Geotechnical Engineering

**Environmental Engineering** 

**Hydrogeology** 

Geological Engineering

**Materials Testing** 

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Archaeological Studies

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**Phase I - Environmental Site Assessment** 

910 March Road Ottawa, Ontario

**Prepared For** 

Wexcom Developments (March Rd.) Ltd.

# **Paterson Group Inc.**

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Report: PE4760-1



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# **EXECUTIVE SUMMARY**

# Assessment

Paterson Group was retained by Wexcom Developments (March Road) Ltd. to conduct a Phase I – Environmental Site Assessment (Phase I ESA) at 910 March 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 and Phase I Study Area and to identify any environmental concerns with the potential to have impacted the subject land.

According to the historical research, the Phase I Property was initially developed with a residence and farmstead circa 1890. The subject land remained as agricultural land (cattle farm) until 2014, at which time it was used for residential purposes only. No potentially contaminating activities (PCAs) were identified with the historical use of the Phase I Property.

Based on historical records, neighbouring lands were also occupied by residences and farmsteads. No PCAs were identified with the historical use of properties within the Phase I Study Area.

Following the historical research, a site visit was conducted. The subject land is occupied by multiple structures consisting of storage barns, maintenance and tool storage sheds, a single-storey cabin and a two-storey residential structure with a basement level. The current property owner was present at the time of the assessment and indicated that a former underground storage tank (UST) was situated on the south side of the residence. The former UST represents is a PCA that represents an area of potential environmental concern (APEC) on the Phase I Property.

Additionally, three (3) empty aboveground storage tanks (ASTs) were noted in the interior of the northeastern storage shed, as well as an AST along the exterior west wall of another storage shed, located between the residence and the northwestern shed. The ASTs on-site were considered PCAs that represent APECs on the Phase I Property.

Neighbouring lands in the Phase I Study Area consist of residential, vacant lands and commercial businesses located to the south. No PCAs were identified with the current use of the lands within the Phase I Study Area.

Based on the results of the Phase I ESA, it is our opinion that a Phase II Environmental Site Assessment is required for the subject property.



# Recommendations

If the domestic wells currently on-site are not going to be used in the future, or will be destroyed during site redevelopment, they should be abandoned according to Ontario Regulation 903.



# 1.0 INTRODUCTION

At the request of Wexcom Developments (March Road) Ltd., Paterson Group (Paterson) conducted a Phase I – Environmental Site Assessment (Phase I ESA) at 910 March Road in the City of Ottawa, Ontario. The purpose of this Phase I ESA was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject property.

Paterson was engaged to conduct this Phase I ESA at the request of Mr. Michael Foley of Wexcom Developments. Mr. Foley can be reached by telephone at 905-385-4514.

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

This Phase I ESA report has been prepared in general accordance with the requirements of Ontario Regulation 153/04, as amended, under the 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, as well as 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

Address: 910 March Road, Ottawa, Ontario

Legal Description: Part of Lots 11 and 12, Part 1 of Registered Pan

4R24361, March Concession 4, in the City of Ottawa.

Property Identification

Number (PIN): 04527-0840

Location: The Phase I Property is located on the east side of

March Road, approximately 86 m north of the Maxwell Bridge Road and March Road intersection, in the City of Ottawa, Ontario. For the purposes of this report, March Road is assumed to run in a north-south direction. The subject site is shown on Figure 1 – Key Plan, following the body of this report (Figures section).

Latitude and Longitude: 45° 21′ 35.47″ N, 75° 56′ 10.25″ W

**Site Description:** 

Configuration: Irregular

Site Area: 2.72 ha (approximate)

Zoning: DR – Development Reserve Zone designated on the

southern portion of the site.

RU – Rural Zone designated on the northern portion of the site of which Shirley's Brook and its tributary transects the north-eastern and northern portions of the Phase I Property in an approximate north-south direction, while its tributary runs in an approximate east-west direction, parallel to the northern property

boundary.

Current Use: The subject site is currently an uninhabited farmstead.

Services: The Phase I Property has private services (potable

wells and septic system) and will be provided with

municipal services upon redevelopment.



# 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 O.Reg. 153/04, as amended, 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 Study Area for this assessment. 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 the historical review and personal interview with the current landowner, the Phase I Property was first developed with a farmstead circa 1890. For the purpose of this Phase I ESA, the first developed use for the Phase I Property is assumed to have been residential and agricultural in 1890.

## **National Archives**

Fire insurance plans and city directories are not available for the Phase I Property and properties within the 250m Phase I Study Area.

## Chain of Title

Paterson did not request a Chain of Title for the subject site as it was determined that sufficient information was gathered from other sources, such as personal interviews and other historical records.

## Plan of Subdivision

A survey plan prepared by Stantec Geomatics Limited and dated July of 2017 was reviewed as a part of this assessment. The plan depicts the Phase I Property, in its current configuration. A copy of the survey plan is provided in Appendix 1.

# **Previous Engineering Reports**

Paterson has conducted environmental assessments for a neighbouring property to the north and the reconstruction of March Road in 2018. Based on a review of our files, no potential environmental concerns were identified within the 250m search radius with respect to the Phase I Property.

A Designated Substance Survey (DSS) was conducted at the subject site by Paterson in October 2019. Based on the report, asbestos-containing materials (ACMs) were identified in the residential structure.



It was recommend that prior to demolition all ACMs be removed according to the O.Reg 490/09 under the Occupational Health and Safety Act.

Paterson conducted a Geotechnical Investigation on the subject land, concurrently with the environmental investigation. Nine (9) boreholes were drilled on-site. The subsurface profile generally consisted of a layer topsoil underlain by a hard to stiff brown silty clay, which in turn, overlaid compact to dense glacial till and/or inferred bedrock. Practical auger refusal was encountered at all test hole locations at depths varying between 1.9 to 4.7 m below existing ground surface on inferred bedrock. No contamination or deleterious material was encountered during the subsurface investigation.

# 4.2 Environmental Source Information

#### **Environment Canada**

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on October 2, 2019. The Phase I Property and properties within the Phase I Study Area were not listed in the NPRI database.

# **PCB Inventory**

A search of national PCB waste storage sites was conducted. No PCB waste storage sites are located 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 Ontario Ministry of Natural Resources and Forestry (MNRF) website on October 3, 2019. No natural features or areas of natural significance were identified on the Phase I Property or within the 250m study area.

# Ontario Ministry of 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 issuing this report, a response had not been received from the MECP. A copy of the response will be forwarded to the client if it contains 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 issuing this report, a response had not been received from the MECP. A copy of the response will be forwarded to the client if it contains 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 Phase I Property. At the time of issuing this report, a response had not been received from the MECP. A copy of the response will be forwarded to the client if it contains any pertinent information.

# **MECP Waste Management Records**

A request was submitted to the MECP Freedom of Information office for information with respect to waste management records for the subject site. At the time of issuing this report, a response had not been received from the MECP. A copy of the response will be forwarded to the client if it contains any pertinent information.

# **MECP Coal Gasification Plant Inventory**

The Ontario Ministry of Environment, Conservation and Parks document titled "Municipal Coal Gasification Plant Site Inventory, 1991" was reviewed to reference the locations of former plants with respect to the site. The Phase I Property and properties within the 250m study area are not listed in this document.

# **MECP Brownfields Environmental Site Registry**

A search of the MECP Brownfields Environmental Site Registry was conducted as part of this assessment for the subject site, neighbouring properties, and the Phase I study area. No Records of Site Condition (RSCs) were filed for the Phase I Property or for any 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.

# Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on October 2, 2019, to inquire about current and former underground storage tanks, spills and incidents for the Phase I ESA Property and neighbouring properties. Based on the TSSA response, no records are listed in the TSSA registry for the Phase I ESA Property or the adjacent properties. A copy of the TSSA correspondence is included in Appendix 2.

# **City of Ottawa Landfill Document**

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

# City of Ottawa Historical Land Use Inventory (HLUI) Database

A request for information from the City's Historical Land Use Inventory (HLUI 2005) database for the subject property was sent to the City of Ottawa in October of 2019. At the time this report was issued, a response had not been received. Any pertinent information will be forwarded to the client upon receipt. A copy of the HLUI authorization form 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, commencing with the earliest available photograph. Based on the review, the following observations have been made:

The subject site is occupied by a farmstead. Surrounding lands are occupied by agricultural land with some farmsteads/residences.

The subject site and surrounding lands remain unchanged from the previous photograph.

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| 1955 | No significant changes are apparent on the subject site or neighbouring lands.   |  |  |
|------|--|--|--|
| 1976 | A residential dwelling (red roof) and barn-like structure can be seen in this photograph. No significant changes are apparent on the subject site and surrounding lands.   |  |  |
| 1989 | Several structures appear to be occupying the subject site at this time. No apparent changes have been made to neighbouring lands.   |  |  |
| 1991 | One of the barn-like structures situated on the central part of the site is no longer present. Some ground disturbance is visible at this time. New roadways can be seen to the east of Old Carp Road (Marchbrook Circle) and March Road (Klondike Road) at this time. |  |  |
| 2002 | The subject site remains unchanged from the previous photograph. Residences are present to the west and preparation of a new development is noted to the southwest. Lands to the north and east remain unchanged.  |  |  |
| 2011 | (City of Ottawa Website) No apparent changes are apparent on the subject site. A new residential and commercial development is present to the east and south, as well as a stormwater management pond. Maxwell Bridge Drive is present at this time.                   |  |  |
| 2017 | (City of Ottawa Website) No significant changes are apparent on the subject site or surrounding lands.   |  |  |

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 Phase I Property and regional topography slopes down in a southeast/south direction towards Shirley's Brook. An illustration of the referenced topographic map is presented on Figure 2 – Topographic Map, appended to this report.

# **Physiographic Maps**

The Ontario Geological Survey publication 'The Physiography of Southern Ontario, Third Edition' was reviewed as a part of this assessment. According to the publication and attached mapping, the site is situated within the Ottawa Valley Clay Plains physiographic region, described as "clay plains interrupted by ridges of rock



# **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 the information from NRCAN, bedrock in the area of the site consists primarily of interbedded sandstone and dolomite of the March Formation. Based on the maps, the thickness of overburden ranges from 5 to 10 m and consists of offshore marine sediments consisting of erosional terraces.

#### Water Well Records

A search of the MECPs website for all drilled well records within 250 m of the subject site was conducted on October 3, 2019. Based on the online mapping search results, two (2) potable well records were identified on the Phase I Property. The wells were drilled in 1973 and 2006 to an approximate depth of 27.4 m below the ground surface (mbgs). The water was clear and sediment free in both wells. According to these well logs, the site stratigraphy consisted of brown clay, extending to a depth of 1.82 m, underlain by interbedded limestone and sandstone bedrock.

Eighteen (18) well records were identified for properties within the Phase I Study Area, which consisted of twelve (12) domestic wells drilled between 1961 to 1984, and six (6) well abandonments from 2006 to 2007. No concerns were noted during the review of these records. Copies of the MECP well records are provided in Appendix 2.

# **Water Bodies and Areas of Natural Significance**

Shirley's Brook transects the northeastern portion of the Phase I Property in an approximate north-south direction, while its tributary runs in an approximate east-west direction, parallel to the northern property boundary and drains into Shirley's Brook. No other bodies of water are present on the Phase I Property or within the Phase I Study Area. No areas of natural significance are known to exist within the Phase I Study Area.

# 5.0 PERSONAL INTERVIEWS

Mr. Jim Maxwell, the current property owner was interviewed at the time of the site visit. Mr. Maxwell indicated that the Maxwell family has owned and operated the farm (cattle farm) for more than 100 years, which ceased operations in 2004. According to Mr. Maxwell, the residential dwelling was previously on fuel oil with an underground storage tank (UST) situated beside the exterior south wall of the



residence. The UST as well the oil-fired furnace was removed circa 1980. A wood burning stove and a propane fired furnace was used in replacement of the oil-fired furnace, which was later converted to natural gas in the early 2000s.

For the last 12 years, the site has been primarily used for residential purposes and storage of various farm equipment, tools and building materials from Mr. Maxwell's farm located in Perth, Ontario. The current residence has not been occupied since 2017 and is currently uninhabited. Mr. Maxwell has indicated that he is not aware of any potential environmental concerns on the subject land or neighbouring properties.

# 6.0 SITE RECONNAISSANCE

# 6.1 General Requirements

A site visit was conducted by Mr. Mark St. Pierre, from the Environmental Department of Paterson Group on October 3, 2019. Weather conditions were overcast with a temperature of approximately 8°C. In addition to the Phase I Property, the uses of neighbouring properties within the Phase I Study Area was also assessed at the time of the site visit.

# 6.2 Specific Observations at Phase I Property

# **Buildings and Structures**

The Phase I Property is occupied by seven (7) structures that include a residential dwelling and private shed, a small vacant cabin, and four (4) barn-like structures.

The residential dwelling is a 2-storey home with a basement level constructed with a stone and mortar foundation. The exterior is finished in stone and with a sloped red metal roof. An add-on front entrance structure was finished in vinyl siding. The residence is believed to have been built in the late 1890s. The cabin like structure is a single-storey slab-on-grade structure finished in wood siding with a sloped shingle roof. The cabin was constructed circa 1970s.

The northeastern and southern most barns are wood pier style barns, while the remaining are slab-on-grade barns finished in metal siding and metal roofs. The barns were constructed sometime between the late 1970s and 1980s.

A depiction of the subject site is presented on Drawing PE4760-1 – Site Plan, in the Figures section of this report.



# **Subsurface Utilities and Structures**

Historical subsurface structures including the UST and line associated with the heating oil furnace were situated on the south side of the residential dwelling.

Presently, the Phase I Property is serviced by a private well and septic system with above ground electricity service from March Road. Below ground natural gas services and underground electrical services are present on-site. The approximate locations of above and below ground services are shown on Drawing PE4760-1 – Site Plan.

# **Site Features**

The Phase I Property is situated in a designated floodplain overlying Shirley's Brook and its tributary, which transect the north-eastern and northern portions of the Phase I Property in an approximate north-south direction, while its tributary runs in an approximate east-west direction, parallel to the northern property boundary.

The site is grass-covered land with an asphaltic concrete paved driveway leading to the residential dwelling and attached garage, fronting March Road. Several semi-truck trailers, sheet metal, farm equipment and waste lumber were situated along-side the work and storage sheds.

The topography of the site is generally flat with a slight downward slope along the northern, eastern and southern property boundaries towards Shirley's Brook and its tributaries, present to the north and south. Site drainage occurs primarily through infiltration on grass-covered areas and/or surface runoff to the adjacent drainage ditches along March Road and/or into Shirley's Brook and its tributaries.

One potable water well was noted on the southwestern side of the residential dwelling, which was drilled in 2006. The domestic well drilled in 1973 was located on the west side of the small cabin.

An exterior drainage pipe was noted on the east side of the residence. The pipe drains groundwater from the interior sump pit. No signs of water, odour or stressed vegetation was noted at the time of the site visit.

An empty above ground storage tank (AST) was noted on the exterior south side of the barn, east of the residence, at the time of the site visit. No evidence of surficial staining or stressed vegetation was observed around or beneath the AST at the time of the site visit.



No hazardous materials or evidence of surficial staining were observed on the Phase I Property at the time of the site visits.

# **Interior Assessment**

A general description of the interior of the residential building is as follows:
 Floor materials consist of a combination of vinyl tiles, linoleum and poured concrete and gravel (basement).
 Wall materials consist of lathe and plaster, drywall and stone and mortar walls (basement).
 Ceiling materials consist of plaster and unfinished wood beams (basement).
 Lighting is provided by incandescent fixtures.

A designated substance survey (DSS) was recently conducted at the subject building. Reference should be made to the report for more details.

The dwelling is currently heated with natural gas-fired equipment, prior to which, fuel-oil was used. An above ground copper line that was partially parged over was observed in the basement. No evidence of surficial staining or odour was noted at the time of the visit. One sump pit was noted in the basement. No water or odour was noted at the time of the visit.

Three (3) empty ASTs were noted in the interior of the northeastern most barn at the time of the site visit. No evidence of surficial staining or unusual odour were observed around or beneath the AST sat the time of the site visit.

Motor oils were stored inside the workshop. No other chemicals were noted onsite at the time of the site visit. No potential concerns were noted with the chemical storage on the Phase I Property.

Waste is not currently generated on the Phase I Property.



# **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: | Residential and agricultural land  |
|--------|--|
| East:  | Shirley's Brook, residences and vacant land, followed by Windance Crescent |
| South: | MacDonalds, followed by Maxwell Bridge Road                                |
| West:  | March Road, followed by private clinic and residence.                      |

The current use of the neighbouring properties is not considered to pose an environmental concern to the subject site. There are no properties within the Phase I Study Area that are occupied by potentially contaminating activities (PCAs). Current land use in the Phase I Study Area is illustrated on Drawing PE4760-2 – Surrounding Land Use Plan in the Figures section of this report.



# 7.0 REVIEW AND EVALUATION OF INFORMATION

# 7.1 Land Use History

The following tables indicate the current and past uses of the site as well as associated potentially contaminating activities dating back to the first developed use of the site.

| Table 1: Land Use History – 910 March Road |   |  |   |   |
|--|---|--|---|---|
| Time Period                                | Name of Owner                           | Property Use                                     | Description of<br>Property Use  | Other Observations<br>from Aerial Photos,<br>FIPs, etc.   |
| Prior to 1890                              | Unknown                                 | Residential and<br>Agricultural                  | Phase I Property was<br>reportedly developed<br>as a farmstead in the<br>late 1800's.   | First developed use based on personal interview.  |
| 1890 to 2007                               | Private individuals<br>(Maxwell Family) | Residential and<br>Agricultural                  | Farmstead: residential dwelling and cattle farm   | Existing farmstead can<br>be seen in 1934 aerial<br>(earliest aerial available<br>for review). No<br>significant change in<br>land use noted in<br>subsequent 1952, 1976,<br>1989 and 2007 aerials. |
| 2007 to 2017 Maxwell Family Residential    |   | Residential and storing tools and farm equipment | Based on an interview with the current property owner. Lack of activity on the Phase I Property can be seen in 2011 and 2017 aerial photos. |   |
| 2017 to<br>present                         | Maxwell Family                          | Residential                                      | Unoccupied or uninhabited   | Based on an interview the Phase I Property is current unoccupied.   |

# **Potentially Contaminating Activities**

The following PCAs, as per Table 2, O.Reg. 153/04, as amended, were identified on the Phase I Property:

| PCA 1: Item 28, "Gasoline and Associated Products Storage in Fixed Tanks"                           |
|---|
| - this PCA was identified based on the presence of a former underground                             |
| storage tank situated on the southwest side of the residential dwelling on<br>the Phase I Property. |
| and a made an appears,  |

PCA 2: Item 28, "Gasoline and Associated Products Storage in Fixed Tanks"
 this PCA was identified based on the presence of an empty above ground



storage tank situated on the west side of the storage shed located east of the residential dwelling on the Phase I Property.

PCA 3: Item 28, "Gasoline and Associated Products Storage in Fixed Tanks"
 this PCA was identified based on the presence of three (3) empty above ground storage tanks situated inside the northeastern storage shed on the Phase I Property.

The rationale for identifying the PCAs is based on the site visit and an interview with the current owner of the Phase I Property.

The locations of PCAs within the Phase I Study Area are shown on Drawing PE4760-2 –Surrounding Land Use Plan.

# **Areas of Potential Environmental Concern**

A summary of the PCAs that represent APECs on the Phase I Property are presented in Table 2.

| Table 2: Areas of Potential Environmental Concern    |   |   |  |  |  |
|--|---|---|--|--|--|
| Area of Potential<br>Environmental<br>Concern (APEC) | Location of<br>APEC on<br>Phase I<br>Property         | Potentially<br>Contaminating<br>Activity (PCA)                  | Location<br>of PCA<br>(on-site or<br>off-site) | Contaminants<br>of Potential<br>Concern        | Media<br>Potentially<br>Impacted (Soil<br>and/or<br>Groundwater) |
| APEC 1: Presence of a former UST                     | Central west<br>portion of the<br>Phase I<br>Property | Item 28: Gasoline and associated product storage in fixed tanks | On-site  | BTEX, PHC (F <sub>1</sub> -F <sub>4</sub> )    | Soil and<br>Groundwater  |
| APEC 2:<br>Presence of an<br>empty AST               | Central portion<br>of the Phase I<br>Property         | Item 28: Gasoline and associated product storage in fixed tanks | On-site  | BTEX, PHC (F <sub>1</sub> -F <sub>4</sub> )    | Soil and<br>Groundwater  |
| APEC 3:<br>Presence of three<br>(3) ASTs             | Central east<br>portion of the<br>Phase I<br>Property | Item 28: Gasoline and associated product storage in fixed tanks | On-site  | BTEX, PHC<br>(F <sub>1</sub> -F <sub>4</sub> ) | Soil and<br>Groundwater  |

The locations of the APECs on the Phase I Property are depicted in Drawing PE4760-1 – Site Plan.

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# **Contaminants of Potential Concern (CPCs)**

Based on the APECs identified on the Phase I Property, the contaminants of potential concern (CPCs) in the soil and groundwater include benzene, ethylbenzene, toluene and xylenes (BTEX), and petroleum hydrocarbons (PHCs, Fractions  $F_1$ - $F_4$ ).

# 7.2 Conceptual Site Model

# Geological and Hydrogeological Setting

Based on our geotechnical investigation, the profile generally encountered on the Phase I Property consisted of a layer topsoil underlain by a hard to stiff brown silty clay, followed by a compact to dense glacial till and/or inferred bedrock at depths varying between 1.9 and 4.7 mbgs.

According to the Geological Survey of Canada website, the bedrock in the area of the site consists of interbedded sandstone and dolomite of the March Formation. Overburden soils are reported to consist of offshore marine sediments with erosional terraces or bedrock, with drift thicknesses between 5 and 10m.

The regional topography slopes down in a southeasterly direction. The local groundwater flow beneath the Phase I Property is inferred to be in a south-easterly direction towards Shirley's Brook.

# **Buildings and Structures**

The Phase I Property is occupied by seven (7) structures that include a residential dwelling and private shed, a small vacant cabin, and four (4) barn-like structures. The residential dwelling is currently uninhabited. The workshop is used intermittently by the current landowner.

#### Subsurface Structures and Utilities

Presently the Phase I Property is serviced by a private well and septic system with above ground electricity service from March Road. Underground natural gas and electrical services are present on-site.

The presence of underground electrical and natural gas lines is not considered to have an affect on contaminant distribution or transport.



# **Water Bodies**

Shirley's Brook transects the northeastern portion of the Phase I Property in an approximate north-south direction and is considered to flow in a southerly direction while its tributary runs in an approximate east-west direction, parallel to the northern property boundary and drains into Shirley's Brook. No other water bodies are present on the Phase I Property or within the Phase I Study Area.

# **Areas of Natural Significance**

No areas of natural significance are known to exist within the Phase I Study Area.

# **Potable Water Wells**

Based on the MECP well mapping website, two (2) well records were identified on Phase I Property for potable wells that were drilled in 1973 and 2006 to an approximate depth of 27.43 m below the ground surface (mbgs). The water was clear and sediment free.

During the site visit, two (2) domestic wells were located. One well was located on the west side of the residential dwelling (stone house), while the other was located next to the small residential unit/cabin located north of the residential dwelling. Several domestic well records were identified on properties within the Phase I Study Area. Properties to the north and west within the Phase I Study Area currently rely on potable water wells for drinking water.

# **Monitoring Wells**

The MECP well mapping did not identify any monitoring well records for the Phase I Property or for any properties within the Phase I Study Area.

# **Neighbouring Land Use**

Neighbouring land use in the Phase I Study Area is primarily residential and agricultural. Commercial land use is present on the neighbouring properties to the south. Land use is shown on Drawing PE4760-2 - Surrounding Land Use Plan.

# Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of this report, presented in Table 2, the on-site PCAs include the former presence of a UST and presence of empty ASTs resulted in APECs on the Phase I Property



# **Contaminants of Potential Concern**

As per Section 7.1 of this report, the CPCs in the soil and groundwater on the Phase I Property include the following benzene, ethylbenzene, toluene and xylenes (BTEX) and petroleum hydrocarbons (PHCs, Fractions F<sub>1</sub>-F<sub>4</sub>).

# 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 potentially contaminating activities (PCAs) on-site, which have resulted in areas of potential environmental concern (APECs) on the Phase I Property. The presence of PCAs was confirmed by a variety of independent sources, including, observations made during the site visit and a personal interview. 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

Paterson Group was retained by Wexcom Developments (March Road) Ltd. to conduct a Phase I – Environmental Site Assessment (Phase I ESA) at 910 March 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 and Phase I Study Area and to identify any environmental concerns with the potential to have impacted the subject land.

According to the historical research, the Phase I Property was initially developed with a residence and farmstead circa 1890. The subject land remained as agricultural land (cattle farm) until 2014, at which time it was used for residential purposes only. No potentially contaminating activities (PCAs) were identified with the historical use of the Phase I Property.

Based on historical records, neighbouring lands were also occupied by residences and farmsteads. No PCAs were identified with the historical use of properties within the Phase I Study Area.

Following the historical research, a site visit was conducted. The subject land is occupied by multiple structures consisting of storage barns, maintenance and tool storage sheds, a single-storey cabin and a two-storey residential structure with a basement level. The current property owner was present at the time of the assessment and indicated that a former underground storage tank (UST) was situated on the south side of the residence. The former UST represents is a PCA that represents an area of potential environmental concern (APEC) on the Phase I Property.

