section;
6. Upload your completed application; and
7. Upload supporting documents (if required) and click continue.

Once all steps have been successfully completed, you will receive your receipt via email.

Questions? Please contact TSSA's Public Information Release team at publicinformationservices@tssa.org.

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,



Nicola Carty | Public Information Agent

Public Information
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: +1 416-734-3221 | E-Mail: ncarty@tssa.org
www.tssa.org



Winner of 2022 5-Star Safety Cultures Award

From: Samuel Berube <SBerube@patersongroup.ca>

Sent: September 8, 2022 3:00 PM

To: Public Information Services <publicinformationservices@tssa.org>

Subject: PE5584 - TSSA Request

[CAUTION]: This email originated outside the organisation.
Please do not click links or open attachments unless you recognise the source of this email and know the content is safe.

Good afternoon,

Can you please complete a search of your records for the following properties in Ottawa, Ontario?

3285, 3288, 3300, 3305 – **Borrisokane Road**

4305, 4345, 4375– **Mckenna Casey Drive**

Thank you,



SAMUEL BERUBE, EIT
Junior Environmental Engineer
TEL: (613) 226-7381 ext. 335
DIRECT: (613) 696-9651
9 AURIGA DRIVE
OTTAWA ON K2E 7T9
patersongroup.ca

EXPLORE THE POSSIBILITIES WITH US AND VISIT OUR REFRESHED WEBSITE TODAY.

This electronic message and any attached documents are intended only for the named recipients. This communication from the Technical Standards and Safety Authority may contain information that is privileged, confidential or otherwise 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.

Office Use Only

Application Number: _____	Ward Number: _____	Application Received: (dd/mm/yyyy): _____
Client Service Centre Staff: _____	Fee Received: \$	<input type="text"/>



Historic Land Use Inventory

Application Form

Notice of Public Record

All information and materials required in support of your application shall be made available to the public, as indicated by Section 1.0.1 of *The Planning Act*, R.S.O. 1990, C.P.13.

Municipal Freedom of Information and Protection Act

Personal information on this form is collected under the authority the *Planning Act*, RSO 1990, c. P. 13 and will be used to process this application. Questions about this collection may be directed by mail to Manager, Business Support Services, Planning Infrastructure and Economic Development Department, 110 Laurier Avenue West, Ottawa, K1P 1J1, or by phone at (613) 580-2424, ext. 24075

Background Information

***Site Address or Location:**

4305 McKenna Casey Drive and 3285, 3288 and 3300 Borrisokane Road, City of Ottawa
PINs: 045950057, 045950025, 045950023 and 045951745

** Mandatory Field*

Applicant/Agent Information:

Name:	Paterson Group		
Mailing Address:	9 Auriga Drive , Ottawa, ON		
Telephone:	613-226-7381	Email Address:	sberube@patersongroup.ca

Registered Property Owner Information:

Same as above

Name:	Caivan		
Mailing Address:	2934 Baseline Road, Suite 302, Ottawa, ON, K2P 1B2		
Telephone:		Email Address:	hugo.lalonde@caivan.ca

Site Details

Legal Description
and PIN:

Part 1 of Lot 14, Concession 3 and Parts 3,4 and 5 of Lot 13, Part 1 of Lot 14 and Part of Lot 15, Ottawa, ON
PINs: 045950057, 045950025, 045950023 and 045951742

What is the land
currently used for?

Residential

Lot frontage: m Lot depth: m Lot area: _____ m²

OR Lot area: (irregular lot) m²

Does the site have Full Municipal Services: Yes No

Required Fees

Please don't hesitate to visit [the Historic Land Use Inventory website](#) more information. Fees must be paid in full at the time of application submission.

Planning Fee

\$105.00

Submittal Requirements

The following are required to be submitted with this application:

- 1. Consent to Disclose Information:** Consultants and other third parties may make requests for information on behalf of an individual or corporation. However, if the requester is not the owner of the property, **the requester must provide the City of Ottawa with a 'consent to disclose information' letter, signed by the property owner.** This will authorize the City of Ottawa to release any relevant information about the property or its owner(s) to the requester. Consent for disclosure is required in the event that personal information or proprietary company information is found concerning the property and its owner. All consents must clearly indicate the name of the property owner as well as the name of the requester, and must be signed and dated.
- 2. Disclaimer:** Requesters must read and understand the conditions included in the attached disclaimer and submit a signed disclaimer to the City of Ottawa's Planning, Infrastructure and Economic Development Department. This disclaimer is related to the Historic Land Use Inventory and must be received by the City of Ottawa, signed and dated by the requestor, before the process can begin.
- 3. A site plan or key plan of the property, its location and particular features.**
- 4. Any significant dates or time frames that you would like researched.**

Disclaimer
For use with HLUI Database

CITY OF OTTAWA ("the City") is the owner of the Historical Land Use Inventory ("HLUI"), a database of information on the type and location of land uses within the geographic area of Ottawa, which had or have the potential to cause contamination in soil, groundwater or surface water.

