Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

Materials Testing

Building Science

Archaeological Services

patersongroup

Phase I-Environmental Site Assessment

1104 Halton Terrace and 1150 Old Carp Road Ottawa, Ontario

Prepared For

Novatech Engineering

Paterson Group Inc.

Consulting Engineers 154 Colonnade Road South Ottawa (Nepean), Ontario Canada K2E 7J5

Tel: (613) 226-7381 Fax: (613) 226-6344 www.patersongroup.ca

March 18, 2019

Report: PE4576-1

TABLE OF CONTENTS

CUTIVE SUMMARY	ii			
INTRODUCTION	1			
PHASE I PROPERTY INFORMATION	2			
SCOPE OF INVESTIGATION	3			
RECORDS REVIEW	4			
4.1 General	4			
4.2 Environmental Source Information	5			
4.3 Physical Setting Sources	7			
INTERVIEWS	9			
SITE RECONNAISSANCE	9			
6.1 General Requirements	9			
6.2 Specific Observations at Phase I Property	9			
REVIEW AND EVALUATION OF INFORMATION	11			
7.1 Land Use History				
7.2 Conceptual Site Model	11			
CONCLUSIONS				
STATEMENT OF LIMITATIONS	14			
.0 REFERENCES				
	INTRODUCTION. PHASE I PROPERTY INFORMATION. SCOPE OF INVESTIGATION RECORDS REVIEW 4.1 General. 4.2 Environmental Source Information 4.3 Physical Setting Sources. INTERVIEWS. SITE RECONNAISSANCE. 6.1 General Requirements. 6.2 Specific Observations at Phase I Property REVIEW AND EVALUATION OF INFORMATION 7.1 Land Use History 7.2 Conceptual Site Model. CONCLUSIONS STATEMENT OF LIMITATIONS			

List of Figures

Figure 1 - Key Plan Figure 2 - Topographic Map Drawing PE4576-1 - Site Plan Drawing PE4576-2 - Surrounding Land Use Plan

List of Appendices

- Appendix 1 Aerial Photographs Site Photographs
- Appendix 2 MECP Freedom of Information TSSA Correspondence HLUI Response MECP Well Records
- Appendix 3 Qualifications of Assessors

EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by Novatech Engineering to conduct a Phase I-Environmental Site Assessment (ESA) for the properties located at 1104 Halton Terrace and 1150 Old Carp Road, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the subject site and Phase I Study Area and to identify any environmental concerns with the potential to have impacted the Phase I Property.

According to the historical research, the Phase I Property has never been developed and was historically used as an agricultural field. Historical land use of the neighbouring properties was for residential and agricultural purposes. No potentially contaminating activities were identified with the historical use of the subject site or surrounding lands.

Following the historical research, a site visit was conducted. The subject site is currently vacant. No potential environmental concerns were noted with the current use of the Phase I Property. Neighbouring properties in the Phase I Study Area consist of vacant lands to the north, residential to the west and south, and commercial to the east. No potentially contaminating activities were identified on the Phase I Property or in the Study Area. Therefore, no areas of potential environmental concern with respect to the Phase I Property were identified.

Based on the results of the assessment, it is **our opinion that a Phase II-**Environmental Site Assessment is not required for the subject property.

1.0 INTRODUCTION

At the request of Novatech Engineering, Paterson Group (Paterson) conducted a Phase I-Environmental Site Assessment (Phase I-ESA) of the property located at 1104 Halton Terrace and 1150 Old Carp 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 by Mr. Mark Bissett with Novatech Engineering. The head office is located at 200-240 Michael Cowpland Drive, Ottawa, Ontario. Mr. Bissett can be reached by telephone at (613) 254-9643.

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

This Phase I-ESA report has been prepared in general accordance with the requirements of Ontario Regulation (O.Reg.) 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 and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as, local, provincial and federal agencies and was limited within the scope-of-work, time and budget of the project herein.

2.0 PHASE I PROPERTY INFORMATION

Address:	1104 Halton Terrace and 1150 Old Carp Road, Ottawa, Ontario		
Legal Description:	Parts 1, 2, and 3 on Plan 4R20188 and Block 101 on Plan 4M1280, in the City of Ottawa		
Location:	The site is located on the southwest corner of where Carp Road transects with Halton Terrace, in the City of Ottawa, Ontario. Refer to Figure 1 - Key Plan in the Figures section following the text.		
PIN:	04526-1109 and 04526-1306		
Latitude and Longitude:	45°21' 25.97" N, 75° 56' 11.66" W		
Site Description:			
Configuration:	Irregular		
Area:	2.75 Hectares (approximately)		
Zoning:	Development Reserve Zone		
Current Use:	The subject site is currently vacant and undeveloped land.		
Services:	The subject site is situated in an area where adjacent lands are currently serviced by private wells and sewage systems.		