Additionally, three (3) empty aboveground storage tanks (ASTs) were noted in the interior of the northeastern storage shed, as well as an AST along the exterior west wall of another storage shed, located between the residence and the northwestern shed. The ASTs on-site were considered PCAs that represent APECs on the Phase I Property.

Neighbouring lands in the Phase I Study Area consist of residential, vacant lands and commercial businesses located to the south. No PCAs were identified with the current use of the lands within the Phase I Study Area.

Based on the results of the Phase I ESA, it is our opinion that a Phase II Environmental Site Assessment is required for the subject property.



# Recommendations

If the domestic wells currently on-site are not going to be used in the future, or will be destroyed during site redevelopment, they should be abandoned according to Ontario Regulation 903.



# 9.0 STATEMENT OF LIMITATIONS

This Phase I – Environmental Site Assessment report has been prepared in general accordance with O.Reg. 153/04, as amended, 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 as well as 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 Wexcom Developments (March Road) Limited. Permission and notification from Wexcom Developments (March Road) Ltd. 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., QPESA

# M.S. D'ARCY BOUNDER OF ONTRO

# **Report Distribution:**

- ☐ Wexcom Developments (March Road) Limited
- 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 mapping).

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.

MECP Water Well Inventory.

Office of Technical Standards and Safety Authority, Fuels Safety Branch.

Ministry of Natural Resources and Forestry: Areas of Natural Significance.

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 eMap website.

# **Local Information Sources**

Previous Engineering Reports.

Plan of Survey prepared by J.D. Barnes Limited and dated February 2019.

# **Public Information Sources**

Google Earth.

Google Maps/Street View.

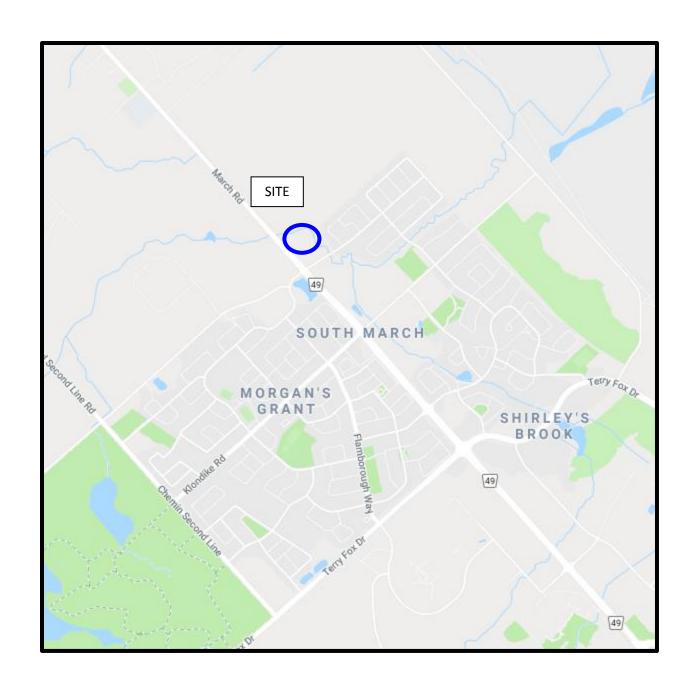
# **FIGURES**

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

**DRAWING PE4760-1 - SITE PLAN** 

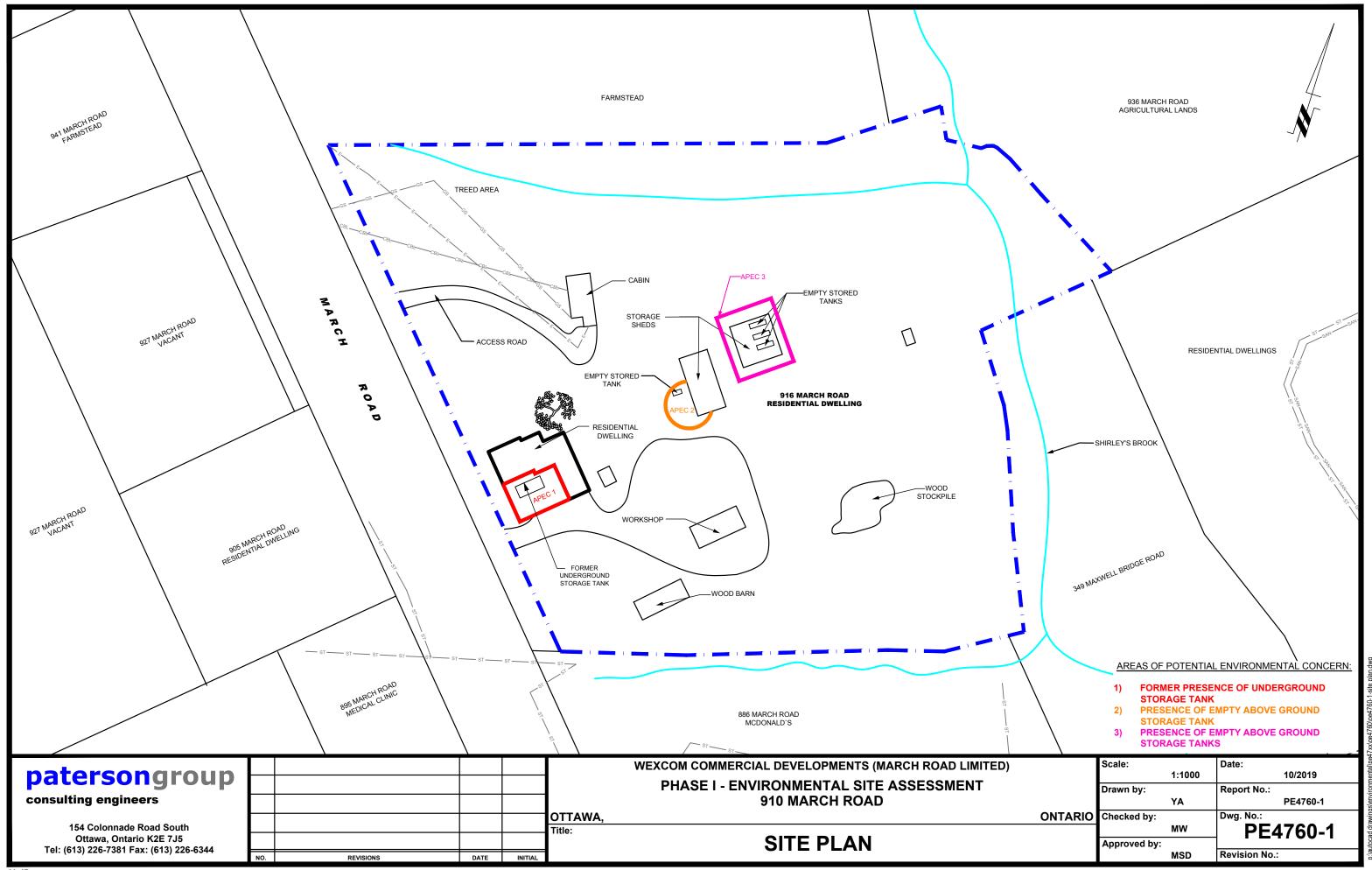
DRAWING PE4760-2 - SURROUNDING LAND USE PLAN

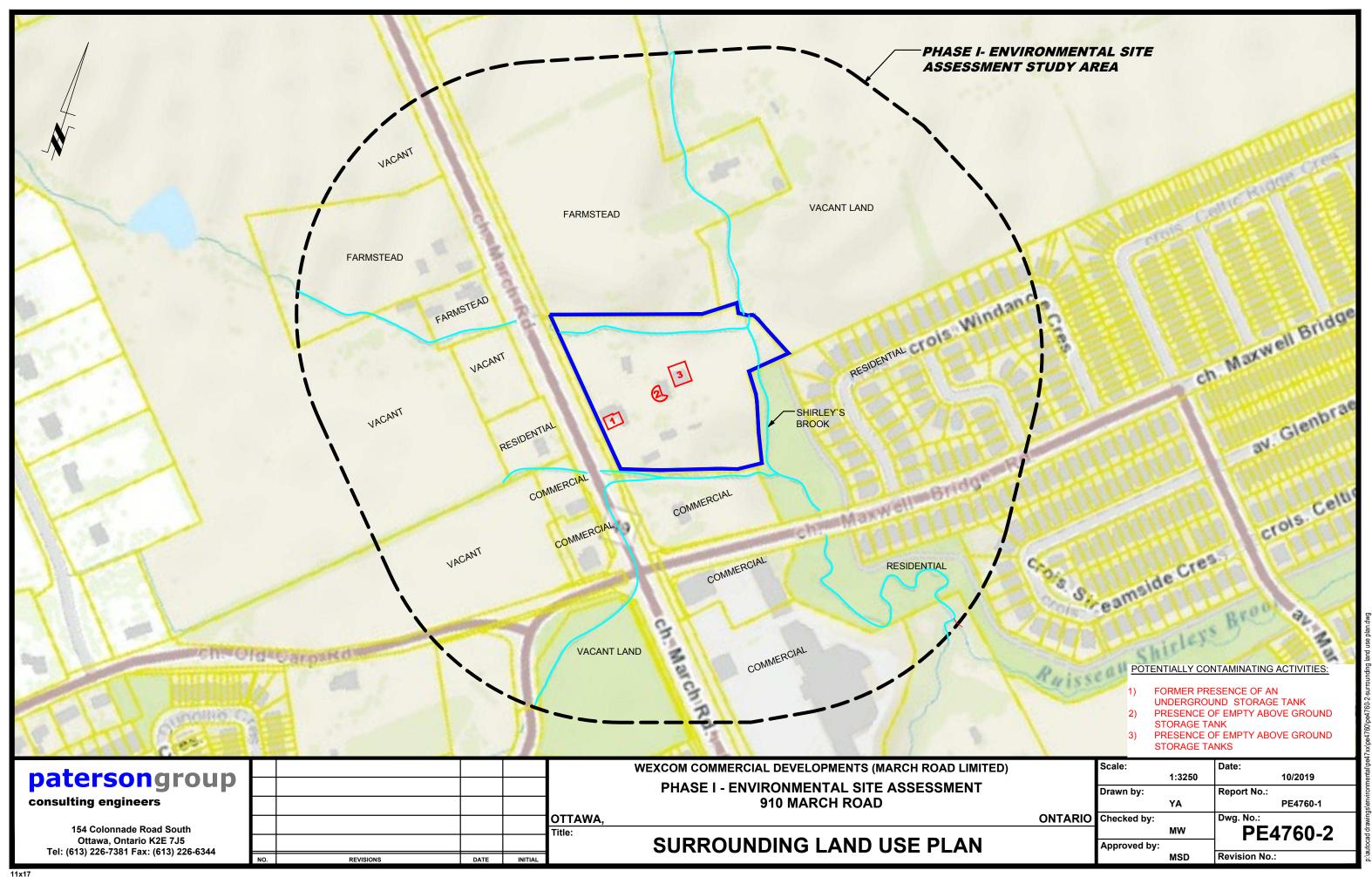


# FIGURE 1 KEY PLAN



# FIGURE 2 TOPOGRAPHIC MAP



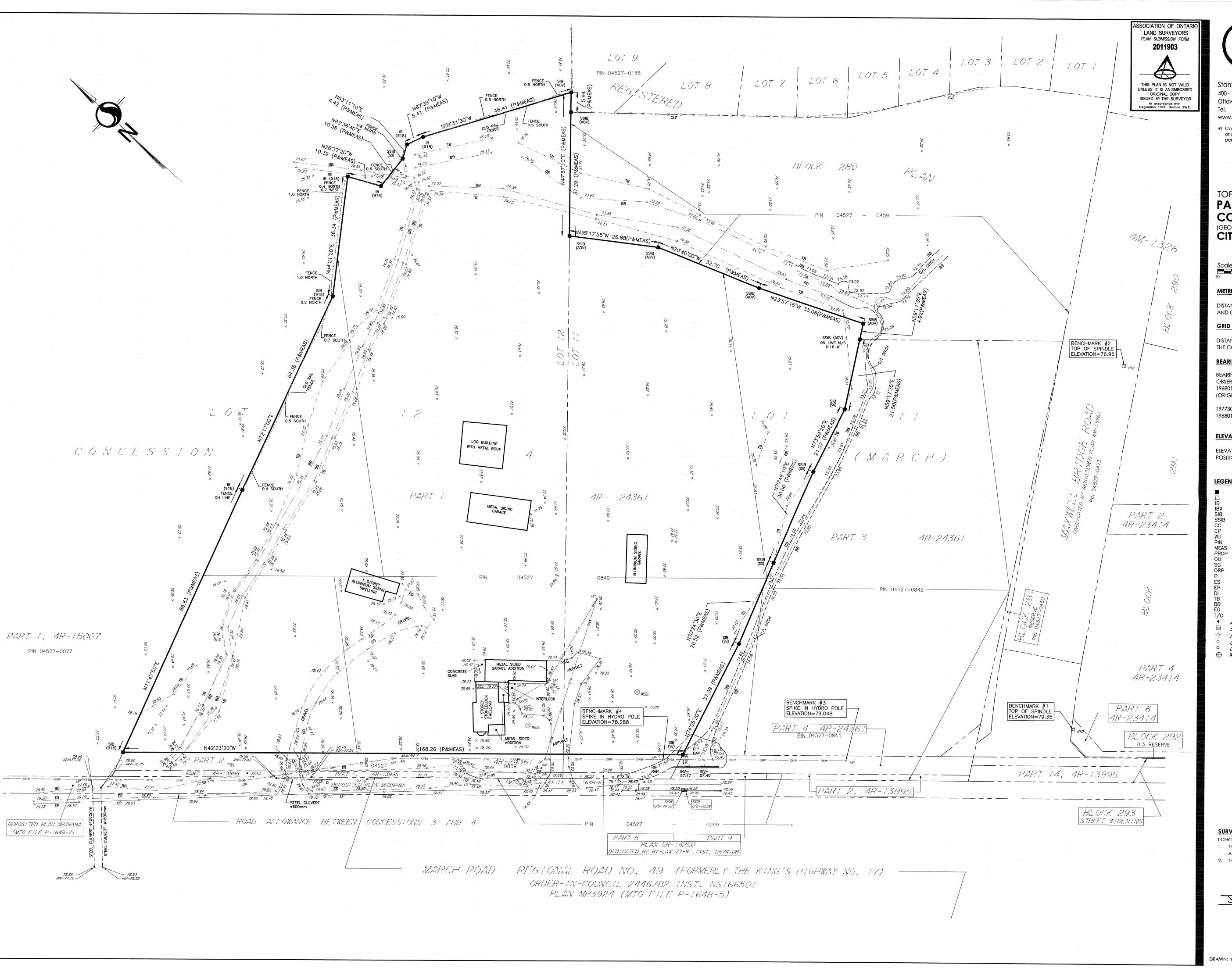


# **APPENDIX 1**

SURVEY PLAN

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS





Stantec Geomatics Ltd. 400 - 1331 Clyde Avenue Ottawa ON

Tel. 613.722.4420 www.stantec.com

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TOPOGRAPHIC PLAN OF SURVEY **PART OF LOTS 11 & 12 CONCESSION 4** CITY OF OTTAWA

# METRIC CONVERSION

DISTANCES AND COORDINATES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

# GRID SCALE CONVERSION

DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.99994.

BEARINGS ARE GRID, DERIVED FROM CAN-NET VRS NETWORK GPS OBSERVATIONS ON NCC HORIZONTAL CONTROL MONUMENTS 19773035 AND 19680191, CENTRAL MERIDIAN, 76° 30' WEST LONGITUDE MTM ZONE 9, NAD83

19773035 N:5006060.42 E:324888.04 19680191 N:5033564.26 E:388064.94

# **ELEVATION NOTE**

ELEVATIONS ARE GEODETIC BASED ON A SURVEY BY AOV DATED JULY 10, 2015. POSITION OF SITE BENCHMARKS #1 AND #2 AS SHOWN HEREON.

|              |      | DENOTES  | FOUND MONUMENTS                       |
|--------------|------|----------|---------------------------------------|
|              |      | u u      | SET MONUMENTS                         |
| IB.          |      | 11       | IRON BAR                              |
| IBØ.         |      |          | ROUND IRON BAR                        |
| SIB          |      |          | STANDARD IRON BAR                     |
| SSIB         |      | n"       | SHORT STANDARD IRON BAR               |
| CC.          |      | n        | CUT CROSS                             |
| CP :         |      | n        | CONCRETE PIN                          |
| WIT          |      | B        | WITNESS                               |
| PIN          |      | i i      | PROPERTY IDENTIFICATION NUMBER        |
| MEAS         |      | ii i     | MEASURED                              |
| PROP         |      | н        | PROPORTIONED                          |
| OU           |      | n i      | ORIGIN UNKNOWN                        |
| SG           |      | n .      | STANTEC GEOMATICS LTD.                |
| ORP          |      | in .     | OBSERVED REFERENCE POINT              |
| Р            |      | <b>"</b> | PLAN 4R-24361                         |
| ES           |      | II .     | EDGE OF SHOULDER                      |
| EP           |      | u        | EDGE OF ASPHALT                       |
| DI           |      | н        | DITCH                                 |
| TB           |      | n,       | TOP OF BANK                           |
| BB           |      | · ·      | BOTTOM OF BANK                        |
| EG           |      | и        | EDGE OF GRAVEL                        |
| T/G          |      | 11       | TOP OF GRATE                          |
| <b>4</b>     | AN   | 0        | ANCHOR                                |
|              |      |          |                                       |
| <del>-</del> | SICB |          | SIDE INLET CB                         |
|              | HYD  |          | FIRE HYDRANT                          |
| 0            | UP   | В        | UTILITY POLE                          |
| 0            | LS   | <b>n</b> | LIGHT STANDARD                        |
| $\oplus$     | WELL | n        | WELL                                  |
| ~            |      |          | · · · · · · · · · · · · · · · · · · · |

# SURVEYOR'S CERTIFICATE

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.

2. THE SURVEY WAS COMPLETED ON THE 27th DAY OF JUNE, 2017.

July 10/17

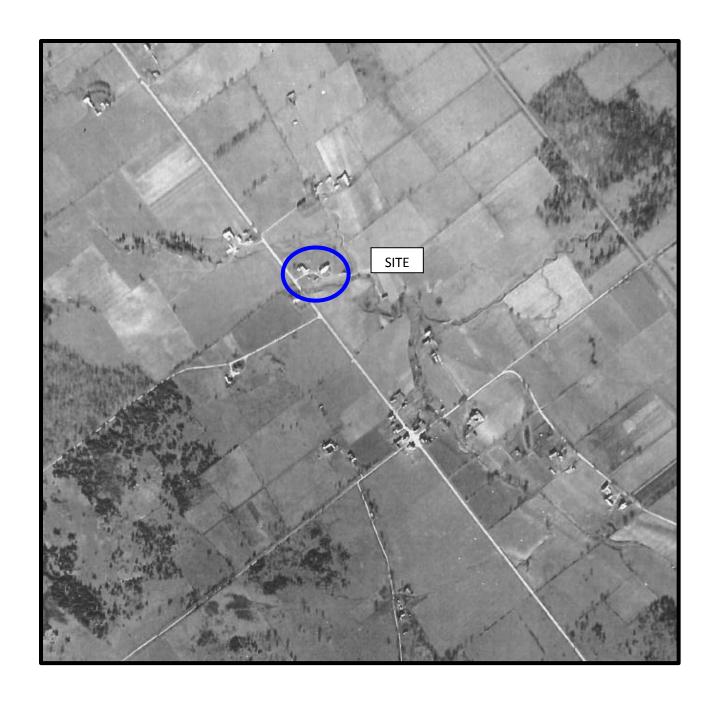


DRAWN: CEC CHECKED: \* PM: BW FIELD: CA PROJECT No.: 161613685-111



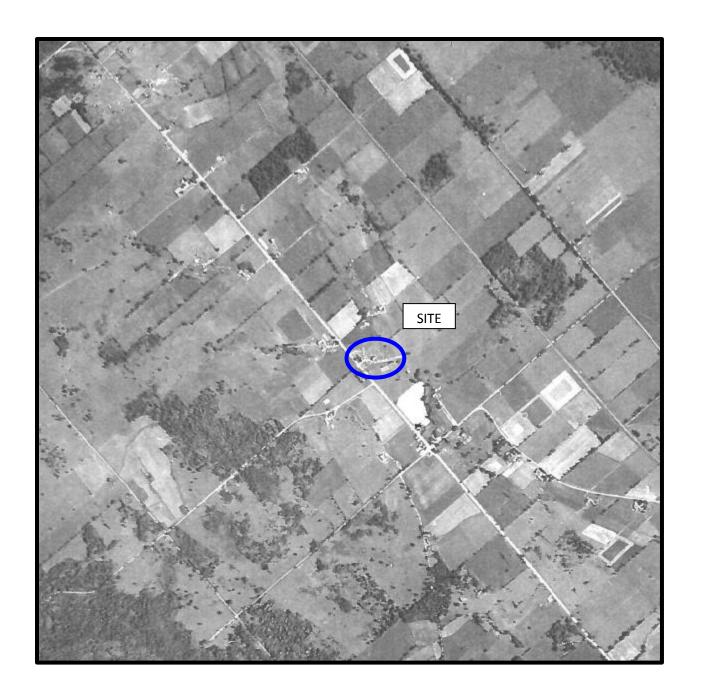
AERIAL PHOTOGRAPH 1934

patersongroup \_\_\_\_\_



AERIAL PHOTOGRAPH 1945

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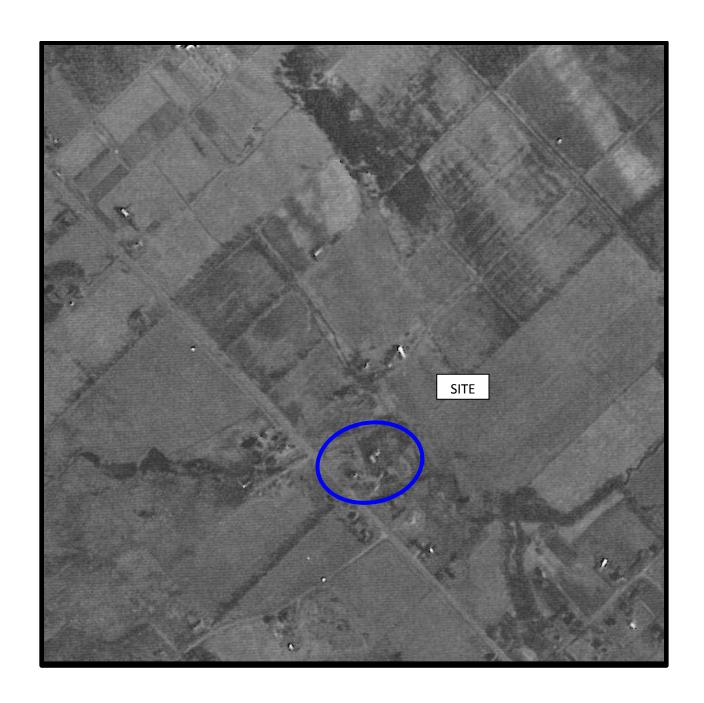


AERIAL PHOTOGRAPH 1955

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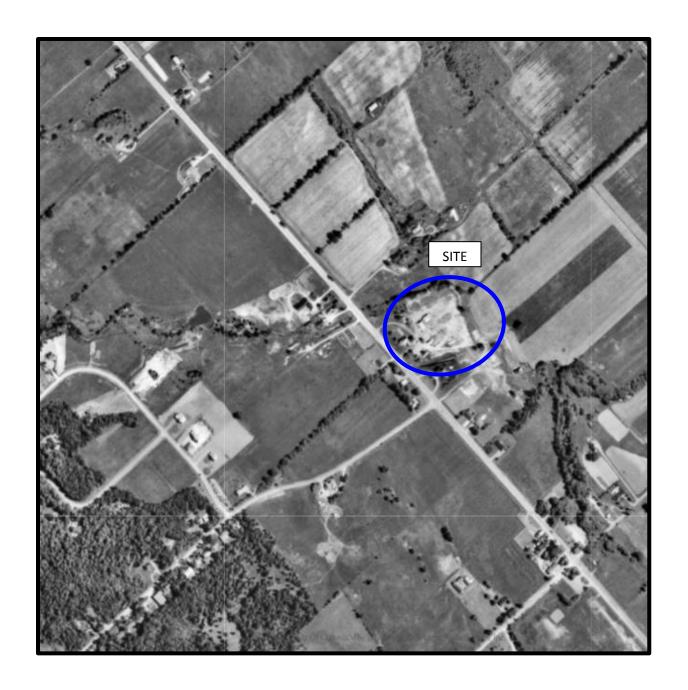