The City, in providing information from the HLUI, to Paterson Group _____ ("the Requester") does so only under the following conditions and understanding:

1. The HLUI may contain erroneous information given that such records and sources of information may be flawed. Changes in municipal addresses over time may have introduced error in such records and sources of information. The City is not responsible for any errors or omissions in the HLUI and reserves the right to change and update the HLUI without further notice. The City does not, however, make any commitment to update the HLUI. Accordingly, all information from the HLUI 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.
2. City staff will perform a search of the HLUI based on the information given by the Requester. City staff will make every effort to be accurate, however, the City does not provide an assurance, guarantee, warranty, representation (express or implied), as to the availability, accuracy, completeness or currency of information which will be provided to the Requester. The HLUI in no way confirms the presence or absence of contamination or pollution of any kind. The information provided by the City to the Requester is provided on the assumption that it will not be relied upon by any person whatsoever. The City denies all liability to any such persons attempting to rely on any information provided from the HLUI database.
3. The City, its employees, servants, agents, boards, officials or contractors take no responsibility for any actions, claims, losses, liability, judgments, demands, expenses, costs, damages or harm suffered by any person whatsoever including negligence in compiling or disseminating information in the HLUI.
4. Copyright is reserved to the City.
5. Any use of the information provided from the HLUI which a third party makes, or any reliance on or decisions to be based on it, are the responsibilities of such third parties. The City, its employees, servants, agents, boards, officials or contractors accept no responsibility for any damages, if any, suffered by a third party as a result of decisions made as a result of an information search of the HLUI.
6. Any use of this service by the Requestor indicates an acknowledgement, acceptance and limits of this disclaimer.
7. All information collected under this request and all records provided in response to this request are subject to the provisions of the Municipal Freedom of Information and Protection of Privacy Act, R.S.O. 1990, c. M.56, as amended.

Signed:  _____

Dated (dd/mm/yyyy): 08/09/2022 _____

Per: Samuel Berube _____
(Please print name)

Title: Environmental Engineer _____

Company: Paterson Group _____



**PATERSON
GROUP**

September 8, 2022
File: PE5584 -HLUI

City of Ottawa
110 Laurier Avenue W
Ottawa, Ontario
K1P 1J1

Subject: **Authorization Letter, HLUI Search
Phase I-Environmental Site Assessment
4305 McKenna Casey Drive and
3285, 3288 and 3300 Borrisokane Road
Ottawa, ON**

Consulting Engineers

9 Auriga Drive
Ottawa, Ontario
K2E 7T9

Tel: (613) 226-7381

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

patersongroup.ca

Dear Sir/Madame

Please consider this letter as confirmation that Paterson Group has been retained to conduct a Phase I-Environmental Site Assessment at the aforementioned property.

With this letter, the property owner authorizes the City of Ottawa and other regulatory bodies to release, to Paterson Group, information requested for the purpose of completing an environmental assessment of the property.

Name of Company/Property Owner:

Barrhaven Conservancy Development Corporation

Name of Representative:

Hugo Lalonde

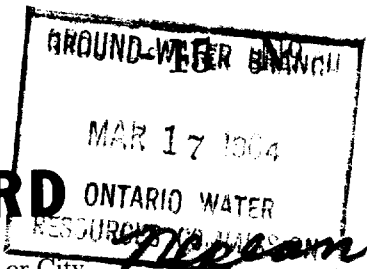
Signature:

Hugo Lalonde

Date:

September 8 2022

Ridea FRONT



6084

UTM 18 43 871.0 E

15 50.111580 N

The Ontario Water Resources Commission Act

Elev. 4 R 0305

WATER WELL RECORD

Basin 25 | County or District Carleton

Township, Village, Town or City Nepean

Con. 4 RF Lot 16

Date completed 5 Aug 63 (day month year)

Address 635 Richmond RD Ottawa

Casing and Screen Record

Inside diameter of casing 6 5/8"
 Total length of casing 41' 7"
 Type of screen none
 Length of screen
 Depth to top of screen
 Diameter of finished hole 6 5/8"

Pumping Test

Static level TOP - 000
 Test-pumping rate 20 G.P.M.
 Pumping level 12
 Duration of test pumping 3 hrs
 Water clear or cloudy at end of test clear
 Recommended pumping rate 4 G.P.M.
 with pump setting of 10 feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record

	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>Sandy loam</u>	<u>0</u>	<u>2</u>	<u>40-43</u>	<u>fresh</u>
<u>Blue clay</u>	<u>2</u>	<u>11</u>		
<u>Blue clay + stones</u>	<u>11</u>	<u>39</u>		
<u>Coarse sand + gravel</u>	<u>39</u>	<u>43</u>		

For what purpose(s) is the water to be used?