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. 269/11 amending O.Reg. 153/04 made under the Environmental Protection Act and in compliance with the requirements of CSA Z768-01;
- Provide a preliminary environmental site evaluation based on our findings;
- □ Provide preliminary remediation recommendations and further investigative work if contamination is suspected or encountered.

4.0 RECORDS REVIEW

4.1 General

Phase I-ESA Study Area Determination

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

First Developed Use Determination

Based on an aerial photograph from 1976, the subject site has never been developed.

Fire Insurance Plans

Fire Insurance Plans (FIPs) are not available for the subject area.

City of Ottawa Street Directories

There are no city directories for the subject site and 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, aerial photographs and previous engineering reports.

Environmental Reports

Paterson Group has conducted environmental and geotechnical investigations in the immediate vicinity of the subject site. Based on a review of our files, no potential environmental concerns were identified on the subject site or neighbouring lands.

Survey Plan and Plan of Subdivision

No survey plan or plan was available for review.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on March 11, 2019. The subject site and adjacent properties were not listed in the NPRI database. No records of pollutant release were listed in the database for properties located within the Phase I study area.

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.

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

A request was submitted to the MECP Freedom of Information (FOI) office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MECP issued instruments for the 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 Submissions

A request was submitted to the MECP FOI office for information with respect to reports related to environmental conditions for the 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 site or adjacent properties. 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 FOI office for information with respect to waste management records. 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 document titled "Municipal Coal Gasification Plant Site Inventory, 1991" was reviewed to reference the locations of former plants with respect to the site. No Municipal Coal Gasification Plant Sites are located within the Phase I study area.

MECP Brownfields Environmental Site Registry

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

MECP Waste Disposal Site Inventory

The Ontario Ministry of Environment document titled "Waste Disposal Site Inventory in Ontario, 1991" was reviewed as part of the historical research. This document includes all recorded active and closed waste disposal sites, industrial manufactured gas plants and coal tar distillation plants in the Province of Ontario. There are no former waste disposal sites located within 1 km of 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 website of the Ontario Ministry of Natural Resources (MNR) on March 11, 2019. The search did not reveal areas of natural significance within the Phase I study area.

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on March 12, 2019, to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. No records are listed in the TSSA registry for the subject site 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. There are no closed landfill sites within the vicinity of the Phase I study area.

City of Ottawa Historical Land Use Inventory (HLUI)

A search of the City of Ottawa's Historical Land Use Inventory (HLUI) database was conducted as part of this assessment. At the time of issuance of this report, the HLUI search results had not been received. A copy of the HLUI request 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. Based on the review, the following

- 1976 The subject site appears as agricultural land at this time. The surrounding lands appear as farmsteads and agricultural fields. March Road and Old Carp Road are present at this time.
- 1991 No significant changes are apparent to the subject site. Neighbouring lands appear unchanged from the previous photograph, with the exception of some soil disturbances occurring to the east, on a property across March Road.
- 2002 The subject site appears unchanged from the previous photograph. Pre-development activities are apparent on the adjacent properties to the east, west and south of the subject site. A residential development further south is present at this time.
- 2011 No significant changes are apparent to the subject site. Halton Terrace is present in this photograph. New residential developments can be seen to the east, west and south. Some commercial developments can also be seen to the east across March Road.
- 2017 The subject site and surrounding area appear unchanged from the previous photograph.

Laser copies of selected aerial photographs reviewed are included in Appendix 1.

Topographic Maps

Topographic maps were obtained from Natural Resources Canada – The Atlas of Canada website and from the City of Ottawa website. The topographic maps indicate that the regional topography in the general area of the site slopes down in a northly 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, the site is situated within the Ottawa Clay Plain physiographic region.

Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on this information, bedrock in the area consists of interbedded sandstone and dolomite, of the March Formation. The surficial geology in the western and eastern part of the site consists of exposed Paleozoic bedrock and offshore marine sediments, respectively, with a drift thickness ranging from 0 to 2 m, respectively.

Water Well Records

A Well Record search was conducted on March 11, 2019 for all drilled wells within 250 m of the subject site. The well record search returned eighteen (18) well records, all of which were domestic wells from the late 1960s to 2008. One domestic well was identified at the residence on the western portion of 1150 Old Carp Road. Copies of the well records have been included in Appendix 2.

Water Bodies

Shirley's Brook is the closest body of water located approximately 325 m south of the Phase I Property.

Areas of Natural Significance

No areas of natural significance were identified in the Phase I Study Area.

5.0 INTERVIEWS

Property Owner Representative

Novatech Engineering was contacted via email as part of this assessment. Novatech Engineering is the consultants representing the property owner, Village at the School Yard Inc., for future residential and commercial developments. The land had been used for agricultural purposes in the past and is now vacant. Novatech Engineering is not aware of any potential environmental concerns with respect to the subject or adjacent properties. The current property owner was unavailable for an interview.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

The site visit was conducted on March 12, 2019. Weather conditions were sunny with a temperature of approximately -3°C. Ms. Mandy Witteman from the Environmental Department of Paterson conducted the site assessment. In addition to the site, the uses of neighbouring properties within the Phase I Study Area were also assessed at the time of the site visit.