AERIAL PHOTOGRAPH 1976



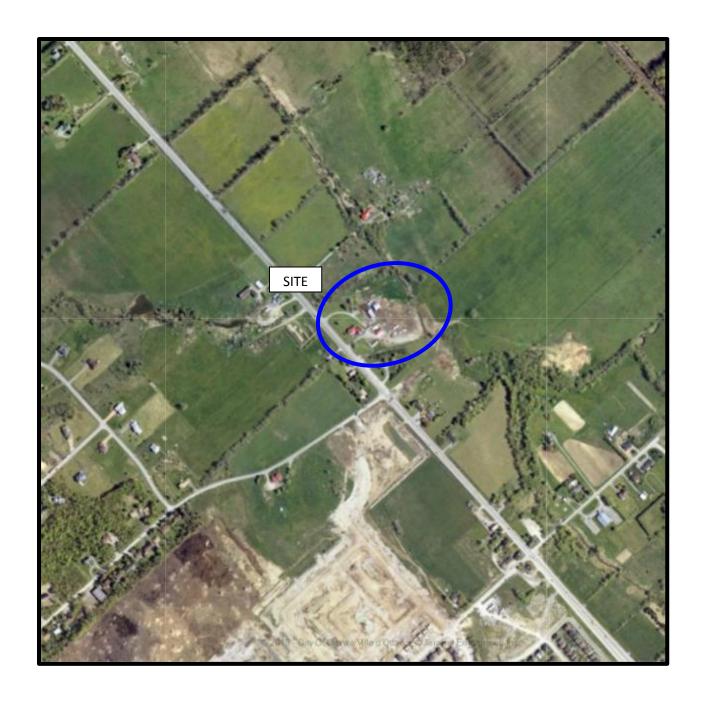
AERIAL PHOTOGRAPH 1989

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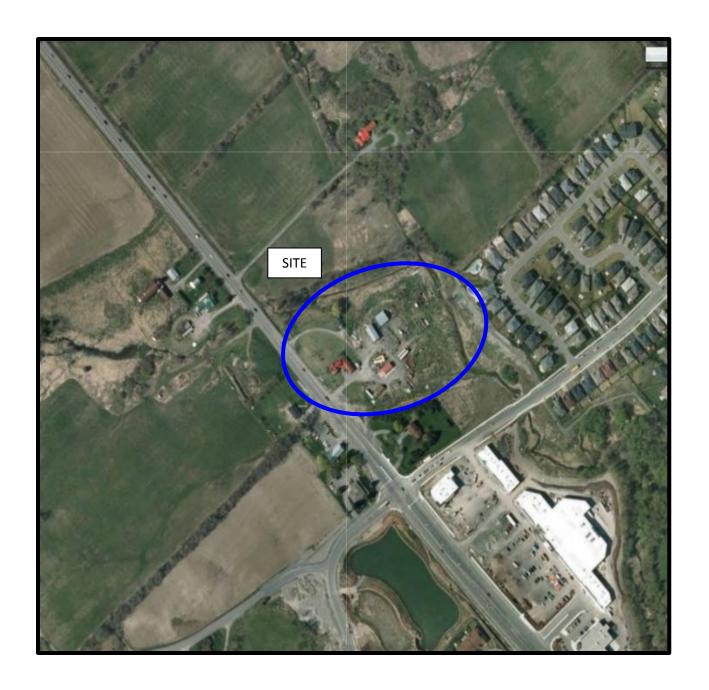
AERIAL PHOTOGRAPH 1991

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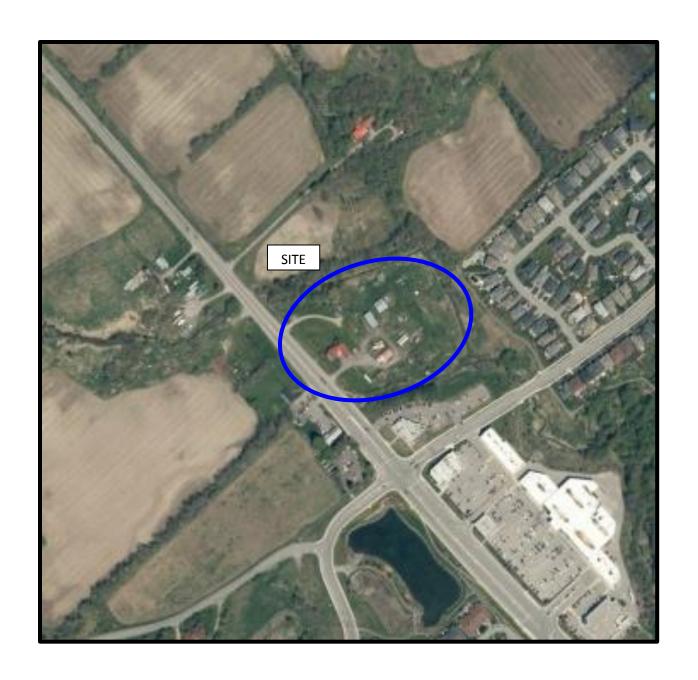
AERIAL PHOTOGRAPH 2002

patersongroup -



AERIAL PHOTOGRAPH 2011

patersongroup \_\_\_\_



AERIAL PHOTOGRAPH 2017



Photograph 1: South west view of the subject site, looking onto March Road.



Photograph 2: Southeastern view of the subject site, taken from the west side of the property.



Photograph 3: View of the attached garage (part of the residential dwelling), looking northeast.



Photograph 4: West view of the site/garage, looking towards March Road.



Photograph 5: View of the residential dwelling, looking north.



Photograph 6: Northwestern view of the subject site.



Photograph 7: Eastern view of the subject site, taken from the north side of the residential dwelling.



Photograph 8: Northeastern view of the subject site and vacant wood cabin.



Photograph 9: Northern view of the subject site, taken from the north side of the residential dwelling.



Photograph 10: Southeastern view of the subject site, taken from the south side of the cabin.

# **APPENDIX 2**

MECP FREEDOM OF INFORMATION SEARCH REQUEST

MECP WATER WELL RECORDS

CITY OF OTTAWA HLUI SEARCH

TSSA CORRESPONDENCE



### Freedom of Information Request

This form is for requesting documents which are in the Ministry's files on environmental concerns related to properties. Please refer to the guide on completion and use of this form. Our fax no. is (416) 314-4285.

|   | Requester Data                |   | For Ministry Use Only                 |   |  |  |  |  |
|---|-------------------------------|---|---------------------------------------|---|--|--|--|--|
| Name, Company Name, Mailing Address and   | Email Address of Requester    |   | FOI Request No.                       | Date Request Received   |  |  |  |  |
| Mandy Witteman  |                               |   | 1 Of Request No.                      |   |  |  |  |  |
| Paterson Group Inc.<br>154 Colonnade Road   |                               |   | Fee Paid                              |   |  |  |  |  |
| Ottawa, ON K2E 7J5  |                               |   |                                       | VISA/MC   CASH  |  |  |  |  |
| Email address: mwitteman@   | patersongroup.ca              | di .  | - ACCI - CIIQ -                       | VISAVVIC LI CASET   |  |  |  |  |
| Telephone/Fax Nos.  | Your Project/Reference No.    | Signature/Print /Name of Requester  | - OND                                 |   |  |  |  |  |
| Tel. 613-226-7381   | PE4760                        | Mandy Witternan   | □ CNR □ ER □ NC<br>  □ SAC □ IEB □ EA |   |  |  |  |  |
| Fax 613-226-6344  |                               | Tella   |                                       | A DEWIN DOTA  |  |  |  |  |
|   |                               | Request Parameters  | S                                     | 10.2  |  |  |  |  |
|   |                               | address essential for cities, towns or regio                              | nts                                   |   |  |  |  |  |
| 910 March Rd, Ottan   | 1a.0N-                        |   |                                       |   |  |  |  |  |
| Present Property Owner(s) and Date(s) of Own  | nership                       |   |                                       |   |  |  |  |  |
| Wexford Commercial Develo   | opments Ltd.                  |   |                                       |   |  |  |  |  |
| Previous Property Owner(s) and Date(s) of Ow  | mership                       |   |                                       |   |  |  |  |  |
| Present/Previous Tenant(s).(# applicable)   |                               |   | 780                                   |   |  |  |  |  |
| Files older than 2 years may require  |                               | rch Parameters<br>ere is no guarantee that records responsive             | to your request will be located.      | Specify Year(s) Requested   |  |  |  |  |
| Environmental concerns (Ge  | eneral correspondenc          | e, occurrence reports, abatement)   |                                       | alí   |  |  |  |  |
| Orders  |                               |   |                                       | all   |  |  |  |  |
| Spills  |                               |   |                                       | all   |  |  |  |  |
| Investigations/prosecutions   | ➤ Owner AND tena              | nt information must be provided   |                                       | all   |  |  |  |  |
| Waste Generator number/cla  | asses                         |   |                                       | all   |  |  |  |  |
|   | Certificates                  | s of Approval > Proponent inform  | mation must be provided               |   |  |  |  |  |
| 1985 and prior records are sear<br>Certificates of Approval number  | ched manually. Search         | n fees in excess of \$300.00 could be orting documents are also required, | incurred, depending on the types      | and years to be searched. Specify e.g. maps, plans, reports, etc. |  |  |  |  |
|   |                               | V-14-,-5-,  | SD                                    | Specify Year(s) Requested   |  |  |  |  |
| air - emissions   |                               |   |                                       | 1986-present  |  |  |  |  |
| Water - mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)  1986-present |                               |   |                                       |   |  |  |  |  |
| sewage - sanitary, storm, treatmen  | nt, stormwater, leachate &    | leachale trealment & sewage pump station                                  | s                                     | 1986-present  |  |  |  |  |
| waste water - industrial discharge  | es                            |   |                                       | 1986-present  |  |  |  |  |
| waste sites - disposal, landfill site   | es, transfer stations, proces | ssing sites, incinerator sites  |                                       | 1986-present  |  |  |  |  |
| waste systems - PCB destruction   | on, mobile waste processin    | g units, haulers: sewage, non-hazardous d                                 | & hazardous waste                     | 1986-present  |  |  |  |  |
| pesticides - licenses   | tion for novelle to           |   | 18                                    | 1986-present  |  |  |  |  |

A \$5.00 non-refundable application fee, payable to the Minister of Finance, is mandatory. The cost of locating on-site and/or preparing any record is \$30.00/hour and 20 cents/page for photocopying and you will be contacted for approval for fees in excess of \$30.00.

### MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act

3-16-150

FORM 7

07-09

WELL RECOR 1514785 15006 CØN 2. CHECK 🗵 CORRECT BOX WHERE APPL Carleton Max c LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS) GENERAL COLOUR MOST COMMON MATERIAL DEPTH - FEET GENERAL DESCRIPTION Brown 17-1 0 Sand Strie 90 QS 002560585 0090218173 WATER RECORD 51 **CASING & OPEN HOLE RECORD** SCREEN KIND OF WATER WALL THICKNESS INCHES MATERIAL AND TYPE 1 FRESH 2 SALT SULPHUR 4 | MINERAL GALVANIZED
GONCRETE
GREN HOLE .188 FRESH 3 SULPHUR
CONTROL
CONTRO 61 **PLUGGING & SEALING RECORD** STEEL DEPTH SET AT - FEET 1 FRESH 3 SULPHUR
2 SALTY 4 MINERAL 1 GALVANIZED CONCRETE 1 FRESH 3 SULPHUR
2 SALTY 4 MINERAL 1 STEEL 2 2 GALVANIZED 1 | FRESH 3 | SULPHUR
2 | SALTY 4 | MINERAL 3 CONCRETE 30-33 80 DIRATION OF PUMPING

15-16

O O17-18

HOURS LOCATION OF WELL 2 | BAILER WATER LEVEL END OF PUMPING IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW. 1 PUMPING 2 D RECOVERY PUMPING RECOMMENDED 43-45
PUMP
SETTING FEET
GPM./FT. SPECIFIC CAPACITY DEEP WATER SUPPLY 5 ABANDONED, INSUFFICIENT SUPPLY FINAL OBSERVATION WELL & ABANDONED, POOR QUALITY **STATUS** 3 | TEST HOLE
4 | RECHARGE WELL 7 🗆 UNFINISHED OF WELL DOMESTIC 5 COMMERCIAL 2 STOCK
3 RRIGATION 6 | MUNICIPAL
7 | PUBLIC SUPPLY **WATER** USE D 4 | INDUSTRIAL 8 COOLING OR AIR CONDITIONING 9 NOT USED OTHER 1 CABLE TOOL
2 ROTARY (CONVENTIONAL) METHOD Z 6 🖺 BORING 7 DIAMOND 3 | ROTARY (REVERSE)
4 | ROTARY (AIR)
5 | AIR PERCUSSION OF 8 | JETTING DRILLING 9 DRIVING ONLY CONTRACTOR () Hear USE ( OFFICE WI

| <b>⊗</b> Or  | ntario  | Ministry of the Enviro                                   |  | g Number (Pla                                    | ace sticker and pri          | -                                      |                        | Regulation 903                          | 3 Ontari                |                    |                     | ecord                  |
|--|---|--|--|--|------------------------------|--|------------------------|---|-------------------------|--------------------|---------------------|------------------------|
|  |   |  |  | A035395  | ~ ~~                         | <b>~</b>                               | "                      | gaianon 300                             | Julail                  |                    |                     | of                     |
| <ul><li>For use</li><li>All Section</li><li>Question</li><li>All metro</li></ul> | ons <b>must</b> be co<br>as regarding cor             | of Ontario<br>mpleted in<br>npleting thi<br>its shall be | o only. This docum<br>full to avoid delays<br>s application can le<br>reported to 1/10 | ent is a pern<br>s in processi<br>se directed to | ng. Further i<br>o the Water | nstructions an                         | d explar               | nations are ava                         | ailable o<br>416-23     | ence.<br>on the ba | ck of               |                        |
|  | · · · · · · · · · · · · · · · · · · ·                 |  | ation of Well Info   | ormation   | MUN                          | C                                      | ON                     |   |                         | I                  | LOT                 |                        |
| (  |   |  |  |  |                              |  |                        |   |                         |                    |                     |                        |
| Ottawa Car<br>RR#/Street Nu  |   |  |  |  | LKanat<br>City/Town/Vi       |  |                        | Site/Compa                              | 12<br>ertment/l         | Block/Tra          | ct etc              | 4                      |
| 910 March<br>GPS Reading   | Road  | ne Eastir  | na Nort  | hing   | Kanat<br>Unit Make/M         | a                                      | e of Oper              |   | ifferentiate            |                    | Avera               |                        |
|  | 8 3 18  | 3 42   |  | 2 33 16  | Garmin                       |  | or Oper                |   | erentiated,             | 1                  | Avera               |                        |
| General Colour   | Most commor   |  | Other Ma   |  | -                            | Genera                                 | al Descrip             | otion                                   |                         | Dept               |                     | Metres                 |
| Brown  | Clay  |  |  |  |                              | Pac                                    | ked                    |   |                         | From               | О                   | 1.82                   |
| Gray   |   | estone   |  |  |                              | Har                                    |                        |   |                         | 1.8                | 1                   | 12.19                  |
| Gray & Wh  | ite Sand  | Istone   |  |  |                              | Har                                    | d                      |   |                         | 12.                | 19                  | 27.43                  |
|  |   |  |  |  |                              |  |                        |   | <del></del>             |                    |                     |                        |
| : .  |   |  |  |  |                              |  |                        |   |                         |                    |                     |                        |
|  |   |  |  |  |                              |  | •                      |   |                         |                    |                     |                        |
| · · · · · · · · · · · · · · · · · · ·  |   |  |  |  |                              |  |                        |   |                         |                    |                     |                        |
|  | Diameter  |  | Cons   | truction Rec                                     | ord                          |  |                        |   | t of We                 |                    |                     |                        |
|  | etres Diameter To Centimetres                         | 1 1 4.4  | Material   | Wall<br>thickness                                | Depth                        | Metres                                 |                        | ng test method                          | Time Wa                 |                    | Time                | ecovery<br>Water Level |
| 0  | 7.31 22.75  | centimetres  |  | centimetres                                      | From                         | То                                     | Pump                   | mersible<br>intake set at -<br>s) 21.33 | Static                  | Metres             | min                 | Metres                 |
| 7.31 2   | 7.43 15.23  | 15.86  | Steel Fibreglass   | .48  | + .45                        | 10.36                                  | Pumpii                 | ng rate -<br>min) <b>54.6</b>           |                         | .36                | 1                   | 6.20                   |
|  | Record  |  | Plastic Concrete Galvanized  |  |                              |  | Duratio                | n of pumping                            | 2 6                     | .40                | 2                   | 6.19                   |
| Water found at Metres /  | ✓ Kind of Water  Fresh Sulphur                        |  | Steel Fibreglass   |  |                              |  | l l <del>en la c</del> | nrs +_30_ min<br>vater levelvend        |                         | .44                | 3                   | 6.19                   |
| Gas  | Salty Minerals  |  | Plastic Concrete Galvanized  |  |                              |  |                        | ping 6 metres                           |                         | .45                | 4                   | 6.18                   |
| m  | tested Fresh Sulphur                                  | •  | Steel Fibreglass Plastic Concrete  |  |                              |  | type.                  | Shallow TDeep                           |                         |                    |                     |                        |
| Gas Cher:  | Salty Minerals  |  | Galvanized   |  |                              |  | depth.                 | 1 <u>5.23</u> netres                    |                         | .47                | 5                   | 6.18                   |
|  | Fresh Sulphur Salty Minerals                          | Outside  | Steel Fibreglass   | Screen<br>Slot No.                               |                              | <u> </u>                               |                        | mended pump                             | 10 <b>6</b> 15 <b>6</b> |                    | 10<br>15            | 6.15<br>6.13           |
| Other: After test of well  | l yield, water was                                    | diam   | Plastic Concrete   | Olor No.   |                              | . 14.4                                 | II I                   | ng give rate -<br>litres/min)           | 20 6                    | .52<br>.52         | 20<br>25            | 6.13<br>6.13           |
| Clear and se   |   |  | Galvanized   | asing or Scr                                     | yeen .                       |  |                        | oing discontin-<br>ve reason.           | 30 6                    | .53                | 30<br>40            | 6.12                   |
| Chlorinated 🔀  | -   | 15.00  | Open hole  | asing of oci                                     |                              | 07.40                                  |                        |   | 50 <b>6</b>             | .53<br>.54         | 50                  | 6.12<br>6.12           |
| 2  | Plugging and S  | 15,23  |  | arspace ∏ A                                      | 10,36                        | 27.43                                  | ]                      | Location                                |                         | .55                | 60                  | 6.12                   |
| Depth set at - Me  |   |  | slurry, neat cement slurry   | v etc Volur                                      | ne Placed<br>ic metres)      | In diagram below                       |                        |   |                         | lot line, a        | nd buil             | ding.                  |
| 10.36 0  | Grouted   | - Bento  | onite Slurry   | ,42m   | 3                            |  |                        | ich Rd                                  |                         |                    |                     | 107                    |
|  |   |  |  |  |                              | ************************************** |                        |   |                         |                    | T                   | -                      |
|  |   |  |  |  |                              |  | 1                      |   | 10<br>10                |                    | 1                   |                        |
|  |   | Method of  | Construction   |  |                              |  |                        | 89                                      | 141                     |                    | !                   |                        |
| Cable Tool   | Rotary  | (air)  | Diamond  |  | Digging                      |  |                        |   |                         |                    | 1                   |                        |
| Rotary (conve  | = '   |  | ☐ Jetting☐ Driving   | <u> </u>   | Other                        | -                                      |                        |   | -<br>                   |                    | •                   |                        |
| Domestic   | ☐ Industr   |  | Public Supp  | oly [  | Other                        |  |                        |   |                         |                    |                     |                        |
| Stock  | ☐ Comm<br>☐ Munici                                    |  | ☐ Not used ☐ Cooling & a   | ir conditioning                                  |                              | Audit No.                              | ACC                    | 0.7 Dat                                 | e Well C                | ompleted           |                     | MM DD                  |
| Water Supply   | Recharge v  | <del></del>  | tus of Well Unfinished   | ☐ Aband  | oned, (Other)                | Was the well ov                        | 465<br>vner's info     | rmation Dat                             | e Deliver               | 200                | 6 (                 | 5 27<br>MM DD          |
| Observation v  | vell 🔲 Abandoned                                      | l, insufficient s<br>l, poor quality                     |  | 149 - VIII. 12 (177)                             |                              | package delivere                       | ed?                    | Yes No                                  | 93 41                   | 200                |                     | 5 28                   |
| Name of Well Co  | Well Co   |  | chnician Information   |  | Licence No.                  | Data Source                            |                        | Ministry Us                             |                         | - m                | 2.0                 |                        |
| · ·  | ater Supples (street name, num                        | per city etc.)   |  | 1558   |                              | Date Received                          | YYYY                   |   | te of Inspe             | . O .              |                     | MM DD                  |
| Box 490  | •   | e. Onta  | rio K2S 1A6  | 'ell Technician's                                | Licence No.                  | JUL                                    |                        | 006                                     |                         |                    | l                   | טט יייווייו            |
|  | cnnician (last name,<br>tephen<br>hylician/Contractor | machame)   |  | M007   |                              | Remarks                                |                        | Í                                       | ell Record              | number             |                     |                        |
| x Hally  | av .  | Mass.<br>La Companya de                                  |  | te Submitted YYYY                                | 6 29                         |  |                        | 004-6                                   | orm::!-                 | ot dia             | nihla               | an frame=!-            |
| 0506E (09/03)  |   | Con  | tractor's Copy 🔲 N   | linistry's Copy                                  |                              | ner's Copy 📋                           |                        | Cette f                                 | лпине в                 | isi aispoi         | IIDI <del>O</del> 6 | en français            |

[18/2 42651610 E 5 R 15 012 219 40 The Ontario Water Resources Commission Act 14R 02610 RESOURCES COMMIS Township, Village, Town or City March Pt. of 11 Date completed 28 May year) ess South March, Ont. **Pumping Test** Casing and Screen Record Static level 71 Inside diameter of casing 15 of 5 Test-pumping rate 5 GPM G.P.M. 15 Total length of casing Pumping level 171 nil Type of screen Duration of test pumping 1 Hour nil Length of screen Water clear or cloudy at end of test clear nil Depth to top of screen Recommended pumping rate 5 GPM G.P.M. 511 Diameter of finished hole feet below ground surface with pump setting of. **Water Record** Well Log Depth(s) at Kind of water From То (fresh, salty, which water(s)Overburden and Bedrock Record sulphur) found 01 11\* Clay 11\* Red Granite **Location of Well** For what purpose(s) is the water to be used? In diagram below show distances of well from New Home road and lot line. Indicate north by arrow. Is well on upland, in valley, or on hillside? Upland Drilling or Boring Firm Blair Phillips Drilling Co. Ltd. Address Ottawa Licence Number 1815 Name of Driller or Borer J. Moore Address Kars, Ont. S. More 28 May 1965 (Signature of Licerson) Form 7 15M-60-4138

OWRC COPY

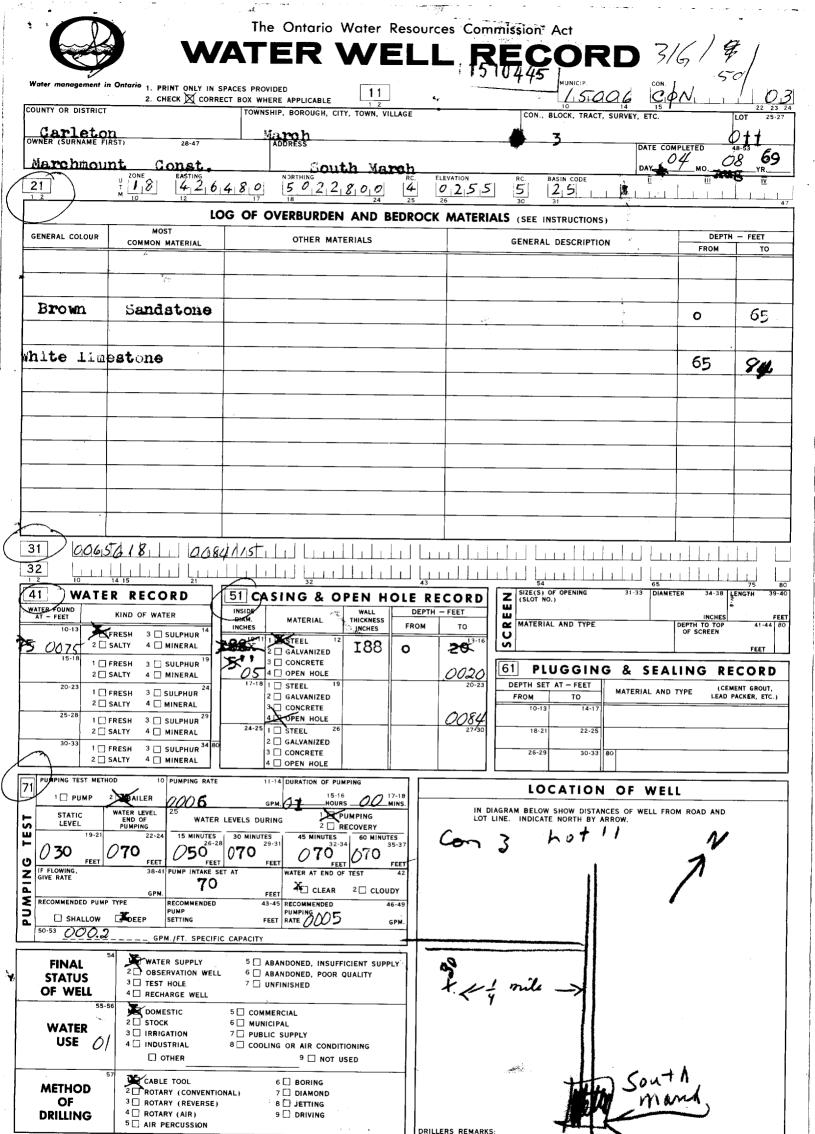
( 4. A. A. A. A.