Business TOWER OFFICE

Is well on upland, in valley, or on hillside?

hillside

Drilling or Boring Firm NE Gahmton Drilling Co Ltd

Address Caril Ave Ottawa

Licence Number 1021

Name of Driller or Borer M Gibbons

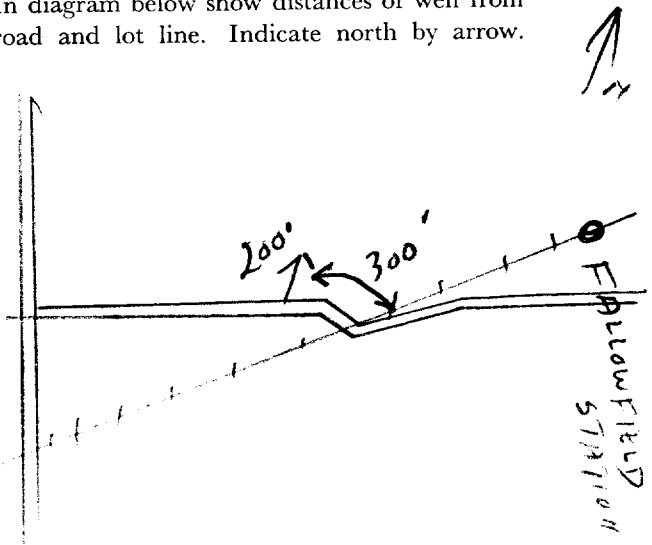
Address Admacton Cent

Date March 3/64

Roy W Kenwick
(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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





WATER WELL RECORD

316/50

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

11 1514917 13008 RF 04

COUNTY OR DISTRICT: [redacted] TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: [redacted] CON., BLOCK, TRACT, SURVEY, ETC.: 4 R.F. LOT: 015 15

DATE COMPLETED: DAY 29 MO 08 YR 75
R. # 7 Ottawa, Ontario

1514917 18 439336 5011828 4 306 4 26 JUL 08, 1977 301

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
brown	sand	gravel & boulders	packed	0	15
gray	hardpan	boulders	packed	15	77
gray	limestone			77	123

31 0015628/11/13 0.0772/41379 0/23215
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER			
10-13 0120	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

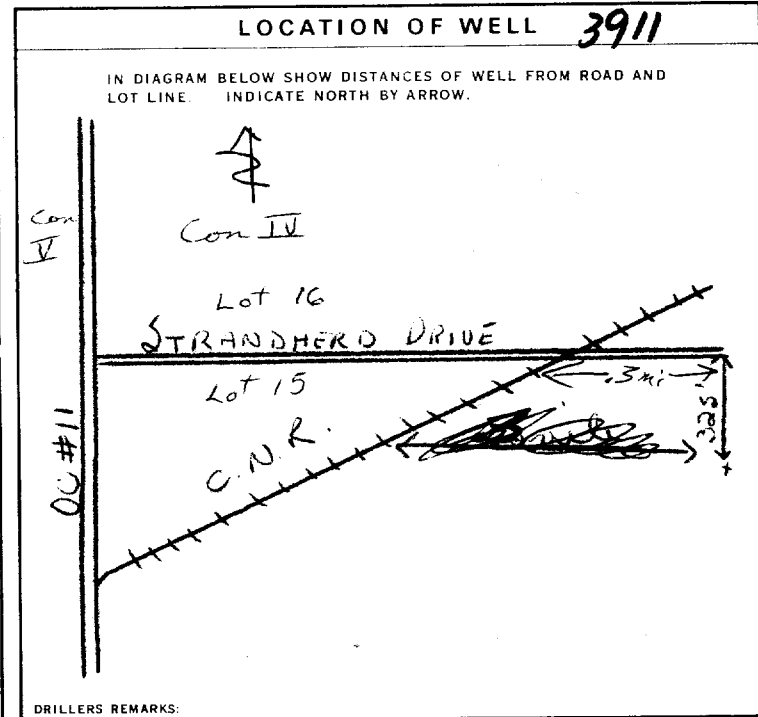
INCHES DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
64	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	0	0079
06	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		79	123
06	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE			0123

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET		MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
FROM	TO	
10-13	14-17	
18-21	22-25	
26-29	30-33	

71 PUMPING TEST

PUMPING TEST METHOD 1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	PUMPING RATE 0010 GPM	DURATION OF PUMPING 01 HOURS 00 MINS
STATIC LEVEL 020 FEET	WATER LEVEL END OF PUMPING 065 FEET	WATER LEVELS DURING
19-21	22-24	15 MINUTES 26-28 065 FEET
		30 MINUTES 29-31 065 FEET
		45 MINUTES 32-34 065 FEET
		60 MINUTES 35-37 065 FEET
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	075 FEET	1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING 075 FEET	RECOMMENDED PUMPING RATE 0005 GPM



FINAL STATUS OF WELL
1 WATER SUPPLY
2 OBSERVATION WELL
3 TEST HOLE
4 RECHARGE WELL
5 ABANDONED, INSUFFICIENT SUPPLY
6 ABANDONED, POOR QUALITY
7 UNFINISHED

WATER USE
1 DOMESTIC
2 STOCK
3 IRRIGATION
4 INDUSTRIAL
5 OTHER
6 COMMERCIAL
7 MUNICIPAL
8 PUBLIC SUPPLY
9 COOLING OR AIR CONDITIONING
10 NOT USED