6.2 Specific Observations at Phase I Property

Site Features

The subject property is vacant and undeveloped land. At the time of the visit, the ground surface was covered in snow.

Site drainage consists primarily of infiltration. The site topography appeared to be somewhat at grade with Halton Terrace and Old Carp Road.

The regional topography slopes down in a north-easterly direction towards Shirley's Brook.

No underground utilities were noted on-site. No drains or private sewage systems were observed at the subject property at the time of the site visit. No evidence of current or former railway or spur lines was observed on the subject property at the time of the site visit. No areas of stained snow or unidentified substances were observed on-site at this time.

Buildings and Structures

There is one unutilized shed on the subject site.

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 subject site was as follows:

- □ North Old Carp Road, followed by vacant land;
- □ South Halton Terrace, followed by residential dwellings;
- East Halton Terrace, followed by vacant land and a stormwater management pond;
- U West Residential dwellings, followed by Dunollie Crescent.

The current use of the immediately adjacent properties is not considered to pose an environmental concern to the Phase I Property. No properties within the Phase I Study Area are occupied by potentially contaminating activities. Current land use in the Phase I Study Area is illustrated on Drawing PE4576-2 – Surrounding Land Use Plan in the Figures section of this report.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

Based on the available historical records, the Phase I Property has never been developed. No potential environmental concerns were noted with the historical and current land use.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

No potentially contaminating activities (PCAs) were identified on the Phase I Property or within the Phase I Study Area. Therefore, no Areas of Potential Environmental Concern (APECs) were identified on the subject site.

Contaminants of Potential Concern

No Contaminants of Potential Concern (CPCs) were identified on the subject site.

7.2 Conceptual Site Model

Geological and Hydrogeological Setting

Based on the information from the Geological Survey of Canada, the overburden thickness is estimated to be in the order of 0 to 2 m, which consists of exposed Paleozoic bedrock and offshore marine sediments. Bedrock consists of interbedded sandstone and dolomite of the March Formation.

Groundwater flow is interpreted to be in a north-easterly direction towards the Shirley's Brook.

Existing Buildings and Structures

An unutilized shed is located on the southwest corner of the Phase I Property.

Water Bodies and Areas of Natural Significance

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

Drinking Water Wells

There are no potable water wells on the subject site. Eighteen (18) domestic well records were identified within the study area, one of which was located on the adjacent property to the west.

Neighbouring Land Use

Neighbouring land use in the Phase I Study Area consists of vacant land, residential dwellings and some commercial retailers.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As per Section 7.1 of this report, PCAs were not identified on the Phase I Property or within the Phase I Study Area. Therefore, no APECs are present on the Phase I Property.

Contaminants of Potential Concern

As per Section 7.1 of this report, no Contaminants of Potential Concern (CPCs) were identified on the Phase I Property.

Assessment of Uncertainty and/or Absence of Information

The information available for review as part of the preparation of this Phase I-ESA is considered to be sufficient to conclude that there are no APECs on the subject site. A variety of independent sources were consulted as part of this assessment, and as such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

8.0 CONCLUSIONS

Assessment

Paterson Group was retained by Novatech Engineering to conduct a Phase I-Environmental Site Assessment (ESA) for the properties located at 1104 Halton Terrace and 1150 Old Carp Road, in the City of Ottawa, Ontario. The purpose of this Phase I-ESA was to research the past and current use of the subject site and Phase I Study Area and to identify any environmental concerns with the potential to have impacted the Phase I Property.

According to the historical research, the Phase I Property has never been developed and was historically used as an agricultural field. Historical land use of the neighbouring properties was for residential and agricultural purposes. No potentially contaminating activities were identified with the historical use of the subject site or surrounding lands.

Following the historical research, a site visit was conducted. The subject site is currently vacant. No potential environmental concerns were noted with the current use of the Phase I Property. Neighbouring properties in the Phase I Study Area consist of vacant lands to the north, residential to the west and south, and commercial to the east. No potentially contaminating activities were identified on the Phase I Property or in the Study Area. Therefore, no areas of potential environmental concern with respect to the Phase I Property were identified.

Based on the results of the assessment, it is **our opinion that a Phase II-**Environmental Site Assessment is not required for the subject property. Ditawa Kingston North Bay

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 and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as, local, provincial and federal agencies and was limited within the scope-of-work, time and budget of the project herein.

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

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

Paterson Group Inc.

Mandy Witteman, M.A.Sc.

Mark S. D'Arcy, P.Eng.

Report Distribution:

- Novatech Engineering
- Paterson Group



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.
Office of Technical Standards and Safety Authority, Fuels Safety Branch.
MNR Areas of Natural Significance.
MECP Water Well Record Inventory.
Chapman, L.J., and Putnam, D.F., 1984: 'The Physiography of Southern Ontario, Third Edition', Ontario Geological Survey Special Volume 2.