| 388A  UTM 18 42 412 16 14 13 10 E  Co. 15 R 5 10 12 13 1 1 10 15 N Ontario Water Res  Elev. 14 R 10 12 16 10 WATER WE   | LL                | REC                                | Act DRD                         | JAN 17 III                                 | S64<br>STER<br>MISSION                      |
|---|-------------------|------------------------------------|---------------------------------|--|---|
| Basin   2,5   CarleTon County or District CarleTon Lot /2   | Date con          | npleted                            | 23<br>(day                      | May<br>month<br>Hve 01                     | /963<br>year)                               |
| Casing and Screen Record  | <u></u> -         |                                    | Pumpin                          |  |   |
| Inside diameter of casing 6'/4"   | Stati             | c level                            |                                 | 15   |   |
| Total length of casing 20'  | Test              | -pumping ra                        | ite                             | 5,   | G.P.M.                                      |
| Type of screen 170.18   | Pum               | ping level                         |                                 | 40,  | ,   |
| Length of screen  | Dura              | ation of test                      | oumping                         | / hr                                       |   |
| Depth to top of screen  | Wat               | er clear or cl                     | oudy at end o                   | f test c/eq                                | <i>.</i>                                    |
| Diameter of finished hole   | Rec               | ommended 1                         | oumping rate                    | 5  | G.P.M.                                      |
| Diameter of finished hote   | with              | pump settir                        | ng of 5                         | o feet belo                                | w ground surface                            |
| Well Log  |                   |                                    |                                 | Wate                                       | r Record                                    |
| Overburden and Bedrock Record   |                   | From<br>ft.                        | To<br>ft.                       | Depth(s) at<br>which water(s)<br>found     | Kind of water<br>(fresh, salty,<br>sulphur) |
| clay & broken rock  |                   | 0                                  | 12                              |  |   |
| himestone   |                   | 12<br>38                           | 38                              | 60   | Fresh                                       |
| Sand STone  |                   |                                    |                                 |  |   |
|   |                   |                                    |                                 |  |   |
| For what purpose(s) is the water to be used?  house  Is well on upland, in valley, or on hillside? Upland  Drilling or Boring Firm  Mchean Water Supply Ltd.  Address 1532 Raven Hve  Ollawa, Onl.  Licence Number 1090  Name of Driller or Borer H. Scharf | Roce<br>Bet<br>Lo | In diagra<br>road and<br>d<br>ween | um below sho<br>l lot line. In  | of Well w distances of we ndicate north by | ell from arrow.                             |
| Address Date May 23 163 ComcLen   |                   |                                    | ¥ = 17.2<br>17.2 ← OT<br>3 ← OT | WY 17                                      | v<br>RP →                                   |
| (Signature of Licensed Drilling or Boring Contractor) Form 7 15M-60-4138  | _                 |                                    | 3 COI                           | , nen (1                                   |   |
| OWRC COPY   |                   |                                    |                                 |  |   |

GROUND WATER BRANCH UTM 1/8/2 41216161610 E (05 R 501212191210 N FEB 20 1932 Ontario Water Resources Commission Act ONTARIO WATER DSOURCES COMMISSION ...Township, Village, Town or City... Date completed /2Con. **Pumping Test** Casing and Screen Record Static level .... Inside diameter of casing.... Test-pumping rate Total length of casing. Pumping level Type of screen Duration of test pumping..... Length of screen. Water clear or cloudy at end of test Depth to top of screen Recommended pumping rate Diameter of finished hole with pump setting of..... feet below ground surface **Water Record** Well Log Kind of water Depth(s) at From which water(s) (fresh, salty, d Bedrock Record た found sulphur) 16 32 Location of Well For what purpose(s) is the water to be used? In diagram below show distances of well from road and lot line. Indicate north by arrow. Is well on upland, in valley, or on hillside? Drilling or Boring Firm Licence Number.... Name of Driller or Borer. S. MARCH Address (Signature of Licensed Drilling or Boung Contractor) Form 7 15M Sets 60-5930 OWRC COPY C\$\$.58

| · ·  | IRO.               |  |  | _   |
|--|--------------------|--|--|---|
| UN 182 4216141615E   | 3195d              | V  | VATER RESOURCES  DIVISION N            | 3414,                                       |
| C.15 R [50 2 3 2 7 0 N The Ontario Water Reso                                      | urces Commission   | A  | JUL 6 1964                             |   |
| Elev. 4 R OZ 60 WATER WEL  | I RECA             | n P n  |  |   |
| Racin [7.15] 1/11 ()   |                    | The same of the sa | - Allen Janes                          | ON A  |
| County or District COX T   |                    | •  |  | 64  |
| Con. Lot / L   | _                  | (day   | month                                  | year)                                       |
|  | ress S O           | uth 1  | march                                  | <b>_</b>                                    |
| Casing and Screen Record   |                    | Pumping  | g Test                                 | · · · · · · · · · · · · · · · · · · ·       |
| Inside diameter of casing  | Static level       | 11'  |  |   |
| Total length of casing /8'   | Test-pumping ra    | te   | O                                      | G.P.M.                                      |
| Type of screen   | Pumping level      | 11'  | ·······                                |   |
| Length of screen   | Duration of test p |  |  |   |
| Depth to top of screen   | Water clear or clo | oudy at end of   | test <u>clo</u>                        | ridy  |
| Diameter of finished hole 5 "  | Recommended p      |  |  | G.P.M.                                      |
|  | with pump settin   | g of 40  | feet below                             | w ground surface                            |
| Well Log   |                    |  |  | Record                                      |
| Overburden and Bedrock Record  | From ft.           | To<br>ft.  | Depth(s) at<br>which water(s)<br>found | Kind of water<br>(fresh, salty,<br>sulphur) |
| clay to boulders   | 0                  | 9  | 50                                     | Sresh                                       |
| Sandsolone   | 9                  | 40   |  |   |
| granie   | 70                 | - J  |  |   |
|  |                    |  |  |   |
|  |                    |  |  |   |
|  |                    |  |  |   |
|  |                    |  |  |   |
| For what purpose(s) is the water to be used?                                       |                    | Location   | of Well                                |   |
| old house  | In diagran         |  | distances of wel                       | from 7                                      |
| Is well on upland, in valley, or on hillside?                                      | road and           | lot line. Ind  | icate north by                         | arrow.                                      |
| Drilling or Boring Firm Capital Stater   |                    |  |  |   |
| Supply   |                    | 1  | 300                                    |   |
| Address 1243 Keron Rd  |                    | 1.   | *****                                  |   |
| Ottawa   |                    |  | 11 3                                   |   |
| Licence Number /223  |                    |  | 1.1.*                                  |   |
| Name of Driller or Borer M X avanagh   |                    | MARCH  | <b>₹</b> ¥                             |   |
| Address  |                    |  |  |   |
| Dates 9/3/64   |                    |  |  |   |
| Date 9/3/64  Valter awanciah (Signature of Licensed Drilling or Boring Contractor) |                    |  | 1                                      |   |
| Form 7 15M-60-4138   |                    | #  | *                                      |   |
| OWRC COPY BUNGALOW- IMITATION SA   | 6951DING.          | · ·  | (S).                                   | 5N  |

| M [182426610 COD   | // (編)   | •                |               | [151                 | 1247                       |
|--|--|------------------|---------------|----------------------|----------------------------|
| 14R 5012121917101  | ED   |                  |               | 3                    | 9                          |
| love 1/To 1 m m  | Water Resources  |                  |               | 4                    |                            |
| WATER  | WELL   | REC              | ORD           | _                    | 0                          |
| County or District   | Towns  | hip, Village, To | own or City   | marc                 | h                          |
| Con. I V Lot //  | Date c   |                  | (day          | month                | 1969                       |
| Owner In Holitzmer Le  | Addres   | $\sim$           | zeldea        | n Or                 | $\mathcal{A}$              |
| Casing and Screen Record   |  |                  | Pumping       | Test                 |                            |
| Inside diameter of casing 5  | Committee of the property of the property of the property of | tic levei        |               |                      |                            |
|  | RESHIPPER I  |                  |               |                      | G.P.M.                     |
| Type of screen   | Pu   |                  |               | . (1                 |                            |
| Length of screen   | 1 6  |                  |               |                      |                            |
| Depth to top of screen ONTA  | 3 11 19.41517 1 3  | •                |               |                      |                            |
| Diameter of finished hole CESOURCE                                   | S COMMISSION R   |                  | _             |                      |                            |
|  | wi   | th pump setting  | g of ろし       | <del></del>          | w ground surface           |
| Well Log   |  |                  |               | Depth(s) at          | Record Kind of water       |
| Overburden and Bedrock Record  |  | From<br>ft.      | To<br>ft.     | which water(s) found | (fresh, salty,<br>sulphur) |
| clay   |  | 0                | 25            | 60                   | fresh                      |
| 100000000000000000000000000000000000000                              |  | 25               | 61            |                      |                            |
|  |  |                  |               |                      |                            |
|  |  |                  |               |                      |                            |
|  |  |                  |               |                      |                            |
|  |  |                  |               |                      |                            |
|  |  | •                |               |                      |                            |
| For what purpose(s) is the water to be used?                         |  |                  | Location      | of Well              |                            |
| household  |  |                  |               | distances of we      |                            |
| Is well on upland, in valley or on hillside?                         | <u></u>  | road and         | lot line. Ind | icate north by       | arrow.                     |
| Drilling or Boring Firm Capital Wal                                  | en   |                  |               | 8                    |                            |
| Supply It  | مل م   |                  |               | 1 7                  | •                          |
| Address 14 ashford Dr  |  |                  | 7             | HT.                  |                            |
| altawa 6   |  |                  |               | #                    | , 3                        |
| Licence Number 32/6  |  |                  |               | 1,3/                 | <b>,,,</b> ,               |
| Name of Driller or Borer 3 acres                                     |  |                  | 1             | 村                    |                            |
| Address  |  |                  | ر<br>ب        |                      |                            |
| Date/ 1/ June 1969   |  |                  | ~             | 3.7                  |                            |
| Walter away agh<br>(Signature of Licensed Drilling or Bering Contrac | tor)   |                  |               | 12                   |                            |
| Form 7 5M 60-20912   |  |                  |               | Į į                  |                            |
| OWRC COPY  |  |                  |               | CSS.                 |                            |



NAME OF WELL CONTRACTOR

Saunde s ell Drilling 3480

Address

Artiori r

NAME OF DRILLER OR BORER

LICENCE NUMBER

LICENCE NUMBER

SIGNATURE OF CONTRACTOR

SUBMISSION DATE

DAYA

HO (11) C VE CO

DATE OF INSPECTION

DATE OF INSPECTION

INSPECTOR

S9-62 DATE RECEIVED

63-68 80

4724 210170

REMARKS:

# The Ontario Water Resources Commission Act

# WATER WELL RECORD

|              | Water management in Ontario 1. PRINT ONLY IN SPA 2. CHECK ☑ CORRECT                          | CES PROVIDED  BOX WHERE APPLICABLE   | 1511444 1 500 CON.   | 14            |
|--------------|--|--|--|---------------|
|              | COUNT OR DISTRICT  | TOWNSHIP BOROUGH, CITY, TOWN, VILLAGE  | 3 9 CON., BLOOK, TRACT, SURVEY, ETC. LOT 25-2  | 7             |
|              |  | PR# 7  | Ollawa DATE COMPLETED 7 48-58 7  | 7             |
|              |  | 22 8 8 0 PC 25   | ELEVATION RC. BASIN CODE II III IV   | لد<br>ا_      |
|              | LOG  |  | OCK MATERIALS (SEE INSTRUCTIONS)   | 47            |
|              | GENERAL COLOUR MOST COMMON MATERIAL  | OTHER MATERIALS  | GENERAL DESCRIPTION DEPTH - FEET FROM TO   |               |
|              |  |  |  |               |
|              | grey day   |  | 0/6  | $\dashv$      |
|              | white sandston   |  | 16 58  | -             |
| Ì            | CO. C. Lawrence  |  | /3 30  |               |
|              |  |  |  |               |
|              |  |  |  | 4             |
|              |  |  |  | _             |
| ŀ            |  |  |  | $\dashv$      |
| ļ            |  |  |  | $\dashv$      |
| إ            |  |  |  | <u> </u>      |
|              | 31 aa/62ast aa58   | 4481   |  |               |
| 7            | 12 10 14 15 21   | 51 CASING & OPEN HOLE  | RECORD Z SIZE(S) OF OPENING 31-33 DIAMETER 34-38 LENGTH 39-                              | 80<br>40      |
| -[           | WATER FOUND KIND OF WATER  | INSIDE WALL D DIAM. MATERIAL THICKNESS INCHES FRO  | OM TO MATERIAL AND TYPE DEPTH TO TOP 41-44 8   | EET<br>80     |
| 9            | 75-18  | 10-11 STEEL 12 2 GALVANIZED  | 0037 S   |               |
|              | 1   FRESH 3   SULPHUR 19 2   SALTY 4   MINERAL 20-23   24                                    | 3 CONCRETE -/88  | DEPTH SET AT - FEET MATERIAL AND TYPE (CEMENT GROUT)                                     | 4             |
| -            | SALTY 4 MINERAL  | 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE  | FROM TO WATERIAL AND TIPE LEAD PACKER, ETC.)   | ┥             |
|              | 25-28   1   FRESH 3   SULPHUR 29   2   SALTY 4   MINERAL 30-33   1   FRESH 3   SULPHUR 34 80 | 24-25 1 STEEL 26<br>2 GALVANIZED   | 27-30 18-21 27-25  | $\dashv$      |
| Ł            | , 2 SALTY 4 MINERAL  | 3 ☐ CONCRETE<br>4 ☐ OPEN HOLE  | 26-29 3G-33 80   |               |
|              | 71 PUMPING TEST METHOD 10 PUMPING RATE   | 11-14 DURATION OF PUMPING  15-16  17-18  HOURS  MINS.  | LOCATION OF WELL   | $\frac{1}{2}$ |
|              | STATIC WATER LEVEL 25 WATER LE PLOY OF PUMPING 19-21 22-24 15 MINUTES                        | EVELS DURING  TUMPING  RECOVERY  30 MINUTES   45 MINUTES   60 MINUTES  | IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW. |               |
| 1            | 06 FEET 15 FEET 12 FEET  | 15 FEET 15 FEE |  |               |
|              | Z IF FLOWING, GIVE RATE 38-41 PUMP INTAKE SET  |  |  |               |
|              | RECOMMENDED PUMP TYPE RECOMMENDED PUMP PUMP SETTING  | O 43-45 RECOMMENDED 46-49 PUMPING O GPM.   | March .  |               |
| Ĺ            | 50-53 <u>QQ 2, 3</u> GPM./FT. SPECIFIC   | CAPACITY   | Em to 1  |               |
|              | FINAL STATUS  54  2 OBSERVATION WELL 3 OF TEST HOLE  | 5 ABANDONED, INSUFFICIENT SUPPLY 6 ABANDONED, POOR QUALITY   | 12 115   |               |
| $\downarrow$ | OF WELL 4 RECHARGE WELL  | 7 UNFINISHED   |  |               |
|              | WATER  2 STOCK 3 STOCK   | 6 MUNICIPAL 7 PUBLIC SUPPLY  | (2.0)  |               |
| إ            | USE // 4   INDUSTRIAL   OTHER  | 8 COOLING OR AIR CONDITIONING 9 NOT USED   |  |               |
|              | METHOD  1 DEBLE TOOL 2 ROTARY (CONVENTION  |  |  |               |
|              | OF DRILLING  3  ROTARY (REVERSE) 4  ROTARY (AIR) 5  AIR PERCUSSION                           | 8  JETTING 9  DRIVING  | DRILLERS REMARKS:  |               |
|              | WELL CONTRACTOR - ALIAN  | D. LICENCE NUMBER  | DATA 58 CONTRACTOR 59-62 DATE RECEIVED 53-69 8   | <br>••        |
| 1            | o Address ( Q C)   | il meny sury   | SOURCE 3644 081071  DATE OF INSPECTION INSPECTOR   | -             |
|              | NAME OF DULLER OR BORER  | LICENCE NUMBER   | REMARKS:   | +             |
|              | SIGNATURE OF CONTRACTOR  | SUBMISSION DATE  | <u>+</u>   | -             |
| Ľ,           | - Hely to vour   | DAY_MO WYR /   | [5] Wil  | Ĭ             |

### MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act

# WATER WELL RECORD

| Ontario                             | 1. PRINT ONLY IN<br>2. CHECK ⊠ CORF   | SPACES PROVIDED                                     |                     | 11            | 51626   | 0         | MUNICIP. 15101016  | (C)          | <u> </u>                  | 03   |
|-------------------------------------|---------------------------------------|---|---------------------|---------------|---|-----------|--|--------------|---------------------------|--|
| COUNTY OR DISTRICT                  | ton                                   | TOWNSHIP, BOROUGH, CITY,                            | TOWN, VILLAG        | 3             |   | con 3     | ., BLOCK, TRACT, SURVE   | Y, ETC.      | 1                         | 9/2527   |
|                                     |                                       |   |                     |               | 0+4   |           |  | DATE COMP    | PLETED 4                  | 8-53   |
|                                     |                                       | NG 23.  | mscse A<br>1.4.0    | <u>ve.</u>    | Ottawa,                                       | Un tar    | BASIN CODE<br>26   | 11           | 111                       | iv   |
| 1 2                                 | ** 10 12                              | OG OF OVERBURDEN                                    | AND BED             | ROCI          | K MATERIA                                     | LS (SEE   | 31   |              | ,                         | 47   |
| GENERAL COLOUR                      | MOST<br>COMMON MATERIAL               | OTHER MAT   | ERIALS              |               |   | GENEF     | RAL DESCRIPTION  |              | DEPTH<br>FROM             | - FEET   |
| brown                               | clay                                  |   |                     |               | pa  | cked      |  |              | 0                         | В  |
| brown                               | clay                                  | boulders  |                     |               | pa  | cked      |  |              | 9                         | 11   |
| grey                                | limestone                             | sandstone   |                     |               | ha:   | rd        | - Contraction of the Contraction |              | 11                        | 35   |
| grey                                | sandstone                             |   |                     |               |   |           |  |              | 35                        | 115  |
|                                     |                                       |   |                     |               |   |           |  |              |                           |  |
| 3) 1000                             | 960579 091                            | 1610513790035                                       | 215/87              | 3             | 9/152/8                                       | لىلى      |  |              |                           |  |
| 32                                  | 14 15 21                              | 32  |                     |               | <u>, , , , , , , , , , , , , , , , , , , </u> | SIZE      | 54<br>(S) OF OPENING   | 31-33 DIAME  | TER 34-38 L               | 75 80<br>ENGTH 39-40   |
| WATER FOUND                         | TER RECORD                            | CASING & C  | WALL THICKNESS      |               | CORD  | N (SLO    | NO NO  |              | INCHES                    | FEET   |
| 10-13 1                             | FRESH 3 SULPHUR 14                    | DIAM MATERIAL INCHES 12                             | 188                 | еком<br>О     | ™<br>0022°                                    | SCB       | ERIAL AND TYPE   |              | DEPTH TO TOP<br>OF SCREEN | 41-44 80<br>FEET   |
|                                     | FRESH 3 SULPHUR 19 SALTY 4 MINERAL    | 2 GALVANIZED 3 CONCRETE 4 DPEN HOLE                 |                     | 2             |   | 61        | PLUGGIN  | G & SEAL     | ING RECO                  | RD   |
| 20-23 1                             | FRESH 3 SULPHUR 24                    | 17-18 1   |                     |               | 0/15  |           | SET AT - FEET  | MATERIAL ANI |                           | NT GROUT<br>CKER ETC )   |
| 25-28 1                             | SALTY 4 MINERAL  FRESH 3 SULPHUR 29   | 3 CONCRETE 4 OPEN HOLE                              |                     |               | 27-30   | ļ         | 10-13 14-17  |              |                           |  |
| L                                   | SALTY 4 MINERAL  FRESH 3 SULPHUR 34 6 | 24-25 1   STEEL 26 2   GALVANIZED 3   CONCRETE      |                     |               | 27730   |           | 6-29 30-33 80  |              |                           |  |
|                                     | SALTY 4 MINERAL                       | 4 OPEN HOLE   | LMPING              |               |   |           |  |              |                           | nacional, il transportational anni dell'internacional dell'internacional dell'internacional dell'internacional |
| ¥71‼ <b>⊿</b>                       | 2   BAILER 001                        |   | 15 (A) 17           |               |   |           | LOCATION C   |              |                           | N.O.   |
| STATIC<br>LEVEL                     | PUMPING                               | LEVELS DURING 2                                     | PUMPING<br>RECOVERY |               | LOT L   |           | LOW SHOW DISTANCE<br>DICATE NORTH BY A   |              | FROM ROAD A               | N U  |
| E 020                               | J70 J70 26.                           | 28 070 <sup>29-31</sup> 070 <sup>32</sup>           | ·34 <b>८७</b> 0°    |               |   | 1         |  |              |                           |  |
| FELOWING. GIVE RATE  RECOMMENDED PU | 38-41 PUMP INTAKE                     | SET AT WATER AT END                                 |                     | 42            | $\mathcal{L}$                                 | (         | Our  |              |                           |  |
| 10.1                                | PUMP                                  | D 43-45 RECOMMENDED                                 | 46                  | 49            | 7   | J         | + ()   | _            |                           |  |
| SHALLOV                             |                                       | ECIFIC CAPACITY                                     | G                   | PM            |   |           | *  | //           |                           |  |
| FINAL                               | 1  WATER SUPPLY 2  □ OBSERVATION WE   | 5 ABANDONED, INSUI                                  |                     | ~ ]           |   |           | is in  | #            |                           |  |
| STATUS<br>OF WELL                   | 3   TEST HOLE 4   RECHARGE WELL       | 7 UNITINISHED                                       |                     |               |   |           | Z  | 30           | )                         |  |
| 1                                   | 55-56 1 X DOMESTIC<br>2 STOCK         | 5 COMMERCIAL 6 MUNICIPAL                            |                     |               |   |           | 4  | 3            |                           |  |
| WATER (                             | 4   INDUSTRIAL                        | 7 ☐ PUBLIC SUPPLY  8 ☐ COOLING OR AIR COND  9 ☐ NOT |                     |               |   |           | •  |              |                           |  |
|                                     | S7   CABLE TOOL                       | € □ BORING  |                     | -             |   |           | _  |              | outh C                    | $\lambda$  |
| METHOD<br>OF                        | 2   ROTARY (CONVEN                    | TIONAL) 7 DIAMOND<br>E) 8 DETTING                   |                     |               | 0-  | P C       | ARP RON  | 5            | on Mr                     |  |
| DRILLING                            | 4   ROTARY (AIR)  5   AIR PERCUSSION  | 9 DRIVING   |                     |               | DRILLERS REMAR                                | ĸs        |  |              | 1,1,                      |  |
| NAME OF WELL                        | contractor ital Water Supp            |   | cence number        | $\neg \lceil$ | DATA  | 58        | CONTRACTOR 59-62   | DATE RECEIVE | 1177                      | 63-68 80   |
| ADDRESS                             |                                       |   |                     | -             | SOURCE  DATE OF INSP                          | ECTION ZO | 195 Thispecton   | <u> </u>     | 11/                       | J  |
| NAME OF DRILL                       | / /                                   |   | CENCE NUMBER        | +             | S PEMARKS:                                    | ne d'     | BA BA  | ) <u> </u>   | P                         | )  |
| S WANTURE OF                        | contractor                            | SUBMISSION DATE                                     |                     |               | B. B.   | , p.hor   | Sen Buch   |              | -                         | <br>V I  |
| Much                                | upavan                                | Ceft DAY 5 MO.                                      | 10 YR.              |               | 0   | <i>.</i>  |  |              |                           | 7 MOE 07-091   |

The Ontario Water Resources Act

|       | The state income |        |
|-------|------------------|--------|
| WATER | WELL             | RECORD |

R 85% 1516836 1. PRINT ONLY IN SPACES PROVIDED 15006 2. CHECK X CORRECT BOX WHERE APPLICABLE TOWNSHIP, BOROL Mar 9 DATE COMPLETED DA 20 LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS) GENERAL COLOUR MOST COMMON MATERIAL DEPTH - FEET GENERAL DESCRIPTION Brown Sund 0 ス 125 0002612877 | 612521817473 | 1111 10 14 15 21 21 43 **(**51) WATER RECORD **CASING & OPEN HOLE RECORD** SCREEN DEPTH KIND OF WATER то 1 FRESH 3 SULPHUR
2 SALTY 4 MINERAL 27 GALVANIZED
CONCRETE
CONCRETE
CONCRETE 0022 1 | FRESH 3 | SULPHUR
2 | SALTY 4 | MINERAL 61 PLUGGING & SEALING RECORD 1 D STEEL
2 D SALVANIZED FEET 1 FRESH 3 SULPHUR
2 SALTY 4 MINERAL MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC.) FROM 0055 1 | FRESH 3 | SULPHUR
2 | SALTY 4 | MINERAL FOPEN HOLE 1 GALVANIZED 22-25 1 FRESH 3 SULPHUR
2 SALTY 4 MINERAL LOCATION OF WELL PUMP 2 D BAILER 0/ 15-16 00 WATER LEVEL END OF PUMPING IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE INDICATE NORTH BY ARROW. PUMPING RECOVERY WATER LEVELS DURING 29-31 O FEE PUMPING 1 CLEAR 2 CLOUDY RECOMMENDED PUMP SETTING 0 75 DEEP FEET 1 WATER SUPPLY 5 ABANDONED, INSUFFICIENT SUPPLY **FINAL** 2 D OBSERVATION WELL 6 ABANDONED, POOR QUALITY **STATUS** 3 TEST HOLE
4 RECHARGE WELL OF WELL 1 DOMESTIC 5 COMMERCIAL 2 STOCK
3 RRIGATION MUNICIPA \_ PUBLIC SUPPLY WATER O COOLING OR AIR CONDITIONING
9 NOT USED USE 4 | INDUSTRIAL OTHER 1 CABLE TOOL 6 [] BORING METHOD Z ROTARY (CONVENTIONAL) 5 7 [] DIAMOND 3 | ROTARY (REVERSE)
4 | ROTARY (AIR)
5 | AIR PERCUSSION OF **DRILLING** 9 [] DRIVING CONTRACTOR 1538 **1**812?8 OFFICE USE ONLY