METHOD OF DRILLING
1 CABLE TOOL
2 ROTARY (CONVENTIONAL)
3 ROTARY (REVERSE)
4 ROTARY (AIR)
5 AIR PERCUSSION
6 BORING
7 DIAMOND
8 JETTING
9 DRIVING

CONTRACTOR
NAME OF WELL CONTRACTOR: Capital Water Supply Ltd. LICENCE NUMBER: 1558
ADDRESS: Box 490 Stittsville, Ontario
NAME OF DRILLER OR BORER: M. Hamilton
SIGNATURE OF CONTRACTOR: Walter Kavanagh
SUBMISSION DATE: DAY 2 NO. 9 YR 75

OFFICE USE ONLY
DATA SOURCE: 1 1558 DATE RECEIVED: 110975
DATE OF INSPECTION: June 10/76 INSPECTOR: [Signature]
REMARKS: P [Signature]
WI

1. PRINT ONLY IN SPACES PROVIDED
 2. CHECK CORRECT BOX WHERE APPLICABLE

11 1518260 MUNICIPAL 15008 CON RF 09
 COUNTY OR DISTRICT: Ottawa-Carleton TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Nepean CON. BLOCK TRACT SURVEY ETC: Conc. 4 R.F. II 016
 ADDRESS: 1140 Fisher Ave.; Ottawa, Ont. DATE COMPLETED: DAY 20 MO 04 YR 83
 BOREHOLE NO. 011499 RC A ELEVATION 0310 RC A BASIN CODE 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Hardpan	Boulders		0	15
Brown	Sandy Clay	Gravel & Boulders		15	43
Gray	Limestone		Medium Soft	43	125

MOE
VF-18

31 00156413 0036051113 0125215788
 32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER			
10-13 0120'	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	2 <input type="checkbox"/> SALTY	4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
06	1 <input checked="" type="checkbox"/> STEEL	188	0	40
06	2 <input type="checkbox"/> GALVANIZED		40	125
5-13	3 <input type="checkbox"/> CONCRETE			
24-25	4 <input checked="" type="checkbox"/> OPEN HOLE			

SCREEN

SIZE OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
31-33	34-38	39-40

MATERIAL AND TYPE: _____ DEPTH TO TOP OF SCREEN: 41-44 FEET

61 PLUGGING & SEALING RECORD

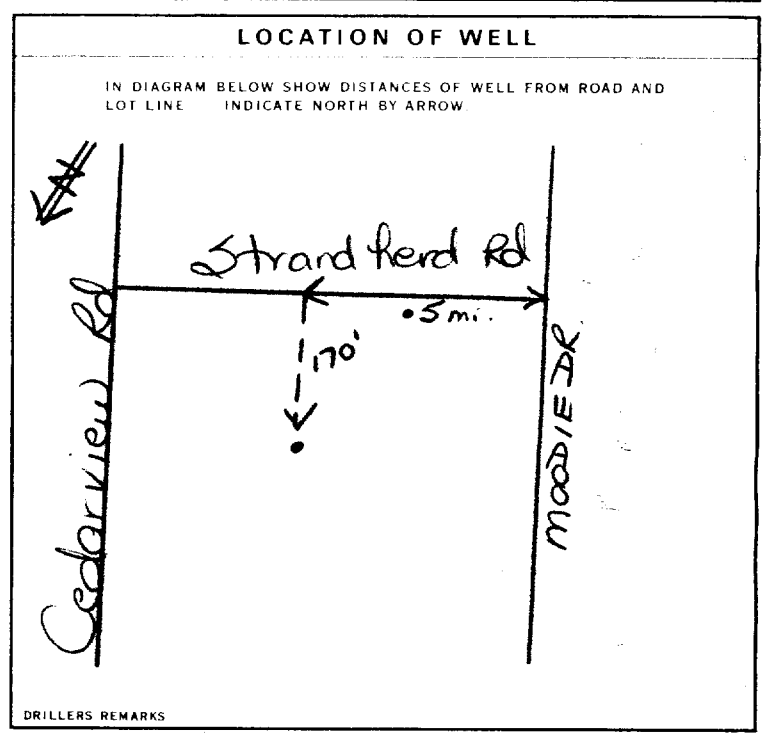
DEPTH SET AT - FEET	MATERIAL AND TYPE	CEMENT GROUT LEAD PACKER, ETC.
10-13	14-17	
18-21	22-25	
26-29	30-33	80

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE GPM	DURATION OF PUMPING HOURS
1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	0010	01

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING PUMPING				
015 FEET	050 FEET	15 MINUTES: 050 FEET	30 MINUTES: 050 FEET	45 MINUTES: 050 FEET	60 MINUTES: 050 FEET	RECOVERY: 050 FEET