Municipal Records

City of Ottawa Document "Old Landfill Management Strategy, Phase I -Identification of Sites.", prepared by Golder Associates, 2004. Intera Technologies Limited Report "Mapping and Assessment of Former Industrial Sites, City of Ottawa", 1988. geoOttawa: City of Ottawa electronic mapping website.

City of Ottawa Historical Land Use Inventory (HLUI) Database

Local Information Sources

Personal Interviews.

Public Information Sources

Google Earth. Google Maps/Street View.

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE4576-1 – SITE PLAN

DRAWING PE4576-2 – SURROUNDING LAND USE PLAN

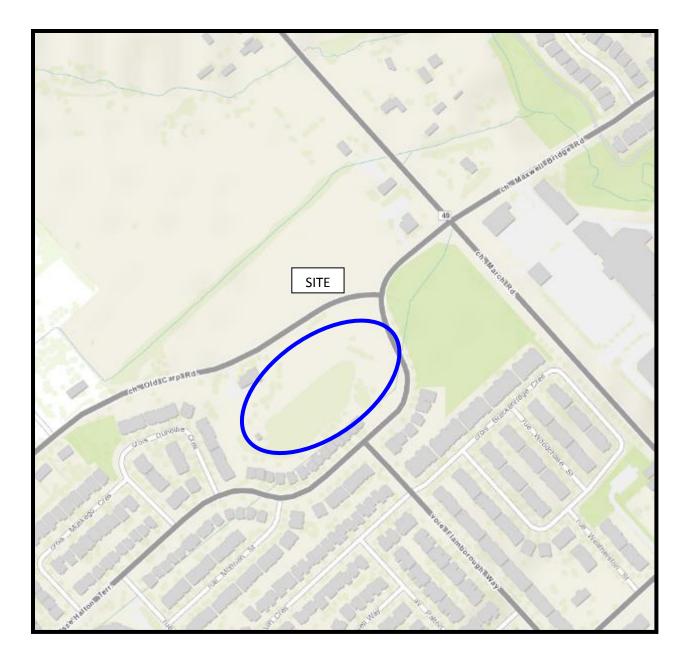


FIGURE 1 KEY PLAN

– patersongroup –

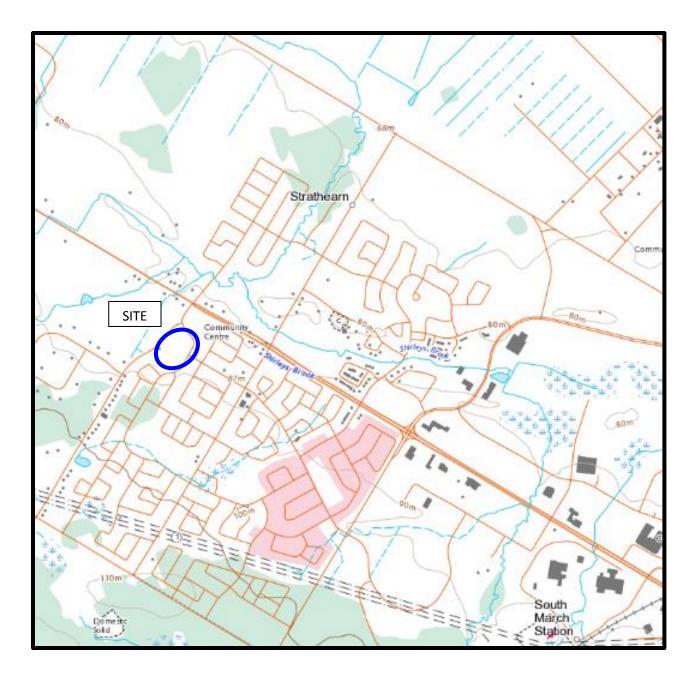
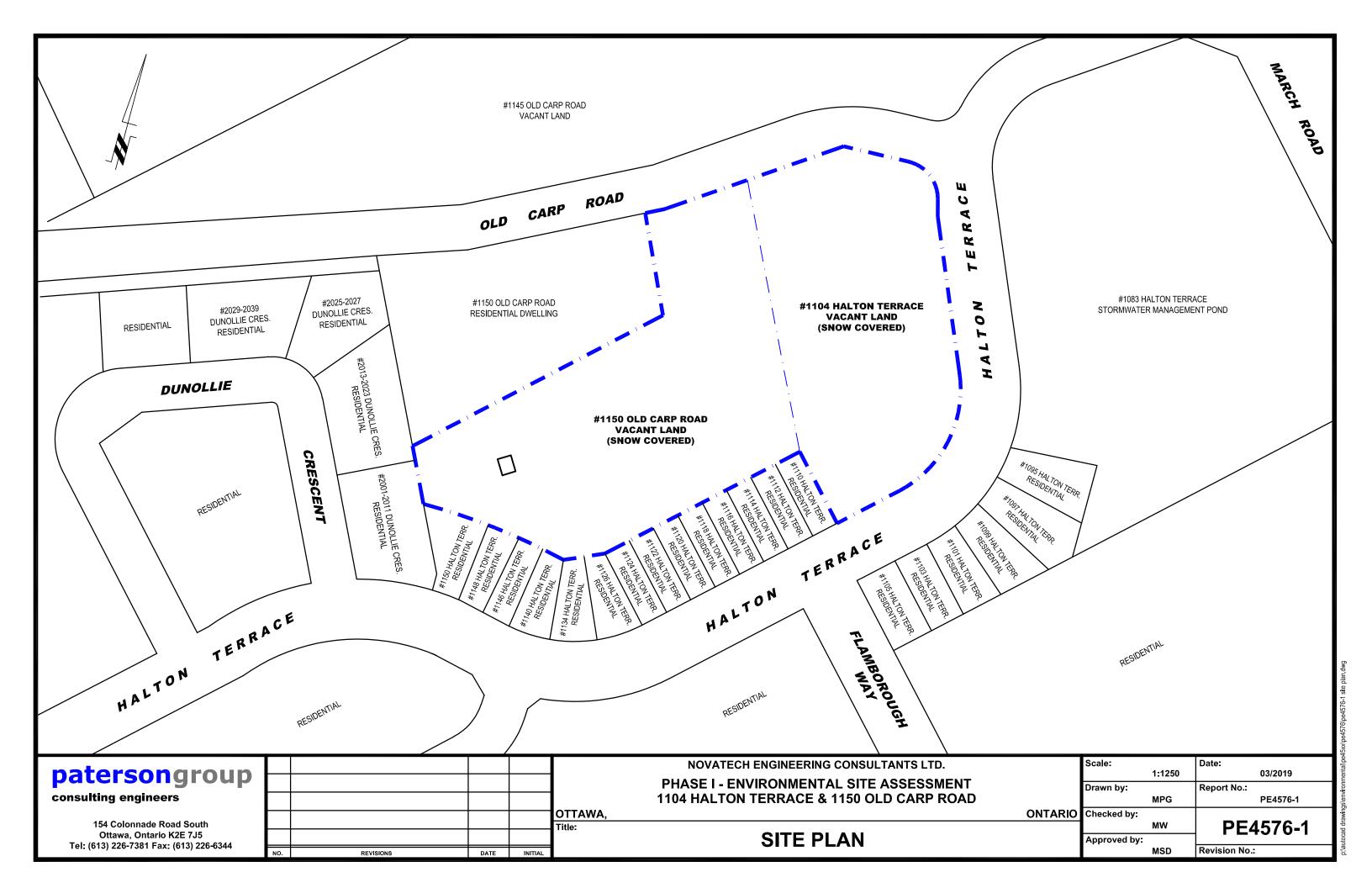


FIGURE 2 TOPOGRAPHIC MAP