C33.33

FORM NO. 0506—4—77 FORM 7

# The Ontario Water Resources Act 31 G 5 d WATER WELL RECORD

| Ontario                               | 1. PRINT ONLY IN S<br>2. CHECK 🔀 CORRE | CT BOX WHERE APPLICABLE  |               | 51793  |                 | [1.500]                          | 14 15       | <b>N</b> , ,        | 22 23                        |
|---------------------------------------|--|--|---------------|--|-----------------|----------------------------------|-------------|---------------------|------------------------------|
| COUNTY OR DISTRICT                    | -Morleton                              | Kanata   |               | RCH TWP  |                 | ., BLOCK, TRACT, SURV            |             |                     | 11                           |
|                                       |  | South Mar  | o.b.          | Ontonio  |                 |                                  | DATE COMP   |                     | 48-53<br>7<br>YR. <u></u> 字: |
|                                       |  | 503 th Mar   |               | BARO   |                 | 216                              | " "         | i , ", ,            | l v                          |
|                                       | M (Q ¶2                                | 17 18 24   | 75            | 25   | 30              | 31                               |             |                     | <u> </u>                     |
| · · · · · · · · · · · · · · · · · · · | LO                                     | G OF OVERBURDEN AND BE   | DROC          | K MATERIAL                                       |                 |                                  |             | DEPTH               | - FEET                       |
| GENERAL COLOUR                        | COMMON MATERIAL                        | OTHER MATERIALS  |               |  |                 | RAL DESCRIPTION                  |             | FROM                | TO                           |
| Brown_                                | Sand                                   | Gravel   |               | Fil  |                 |                                  |             | ()                  | 3                            |
| Gray                                  | Sandstone                              |  |               | ille C   | <u>iium</u>     |                                  |             | 3_                  | 53_                          |
|                                       |  |  | <del></del>   |  |                 |                                  |             |                     | -                            |
|                                       |  |  |               |  |                 |                                  |             |                     |                              |
|                                       |  |  |               |  |                 |                                  |             |                     |                              |
|                                       |  |  |               |  |                 |                                  |             |                     |                              |
|                                       |  |  |               |  |                 |                                  |             |                     |                              |
|                                       |  |  |               |  |                 |                                  |             |                     | 1                            |
|                                       |  |  |               |  |                 |                                  |             |                     |                              |
|                                       |  |  |               |  |                 |                                  |             |                     |                              |
|                                       |  |  |               |  |                 |                                  |             |                     |                              |
| 31                                    | 36 28 1  a    005=                     | ا ا ا ا ا ا ا ا ا ا ا ا ا  | 1.11          |  | .   .           | 1[1.]                            |             | 1 1 . I             |                              |
| 32                                    |  | <u> </u>   | L++<br>       | <del>                                     </del> |                 |                                  |             |                     |                              |
| 10                                    | TER RECORD                             | (51) CASING & OPEN HO  | OLE RI        | ECORD  | <b>Z</b>   \$12 | 54<br>E(S) OF OPENING<br>OT NO ) | 31-33 DIAMS | TER 34-38           | 75<br>LENGTH 39              |
| WATER FOUND<br>AT - FEET              | KIND OF WATER                          | INSIDE WALL DIAM MATERIAL THICKNESS  |               | PTH - FEET                                       | E MA            | TERIAL AND TYPE                  |             | INCHES DEPTH TO TOP | FE<br>41-44                  |
|                                       | FRESH 3   SULPHUR   SALTY 4   MINERAL  | INCHES INCHES  |               | 13-16  | SC              |                                  |             | OF SCREEN           | FEET                         |
| 15-18 1                               | FRESH 3 SULPHUR 19                     | GALVANIZED CONCRETE C |               | 0022   | 61              | PLUGGII                          | NG & SEA    | LING REC            | ORD                          |
|                                       | SALTY 4 MINERAL  FRESH 3 SULPHUR 24    | 17-18   STEEL 19   | 2             | 2 <b>20-23</b>                                   | DEPT            | H SET AT - FEET                  | MATERIAL AN | D TYPE (CEM         | ENT GROUT<br>PACKER, ETC )   |
| 2                                     | SALTY 4   MINERAL 29                   | CONCRETE  10 4 POPEN HOLE  |               | 2 233  |                 | 10-13 14-17                      |             |                     |                              |
| 2 [                                   | SALTY & MINERAL                        | 24-25 1 STEEL 25<br>2 GALVANIZED   |               | 27-30  |                 | 18-21 22-25                      | -1          |                     |                              |
| 2 0                                   | FRESH 3 SULPHUR 34 BO                  | 3 CONCRETE 4 OPEN HOLE   |               |  |                 | 26-29 30-33 8                    |             |                     |                              |
| 71 JUMPING TEST MET                   |  | 1  | 17-18         |  |                 | LOCATION                         | OF WEL      | . L                 |                              |
| PUMP                                  | WATER LEVEL 25                         | 15 GPM 01 IS-16 60 HOURS 60  | MINS          |  |                 | LOW SHOW DISTAN                  |             | FROM ROAD           | AN D                         |
| S OZO 19-51                           | DUMPING                                | EVELS DURING 2 RECOVERY  30 MINUTES 45 MINUTES 60 MINUTES  |               | LOT LIN  | 16 11           | NDICATE NORTH BY                 | ARROW.      |                     |                              |
| 1900                                  | 030 FEET 030 FEE                       | 030 FEET <b>0</b> 30 FEET <b>0</b> 30  | 35-37<br>FEET |  |                 |                                  |             | 1                   |                              |
| Z IF FLOWING.<br>GIVE RATE            | 38-41 PUMP INTAKE                      | 1 Mars 2 Day   | AZ<br>DUDY    |  | 1               |                                  |             | 1                   |                              |
| IF FLOWING. GIVE RATE  RECOMMENDED PU | PUMP                                   | A3-45 RECOMMENDED  | 46-49         | 7  |                 |                                  |             | 1                   |                              |
| 50-53                                 | Y T DEEP SETTING                       | 040 FEET RATE 0005   | GPM           | #  | 1               | į                                | *           | 1                   |                              |
| FINAL                                 | 84 I ☑ WATER SUPPLY                    | S ( ABANDONED, INSUFFICIENT SU   | PPLY          |  | Ì               |                                  |             | ł                   |                              |
| STATUS                                | 2 DBSERVATION WELL                     | L S ABANDONED POOR QUALITY UNFINISHED  |               | 3  | 1               | 6'3" 2                           | 2'          | 1                   |                              |
| OF WELL                               | 4 ☐ RECHARGE WELL  5-56 1 🖺 DOMESTIC   | 5 D COMMERCIAL   |               | #  | 1               |                                  |             | 1                   |                              |
| WATER                                 | 2 STOCK 3 IRRIGATION                   | MUNICIPAL Dublic Supply  |               |  |                 | 016 OC                           | toux        | 3 20                | <del>/</del>                 |
| USE 0                                 | 4   INDUSTRIAL   OTHER                 | COOLING OR AIR CONDITIONING 9 □ NOT USED   |               |  | (               | J10 0 C                          |             |                     |                              |
|                                       | 57 CABLE TOOL                          | 6 ☐ BORING   |               |  |                 |                                  |             |                     |                              |
| METHOD<br>OF                          | 5 ROTARY (CONVENT                      | ) # 🗆 JETTING  |               |  |                 |                                  |             |                     |                              |
| DRILLING                              | 4   ROTARY (AIR) 5   AIR PERCUSSION    | 9   DRIVING  |               | DRILLERS REMARKS                                 |                 |                                  | •           |                     |                              |
| NAME OF WELL                          |  | LICENCE NUMBE  | R             | SOURCE   | 54              | contractor 59-                   | 0 S RECEIVE | 201                 | 29""                         |
| Capit<br>ADDRESS                      | al Water Sup                           | <u> </u>   | $\dashv$      | SOURCE  DATE OF INSPEC                           | TION            | INSPECTOR                        | VV          | AV (                |                              |
| BOX 4                                 | 190; Stittsvi<br>LER OR BORER          | 11e, Ont. KOA 3GO  | R             | S REMARKS  |                 |                                  |             |                     |                              |
| S. Mi                                 | ller/ W. Kav                           | anagh  |               | OFFICE   |                 |                                  |             |                     |                              |
| SIGNATURE OF                          | dontractor  ( ( ) ) ( )                | SUBMISSION DATE  DAY OL MO. 074  | 0/1           | tt   |                 |                                  |             |                     |                              |

| For use in the Province of Orbarico only. This document is a permanent legal document. Please retain for future reference. All Sections must be completed in this sool delays in processing. Further instructions and organizers are newlated on the back of this for Guestian instructions and expensive and the fact of this for Guestian instructions and expensive and the fact of this for Guestian instructions and expensive and the fact of this for Guestian instructions and expensive and the fact of this for Guestian instructions and expensive and the fact of metric processing. The fact of the f  |                                       | ntari   | O t   | Ministry o<br>he Enviro  |                                    | ell Tag Number (Pi                     |                            | int number below)  |           | Regulation 90        | 3 Ontario                             | Water Res        |               |
|---|---------------------------------------|---|---|--|------------------------------------|--|----------------------------|--------------------|-----------|----------------------|---------------------------------------|------------------|---------------|
| ### Construction Record    Construction Record   Period    | For use in All Section                | n the <b>Pro</b><br>ons <b>must</b><br>os regardi | vince on the control of the control | of Ontarion of Ont | full to avoid of<br>is application | elays in processi<br>can be directed t | ng. Further<br>o the Water | instructions ar    | ıd exhl:  | anations are ava     | ailahla oi                            | ence.            |               |
| Straw   Carleton   Representation   Re    | Please p                              | rint clearl                                       | ly in blu   | e or black   | k ink only.                        |  |                            |                    | ON        | Ministry Us          | e Only                                | LOT              |               |
| State Compatement Block Track et al.  |                                       | 3 1110  |   |  |                                    |  |                            |                    |           |                      |                                       | Conocosio        |               |
| Linestone   | RR#/Street Nur                        | mber/Nam  | ie .  |  |                                    |  |                            |                    |           |                      |                                       | Block/Tract e    |               |
| Correct Color   Control   Color   Colo  | <b>927 March</b><br>GPS Reading       |   |   |  |                                    |  |                            |                    | e of Op   | peration: Und        | ifferentiate                          | d Ave            | raged         |
| Property     | Log of Overl                          | 8 3<br>burden a                                   | 18<br>and Be  | 42<br>drock M  | 63 ⊧76 ∣<br>aterials (see          | 50 233 79 instructions)                | Garmin                     |                    |           | Diffe                | rentiated,                            | specify          |               |
| Linestone   Bard   1.98   12, 19   22, 17, 19   12, 19     | General Colour                        | Most o  | common  | material   | Oth                                | er Materials                           |                            | Gener              | al Desc   | ription              |                                       | <del></del>      | Metres<br>_To |
| Hold Diameter    Hold Diameter   Depth   Morres   Depth   |                                       | *   | •   |  |                                    |  |                            |                    |           |                      |                                       | 1 - <del>-</del> | 1.9           |
| Mole Diameter   | 1 7                                   |   |   |  |                                    |  |                            |                    |           |                      |                                       | 1                | 12.1          |
| Depth   Metres   Dimerials   Depth   Metres   Depth   Metres   Depth    |                                       |   |   |  |                                    |  |                            | 11611              |           |                      |                                       | AM \$ 1.7        | and a Li      |
| Depth   Metres   Dimerials   Depth   Metres   Depth   Metres   Depth    |                                       |   |   |  |                                    |  |                            |                    |           |                      |                                       |                  |               |
| Depth Metres   Demeter  |                                       |   |   |  |                                    |  |                            |                    | +         |                      |                                       |                  |               |
| Depth   Metres   Demeter   From   To   Centiferenses   Centi    |                                       |   |   |  |                                    |  |                            |                    |           |                      |                                       |                  |               |
| Depth Metres   Demeter  | Hole D                                | )iameter  |   |  |                                    | Construction D                         | ord                        | A                  |           |                      | 6 ce 144 ·                            | V:-1-1           |               |
| O 9.75 22.75 9.75 22.24 15.55 15.86 Suee   Fibregase   48 + .45   9.75   Water Record   Support   15.86   Suee   Fibregase   48 + .45   9.75   Water Record   Support   15.86   Suee   Fibregase   48 + .45   9.75   Water Record   Support   15.86   Suee   Fibregase   15.86   Support   Suee   Fibregase   15.86   Suee   Fibregase   15.86   Support   Suee   Fibregase   Suee   Fibregase   Support   Suee   Fibregase   Suee  | Depth Me                              | etres Dia   |   | Inside   |                                    |  | 1                          | Metres             | Pum       |                      |                                       |                  | Recovery      |
| Second   S    |                                       |   |   | 1.0  |                                    |  | From                       | То                 |           |                      | min N                                 |                  |               |
| 13.88   |                                       | 1   |   |  |                                    | Casing                                 | I                          |                    | (meti     | res)10_81            | Level 3,                              |                  | <u> </u>      |
| Water Record   Galvanized   G    | 7.13 44.                              | ,27 1.  | ردود  | 15.86  | Steel Fibro                        | eglass .48                             | + .45                      | 9.75               | (litres   | s/min) <b>54.6</b>   | 1 3,                                  | 73 1             | 4.90          |
| Plastic   Concrete   Cable Tool   Sulphur   Sulphur   Cable Tool   Sulphur    |                                       |   | Vater   |  | Galvanized                         |  |                            |                    | 11 1      |                      | 2 3,                                  | <b>.81</b> 2     | 4.85          |
| Galvanized   Gal    | 14.02                                 | Fresh 🔲 S   | Sulphur   |  |                                    |  |                            |                    | Final     | water level end      | 3 <b>3</b> ,                          | <b>.81</b> 3     | 4.82          |
| Supply   General   Gener    |                                       | saity   | viinerais   |  |                                    | eglass                                 |                            |                    | Reco      | mmended pump         |                                       | 85 4             | 4.78          |
| Screen   Sulphur   Screen   Sulphur   Screen   Sulphur   Screen   Screen   Sulphur   Screen   Screen   Sulphur   Screen   Scree    | 19,81                                 |   |   |  | Plastic Con                        |  |                            |                    | Redo      | mmended pump         |                                       | <b>87</b> 5      | 4.75          |
| Cable Tool   Method of Construction   Cable Tool   Method of Construction   Cable Tool   Method of Construction   Rotary (reverse)   Borring Water Use   Demonstric   Slurry   Demonstric   Slock   Demonstric   Slock   Demonstric   Slock   Demonstric   Slock   Demonstric   Developing   Demonstric   Material supply   Replacement well   Method of Construction   Cable Tool   Method of Construction   Rotary (reverse)   Borring   Demonstric   Material supply   Demonstric   Developing   Demonstric   Material supply   Demonstric   Developing   Developing   Demonstric   Developing   Developi    |                                       | Fresh S   | Sulphur   |  | Galvanized                         | Screen                                 |                            |                    | Reco      | mmended pump         |                                       |                  |               |
| After test of well yield, water was \$\frac{\text{clarar and sadiment free}}{\text{choirasted Not casing or Screen}} \rightarrow{\text{No Casing or Screen}} \rightarro | Gas 🗆 S                               | Salty 🔲 N   | Minerals  | L .  | Steel Fibre                        | eglass Slot No.                        |                            |                    | rate.     | (litres/min)         | 15 💪                                  | <b>13</b> 15     | 4.52          |
| Other, specify  |                                       |   | r was   |  |                                    | crete                                  |                            |                    |           | (litres/min)         | 25 4                                  | <b>30</b> 25     | 4.37          |
| Plugging and Sealing Record  Annular space   Abandonment   Depth set at - Melres   Material and type (bentonite stury, neat cement stury) etc. (volume Placed (ublic metres)   Q,75   9   Grouted - Bentonite Slurry   .254m3      Method of Construction   Diagonal   Diagonal   Diagonal     Rotary (conventional)   Air percussion   Dirving   Dimonal     Rotary (reverse)   Boring   Driving     Dornestic   Industrial   Public Supply   Other     Stock   Commercial   Industrial   Public Supply   Other     Stock   Commercial   Industrial   Public Supply   Other     Stock   Commercial   Dewatering     Irrigation   Municipal   Cooling & air conditioning     Test Hole   Abandoned, poor quality   Replacement well     Well Contractor/Technician Information     Name of Well Contractor String   Name of Well Technician (last name, first name)   Well Technician's Licence No. T0097     Too 7   Too 7   Too 7     Too 7   Too 7   Too 7     Too 7   Too 7     Too 7   Too 7     Abandoned   Mell Record Number     Audit No. Z 46 998   Date Well Completed   Ministry Use Only     Was the well owner's Information     Date Source   Contractor     Date of Inspection   Too 7     Date of Inspection   Too 7     Ministry Use Only     Date of Inspection   Too 7     Date Submitted   Too 7     Well Record Number   Too 7     Well Record Number   Too 7     Too 7     Date Submitted   Too 7     Too 7     Date Submitted   Too 7     Well Record Number   Too 7     Too 7     Too 7     Date Submitted   Too 7     Too 7     Date Submit  |                                       |   |   |  |                                    | No Casing or Scr                       | een                        |                    | ued       | give reason.         |                                       |                  | 4.31          |
| Plugging and Sealing Record Annular space Abandonment Depth set at - Metres Meterial and type (bentonite stury, neat cement stury) etc.  9,75   | Chlorinated 🕱                         | Yes 🗌 N   | No ;  | 15.55  | Open hole                          |  | 9.75                       | 22.24              |           |                      |                                       | ***              | 4.15          |
| To  |                                       |   | and Se  |  | and the second second              |  |                            |                    |           |                      | of Well                               | X 200 - 200      |               |
| Method of Construction   Digging   Rotary (conventional)   Air percussion   Jetting   Other   Public Supply   Other   Stock   Commercial   Not used   Stock   Commercial   Not used   Municipal   Cooling & air conditioning   Tripation   Municipal   Dewatering   Dewatering   Test Hole   Abandoned, poor quality   Replacement well   Well Contractor/Technician information   Well Contractor/Suprise   Ministry Use Only   Data Source   Well Record Number   Well Record Number   Stephen   Well Technician (last name, first name)   Well Technician's Licence No.   Toographic      | From To                               | o Iviaterii                                       |   |  |                                    | (cubi                                  | c metres)                  |                    |           | distances of well fr | om road,                              | lot line, and b  | uilding.      |
| Method of Construction  | 9.75                                  | Gro   | uted ·  | - Bent   | onite Siu                          | ry .254                                | 38.3                       |                    |           |                      | 1                                     |                  | •             |
| Method of Construction  |                                       |   |   |  |                                    |  |                            |                    | a         | <u> </u>             |                                       |                  |               |
| Cable Tool Rotary (air) Diamond Digging Other Rotary (conventional) Air percussion Jetting Other    Rotary (reverse) Boring Driving   Public Supply Other Stock Commercial Not used Irrigation Municipal Cooling & air conditioning   Public Supply Recharge well Abandoned, insufficient supply Dewatering Test Hole Abandoned, insufficient supply Replacement well   Abandoned, insufficient supply Replacement well   Well Contractor/Technician Information   Name of Well Contractor/Technician Information   Name of Well Contractor   Well Contractor/Technician Information   Stittsville, Ontario K2S 1A6   Name of Well Technician (last name, first name)   Well Technician's Licence No. 10097   Signation of the percentage   |                                       |   |   |  | <u> </u>                           |  |                            | ; }                | Ales      | 5                    |                                       |                  |               |
| Rotary (conventional) Air percussion Jetting Other Rotary (reverse) Boring Oriving    Rotary (reverse) Boring Oriving   Other   |                                       |   |   |  |                                    |  |                            |                    |           | 13600                |                                       |                  |               |
| Domestic  | Rotary (conver                        | ntional) 🗵  | Air perc  | ussion   | ☐ Jettin<br>☐ Drivin               | g : [                                  |                            | 1                  | 4         |                      |                                       |                  |               |
| Final Status of Well  Water Supply Recharge well Unfinished Abandoned, (Other) Observation well Abandoned, insufficient supply Replacement well  Well Contractor/Technician Information Name of Well Contractor Capital Water Supply Ltd. Business Address (street name, number, city etc.)  Box 490 Stittsville Ontario K2S 1A6 Name of Well Technician (last name, first name) Well Technician's Licence No. Miller: Stephen Signs Mell Technician (Contractor Date Submitted YYYY MM DD  Audit No. Z 46 998  Date Well Completed YYYY MM Date Delivered YYYY MM Date Delivered YYYY MM Date Delivered YYYY MM Date Delivered YYYY MM DD  Date Delivered YYYY MM Date Delivered YYYY MM DD  Date Delivered YYYY MM Date Delivered YYYY MM DD  Date Delivered YYYY MM Date Delivered YYYY MM DD  Date Delivered YYYY MM Date Delivered YYYY MM DD  Date Delivered YYYY MM Date Delivered YYYY MM DD  Date Delivered YYYY MM Date Delivered YYYY MM DD  Date Delivered YYYY MM Date Delivered YYYY MM DD  Date Delivered YYYY MM Date Delivered YYYY MM DD  Date Delivered YYYY MM Date Delivered YYYY MM DD  Date Delivered YYYY MM   |                                       |   |   | al   | Public                             |  | Other                      |                    | 14        |                      |                                       |                  |               |
| Water Supply Recharge well Unfinished Abandoned, (Other) Abandoned, insufficient supply Dewatering Abandoned, poor quality Replacement well  Well Contractor/Technician Information  Name of Well Contractor  Capital Water Supply Ltd.  Business Address (street name, number, city etc.)  Box 490 Stittsville Ontario K2S 1A6  Name of Well Technician (last name, first name)  Well Technician's Licence No.  Miller: Stephen  Date Delivered YYYY MM pdf package delivered?  Was the well owner's information package delivered?  Was the well owner's information package delivered?  Was the well owner's information package delivered?  Date Source  Contractor  Date Source  Date Sephen  Well Technician's Licence No.  TOO97  Date Submitted YYYY MM pdf  Date Submitted YYYY MM pdf   | <del> </del>                          |   |   | al   | Cooli                              |  |                            | Audit No. <b>7</b> | 46        | 998 Dat              | e Well Co                             |                  |               |
| Test Hole Abandoned, poor quality Replacement well  Well Contractor/Technician Information  Name of Well Contractor  Capital Water Supply Ltd.  Business Address (street name, number, city etc.)  Box 490 Stittsville Ontario K2S 1A6  Name of Well Technician (last name, first name)  Well Technician's Licence No.  Miller: Stephen  Date Submitted YYYY MM DD  Well Record Number  Well Record Number  |                                       |   |   | ell .  | Unfin                              |  | oned, (Other)              | Was the well or    | vner's in | nformation Dat       | e Delivere                            | d YYYY           |               |
| Name of Well Contractor  Capital Water Supply Ltd.  Business Address (street name, number, city etc.)  Box 490 Stittsville, Ontario K2S 1A6  Name of Well Technician (last name, first name)  Well Technician's Licence No.  T0097  Signal Major Technician (Contractor)  Well Contractor's Licence No.  1558  Data Source  Contractor  Date of Inspection YYYY MM DD  Well Record Number  Well Record Number   | _                                     | Aba   | andoned,  | poor quality   | Repla                              | cement well                            |                            | package delivere   | su!       |                      | Only                                  | 2006             | 16 * 128      |
| Business Address (street name, number, city etc.)  Box 490 Stittsville Ontario K2S 1A6  Name of Well Technician (last name, first name)  Well Technician's Licence No.  T1097  Signalurator  Date Received YYYY MM DD  Date of Inspection YYYY MM DD  Well Record Number  Well Record Number  | . 14.11.0 0. 110.1 00.                | ntractor  |   |  | umician Infor                      | Well Contractor's                      | Licence No.                | Data Source        | $\dashv$  |                      | · · · · · · · · · · · · · · · · · · · | 155              | 8             |
| Name of Well Technician (last name, first name)  Well Technician's Licence No.  Well Technician's Licence No.  T0097  Signs May of Technician (Contractor  Date Submitted TYYY MM DD  | Business Address                      | s (street nan                                     | ne, numb  | er, city etc.)   |                                    |  |                            |                    | YYYY      |                      | e of Inspe                            |                  |               |
| Signal Help Technician/Contractor Date Submitted TYYYY MM DD  |                                       |   |   | Onta<br>irst name)   | rio K2S 1                          | 4 25 4 44                              | Licence No.                |                    | 1 1       |                      | ll Record                             | Number           |               |
|   | Millor S<br>Signa <i>ylej</i> of Tech | tephen<br>nnician/Cont                            | tractor   |  |                                    | Date Submitted YYYY                    | / MM DD                    |                    |           |                      |                                       |                  |               |
| 2006 6 29 Contractor's Copy Ministry's Copy Well Owner's Copy Cette formule est disponible en franço  | 0506E (09/03)                         | one   | *   | Con  | tractor's Copy                     |  |                            | ner's Copy 🔲       | $\dashv$  | Cette fo             | ormule e                              | st disponible    | en français   |