RECOMMENDED PUMP TYPE: SHALLOW DEEP
 RECOMMENDED PUMP SETTING: 060 FEET
 RECOMMENDED PUMPING RATE: 0005 GPM



FINAL STATUS OF WELL 1

WATER USE 01

METHOD OF DRILLING 5

CONTRACTOR

NAME OF WELL CONTRACTOR: Capital Water Supply Ltd. LICENCE NUMBER: 1558
 ADDRESS: Box 490; Stittsville, Ont. K0A 3Y0
 NAME OF DRILLER OR BORER: S. Miller
 SIGNATURE OF CONTRACTOR: [Signature] SUBMISSION DATE: DAY 26 MO 04 YR 83

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 1558 DATE RECEIVED: 02 06 83
 DATE OF INSPECTION: _____ INSPECTOR: _____
 REMARKS: _____



1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

11

1524165

MUNICIPALITY 15008

CON. 104

COUNTY OR DISTRICT: Carleton Place TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Nepean CON. BLOCK, TRACT, SURVEY ETC: Con 4 LOT: 19

DATE COMPLETED: DAY 3 MO 11 YR 89

PH# Nepean K214 7V2

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	sand	gravel boulders		0	20
grey	clay	gravel		20	56
grey	limestone			56	182

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13 178	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6 7/8	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC	1/8	0	59
6	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC		59	182

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE: _____ DEPTH TO TOP OF SCREEN: _____

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)
10-13	14-17
18-21	22-25
26-29	30-33

cement grout

71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER

PUMPING RATE: 10 GPM

DURATION OF PUMPING: 15-16 HOURS 0 17-18 MINS 0

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
19-21 20	22-24 60	15 MINUTES 26-28 60	30 MINUTES 29-31 60	45 MINUTES 32-34 60	60 MINUTES 35-37 60

IF FLOWING, GIVE RATE: _____ PUMP INTAKE SET AT: _____ WATER AT END OF TEST: _____

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 60 FEET

RECOMMENDED PUMPING RATE: 8 GPM

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE INDICATE NORTH BY ARROW

56479

FINAL STATUS OF WELL

1 WATER SUPPLY 5 ABANDONED, INSUFFICIENT SUPPLY
2 OBSERVATION WELL 6 ABANDONED POOR QUALITY
3 TEST HOLE 7 UNFINISHED
4 RECHARGE WELL DEWATERING

WATER USE

1 DOMESTIC 5 COMMERCIAL
2 STOCK 6 MUNICIPAL
3 IRRIGATION 7 PUBLIC SUPPLY
4 INDUSTRIAL 8 COOLING OR AIR CONDITIONING
 OTHER 9 NOT USED

METHOD OF CONSTRUCTION

1 CABLE TOOL 5 BORING
2 ROTARY (CONVENTIONAL) 7 DIAMOND
3 ROTARY (REVERSE) 8 JETTING
4 ROTARY (AIR) 9 DRIVING
5 AIR PERCUSSION DIGGING OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: H. Mans Well Drilling WELL CONTRACTOR'S LICENCE NUMBER: 3644

ADDRESS: Box 326, Richmond Ont.

NAME OF WELL TECHNICIAN: _____ WELL TECHNICIAN'S LICENCE NUMBER: _____

SIGNATURE OF TECHNICIAN/CONTRACTOR: _____ SUBMISSION DATE: DAY 4 MO 11 YR 89

OFFICE USE ONLY

DATA SOURCE: _____ CONTRACTOR: 3644 DATE RECEIVED: JAN 26 1990

DATE OF INSPECTION: _____ INSPECTOR: _____

REMARKS: _____

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

11

1532290

Municipality **15008** Con. **RF** **03**

County or District Ottawa Carleton	Township/Borough/City/Town/Village Nepean	Con block tract survey, etc. 3	Lot 13
Address 3390 Greenbank Rd., Nepean On. K2J 4H7		Date completed 09 08 01 day month year	

21

UTM 10 12 17 18 24 25 26 30 31 47

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)					
General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
Brown	sandy soil	stones		0	12
Grey	sandy clay	boulders		12	40
Grey	limestone			40	165
Grey	limestone		badly broken	165	175