				Brid
PHASE I ENVIRONMENT SITE ASSESSMENT STU AR	DY		ALSO DENTRY SUBJECT OF THE COMMERCIAL SUBJECT OF MERCIAL TROUGHT MARK	ch-Maxwell-Brid
	REPENNAL	VACANT LAND	VACANT LAND VACANT LAND VACANT LAND STORMWATER MANAGEMENT	
	RESIDENTIAL	ch. Old Ga Residentia		RESIDENTRE
	RESOLUTION	Dunois Dunoi anna Ranna Ranna Resolution	HEST CON MAINTINE CON	
ch. Old Carp Rd.	encore Ca esettation	Terr	RESIDENTIAL PROJECTION	
offer Offer		4-0 ₂	and the Res Wondwerred	Adle Flamboro
consulting engineers		отт	NOVATECH ENGINEERING CONSU PHASE I - ENVIRONMENTAL SITE 1104 HALTON TERRACE & 1150 O 'AWA,	ASSESSMENT
154 Colonnade Road South Ottawa, Ontario K2E 7J5 Tel: (613) 226-7381 Fax: (613) 226-6344	REVISIONS	DATE INITIAL		USE PLAN



MW

MSD

Approved by:

autocad drawings\environmental\pe45xx\pe4576\pe4576-2 slup.