|  | ntai                                     | IIO t   | Ministry of<br>he Enviror          |                       | /ell Ta                               | g Number (Pla                   | ace sticker and pr           | int number below) | Regulation 90   | 3 Onta                   | rio Water  | Resc                |                       |
|--|--|---|------------------------------------|-----------------------|---------------------------------------|---------------------------------|------------------------------|-------------------|---|--------------------------|--|---------------------|-----------------------|
| <ul><li>All Section</li><li>Question</li></ul>   | in the <b>F</b><br>ons <b>m</b> uns rega | Province of ust be controlled in the controlled | of Ontarion pleted in pleting this | full to avoid         | delays<br>can b                       | s in processi<br>se directed to | ng. Further<br>o the Water   | instructions an   | L<br>Please retain for future<br>and explanations are average<br>The coordinator at | ailable                  | rence.<br>on the ba  | age _<br>nck of     | of<br>this form.      |
| Please p   | orint cle                                | arly in blu   | e or black                         | ink only.             |                                       | a.                              |                              |                   | Ministry Us   | e Only                   |  |                     |                       |
| Well Owner   | r's Info                                 | ormation  | and Loca                           | tion of We            | ll Info                               | rmation                         | MUN                          |                   | CON   |                          |  | LOT                 |                       |
| Ottawa   | Carle                                    | eton  |                                    |                       |                                       |                                 | Kanata                       |                   | 1   | 1                        |  | <i>\</i>            |                       |
| RR#/Street Nu<br>941 Mar   | ımber/N                                  | ame   |                                    |                       |                                       |                                 | City/Town/V                  | -                 | Site/Compa  |                          | /Block/Tra   | act etc             | <b>)</b> .            |
| GPS Reading  | 8  | 3 18  | 426                                | 390                   |                                       | 23443                           | Unit Make/M<br><b>Garmin</b> | lodel Mod         |   | lifferentia<br>erentiate | ited 🗶   | Avera               | iged                  |
| Log of Over<br>General Colour  | 1  | n and Best common   | <del></del>                        |                       | <b>e inst</b><br>her Ma               |                                 |                              | Gener             | al Description  |                          | Dep  | th                  | Metres                |
|  | 1110                                     | 01 00/////01/   | Thatonal -                         |                       | 1101 1110                             | ico i dio                       |                              |                   | ar Description  |                          | Fro  |                     | То                    |
|  |  |   |                                    |                       |                                       |                                 |                              |                   |   |                          |  |                     | 1                     |
|  |  |   |                                    |                       |                                       |                                 |                              |                   |   |                          |  |                     |                       |
|  |  |   |                                    |                       | <del></del>                           | ·                               |                              |                   |   |                          |  |                     |                       |
|  |  |   |                                    |                       | <u> </u>                              |                                 |                              |                   | ···   |                          |  |                     |                       |
|  |  |   |                                    |                       |                                       |                                 |                              |                   | -   |                          |  |                     |                       |
| -  |  |   | *                                  |                       |                                       |                                 |                              | · .               | **************************************  |                          |  |                     |                       |
| Hole   | Diamete                                  | er  |                                    |                       | Cons                                  | truction Rec                    | ord                          |                   | Tes   | t of W                   | ell Yield  |                     |                       |
| Depth M  | Metres<br>To                             | Diameter<br>Centimetres   | Inside<br>diam                     | Material              |                                       | Wall<br>thickness               | Depth                        | Metres            | Pumping test method   |                          | w Down<br>Vater Level  |                     | ecovery<br>Water Leve |
| 110111   |  |   | centimetres                        |                       |                                       | centimetres                     | From                         | То                | Pump intake set at -  | min<br>Static            | Metres   | min                 | Metres                |
|  |  |   |                                    | Steel Fib             | roglass                               | Casing                          |                              |                   | (metres)<br>Pumping rate -  | Level 1                  |  | 1                   |                       |
|  |  |   |                                    | Plastic Co            |                                       |                                 |                              |                   | (litres/min)  Duration of pumping   |                          |  |                     |                       |
| Water found at Metres  | r Recor<br>Kind                          | of Water  |                                    | Galvanized Steel Fib  | reglass                               |                                 |                              |                   | hrs + mir   | 2                        |  | 2                   |                       |
| m  | Fresh Salty                              | Sulphur Minerals  |                                    | Plastic Co            | 74.33                                 |                                 |                              |                   | Final water level end of pumping metres   | 3                        |  | 3                   |                       |
| Other:   |  |   |                                    | Galvanized Steel Fib  | reglass                               | -                               |                              | :                 | Recommended pump type.  | 4                        |  | 4                   |                       |
| ☐ Gas ☐  | Fresh<br>  Salty                         | Sulphur Minerals  |                                    | Plastic Co            | ncrete                                |                                 |                              |                   | Recommended pump  | 5                        |  | 5                   |                       |
| Other:   | Fresh                                    | Sulphur   |                                    | Galvanized            | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Screen                          | 14.7                         |                   | Recommended pump  | 10                       |  | 10                  |                       |
| Gas Other:   | Salty                                    | Minerals  | Outside<br>diam                    | Steel Fib             | . 74                                  | Slot No.                        |                              |                   | (litres/min) If flowing give rate -   | 15<br>20                 |  | 15<br>20            |                       |
| After test of wel  | •  |   |                                    | Plastic Co Galvanized | ncrete                                |                                 | -                            |                   | (litres/min) If pumping discontin-  | 25                       |  | 25                  |                       |
| Other, speci   |  |   |                                    |                       | No C                                  | asing or Sci                    | reen                         |                   | ued, give reason.   | 30<br>40                 |  | 30<br>40            |                       |
| Chlorinated  | Yes                                      | ☐ No  |                                    | Open hole             |                                       |                                 |                              |                   |   | 50<br>60                 |  | 50<br>60            |                       |
|  | Pluggi                                   | ing and Se  | aling Reco                         | ord 🔲                 | Annula                                |                                 | bandonment                   |                   | Location  | of Wel                   |  |                     |                       |
| Depth set at - M   | Metres Ma                                | aterial and typ   | e (bentonite s                     | lurry, neat ceme      | nt slurry                             |                                 | me Placed<br>ic metres)      | In diagram belo   | ow show distances of well f<br>by arrow.  | om road                  | d, lot line, a   | and bu              | ilding.               |
| 6.09   | 0  | Groute  | d Bento                            | nite Slu              | rry                                   | 2inc                            | h hole                       | 100               |   | ı                        |  |                     |                       |
|  | -  |   |                                    |                       |                                       |                                 |                              |                   |   |                          | 1  |                     |                       |
|  |  |   |                                    |                       |                                       |                                 | - :                          |                   |   |                          | 4  |                     |                       |
|  |  | - N   | lethod of                          | Construction          | 1                                     |                                 |                              |                   |   |                          | •  |                     |                       |
| Cable Tool   | ventional)                               | Rotary  |                                    | ☐ Diar                |                                       |                                 | Digging Other                |                   |   |                          |  |                     |                       |
| Rotary (rever  | ,  | Boring  |                                    | Driv                  | •                                     |                                 |                              |                   | March F   | 14                       |  |                     |                       |
| Domestic   |  | Industri  | al                                 |                       | lic Supr                              | oly [                           | Other                        |                   |   |                          |  |                     |                       |
| Stock Irrigation   |  | Comme Municip   |                                    |                       | used<br>oling & a                     | ir conditioning                 |                              | Audit No.         | 47023 De  | te Well                  | Completed  | ~                   | MM DD                 |
| ☐ Water Suppl  | ly 🗆                                     | Recharge w  |                                    | tus of Well           | inished                               | X Aband                         | doned, (Other)               | Was the well of   | owner's information Da  | ite Delive               | 20   | 06  <br>***         | 7 20<br>MM DD         |
| Observation Test Hole  | well                                     | Abandoned,<br>Abandoned,  | insufficient s<br>poor quality     |                       | vatering<br>laceme                    |                                 | American and                 | package deliver   | • • • • • • • • • • • • • • • • • • •   |                          | ang di kacamatan di |                     |                       |
| Name of Well C   | Contractor                               |   | tractor/Ted                        | hnician Info          |                                       | on<br>'ell Contractor's         | Licence No.                  | Data Source       | Ministry Us   | e Only<br>ontractor      |  |                     | <u> </u>              |
| and the second s | l Wat                                    | er Supp   | oly Ltd.<br>per, city etc.)        |                       |                                       | 1558                            |                              | Date Received     | YYYY MM DD Da   | ite of Ins               | pection Y  |                     | 58<br>MM DD           |
|  | 0 Sti                                    | ttsvil]   | e Onta                             | rio K2S               |                                       | 'ell Technician's               | Licence No.                  | AUG<br>Remarks    | 2 5 2006  |                          | rd Number  |                     |                       |
| Miller S   | Steph                                    | en  | o. namej                           | <u> </u>              |                                       | T0097 te Submitted              |                              |                   | l AA  | J., 1 1000               | Tallipol   |                     |                       |
| x NOW  | nnician/                                 |   |                                    |                       |                                       | 2006                            | 7 20                         |                   |   | Fo. pro 1                | 004 -11  | mil-1-              | on from '             |
| 0506E (09/03)  | *  | , <b>13</b>   | Con                                | tractor's Copy        | M                                     | linistry's Copy                 | Well Ow                      | ner's Copy        | Cette   | ornule                   | esi aispo  | ı IIDI <del>C</del> | en françai            |

| $(\infty)$ | Ontario |
|------------|---------|
| (U)        | Untario |
|            |         |

|    | Well | Tag N | lumbe        | r (Place | sticke | r and print | number b | elow) |
|----|------|-------|--------------|----------|--------|-------------|----------|-------|
| ıt |      | A04   | <b>19</b> 07 |          |        | Apriles S   |          |       |
|    |      | 1     | 64           | 10       | PT     |             |          |       |

|         |          |         |         | Reco      |      |
|---------|----------|---------|---------|-----------|------|
| anulati | nn 002 ( | Interio | Water P | Paenurcae | A nt |

| <b>(A)</b> (                          | Onta  | ario                              | Ministry of<br>the Enviro          | nment                      | AC                                    | 41907                       | J. J. Barrer                | int number below)                       | Regulation 903  | 3 Ont                 |                       |                | ecord                |
|---------------------------------------|---|-----------------------------------|------------------------------------|----------------------------|---------------------------------------|-----------------------------|-----------------------------|---|---|-----------------------|-----------------------|----------------|----------------------|
| Instructi                             | ons for   | Completin                         | ng Form                            |                            |                                       | 4 0415                      | 907                         | <del></del>                             |   |                       | p                     | age _          | of                   |
| <ul><li>All Se</li><li>Ques</li></ul> | ections. <b>r</b><br>stions reg   | <b>nust</b> be cor<br>garding com | npleted in<br>pleting thi          | full to avoids application | d delays<br>on can b                  | in processi<br>e directed t | ing. Further<br>o the Water | instructions an                         | lease retain for futur<br>d explanations are ava<br>ment Coordinator at | ailable               | on the ba             | ack of         | this form.           |
|                                       |   | asurement<br>learly in blu        |                                    |                            | to 1/10 <sup>t</sup>                  | of a metre                  | ∍. ┌──                      |   | Ministry Use  | e Onl                 | v                     |                |                      |
|                                       |   | formation                         |                                    | 4                          | lell Info                             | rmation                     | MUN                         | С                                       | ON  |                       |                       | LOT            |                      |
|                                       |   |                                   |                                    |                            |                                       |                             |                             |   |   |                       |                       |                |                      |
|                                       |   |                                   |                                    |                            |                                       |                             |                             |   |   |                       |                       |                |                      |
| Ottawa                                | Carl  | eton,                             |                                    | , ,,                       |                                       |                             | Kanata                      |   |   | 11                    |                       | 4              |                      |
| RR#/Stree                             | t Number  | /Name                             |                                    |                            | 100                                   | L                           | City/Town/V                 | illage                                  | Site/Compa  |                       |                       |                | C.                   |
| 941 N<br>GPS Read                     | larch   | <b>Rd</b> .<br>NAD Zor            | ne Eastin                          | na                         | North                                 | nina                        | Kanata<br>Unit Make/M       |   | e of Operation: Und   |                       |                       | ¬              |                      |
| , , ,                                 | • •   | 8 3 18                            | 3 426                              | 5390                       | 50                                    | 23443                       | Garmin                      | lodei Wode                              |   | lifferent<br>erentiat | ed, specify           | Aver           | aged                 |
|                                       |   | den and Be                        | ·                                  | <del></del>                |                                       |                             |                             |   |   |                       |                       |                |                      |
| General Co                            | lour N  | Most common                       | material                           |                            | Other Ma                              | terials                     |                             | Genera                                  | al Description  |                       | Dep<br>Fro            |                | Metres<br>To         |
| Brown                                 |   | Clay                              |                                    |                            |                                       |                             |                             | Packed                                  |   |                       | 0                     |                | 2.74                 |
| grey                                  |   | limest                            | tone                               |                            |                                       |                             |                             | Hard                                    |   |                       | 2.74                  | 4              | 11.58                |
| grey&                                 | vhite   | sandst                            | cone                               |                            |                                       |                             |                             | *************************************** |   |                       | 11.58                 | 3              | 22,24                |
|                                       |   |                                   |                                    |                            |                                       |                             |                             |   |   |                       |                       |                |                      |
| -                                     |   |                                   |                                    |                            |                                       |                             |                             |   |   |                       |                       |                |                      |
|                                       |   |                                   |                                    |                            |                                       |                             |                             |   |   |                       |                       |                |                      |
|                                       |   |                                   |                                    |                            |                                       |                             |                             |   |   |                       |                       |                |                      |
|                                       |   |                                   | in a                               |                            |                                       |                             |                             |   |   |                       |                       |                |                      |
|                                       |   |                                   |                                    | 1                          |                                       |                             |                             |   |   |                       |                       |                |                      |
| Н                                     | ole Diam  | eter 🔏                            | -                                  |                            | Cons                                  | truction Rec                | ord                         |   | Tes   | t of V                | Vell Yield            |                |                      |
| Depth                                 | Metres  | Diameter                          | Inside                             | Matar                      | ial                                   | Wall                        | Depth                       | Metres                                  | Pumping test method   |                       | aw Down               |                | lecovery             |
| From                                  | То  | Centimetres                       | diam<br>centimetres                | Mater                      | iai                                   | thickness<br>centimetres    | From                        | То                                      | Submersible   | min                   | Water Level<br>Metres | l I Ime<br>min | Water Leve<br>Metres |
| 0                                     | 6.40  | 22.75                             |                                    |                            |                                       | Casing                      |                             |   | Pump intake set at - (metres) 18,28                                     | Static<br>Level       | 1                     |                |                      |
| 6.40                                  | 22.24   | 15.23                             |                                    | Steel                      | Fibreglass                            | Ousing                      |                             |   | Pumping rate -  |                       | 5.83                  | 1              | 5.46                 |
|                                       |   |                                   | 15 06                              | Plastic                    |                                       | 40                          | J. 15                       | 6 40                                    | (litres/min) 50.05  |                       |                       |                |                      |
| W<br>Water found                      | ater Rec  | ord<br>nd of Water                | 15.86                              | Galvanized                 |                                       | .48                         | +.45                        | 6.40                                    | Duration of pumping hrs + min   | 2 1                   | 6.08                  | 2              | 5.41                 |
| at Metre                              | es / '''  |                                   |                                    | Steel                      | _                                     |                             |                             |   | Final water level end   | 3 (                   | 5.21                  | 3              | 5.39                 |
| 20,72<br>Gas                          | Salty   | Minerals                          |                                    | Plastic Galvanized         |                                       |                             |                             |   | of pumping <b>7 .01</b> metres  | <del>,</del>          | 6 20                  | <u> </u>       | E 26                 |
| P                                     | b+TU  |                                   |                                    | Steel                      | Fibreglass                            |                             |                             |   | Recommended pump type. Shallow **Deep                                   | 4                     | 6.30                  | 4              | 5.36                 |
| Gas                                   | Fresh Salty   | Sulphur Minerals                  |                                    | Plastic                    | Concrete                              |                             |                             |   | Recommended pump  | 5                     | 6.35                  | 5              | 5.34                 |
| Other:                                |   | <del></del>                       |                                    | Galvanized                 | t .                                   |                             |                             |   | depth15.23 <sub>metres</sub>  |                       | 6 50                  |                | F 00                 |
| m<br>☐ Gas                            | Fresh   | Sulphur Minerals                  | Outside                            | <u> </u>                   |                                       | Screen                      |                             | <u> </u>                                | Recommended pump<br>rate. 45, 5<br>(litres/min)                         | 10<br>15              | 6.50                  |                | 5.23<br>5.16         |
| Other:                                | Gaity   | Willierars                        | diam                               |                            | Fibreglass                            | Slot No.                    |                             |   | If flowing give rate -  | 20                    | 6.69                  |                | 5.14                 |
| After test of                         |   |                                   |                                    | Plastic Galvanized         | 5 11                                  | -                           |                             |   | (litres/min)  | 25                    | 6.76                  | 25             | 5.12                 |
| Clear an                              |   | nt tree                           |                                    |                            |                                       | asing or Sc                 | reen                        |   | If pumping discontin-<br>ued, give reason.                              | 30<br>40              | 6.79<br>6.88          | _              | 5.10<br>5.07         |
|                                       |   |                                   |                                    | No hala                    | · · · · · · · · · · · · · · · · · · · | asing or oc                 |                             | ·                                       | 1   | 50                    | 6.94                  |                | 5.04                 |
| Chlorinated                           | Yes   | ∐ No                              | 15,23                              | Open hole                  |                                       | ····                        | 6.40                        | 22.24                                   |   | 60                    | 7.01                  |                | 5,02                 |
|                                       |   | ging and Se                       | ealing Reco                        | ord [                      | Annula                                |                             | Abandonment                 |   | Location  |                       |                       |                |                      |
| Depth set a<br>From                   | t - Metres<br>To  | Material and ty                   | pe (bentonite :                    | slurry, neat cei           | ment slurry                           |                             | me Placed<br>pic metres)    | In diagram belo<br>Indicate north b     | w show distances of well fi<br>y arrow.                                 | om ro                 | ad, lot line,         | and bu         | uilding.             |
| 6.40                                  | 0   | Groute                            | ed Bento                           | onite S                    | lurry                                 | 2                           | 1m3                         | 4/7                                     | 1   | ¥ 94                  | 1                     | 1              |                      |
|                                       |   |                                   |                                    |                            |                                       |                             |                             | 107                                     | 1 1   |                       | 1                     | 1              |                      |
|                                       |   |                                   |                                    |                            |                                       |                             |                             |   | 1   |                       |                       | 1              |                      |
|                                       |   |                                   |                                    |                            |                                       |                             |                             |   | •   |                       | - 1 %                 | 1              |                      |
|                                       |   |                                   |                                    |                            |                                       |                             |                             |   | <u> </u>  |                       |                       |                |                      |
| Cable To                              | 201   | Rotary                            |                                    | Constructi                 | on<br>iamond                          | Γ                           | Digging                     |   |   |                       | 8                     | 1              |                      |
| 1=                                    | convention  |                                   |                                    |                            | etting                                |                             | Other                       |   | 1   |                       | byle.                 | 551            |                      |
| ☐ Rotary (r                           | reverse)  | Boring                            | 187 -                              |                            | riving                                |                             |                             |   |   | <del></del>           |                       |                |                      |
| Domesti                               | С   | ∏Industr                          |                                    | er Use                     | ublic Supp                            | olv F                       | Other                       |   | March Rd  |                       |                       |                |                      |
| Stock                                 |   | Comm                              | ercial                             | N                          | lot used                              | _                           |                             |   |   | A . 147               | L Ocean 1 1 1         |                |                      |
| ☐ Irrigation                          | )   | Municip                           |                                    | tus of Well                |                                       | ir conditioning             |                             | Audit No. <b>Z</b>                      | 47021 Pa  | te Wel                | Completed             | ا<br>م0        | MM 188               |
| Water S                               | upply   | Recharge w                        |                                    |                            | Infinished                            | Aban                        | doned, (Other)              |   | wner's information Da   | te Deli               | vered y               | YYY            | MM . DD              |
| Observa                               | tion well   | Abandoned                         | , insufficient s<br>, poor quality |                            | ewatering<br>leplaceme                |                             |                             | package deliver                         | ed? Yes No  |                       | 20                    | do             | 17/18                |
| Test Ho                               | и <del>с</del>  |                                   |                                    | chnician Ir                |                                       |                             |                             |   | Ministry Us   |                       |                       |                |                      |
| Name of W                             |   | tor .                             |                                    |                            |                                       | ell Contractor's            | Licence No.                 | Data Source                             | Co  | ontracto              |                       | K 1            | 58                   |
| Capi<br>Business A                    | tal Wa<br>ddress (str   | ter Suppet name, num              | <b>DIY Ltd</b><br>ber, city etc.)  | <u> </u>                   | *                                     | 1558                        |                             | Date Received                           | 2 YEY 20ME DD Da  | ite of Ir             | nspection             | //YY           | MM DD                |
| Box                                   | 490 S   | tittsví                           | lle Ont                            |                            | S 1A6                                 | loll Tackers                | Licens N-                   |   | 2 3 2000  |                       |                       |                |                      |
|                                       | ame of Well Technician (last name, first name)  Well Technician's Licence No. |                                   |                                    |                            |                                       |                             |                             | Remarks                                 | W   | эн Кес                | ord Number            |                |                      |

Date Submitted YYYY MM DD 2006 7 18

Contractor's Copy Ministry's Copy Well Owner's Copy

Cette formule est disponible en français

| Ontario Ministry of the Environment  | Well Tag No. (Place Sticker an  | nd/or Print Below)   | W                                       | ell Record  |
|--|---|--|---|---|
| Untario the Environment  | 1 61 1  | Regulat  | tion 903 Ontario Wa                     |   |
|  | NT  |  | Page_                                   | of  |
| Well Owner's Information  First Name Last Name   | E-ma(il A).ddre   | ięs ?  |   | Well Constructed  |
| Mailing Address (Street Number/Name, RR)   | ents yotas  | terson 60  | $\sim \rho$                             | by Well Owner   |
| 28 on Cowse Select Number/Name, RR   | Municipality    Mean   Mean | Province Postal Co   | de ( Telephone                          | No. (inc. area code)  |
| Part A Construction and/or Major Alteration of a   |   |  |   |   |
| Address of Well Location (Street Number/Name, RR)  | Township  | Lot 11   | Concession                              | 1   |
| County/District/Municipality   | City/Town/Village   | Ch   | Province                                | Postal Code   |
| UTM Coordinates   Zone , Easting , Northing  | GPS Unit Make   Mode  | ) Made of Ossertion  | Ontario                                 |   |
| NAD   8   3   1 R 4 B 6 4 4 5 5 D D F  | SIRA Was Co   | Mode of Operation:  Differentiated, speci  | ☐ Undifferentiated<br>fy                | Averaged  |
| Overburden and Bedrock Materials (see instructions on t  |   |  |   |   |
| General Colour Most Common Material  | Other Materials   | General Description  |   | Depth (Metres)<br>From To   |
| 6" 511   | Ed Well C   | pendanman  |   | 0 040   |
|  |   |  |   |   |
|  |   |  |   |   |
|  |   |  |   |   |
|  |   |  |   |   |
|  |   |  | *************************************** |   |
|  |   |  |   |   |
|  |   | **************************************   |   |   |
| Annula Canadahan Inggar  |   |  |   |   |
| Annular Space/Abandonment Sea  Depth Set at ( <i>Metres</i> ) Type of Sealant Used   | Volume Placed   | Check box if after test of well yield,   | Well Yield Testing Draw Down            | Recovery  |
| From To (Material and Type)  | (Cubic Metres)  | water was:  Clear and sand free  | Time Water Leve                         |   |
| da 0,15 tholering  | ing the control of  | Cannot develop to sand-free state  | Static                                  | Static  |
| 0,15 0 Seil '  |   | If pumping discontinued, give reaso  | n: Level 1                              | Leyel 1   |
|  |   | Pumping test method  | 2                                       | 2   |
|  |   |  | 3                                       | 3   |
| Method of Construction   | Water Use   | Pump intake set at (Metres)  |   | 4   |
| ☐ Cable Tool     ☐ Diamond     ☐ Public       ☐ Rotary (Conventional)     ☐ Jetting     ☐ Domestic   | ☐ Commercial ☐ Not used ☐ Municipal ☐ Dewatering  | Pumping rate (Litres/min)  | 5                                       | 5   |
| ☐ Rotary (Reverse) ☐ Driving ☐ Livestock ☐ Rotary (Air) ☐ Digging ☐ Irrigation   | ☐ Test Hole ☐ Monitoring ☐ Cooling & Air Conditioning   | Duration of pumping  |   |   |
| ☐ Air percussion ☐ Boring ☐ Industrial ☐ Other, specify ☐ Other, specify   |   | hrs + min  | 10                                      | 10  |
| Status of Well   |   | Final water level end of pumping (Metres)  | _ 15                                    | 15  |
| ☐ Water Supply ☐ Dewatering Well   | Observation and/or Monitoring Hole  | Recommended pump/ype   | 20                                      | 20  |
| ☐ Replacement Well ☐ Abandoned, Insufficient Supply ☐ Test Hole ☐ Abandoned, Poor Water Quality  | ☐ Alteration (Construction) ☐ Other, <i>specify</i>   | ☐ Shallow ☐ Deep   | 25                                      | 25  |
| Recharge Well  |   | Recommended pump depth  Metres   | 30                                      | 30  |
| Please provide a map below showing:  |   | Recommended pump rate (Litres/min)   | 40                                      | 40  |
| <ul> <li>all property boundaries, and measurements sufficient to locate the an arrow indicating the North direction</li> </ul>                         | /V'/  | If flowing give rate   | 50                                      | 50.   |
| <ul> <li>detailed drawings can be provided as attachments no larger that</li> <li>vidigital pictures of inside of well can also be provided</li> </ul> |   | (Litres/min)   | 60                                      | 60  |
| 188#   | March Road  | Wat  | er Details                              |   |
|  | Mard D  | ,  | l of Water<br>resh                      | Ilphur Minerals   |
| V135   | , lood  | The state of the s | of Water                                | ipital [milotalo  |
| <b>Ø</b>   |   |  | resh Salty Su                           | llphur Minerals   |
|  | Sec.  |  | l of Water<br>resh    □Salty    □Su     | ılphur  |
| ×181   |   | Casing Used   Screen Use   | ed Casing an                            | d Well Details  |
| House  |   | Galvanized Galvanized  | Diameter of the I-                      | lole (Centimetres)  |
| salle 7  |   | Steel Steel Steel Fibreglass   | Depth of the Hole                       | (Metres)  |
| (yyyy/mm/dd) package delivered? De   | ite the Well Record and Package<br>livered to Well Owner (yyyy/mm/dd)   | Plastic Plastic Concrete   | Wall Thickness (i                       | Metres  |
| 900 1 01 - 02   Yes XI No  | 2007-08-27  | No Casing and Screen Use   | d                                       |   |
| Well Contractor and Well Technicia Business Name of Well Contractor  | n Information Well Contractor's Licence No.   | Open Hole  | Inside Diameter of                      | of the Casing (Metres)  |
| AIRROCK DRUING COLT  | DILIA   | Disinfected?   | Depth of the Cas                        | ing (Metres)  |
| Business Address (Street No./Name, number, RR)   | Monicipality<br>NCHMOND   | Yes No   | <u> </u>                                |   |
| Province Postal Code Business E-mail Add   |   | Audit No. CO170  | ry Use Only Well Contractor No.         |   |
| Bus Telephone No. (inc. area and Name of Wall Telephone (in  | et Nomo Eirot Norra   | Z DUL/Z  |   | 9   |
| Bus.Telephone No. (inc. area code) Name of Well Technician (La   | st Name, First Name)  | Date Received (1/2007)/dd)   | Date of Inspection (y)                  | vyy/mm/dd)  |
| Well Jechnician's Licence No. Signature of Technician  | Pate Submitted (yyyy/mm/dd)   | Remarks  |   |   |
| 0506E (11/2006)  | 067.07-00<br>Ministry's Conv  |  | @ O                                     | Printer for Ontario 200   |
|  | BEFFEEL B 200 AS BE SOURCE  |  | ⊕ Gueens i                              | THE REAL PROPERTY OF THE PARTY |