31

32

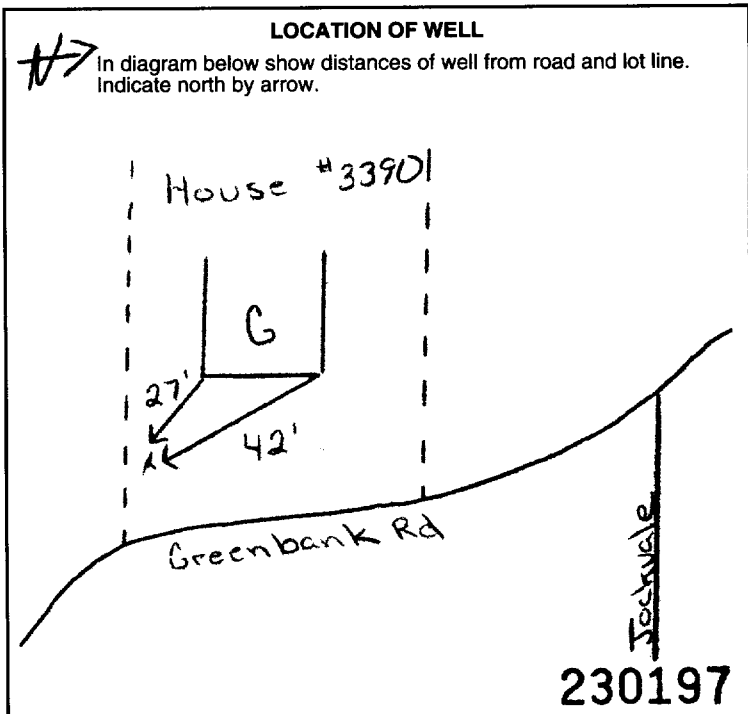
41 WATER RECORD	
Water found at - feet	Kind of water
165-175	NOT TESTED
15-18	1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 2 <input type="checkbox"/> Salty 6 <input type="checkbox"/> Gas
20-23	1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 2 <input type="checkbox"/> Salty 6 <input type="checkbox"/> Gas
25-28	1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 2 <input type="checkbox"/> Salty 6 <input type="checkbox"/> Gas
30-33	1 <input type="checkbox"/> Fresh 3 <input type="checkbox"/> Sulphur 2 <input type="checkbox"/> Salty 6 <input type="checkbox"/> Gas

51 CASING & OPEN HOLE RECORD				
Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
6 1/4	1 <input checked="" type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic	.188	0	43
6	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input checked="" type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic		43	175
6	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic			175

SCREEN	Sizes of opening (Slot No.)	Diameter inches	Length feet
	Material and type		Depth at top of screen feet

61 PLUGGING & SEALING RECORD		
<input checked="" type="checkbox"/> Annular space		<input type="checkbox"/> Abandonment
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)
From	To	
43	0	Grouted-bentonite(6)
18-21	22-25	
26-29	30-33	

71 PUMPING TEST	
Pumping test method 1 <input checked="" type="checkbox"/> Pump 2 <input type="checkbox"/> Bailer	Pumping rate 12 GPM
Static level 32'4" feet	Water level end of pumping 85 feet
Water levels during 1 <input checked="" type="checkbox"/> Pumping 2 <input type="checkbox"/> Recovery	
15 minutes 173 feet	30 minutes 173 feet
45 minutes 100 feet	60 minutes 85 feet
If flowing give rate GPM	Pump intake set at feet
Recommended pump type <input type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep	Recommended pump setting 100 feet
	Water at end of test <input type="checkbox"/> Clear <input type="checkbox"/> Cloudy
	Recommended pump rate 5 GPM



54 FINAL STATUS OF WELL		
1 <input checked="" type="checkbox"/> Water supply	5 <input type="checkbox"/> Abandoned, insufficient supply	9 <input type="checkbox"/> Unfinished
2 <input type="checkbox"/> Observation well	6 <input type="checkbox"/> Abandoned, poor quality	10 <input type="checkbox"/> Replacement well
3 <input type="checkbox"/> Test hole	7 <input type="checkbox"/> Abandoned (Other)	
4 <input type="checkbox"/> Recharge well	8 <input type="checkbox"/> Dewatering	

55-56 WATER USE		
1 <input checked="" type="checkbox"/> Domestic	5 <input type="checkbox"/> Commercial	9 <input type="checkbox"/> Not use
2 <input type="checkbox"/> Stock	6 <input type="checkbox"/> Municipal	10 <input type="checkbox"/> Other
3 <input type="checkbox"/> Irrigation	7 <input type="checkbox"/> Public supply	
4 <input type="checkbox"/> Industrial	8 <input type="checkbox"/> Cooling & air conditioning	

57 METHOD OF CONSTRUCTION		
1 <input type="checkbox"/> Cable tool	5 <input checked="" type="checkbox"/> Air percussion	9 <input type="checkbox"/> Driving
2 <input type="checkbox"/> Rotary (conventional)	6 <input type="checkbox"/> Boring	10 <input type="checkbox"/> Digging
3 <input type="checkbox"/> Rotary (reverse)	7 <input type="checkbox"/> Diamond	11 <input type="checkbox"/> Other
4 <input checked="" type="checkbox"/> Rotary (air)	8 <input type="checkbox"/> Jetting	

Name of Well Contractor Capital Water Supply Ltd.	Well Contractor's Licence No. 1558
Address B ox 490, Stittsville On. K2S 1A6	
Name of Well Technician S. Miller	Well Technician's Licence No. T0097
Signature of Technician/Contractor	Submission date day 9 mo 8 yr 01

MINISTRY USE ONLY	Data source	Contractor	Date received
		1558	SEP 17 2001
	Date of inspection	Inspector	
Remarks			

OSS.ES1



Well Tag No. (Place Sticker and/or Print Below)

Measurements recorded in: Metric Imperial

Well Owner's Information
First Name: CITY OF OTTAWA
Last Name/Organization: 14140 RT CONSTRUCTION (A.S.)
Mailing Address: 387 ALBION RD. SOUTH
Municipality: OTTAWA
Province: ON
Postal Code: K1V 1K3

Well Location
Address of Well Location: N/A
Township: NEPEAN (RF)
Lot: 15
Concession: 3
County/District/Municipality: OTTAWA
City/Town/Village: OTTAWA
Province: Ontario
Postal Code:
UTM Coordinates: Zone 18N, Easting 104411965912445, Northing 523645

Overburden and Bedrock Materials/Abandonment Sealing Record
Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To.
Handwritten entry: WELL ABANDONMENT, Casing BH 15-12, SNC.