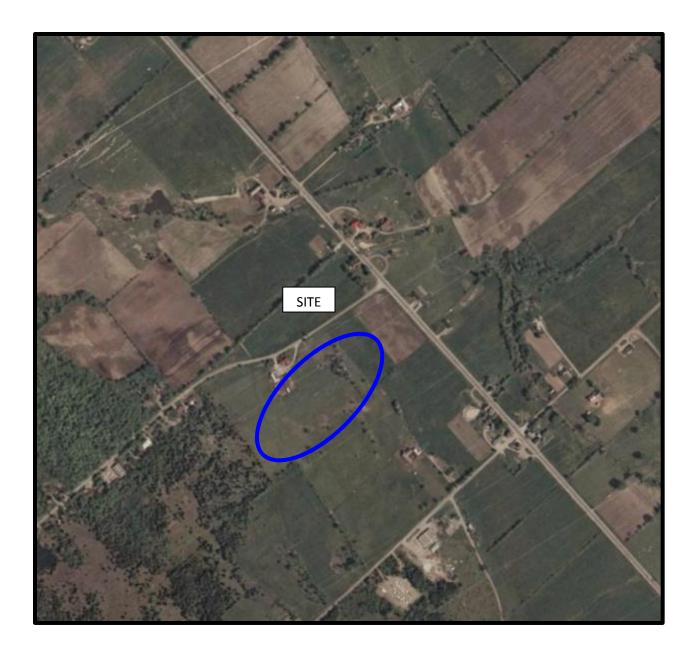
PE4576-2

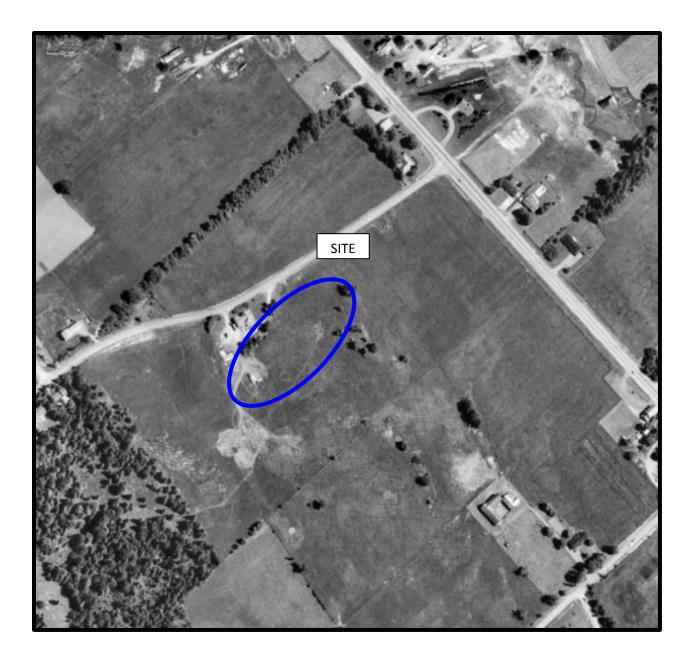
Revision No.:

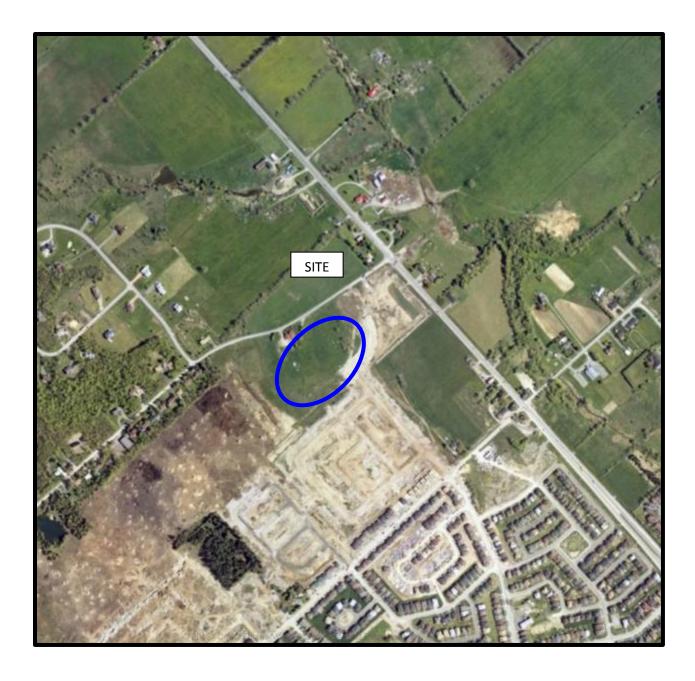
APPENDIX 1

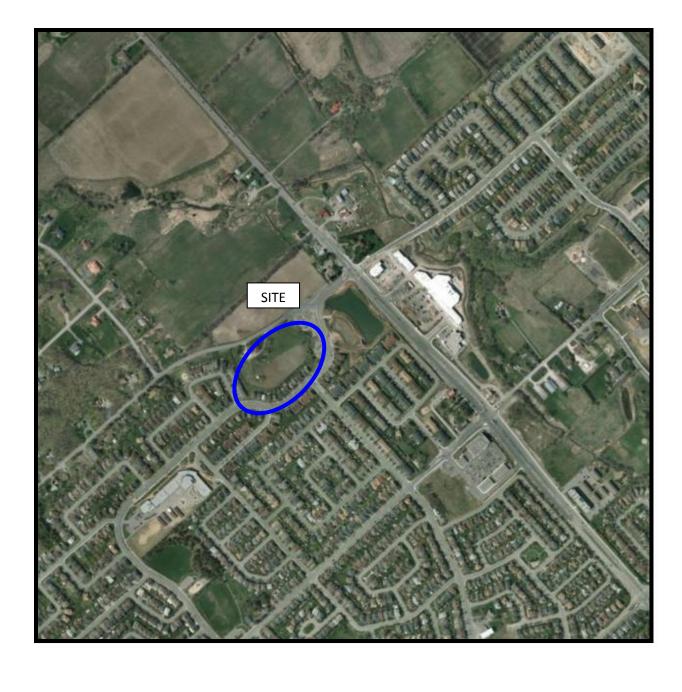
AERIAL PHOTOGRAPHS

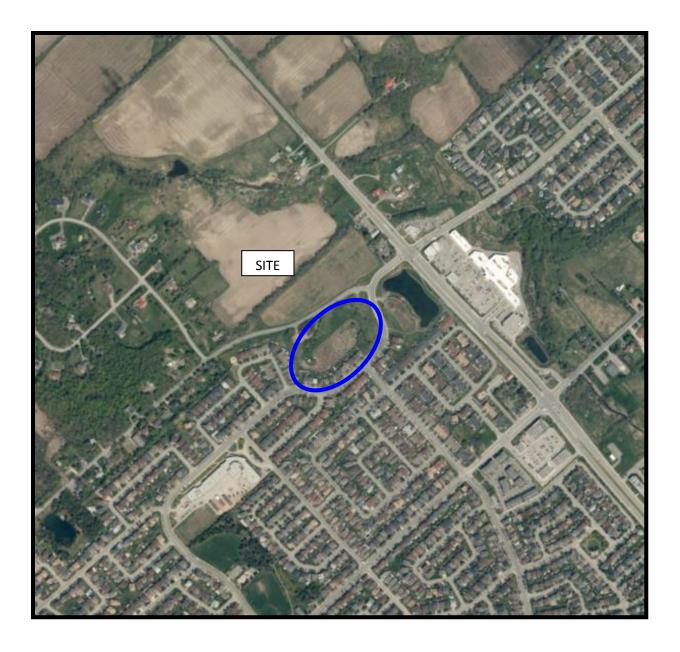
SITE PHOTOGRAPHS











Site Photographs

PE4576

1104 Halton Terrace and 1150 Old Carp Road, Ottawa, ON

March 12, 2019



Photograph 1. View of the subject site, taken from Old carp Road, looking east.



Photograph 2: View of the subject site, taken from Old Carp Road, looking south.

Site Photographs

PE4576

1104 Halton Terrace and 1150 Old Carp Road, Ottawa, ON

March 12, 2019



Photograph 3: View of the subject site, taken from Old Carp Road, looking west.



Photograph 4: View of the subject site, taken from Halton Terrace, looking west.

APPENDIX 2

MECP FREEDOM OF INFORMATION

TSSA CORRESPONDENCE

HLUI RESPONSE

MECP WELL RECORDS



Ministry of Environment and Energy

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.		
Mandy Witteman		FOI Request No.		
Paterson Group Inc. 154 Colonnade Road				
Ottawa, ON K2E 7J5			Fee Paid	UISA/MC 🗆 CASH
Email address: mwitteman@patersongroup.ca				
Telephone/Fax Nos. Signature/Print /Name of Requester		Signature/Print /Name of Requester		
Tel. 613-226-7381	Your Project/Reference No. PE4576-1	Mandy Witteman	□ CNR □ ER □ N □ SAC □ IEB □ Ê	
Fax 613-226-6344			SAC LIEB LE	AA 🗆 EMR 🗖 SWA
		Request Parameters	S	
Municipal Address / Lot, Concession, Geo	graphic Township (Municipal	address essential for cities, towns or regio	ons)	
1104 Halton Terrace and 11	50 Old Carp Road, C	Ottawa ON (One Site /one project		
Present Property Owner(s) and Date(s) of Own	nership			
Novatech Enginee	ring			
Previous Property Owner(s) and Date(s) of Ow	mership			
Present/Previous Tenant(s) (if applicable)				
Search Parameters Files older than 2 years may require \$60.00 retrieval cost. There is no guarantee that records responsive to your request will be located. Specify Year(s) Requested			Specify Year(s) Requested	
			all	
Orders			all	
Spills			all	
			all	
Waste Generator number/classes all			dii	
759 D	Certificate	s of Approval > Proponent info	rmation must be provided	
				bes and years to be searched. Specify
Certificates of Approval number	r(s) (if known) if supp e	orting documents are also required	, mark SD box and specily lyp	e e.g. maps, pians, reports, etc.
			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, treatment, stormwater, leachate & leachate treatment & sewage pump stations			1986-present	
waste water - industrial discharges				1986-present
waste sites - disposal, landfill sites, transfer stations, processing sites, incinerator sites 198			1986-present	
waste systems - PCB destruction, mobile waste processing units, haulers: sewage, non-hazardous & hazardous waste			1986-present	
pesticides - licenses 1986-present			1986-present	
A \$5.00 non-refundable applic	ation fee inavable to	the Minister of Finance, is manda	topy The cost of locating o	n-site and/or preparing any record is

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.