| ♥ Onta   | Ario Minist                        | try of<br>nvironmer |              | Well Ta      | g No. (Pla                  | ace Stic   | cker and/          | or Print B           | Below)                    | Regul                       | ation  | 903 Or          |                      | ter Reso            | ecord                    |
|--|------------------------------------|---------------------|--------------|--------------|-----------------------------|------------|--------------------|----------------------|---------------------------|-----------------------------|--------|-----------------|----------------------|---------------------|--------------------------|
| Well Owner's Inf   |                                    |                     |              |              |                             |            |                    |                      |                           |                             |        | - 1             | THE                  | W-II C-             | alayota d                |
| First Name McKeown Cons  |                                    | ast Name            |              |              |                             | E-mai      | il Address         | S                    |                           |                             |        |                 |                      | Well Cor<br>by Well | Owner                    |
| Mailing Address (Stre  | eet Number/Name,                   | RR)                 |              | Municip      | , i                         |            |                    | Provi                |                           | Postal (                    |        |                 | ,                    |                     | area code)<br>4   80  8  |
| P.O. Box 296<br>Part A Construct   |                                    | r Alteration        | on of a V    |              | eely                        |            |                    | On                   | tario                     | K   4P                      | 1 1    | 13 0            | 15 0                 | 2 1                 | 4 00 0                   |
| Address of Well Loca   | ation (Street Number               |                     |              |              | Township                    |            | Va                 | nata                 |                           | Lot 10                      | 0      | C               | concession           | 3                   |                          |
| 846 March Ro<br>County/District/Muni                                       |                                    |                     |              |              | City/Town                   | /Village   |                    | lliata               |                           |                             |        | Provinc         | e                    | Postal              |                          |
| Ottawa Carle   |                                    | Al-di               |              |              |                             |            |                    | nata                 | Made of                   | Occapion                    |        | Onta            |                      |                     |                          |
| UTM Coordinates   Z  | Cone Easting                       | North               |              |              | PS Unit Ma                  |            | Model<br>GArmi     | n                    |                           | Operation:<br>entiated, spe |        | Undiffer        | entiated             | Ave                 | raged                    |
| Overburden and B   |                                    |                     | tions on the | e back of    |                             |            | OH III             |                      |                           |                             |        |                 |                      | Depth               | (Metres)                 |
| General Colour   | Most Common Ma                     | iterial             |              | Other Ma     | terials                     |            |                    |                      | General [                 | Description                 |        |                 |                      | From                | To                       |
|  |                                    |                     |              |              |                             |            |                    |                      |                           |                             |        |                 |                      |                     |                          |
|  |                                    |                     |              |              | 1 E E                       |            |                    |                      |                           |                             |        |                 |                      |                     |                          |
|  |                                    |                     |              |              |                             | -          |                    |                      |                           |                             | -      |                 |                      |                     |                          |
|  |                                    |                     |              |              |                             |            |                    |                      |                           |                             |        |                 |                      |                     |                          |
|  |                                    |                     |              |              |                             |            |                    |                      |                           |                             |        |                 |                      |                     |                          |
|  |                                    |                     |              |              |                             |            |                    |                      |                           |                             |        |                 |                      |                     |                          |
|  |                                    |                     |              |              |                             |            |                    |                      |                           |                             |        |                 |                      |                     |                          |
|  |                                    |                     |              |              |                             | 1          |                    |                      |                           |                             |        |                 |                      |                     |                          |
|  | Annular Space/                     | Abandonr            | ment Sea     | ling Rec     | ord                         |            |                    |                      |                           | Results                     | of We  | ell Yield       | d Testing            |                     |                          |
| Depth Set at (Matres   |                                    | pe of Seala         |              |              |                             | olume P    |                    | Check bo<br>water wa |                           | st of well yie              | ld,    | _               | Water Lev            | _                   | ecovery<br>Water Level   |
| 16 76 0  | Grouted -                          | Rontor              | nite         | 3/4 i        | nch Ho                      | 1e P       | 1110               | _                    | ar and sand<br>not develo | d free<br>p to sand-fr      | ee     | (Min)<br>Static | (Metres)             | (Min)<br>Static     | (Metres)                 |
| 16.76 0  | Grouted                            | Dentoi              | iiice,       | 3/4 1        |                             | bags       | - (                | state                | е                         | ued, give re                |        | Level           |                      | Level               |                          |
|  |                                    |                     |              |              |                             | Dags       |                    |                      |                           |                             |        | 1               |                      | 1                   |                          |
|  |                                    |                     |              |              |                             |            |                    | Pumping              | g test meth               | od                          |        | 2               |                      | 2                   |                          |
| Method of C  | Construction                       |                     |              | Water        | Use                         | 125, 775   |                    | Pump in              | take set at               | (Metres)                    |        | 3               |                      | 3                   |                          |
| Cable Tool   | Diamond                            | ☐ Publi             |              | Com          |                             | □ No       | t used<br>watering | Pumping              | g rate (Litre             | es/min)                     |        | 4               |                      | 4                   |                          |
| Rotary (Convention Rotary (Reverse)  | Driving                            | Lives               | stock        | ☐ Test       | Hole                        | ☐ Mo       | nitoring           | , diriping           | g rato (care              |                             |        | 5               |                      | 5                   |                          |
| Rotary (Air) Air percussion  | ☐ Digging ☐ Boring                 | ☐ Irriga            |              | Cooli        | ng & Air Cor                | nditionin  | g                  |                      | ı of pumpir<br>hrs +      | ng<br>min                   |        | 10              |                      | 10                  |                          |
| Other, specify   |                                    | Status of           | we, specify_ |              |                             |            |                    |                      |                           | d of pumping                | 9      | 15              |                      | 15                  |                          |
| ☐ Water Supply   | Dewatering                         |                     | AAGII        | Obse         | rvation and/o               | or Monito  | oring Hole         | (Metres)             | mended pu                 | mp type                     |        | 20              |                      | 20                  |                          |
| Replacement Well Test Hole   | Abandoned Abandoned                |                     |              |              | ation (Consti<br>r, specify | ruction)   |                    | Sha                  | allow                     | Deep                        |        | 25              |                      | 25                  |                          |
| Recharge Well  | Abandoned                          | , other, spec       | cify         |              |                             |            |                    | Recomm               | mended pu<br>Metro        |                             |        | 30              |                      | 30                  |                          |
| Please provide a map   |                                    | Location of         | of Well      |              |                             |            |                    | Recomm<br>/Litres/m  | mended pu                 |                             |        | 40              |                      | 40                  |                          |
| <ul> <li>all property boundaries</li> <li>an arrow indicating t</li> </ul> | the North direction                |                     |              |              |                             |            | nts.               |                      | g give rate               |                             |        | 50              |                      | 50                  |                          |
| <ul> <li>detailed drawings ca</li> <li>vidigital pictures of ir</li> </ul> |                                    |                     |              | an legal siz | te (8.5" by 1               | 4")        | R                  | (Litres/n            | า๊เก)                     |                             |        | 60              |                      | 60                  |                          |
|  |                                    |                     |              |              |                             |            | •                  |                      |                           |                             |        | r Detai         |                      |                     |                          |
|  | -                                  |                     |              |              |                             |            |                    | water                | found at D<br>Metres      | Company on the              |        | of Wate         |                      | Sulphur             | Minerals                 |
|  | #                                  | 846                 |              |              | ٤                           |            |                    | Water                | found at D                | Action to the               |        | of Wate         |                      | Culphur             | Minerals                 |
|  |                                    | 0 1-                | Ø            | 0            | 7                           |            |                    | Water                | Metres<br>found at D      | Gas                         |        | of Wate         | 77112                | Sulpriur            | L_IMITIOTALS             |
|  |                                    |                     |              | -            | 5                           |            |                    |                      | Metres                    | Gas                         | Fr     | esh [           | Salty _              | Sulphur             | Minerals                 |
|  |                                    |                     |              | - 2          | 6                           |            |                    |                      | ing Used                  |                             |        | _               |                      |                     | I Details<br>entimetres) |
|  |                                    |                     |              |              |                             |            |                    | Steel                | anized                    | Galvani<br>Steel            | zea    |                 |                      |                     |                          |
| Date Well Complete   | ed   Was the well ow               | nor's informs       | ation D      | ate the W    | ell Record a                | and Pack   | kane               | Fibre                | _                         | Fibregla                    |        | De              | pth of the h         | tole (Metr          | es)                      |
| (yyyy/mm/dd)   | package delivered                  |                     | D            | Delivered to | o Well Owne                 | er (yyyy/r | mm/dd)             | Conc                 |                           | Concre                      |        | W               | all Thicknes         | s (Metres           | )                        |
| 2008/3/3   | Well Contractor                    |                     |              | ian Infor    | mation                      |            |                    |                      |                           | nd Screen                   | Use    | Ins             | side Diamet          | er of the C         | Casing (Metres)          |
| Business Name of V   | Vell Contractor                    |                     |              |              | Well Contrac                |            |                    | Disinfect            | pen Hole<br>ted?          |                             |        | D.              | opth of the (        | asing (14           | etres)                   |
| Capital Wat<br>Business Address (S   | er Supply I<br>Street No./Name, nu | Ltd.<br>Imber, RR)  |              | Muni         | 1 5<br>cipality             | 5          | 8                  | X Ye                 | -                         |                             |        | De              | puror ne t           | Jeaning (M          | 0.000)                   |
| Box 490  | Poetal Code                        | During              | E meil 4 d   |              | tittsv                      | ille       |                    | Audit b              | 2                         |                             | inistr | y Use           | Only<br>contractor N | lo.                 |                          |
| Province   | Postal Code                        | business            | E-mail Ad    | uress        |                             |            |                    | Audit No             | z 77                      | 317                         |        | AVEIL C         | JIM ACIOI I          |                     |                          |

Ontario K 2 S 1 A 6 office capitalwater.ca
Bus.Telephone No. (inc. area code) Name of Well Technician (Last Name, First Name) 6 13 8 3 61 7 6 6 Miller, Stephen Well Technician's Licence No. Signature of Technician 0506E (11/2006)

Date Submitted (yyyy/mm/dd) Remarks

Ministry's Copy

2008/3/3

Date Received (yyyamay/dd)

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Date of Inspection (yyyy/mm/dd)

| Ontario                  | Ministry of the Environ | ment       |
|--------------------------|-------------------------|------------|
| Measurements recorded in | : X Metric              | _ Imperi   |
| Well Owner's Informat    | ion                     | SHARE      |
| First Name               | Last Na                 | me / Organ |

McKeown Contracting
Mailing Address (Street Number/Name)

2878 Stagecoach Road

| Well                | Tag No. (Place              | e Sticker and                           | f/or Print Below)                   | Regulation      | 1 903 C       |                      | iter Res | Record<br>sources Act    |
|---------------------|-----------------------------|---|-------------------------------------|-----------------|---------------|----------------------|----------|--------------------------|
|                     |                             |   |                                     |                 | 1524          |                      |          |                          |
| zation              |                             |   | E-mail Address                      |                 |               | [                    |          | Constructed<br>ell Owner |
|                     | Municipality                |   | Province                            | Postal Code     |               | Telephone            |          |                          |
|                     | Greely                      |   | Ontario                             | K O A 2         | w o           | 613 8                | 321 4    | 808                      |
|                     |                             |   |                                     |                 | HHA           |                      |          |                          |
|                     | Township                    |   |                                     | Lot             |               | Concession           | п        |                          |
|                     | Kanata<br>City/Town/Villa   | age                                     |                                     | 11              | Provin        | ice 4                | Posta    | Code                     |
|                     | Kanata                      |   |                                     |                 | Onta          | ario                 |          |                          |
|                     | Municipal Pla               | n and Sublot                            | Number                              |                 | Other         |                      |          |                          |
| 3 1 25<br>Sealing R | ecord (see instru           | ctions on the b                         | ack of this form)                   |                 | 91124         |                      | 4111111  |                          |
| - Country           | Other Materials             |   |                                     | ral Description |               |                      | Dep      | th (m/ft)                |
|                     |                             |   |                                     |                 |               |                      |          |                          |
|                     |                             |   |                                     |                 |               |                      |          |                          |
|                     |                             |   |                                     |                 |               |                      |          |                          |
|                     |                             |   |                                     |                 |               |                      |          |                          |
|                     |                             |   |                                     |                 |               |                      |          |                          |
|                     |                             |   |                                     |                 |               |                      |          |                          |
|                     |                             |   |                                     |                 |               |                      |          |                          |
|                     |                             |   |                                     |                 |               |                      |          |                          |
|                     |                             |   |                                     |                 |               |                      |          |                          |
|                     |                             |   |                                     |                 |               |                      |          |                          |
|                     |                             |   | sustenna attack                     | Results of We   | ell Yiel      | d Testing            | 16321131 |                          |
| ed                  | Volume                      |   | After test of well yield,           | water was:      | Dr            | aw Down              | R        | ecovery                  |
| )                   | (m <sup>3</sup> )           | 1 1 2 1                                 | ☐ Clear and sand f ☐ Other, specify | ree             | Time<br>(min) | Water Leve<br>(m/ft) | el Time  | Water Level<br>(m/ft)    |
| /8" Ho              | le Plug (1                  | 2 bags)                                 | If pumping discontinue              | d. give reason: | Static        | -                    | 1        |                          |
|                     |                             | 2000                                    |                                     |                 | Level         |                      | 1        |                          |
|                     |                             |   | Pump intake set at (r               | n/#)            | -             |                      | -        |                          |
|                     |                             |   | Fump make set at (r                 | wit)            | 2             |                      | 2        |                          |
| Wall                | l Use                       | 154111111111111111111111111111111111111 | Pumping rate (Vmin /                | GPM)            | 3             |                      | 3        |                          |
|                     |                             | Not used                                |                                     |                 | 4             |                      | 4        |                          |
| Mur                 | nicipal                     | Dewatering                              | Duration of pumping<br>hrs + r      | nin             | 5             |                      | 5        |                          |
|                     | it Hole                     | Monitoring                              | Final water level end of            |                 |               |                      | -        |                          |
|                     |                             |   |                                     | , , ,           | 10            |                      | 10       |                          |
| ecify               |                             |   | If flowing give rate (Vi            | nin-/ GPM)      | 15            |                      | 15       |                          |
| Depth (m/ft)        | Status Status               |   | Possersonded                        | donth (mitte    | 20            |                      | 20       |                          |
| m To                | ☐ Water S<br>☐ Replace      | ment Well                               | Recommended pump                    | дери (т/т)      | 25            |                      | 25       |                          |
| 10                  | Test Ho                     |   | Recommended pump                    | rate            | 30            |                      | 30       |                          |
|                     | Recharg                     | ing Well                                | (Vmin / GPM)                        |                 |               |                      |          |                          |
|                     | Observa                     | tion and/or                             | Well production (l/mir              | (GPM)           | 40            |                      | 40       |                          |
|                     | Monitorir  Alteratio        | n                                       | Disinfected?                        |                 | 50            |                      | 50       |                          |
|                     | (Constru                    |   | Yes No                              |                 | 60            |                      | 60       |                          |
| ******              | Insufficie                  | ent Supply                              |                                     | Map of W        | ell Loc       | cation               |          | MINER                    |
| Depth (m/ft)        | Water C                     | ned, Poor<br>luality                    | Please provide a map                |                 |               |                      | back.    | _                        |
| m To                | ← Abando                    | ned, other,                             |                                     |                 |               |                      |          | 1                        |
|                     | Specify                     |   |                                     |                 |               |                      |          | 1                        |
|                     | Other, s                    | pecify                                  |                                     |                 |               |                      |          |                          |
|                     |                             |   |                                     |                 | -             |                      |          |                          |
| ested               | Hole Diamet<br>Depth (m/ft) | Diameter                                |                                     | # 856           | 0             |                      |          |                          |
| Fro                 |                             | (cm/in)                                 |                                     |                 |               |                      |          |                          |
| ested               |                             |   | ~                                   |                 | 8             |                      |          |                          |
|                     |                             |   | α                                   | 3               |               |                      |          |                          |
| ested —             |                             |   |                                     |                 |               |                      |          |                          |
|                     |                             |   | 9                                   |                 | -             |                      |          |                          |

| Address of W   |                 | tion (Street Nur                    | nber/Name)                   |                | T                     | ownship                  | REMERCE                  |   | Lot                 | £12523     | Concession   |            | 4275111277        |
|--|-----------------|-------------------------------------|------------------------------|----------------|-----------------------|--------------------------|--------------------------|---|---------------------|------------|--|------------|-------------------|
| 856 Marc   |                 |                                     | nibel/14aine)                |                |                       |                          |                          |   |                     |            |  |            |                   |
| County/Distri  |                 |                                     |                              |                | С                     | Kanata<br>ity/Town/Villa | ige                      |   | 11                  | Provin     | ce 4   | Postal     | Code              |
| Ottawa (   | Carle           | ton                                 |                              |                |                       | Kanata                   |                          |   |                     | Onta       | ario   |            |                   |
| UTM Coordina   |                 | _                                   |                              | rthing         | M                     | lunicipal Plan           | and Sublo                | ot Number                               |                     | Other      |  |            |                   |
| NAD 8  | 3 3 1           | 8 4 26 7                            | 3 0 5                        |                | 25                    | 4                        |                          |   |                     | ED BOOK ST |  | 133111     |                   |
|  | _               |                                     | non Material                 | nment Sealir   |                       | er Materials             | tions on the             | back of this form)                      | neral Description   | Hill III   | NEVERTILISA:   | Dept       | h ( <i>m/ft</i> ) |
| General Cold   | our             | Most Comn                           | non Material                 |                | Otne                  | er materials             |                          |   | nerai Description   |            |  | From       | To                |
|  |                 |                                     |                              |                |                       |                          |                          |   |                     |            |  |            |                   |
|  |                 |                                     |                              |                |                       |                          |                          |   |                     |            |  |            |                   |
|  |                 |                                     |                              |                |                       |                          |                          |   |                     |            |  |            |                   |
|  |                 |                                     |                              |                |                       |                          |                          |   |                     |            |  |            |                   |
|  |                 |                                     |                              |                |                       |                          |                          |   |                     | -          |  |            |                   |
|  |                 |                                     |                              |                |                       |                          |                          |   |                     |            |  |            |                   |
|  |                 |                                     |                              |                |                       |                          |                          |   |                     |            |  |            |                   |
|  |                 |                                     |                              |                |                       |                          |                          |   |                     |            |  |            |                   |
|  |                 |                                     |                              |                |                       |                          |                          |   |                     |            |  |            |                   |
|  |                 |                                     |                              |                |                       |                          | -                        |   |                     |            |  |            |                   |
|  |                 |                                     |                              |                |                       | _                        |                          |   |                     |            |  |            |                   |
|  |                 |                                     | Annular                      | Space          |                       |                          |                          | HATE STREET                             | Results of We       | -          | The state of the s |            |                   |
| Depth Set a  | at (m/ft)<br>To |                                     | Type of Sea<br>(Material and |                |                       | Volume I<br>(m³/l        |                          | After test of well yiel  Clear and sand |                     | Time       | aw Down<br>Water Level   |            | Water Level       |
|  |                 |                                     |                              |                |                       | 1 1 1 1 1 1 1 1 1        | 1 1 1 1                  | Other encells                           | i iree              | (min)      | (m/ft)   | (min)      | (m/ft)            |
| 15.54  | 0               | Grouted                             | Bentoni                      | te 3/8"        | Hole                  | Plug (1:                 | 2 bags                   | If pumping discontin                    | ued, give reason:   | Static     | -  |            |                   |
|  |                 |                                     |                              |                |                       |                          |                          |   |                     | Level      |  | 4          |                   |
|  |                 |                                     |                              |                |                       |                          | 100                      |   |                     | 1          |  | 1          |                   |
|  |                 |                                     |                              |                |                       |                          |                          | Pump intake set at                      | (m/ft)              | 2          |  | 2          |                   |
|  | _               |                                     |                              |                |                       | 1000                     | <u> </u>                 | Pumping rate (Vmir                      | /CDM                | 3          |  | 3          |                   |
| Metho  | od of C         | onstruction                         |                              |                | Well Us               | 9                        |                          | Pumping rate (vmir                      | 17 GPM)             | -          |  |            |                   |
| Cable Tool   |                 | Diamond                             |                              |                | Commer                |                          | Not used                 | Duration of pumpir                      | ng                  | 4          |  | 4          |                   |
| Rotary (Co   |                 | al) Jetting Driving                 | ☐ Live                       |                | Municipa<br>Test Hole |                          | Dewatering<br>Monitoring | hrs +                                   | min                 | 5          |  | 5          |                   |
| Boring   | ,,,,,,,         | Digging                             | ☐ Irrig                      |                |                       | & Air Condition          |                          | Final water level end                   | d of pumping (m/ft) | 10         |  | 10         |                   |
| Air percuss  |                 |                                     | ☐ Ind                        |                |                       |                          |                          |   |                     |            |  |            |                   |
| Other, spe   |                 |                                     |                              | er, specify    |                       |                          |                          | If flowing give rate                    | (Vmin-/ GPM)        | 15         |  | 15         |                   |
| number 1   |                 | onstruction R                       |                              |                | - (73)                | Status                   |                          |   | - H- (- 190)        | 20         |  | 20         |                   |
| Inside<br>Diameter   |                 | ole OR Material<br>zed, Fibreglass, | Wall<br>Thickness            | Depth (n       |                       | Water Su                 |                          | Recommended pu                          | mp depth (m/ft)     | 25         |  | 25         |                   |
| (cm/in)  | Concrete        | e, Plastic, Steel)                  | (cm/in)                      | From           | То                    | Test Hole                |                          | Recommended pu                          | mo rate             | -          |  | -          |                   |
|  |                 |                                     |                              |                |                       | Recharge                 |                          | (Vmin / GPM)                            | mp rate             | 30         |  | 30         |                   |
|  |                 |                                     |                              |                |                       | Dewateri Observati       | - 1                      | Well production (V)                     | nin / CRM           | 40         |  | 40         |                   |
|  |                 |                                     |                              |                |                       | Monitoring               | g Hole                   | Well production (I//                    | nui / Grw)          | 50         |  | 50         |                   |
|  |                 |                                     |                              |                |                       | Alteration<br>(Constru   |                          | Disinfected?                            |                     | -          |  |            |                   |
|  |                 |                                     |                              |                |                       | Abandon                  | ied,                     | Yes No                                  |                     | 60         |  | 60         |                   |
| MENRIO   | (               | Construction R                      | ecord - Scre                 | en             |                       | Insufficie Abandon       | ent Supply<br>ned. Poor  |   | Map of W            |            |  |            |                   |
| Outside  |                 | Material                            | Slot No.                     | Depth (n       | n/ft)                 | Water Qu                 | uality                   | Please provide a m                      | ap below following  | instruct   | ions on the b  | ack.       | 0                 |
| Diameter<br>(cm/in)  | (Plastic, G     | Salvanized, Steel)                  | SIOL NO.                     | From           | То                    | X Abandon specify        | ed, other,               |   |                     |            |  |            | 4                 |
|  |                 |                                     |                              |                |                       |                          |                          | ]                                       |                     |            |  |            | *                 |
|  |                 |                                     |                              |                |                       | Other, sp                | pecify                   |   |                     |            |  |            |                   |
|  |                 |                                     |                              |                |                       |                          |                          |   |                     | -          |  |            |                   |
| CLUE SERVICE S |                 | Water De                            |                              |                |                       | ole Diamete              |                          | 1                                       | # 850               | 0          |  |            |                   |
|  |                 | h Kind of Wate                      |                              | Untested       | From                  | h ( <i>m/ft)</i><br>  To | Diameter<br>(cm/in)      |   |                     |            |  |            |                   |
|  |                 | S Other, spe<br>h Kind of Wate      |                              | Untested       |                       |                          |                          |   |                     | 0          |  |            |                   |
|  |                 | s Other, spe                        |                              | Ontostou       |                       |                          |                          |   | Z                   |            |  |            |                   |
|  |                 | h Kind of Wate                      |                              | Untested       |                       |                          |                          |   | A                   |            |  |            |                   |
|  | ft) Ga          |                                     |                              |                |                       |                          |                          |   | g                   | -          |  |            |                   |
| Radinali   | V               | Vell Contracto                      | or and Well                  | Technician I   | nformat               | ion                      | BHIMBI                   | il                                      | 2                   |            |  |            |                   |
| Business Nar   | me of W         | ell Contractor                      |                              |                | We                    | Il Contractor's L        | Licence No.              | 11                                      |                     |            |  |            |                   |
|  |                 | r Supply                            |                              |                | 1                     | . 5                      | 5 8                      |   |                     |            |  |            |                   |
|  |                 | reet Number/Na                      | ıme)                         |                |                       | nicipality               |                          | Comments:                               |                     |            |  |            |                   |
| Box 490  |                 | Poetal Carl                         | Development                  | E-mail Add-    |                       | ittsvil                  | 1e                       |   |                     |            |  |            |                   |
| Province   |                 | Postal Code                         |                              | E-mail Addres  |                       |                          |                          | Well owner's Date                       | e Package Delivere  | ed ]       | Miniet   | ry Use     | Only              |
| Ontario<br>Bus Telephon  | e No. (in       | 2 S 1 A<br>c. area code) Na         | o of the                     | ce 🕜 car       | oitalw<br>st Name     | rater.ca                 |                          | information                             |                     |            | Audit No. 7  | 0.4        | 200               |
|  |                 | 1 7 6 6                             |                              |                |                       |                          |                          | I delivered                             | Y Y Y M M           |            |  | 84         | 393               |
| Well Technician  | n's Licena      | e No. Signature                     | of Technicia                 | n and/or Conti | ractor Dat            | e Submitted              |                          | Yes                                     |                     | - 1        | UU   | 14         | 2008              |
| 0 0  | 9               | 7 Kal                               | whyn                         |                | 2                     | 0080                     | 908                      | X No 2                                  | 0,0,8,0,9           | 95         | Received   |            |                   |
| 0506E (12/2007   | ")              | 490                                 |                              | V              |                       | Ministry                 |                          |   |                     |            | © Queen's  | Printer fo | r Ontario, 2007   |
|  |                 |                                     |                              |                |                       |                          |                          |   |                     |            |  |            |                   |