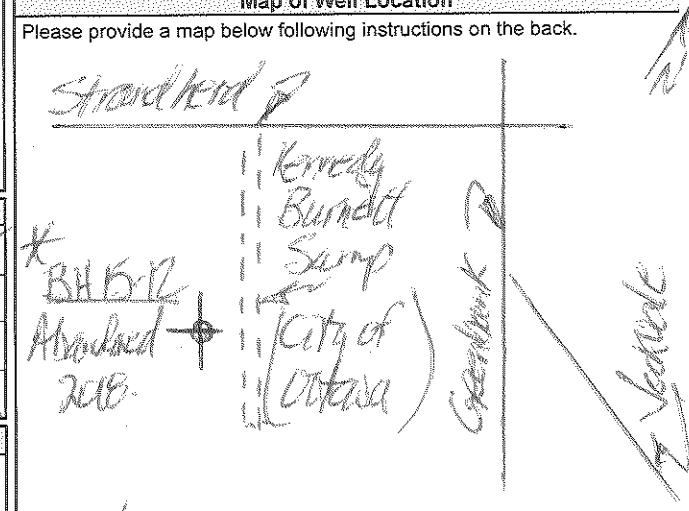
Annular Space
Table with columns: Depth Set at (m/ft) From, To; Type of Sealant Used (Material and Type); Volume Placed (m³/ft³).
Handwritten entry: 387m PK, Hotchkiss Benfrink, 0.07.

Method of Construction and Well Use
Method of Construction: Cable Tool, Rotary (Conventional), Rotary (Reverse), Boring, Air percussion, Other.
Well Use: Public, Domestic, Livestock, Irrigation, Industrial, Other.
Checked: Not used, Dewatering.

Construction Record - Casing
Table with columns: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From, To.
Handwritten entries: 387mm PK, 1) 0 BSA, 1) 0 RES.

Construction Record - Screen
Table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From, To.

Results of Well Yield Testing
Table with columns: Draw Down (Time, Water Level), Recovery (Time, Water Level).
Handwritten entries: 2085, 1, 2, 3, 4, 5, 10, 15, 20, 25, 30, 40, 50, 60.



Water Details and Hole Diameter
Water found at Depth: (m/ft) Gas Other.
Hole Diameter: Depth (m/ft) From, To; Diameter (cm/in).

Well Contractor and Well Technician Information
Business Name: STANTON DRILLING INC
Well Contractor's Licence No.: 48175
Business Address: 157 FIVE ARCHES DRIVE
Municipality: FARGENTHAM
Province: ON
Postal Code: K0M 1K0
Business E-mail Address: stanton.drilling@bell.net
Name of Well Technician: STANTON, PETOL
Signature of Technician and/or Contractor: [Signature]
Date Submitted: YYY Y MM DD

Comments: (Coker Asseater 1523645) * BH 15-12
Well owner's information package delivered: Yes No
Date Package Delivered: YYY Y MM DD
Date Work Completed: YYY Y MM DD
Ministry Use Only: Audit No. 2252113, DEC 21 2018



Measurements recorded in: Metric Imperial

A 251220

Page _____ of _____

Address of Well Location (Street Number/Name) 4025 Strandhead Drive		Township OTTAWA Carleton	Lot	Concession
County/District/Municipality OTTAWA Carleton		City/Town/Village OTTAWA	Province Ontario	Postal Code
UTM Coordinates Zone	Easting	Northing	Municipal Plan and Sublot Number	
NAD 83			Other	

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)				
General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From To
	#1 = GPS 18-440259E 5012046N 2 inch Diam x 18'8" Depth Bentonite Hole Plug		1 BAG	-4Ft 18'8"
	#2 = GPS 18-440187E 5011975N 2 inch Diam x 14 Ft Depth Bentonite hole Plug		1/2 BAG	-5Ft 14Ft
	#3 = GPS 18-440108E 5011939N 2 inch Diam x 15 Ft Depth Bentonite Hole Plug		3/4 BAG	-5' to 15Ft

Annular Space		
Depth Set at (m/ft) From To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)

Results of Well Yield Testing				
After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:	Static Level			
	1		1	
Pump intake set at (m/ft)	2		2	
Pumping rate (l/min / GPM)	3		3	
Duration of pumping ____ hrs + ____ min	4		4	
Final water level end of pumping (m/ft)	5		5	
If flowing give rate (l/min / GPM)	10		10	
	15		15	
Recommended pump depth (m/ft)	20		20	
	25		25	
Recommended pump rate (l/min / GPM)	30		30	
	40		40	
Well production (l/min / GPM)	50		50	
	60		60	
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				