| Ontario Ministry the Env   | y of Well T  | ag No. (Place Sticker and  | , l   |                              | ell Red                      |             |
|--|--|--|---|------------------------------|------------------------------|-------------|
| Measurements recorded in:  | etric Imperial   |  | Regulation  | on 903 Ontario W<br>Page     |                              | ces Ac      |
| Well Owner's Information   | HIPPHARIES AND AND   |  |   | 1 age                        |                              |             |
| First Name La McKeown Contracting  | ast Name / Organization  |  | E-mail Address  | [                            | Well Consi                   |             |
| Mailing Address (Street Number/Name  | e)   | Municipality   | Province Postal Cod                                       | e Telephone                  | by Well Ov<br>No. (inc. area |             |
| 2878 Stagecoach Road<br>Well Location  |  | Greely   | Ontario K O A   | W 0 613                      | 822 2599                     |             |
| Address of Well Location (Street Numl  | ber/Name)  | Township   | Lot   | Concession                   | n                            | HHID        |
| 860 March Road County/District/Municipality  |  | Kanata<br>City/Town/Village  | 11  | 4<br>Province                | Postal Cod                   | do          |
| Ottawa Carleton  |  | Kanata   |   | Ontario                      | Postal Cou                   |             |
| VTM Coordinates   Zone   Easting   | Northing<br>5023143  | Municipal Plan and Sublot  | Number  | Other                        |                              |             |
| Overburden and Bedrock Material  | Is/Abandonment Sealing Rec   | cord (see instructions on the b  | eack of this form)  |                              |                              |             |
| General Colour Most Commo  | on Material O  | ther Materials   | General Description                                       | n                            | Depth (m.<br>From            | 1∕ft)<br>To |
|  |  |  |   |                              |                              |             |
|  |  |  |   |                              |                              |             |
|  |  |  |   |                              |                              |             |
|  |  |  |   |                              |                              |             |
|  |  |  |   |                              |                              |             |
|  |  |  |   |                              |                              |             |
|  |  |  |   |                              |                              |             |
|  |  |  |   |                              |                              |             |
|  | Annular Space  |  |   | ell Yield Testing            |                              | i Bank      |
|  | Type of Sealant Used<br>(Material and Type)  | Volume Placed<br>(m³/ft³)  | After test of well yield, water was:  Clear and sand free | Draw Down<br>Time Water Leve | Recove                       |             |
| 9.44 0 Grouted B   | Bentonite 3/8" Hole  | Plug (5 bags)  | Other, specify  | (min) (m/ft)                 |                              | n/ft)       |
|  |  |  | If pumping discontinued, give reason                      | Static<br>Level              | 1 2                          |             |
|  |  |  | Dumm Intoles aut at (m/ft)                                | 1                            | 1                            |             |
|  |  |  | Pump intake set at (m/ft)                                 | 2                            | 2                            |             |
| Method of Construction   | Well U   | se   | Pumping rate (l/min / GPM)                                | 3                            | 3                            |             |
| ☐ Cable Tool ☐ Diamond ☐ Rotary (Conventional) ☐ Jetting                           | Public Comm  | The state of the s | Duration of pumping                                       | 4                            | 4                            |             |
| Rotary (Reverse) Driving   | Livestock Test H   | ole Monitoring   | hrs + min   | 5                            | 5                            |             |
| ☐ Boring ☐ Digging ☐ Air percussion  | ☐ Irrigation ☐ Cooling ☐ Industrial  | g & Air Conditioning   | Final water level end of pumping (m/fi                    | 10                           | 10                           |             |
| Other, specify   | Other, specify   |  | If flowing give rate (I/min-/ GPM)                        | 15                           | 15                           |             |
| Inside Open Hole OR Material   | Wall Depth (m/ft)  | Status of Well Water Supply  | Recommended pump depth (m/ft)                             | 20                           | 20                           |             |
| Diameter (Galvanized, Fibreglass, Concrete, Plastic, Steel)                        | Thickness (cm/in) From To  | Replacement Well Test Hole   |   | 25                           | 25                           |             |
|  |  | Recharge Well  | Recommended pump rate<br>(Vmin / GPM)                     | 30                           | 30                           |             |
|  |  | Dewatering Well Observation and/or   | Well production (I/min / GPM)                             | 40                           | 40                           |             |
|  |  | Monitoring Hole  Alteration  | Disinfected?  | 50                           | 50                           |             |
|  |  | Abandoned,   | Yes No  | 60                           | 60                           |             |
| Outside Construction Rec   | AND THE PERSON NAMED IN COLUMN 2 IN COLUMN | Insufficient Supply Abandoned, Poor  |   | ell Location                 |                              |             |
| Diameter<br>(cm/in) (Plastic, Galvanized, Steel)                                   | Slot No. Depth (m/ft) From To  | Abandoned, other,  | Please provide a map below following                      | instructions on the t        | ack.                         |             |
|  |  | 1 specify  | \$  |                              |                              |             |
|  |  | Other, specify   |   |                              |                              |             |
| Water Detai  | ils  | Hole Diameter  |   |                              |                              |             |
| Water found at Depth Kind of Water:  | Fresh Untested Dep   | pth (m/ft) Diameter To (cm/in)   | -, 0  |                              |                              |             |
| (m/ft) Gas Other, specifical Water found at Depth Kind of Water:                   | fy   | 10 ()  | # 360 C   | 2                            |                              |             |
| (m/ft) Gas Other, specif   |  |  | 88  |                              |                              |             |
| Water found at Depth Kind of Water: [ (m/ft) Gas Other, specif                     |  |  | -5  |                              |                              |             |
|  | and Well Technician Informa  | ation  | b   |                              |                              |             |
| Business Name of Well Contractor   |  | /ell Contractor's Licence No.  | 2   |                              |                              |             |
| Capital Water Supply I Business Address (Street Number/Name                        |  | unicipality 5 8  | Comments:   |                              |                              |             |
| Box 490 Province Postal Code   | Rusiness E mail 6 data   | Stittsville  |   |                              |                              |             |
| Province Postal Code  Ontario K 2 S 1 A 6  Bus.Telephone No. (inc. area code) Name | office Ocapital  | water.ca   | Well owner's Date Package Deliver                         | Audit No.                    | try Use Only                 | У           |
| 6 1 3 8 3 6 1 7 6 6 M<br>Well Technician's Licence No. Signature of                |  |  | delivered Date Work Completed                             | D D                          | 843                          | 92          |
| 0 0 9 7  |  | ate Submitted  | Yes 2 0 0 8 0 9   | 13-22-1 M Set                | 1 - 2008                     |             |
| 0506E (12/2007)  |  | Ministry's Copy  |   |                              | Printer for Ontar            | rio, 2007   |

Ministry of the Environment

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

| Well | Record |
|------|--------|
|------|--------|

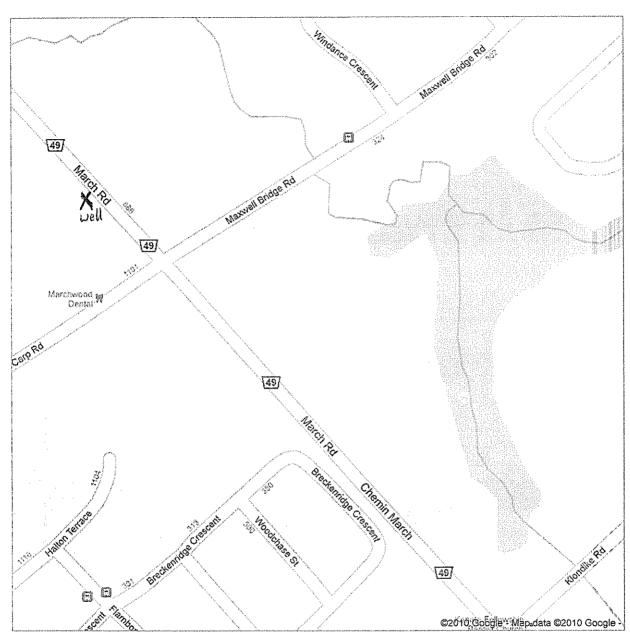
Regulation 903 Ontario Water Resources Act

| Weastrem                   |                      |   |                        | 52505'8046740'80'98'8          |                        | sivasi amaa sakaa                      |   |                             |                          | AUSSYA 025S 6.48 | ray                         |                   | _ 01 1                             |
|----------------------------|----------------------|---|------------------------|--------------------------------|------------------------|--|---|-----------------------------|--------------------------|------------------|-----------------------------|-------------------|------------------------------------|
| First Name                 | was en empere restel | nformation  | Last Name (C           |                                | . 1                    |  |   | E-mail Address              |                          |                  |                             |                   | Constructed                        |
|                            |                      | treet Number/Na   |                        | 84                             | Ottawa 1               | Municipality                           |   | Province                    | Postal Code              |                  |                             | e No. (inc        | /ell Owner<br>. area code)         |
|                            |                      | lation Cresc  | ent                    |                                |                        | Ottav                                  | a                                       | Ontwi                       | ) [14] 1[G] 6            | 2 8              | 6 1 3                       | 5   8   0         | 2141010                            |
| Well Loca                  | eraniyan din kedib   | cation (Street Nu   | imber/Name)            |                                |                        | Township                               |   |                             | Lot                      | I                | Concess                     | ion               |                                    |
| 895                        |                      |   |                        |                                |                        |  |   |                             |                          |                  |                             |                   |                                    |
| County/Dis                 | trict/Mu             | nicipality  |                        |                                | (                      | City/Town/Vi                           |   | Ţ                           |                          | Provir<br>Ont    |                             |                   | al Code                            |
| UTM Coord                  | inates L             | Zone , Easting  | . No                   | rthing                         | 1                      | Municipal Pla                          | Kana<br>an and Suble                    |                             |                          | Other            |                             | 10 1              | K    X 7                           |
|                            |                      | 18426   |                        |                                | 1                      |  |   |                             |                          |                  |                             |                   |                                    |
|                            |                      | Bedrock Mater   |                        |                                |                        | ord (see instr                         | uctions on the                          | back of this form           |                          |                  |                             | Do                | oth (m/ft)                         |
| General C                  | olour                | Most Com  | mon Material           |                                |                        | ner Materials                          |   |                             | General Description      |                  |                             | From              | pth ( <i>m/ft)</i>                 |
|                            |                      |   | Stati                  | c Wa                           | ter lev                | el at                                  | 21                                      |                             |                          |                  |                             | A.V.A.A.V.        |                                    |
|                            |                      |   |                        |                                | oned to                |  | l Constu                                | uction                      |                          |                  |                             |                   |                                    |
|                            |                      |   | GPS.                   | - Gar                          | min E                  | trex                                   |   |                             |                          |                  |                             |                   |                                    |
|                            |                      |   |                        |                                |                        |  |   |                             |                          |                  |                             |                   |                                    |
|                            |                      |   |                        |                                |                        |  |   |                             |                          |                  |                             |                   |                                    |
|                            |                      |   |                        |                                |                        |  |   |                             |                          |                  |                             |                   |                                    |
|                            |                      |   |                        |                                |                        |  |   |                             |                          |                  |                             |                   |                                    |
|                            |                      |   |                        |                                |                        |  |   |                             |                          |                  |                             |                   |                                    |
|                            |                      |   |                        |                                |                        |  |   |                             |                          |                  |                             |                   |                                    |
| -                          | (CANADA (SOL)        |   | Annular                | Snace                          |                        |  |   |                             | Results of W             | ell Yie          | ld Testin                   | ıcı               |                                    |
| Depth So                   | et at (m/            | t)  | Type of Sea            | lant Usec                      | j                      | 1                                      | e Placed                                | i I                         | ll yield, water was:     | Di               | raw Down                    | . F               | Recovery                           |
| From                       | To                   |   | (Material and          | d Type)                        |                        | <u>(m</u>                              | <sup>3</sup> /ft³)                      | ☐ Clear and<br>☐ Other, spe |                          | Tìme<br>  (min)  |                             | vel Time<br>(min) | Water Level (m/it)                 |
| 29'                        | 24                   | <u> </u>  | <del>ole-play</del> So | nd_                            |                        |  |   |                             | continued, give reason:  | Static           | 1 , , , ,                   | 11/               |                                    |
| 34,                        | 3                    | <u> </u>  | tle plus               |                                |                        |  |   |                             |                          | Level<br>1       |                             | 1                 |                                    |
| 3`                         | 0.8                  | Sa  | mel                    |                                |                        |  |   | Pump intake s               | et at (m/ft)             |                  |                             |                   |                                    |
| 0.8                        | 0                    |   | an Ruck                |                                | •                      |  |   | Trump intake s              | et at (mmt)              | 2                |                             | 2                 |                                    |
|                            |                      | Construction  |                        |                                | Well Us                |  |   | Pumping rate                | (l/min / GPM)            | 3                |                             | 3                 |                                    |
| ☐ Cable To                 |                      | Diamon  |                        | olic                           | ☐ Comme                | 2822 1011 0-01361 0-03 \$30 0-3 40 000 | Not used                                | Duration of pu              | mping                    | 4                |                             | 4                 |                                    |
| ☐ Rotary (                 |                      |   | ☐ Dor                  |                                | ☐ Municip<br>☐ Test Ho |  | Dewatering Monitoring                   | hrs +                       | min                      | 5                |                             | 5                 |                                    |
| Boring                     | reverse,             | ☐ Dilyling  | *******                |                                |                        | & Air Conditi                          |   | Final water leve            | el end of pumping (m/ft) | 10               |                             | 10                |                                    |
| Air percu                  |                      |   | ☐ Indi                 | ustrial<br>er, <i>specif</i> j | iv.                    |  |   |                             |                          | 15               |                             | 15                |                                    |
|                            |                      | Construction F  |                        |                                |                        | Status                                 | of Well                                 | I If flowing give           | rate (I/min / GPM)       |                  |                             |                   |                                    |
| Inside                     | Орел                 | Hole OR Material  | Wall                   |                                | pth ( <i>m/ft</i> )    | ☐ Water                                | *************************************** | Recommende                  | d pump depth (m/ft)      | 20               |                             | 20                |                                    |
| Diameter<br><i>(cm/in)</i> | (Galva<br>Conci      | nized, Fibreglass,<br>ete, Plastic, Steel)  | Thickness<br>(cm/in)   | From                           | То                     | Replac                                 | ement Well                              |                             |                          | 25               |                             | 25                |                                    |
|                            |                      |   |                        |                                |                        | Rechar                                 |   | Recommende<br>(I/min / GPM) | d pump rate              | 30               |                             | 30                |                                    |
|                            |                      |   |                        |                                |                        | Dewate                                 | ering Well<br>ation and/or              | 10/all and distant          | - ((G-i- 100H))          | 40               |                             | 40                |                                    |
|                            |                      |   |                        |                                |                        | _ Monitor                              | ing Hole                                | vveii productio             | n (I/min / GPM)          | 50               | <u> </u>                    | 50                |                                    |
|                            |                      |   |                        |                                |                        |  | ruction)                                | Disinfected?                |                          | 60               |                             | 60                |                                    |
|                            |                      |   |                        |                                |                        | Abando Insuffic                        | oned,<br>ient Supply                    | Yes                         |                          | ا                | C20/11: 21 // NEW N. VISION | 100               | est samples and the control of the |
| Outside                    | T                    | Construction F  | Record - Scre          | 2.52.500                       | pth ( <i>m/ft</i> )    | Abando /Water                          | oned, Poor                              | Please provide              | Map of W                 |                  |                             | e back.           |                                    |
| Diameter<br>(cm/in)        | (Plastic             | Material<br>, Galvanized, Steel)  | Slot No.               | From                           | то То                  | ☑ Abando                               | oned, other,                            |                             |                          |                  |                             |                   |                                    |
| (0                         | <del> </del>         |   |                        |                                |                        | specify                                | truction                                |                             |                          |                  |                             |                   |                                    |
|                            | 1                    |   |                        |                                |                        | ☐ Other,                               | specify                                 |                             |                          |                  |                             |                   |                                    |
|                            |                      |   |                        |                                |                        |  |   |                             |                          |                  |                             |                   |                                    |
| Water foun                 | nd at De             | Water De  | ~                      | Untest                         |                        | Hole Diame<br>th ( <i>m/ft</i> )       | ter<br>Diameter                         |                             |                          |                  |                             |                   |                                    |
|                            |                      | Sas Other, sp   |                        |                                | From                   | To                                     | (cm/in)                                 |                             |                          |                  |                             |                   |                                    |
| Water four                 | nd at De             | pth Kind of Wate  | er: Fresh [            | Untest                         | ed                     |  |   |                             |                          |                  |                             |                   |                                    |
|                            |                      | Sas Other, sp<br>pth Kind of Wate   |                        | 7 Untoot                       |                        |  |   |                             |                          |                  |                             |                   |                                    |
|                            |                      | or values of values of the part of the pa |                        | onlesi                         | 30                     |  |   |                             |                          |                  |                             |                   |                                    |
| L'/                        | y <u></u>            | Well Contract   |                        | Technic                        | ian Informa            | tion                                   | 1                                       |                             |                          |                  |                             |                   |                                    |
|                            |                      | Well Contractor   | Ł                      |                                |                        | ell Contractor's                       |   |                             |                          |                  |                             |                   |                                    |
| Pusiness A                 | nun [                | Street Number/N   | Lt().                  |                                |                        | 6 8  <br>unicipality                   | 9   4                                   | Comments:                   |                          |                  |                             |                   |                                    |
|                            |                      | m Dr.   | ын <i>б)</i>           |                                | IMI                    | unicipality<br>Ottou                   | ) <u>r</u> a                            | Comments.                   | See At                   | tach             | ed                          |                   |                                    |
| Province                   |                      | Postal Code   | Business               | E-mail A                       | ddress                 |  |   |                             |                          |                  |                             |                   |                                    |
| Outowi                     | 0                    | K 4 P I A   | 12 jschel              | 1@mai                          | vathondvi              | Hing-cor                               | n                                       | Well owner's information    | Date Package Deliver     | ed               | Mir<br>Audit No             | nistry Us         | se Only                            |
| Bus.Telepho                | one No.<br>Ç⊥1⊥∧     | inc. area code)   N<br>  0   5   7   1  | ame of Well T          |                                |                        | First Name)                            |   | package<br>delivered        | YYYYMM                   |                  | Audit No                    | 209               | 6933                               |
|                            |                      | nce No. Signatur  |                        |                                | Contractor Da          | ite Submitted                          | 1 -                                     | ☐ Yes                       | Date Work Completed      | I                |                             | Topic Registre    | es Tan Tan                         |
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<u>Prir</u>

Google maps

Notes



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How can we help you

Search

contact us Français Popular +

### **Trending Now**

- Ontario Public Service careers
   OSAP: Ontario Student Assistance Program
   Government services
   Outdoors Cards, Licences and Draws
   Renew a licence plate sticker
   Change the address on identification cards

- Driving and Roads

### Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue.

### Recommended for you

How to use a Ministry of the Environment map

Technical documentation: Metadata record

Go Back to Map

### Well ID

Other

Well ID Number: 7201372 Well Audit Number: *C21215* Well Tag Number: *A130127* 

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

### **Well Location**

| Address of Well Location         |   |
|----------------------------------|---|
| Township                         | MARCH TOWNSHIP  |
| Lot                              |   |
| Concession                       |   |
| County/District/Municipality     | OTTAWA-CARLETON   |
| City/Town/Village                |   |
| Province                         | ON  |
| Postal Code                      | n/a   |
| UTM Coordinates                  | NAD83 — Zone 18<br>Easting: 426635.00<br>Northing: 5023491.00 |
| Municipal Plan and Sublot Number | _   |

### Overburden and Bedrock Materials Interval

### **Annular Space/Abandonment Sealing Record**

Depth Depth Type of Sealant Used Volume From To (Material and Type) Placed

### Method of Construction & Well Use

Method of Construction Well Use

#### Status of Well

### **Construction Record - Casing**

Inside Diameter Open Hole or material Depth From To

#### **Construction Record - Screen**

Outside Diameter Material Depth Depth From To

### Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1844

### **Results of Well Yield Testing**

After test of well yield, water was
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?

### 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

### **Hole Diameter**

| Depth | Depth | Diameter |
|-------|-------|----------|
| From  | To    | Diameter |

# patersongroup

### **Consulting Engineers**

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

> Geotechnical Engineering Environmental Engineering Hydrogeology Geological Engineering Materials Testing Building Science Archaeological Services

www.patersongroup.ca

October 1, 2019 File: PE4760-HLUI

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

Subject: Authorization Letter, HLUI Search

**Phase I-Environmental Site Assessment** 

910 March Road, Ottawa ON

Dear Sir or 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: |  |
|---------------------------------|--|
| Name of Representative          |  |
| Signature of Representative     |  |
| Date                            |  |

### **Mandy Witteman**

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

**Sent:** October-02-19 3:13 PM **To:** Mandy Witteman

**Subject:** RE: Search Records Request (PE4760)

Follow Up Flag: Follow up Flag Status: Flagged

Good afternoon,

Thank you for your request for confirmation of public information.

We confirm that there are no records in our database of any fuel storage tanks at the subject addresses.

For a further search in our archives please complete our release of public information form found at <a href="https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?mid=392">https://www.tssa.org/en/about-tssa/release-of-public-information.aspx?mid=392</a> and email the completed form to <a href="mailto:publicinformationservices@tssa.org">publicinformationservices@tssa.org</a> 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.



### Sherees Thompson | Public Information Agent

Facilities 345 Carlingview Drive Toronto, Ontario M9W 6N9

Tel: +1-416-734-3363 | Fax: +1-416-231-6183 | E-Mail: sthompson@tssa.org

www.tssa.org







From: Mandy Witteman < MWitteman@Patersongroup.ca>

Sent: October 2, 2019 11:10 AM

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

**Subject:** Search Records Request (PE4760)

Good Morning,

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 Ottawa, ON:

March Rd: 910, 866, 846, 927, 905, 895

Halton Terrace: 1054, 1083 Maxwell Bridge Dr: 349

Thank you!

Cheers,

# patersongroup

solution oriented engineering over 60 years servicing our clients

154 Colonnade Road South Ottawa, Ontario, K2E 7J5 Tel: (613) 226-7381 Ext. 339

Cell: (403) 921-1157

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.

# **APPENDIX 3**

**QUALIFICATIONS OF ASSESSORS** 

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



### **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

## Mark S. D'Arcy, P. Eng.

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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