Method of Construction		Well Use		
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Not used
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial		
<input type="checkbox"/> Other, specify _____		<input type="checkbox"/> Other, specify _____		

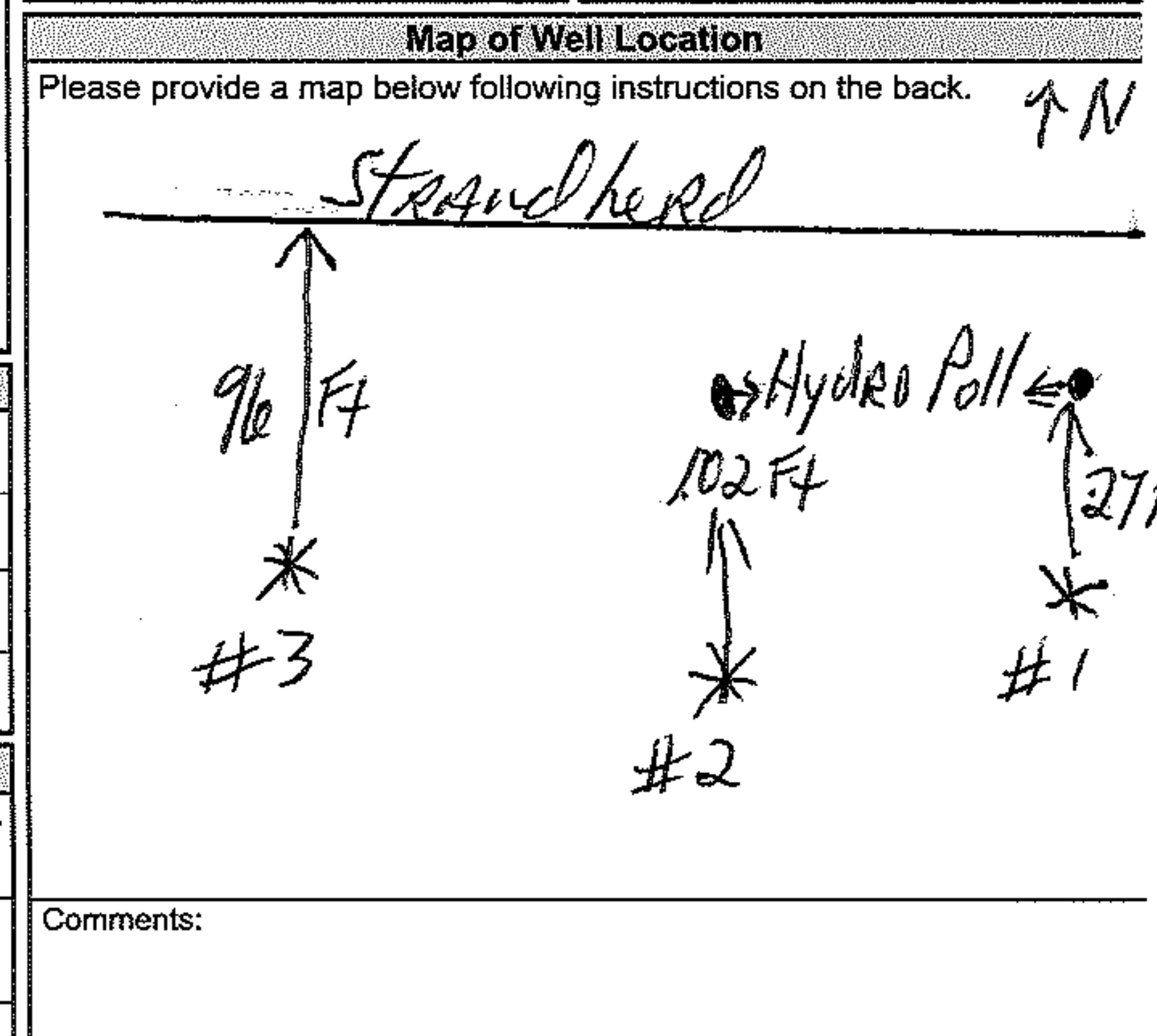
Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____
			From	To	

Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To

Water Details		Hole Diameter	
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From To	Diameter (cm/in)
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		
Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		

Well Contractor and Well Technician Information			
Business Name of Well Contractor RAYMOND Pump + Wells		Well Contractor's Licence No. 7 2 6 0	
Business Address (Street Number/Name) Box 18, 147 Principale St St-Albert		Municipality NATION	
Province Ont.	Postal Code K0A 3C0	Business E-mail Address labrosse-09@hotmail.com	

Bus. Telephone No. (inc. area code) 613 913 1824	Name of Well Technician (Last Name, First Name) RAYMOND JACQUES
Well Technician's Licence No. 0264	Signature of Technician and/or Contractor <i>Raymond Jacques</i>
	Date Submitted 20190624



Well owner's information package delivered		Date Package Delivered		Ministry Use Only	
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Y Y Y Y M M D D		Audit No.	Z307124
		Date Work Completed			AUG 21 2019
				Received	