Mandy Witteman

From:	Public Information Services < publicinformationservices@tssa.org >
Sent:	March-12-19 11:53 AM
То:	Mandy Witteman
Subject:	RE: Search Records Request (PE4576)

Good morning Mandy,

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 <u>https://www.tssa.org/en/about-tssa/release-of-public-information.aspx? mid =392</u> and email the completed form to <u>publicinformationservices@tssa.org</u> or through mail along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard) or with a Cheque made payable to TSSA.

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

Kind regards,

Sarah



Sarah Quibell | Public Information Agent

Facilities 345 Carlingview Drive Toronto, Ontario M9W 6N9 Tel: +1-877-682-8772 | Fax: +1-416-231-6183 | E-Mail: <u>squibell@tssa.org</u> www.tssa.org

From: Mandy Witteman <MWitteman@Patersongroup.ca> Sent: March 12, 2019 11:51 AM To: Public Information Services <publicinformationservices@tssa.org> Subject: Search Records Request (PE4576)

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:

Halton Terrace: 1104, 1083, 1054, Old Carp Road: 1150, 1145 March Rd: 895, 905, 830, 846, 886

Thank you

Cheers,

Mandy Witteman

patersongroup Solution Oriented Engineering

154 Colonnade Road South Ottawa - Ontario - K2E 7J5 Tel: (613) 226-7381 Fax: (613) 226-6344 Cell: (403)-921-1157 Email: mwitteman@patersongroup.ca

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.

March 11, 2019 File: PE4576-HLUI

City of Ottawa

110 Laurier Avenue W Ottawa, Ontario K1P 1J1

Subject:

Authorization Letter, HLUI Search Phase I-Environmental Site Assessment 151 Chapel Street Ottawa, Ontario

Dear Sir,

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/Owner

Signature of Representative/Owner

Date

landinc.

UTM 18 442651610 E 15 R 5012121940 The Ontario Water Reso Elev. 4R 012610 WATER WEI			JUN 23 1	965
Basin 2.5 County or District Carleton Con. 111 Lot Pt. of 11	Fownship, Village, To	own or City		1
Casing and Screen Record Inside diameter of casing 15t of 5t	ress South Ma Static level	rch, Ont. Pumping 71	g Test	
Total length of casing15°Type of screennilLength of screennilDepth to top of screennilDiameter of finished hole5°		17 Dumping 1 E Dudy at end of Dumping rate	lour _{test} clear 5 GPM	
Well Log Overburden and Bedrock Record	From ft.	To ft.		r Record Kind of water
Clay Red Granite	01		43'	fresh
For what purpose(s) is the water to be used? New Home Is well on upland, in valley, or on hillside? Upland	In diagra	Location m below show lot line. Inc	of Well distances of we dicate north by	ell from arrow.
Drilling or Boring Firm Blair Phillips Drilling Co. Ltd. Address Ottawa Licence Number		50 5		N 1
Name of Driller or Borer J. Moore Address Kars, Ont. Date 28 May 1965 (Signature of Licerson Fulling or Boring Contractor) Form 7 15M-60-4138 OWRC COPY		S.Mov	h- #17 Hwx	

388A	31	G50		ROUND WATER	BRANCH R
UTM 18^{2} 426430^{E} Co. 5 R 50231105 N The Ontario Water Res	ources Commi	ssion A		JAN 17 19	× ×
Elev, 14 R O ZIGIO WATER WE				ONTARIO WA RESOURCES COM	
Basin 2,5 County or District Carle Ton					
Con /// Lot /2	Date complete	a Z	3	May	1963
	ress. 71	6 E	Tolison	Ave OT	Tawa
Casing and Screen Record			Pumpin	ig Test	
Inside diameter of casing 6/4				15	
Total length of casing 20	Test-pump	ing rat	e		G.P.M.
Type of screen INO. NC	Pumping	evel		40	
Length of screen	Duration of	f test pu	umping	1 hr	
Depth to top of screen	Water clea	r or clo	udy at end o	f test clea	<i>r</i>
Diameter of finished hole 6"	Recomme	nded pu	imping rate	5	G.P.M.
	with pum	o setting	; of 5	o' feet belo	w ground surface
Well Log					Record
Overburden and Bedrock Record	Fro ft.		To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
clay & broken rock	0		12		
himestone	12		38 60	60	fresh
Sandslone					
For what purpose(s) is the water to be used?			Location	n of Well	
house	In	diagran	n below sho	w distances of we ndicate north by	ll from
Is well on upland, in valley, or on hillside? Upland		d and	lot line. If	late north by	anow.
Drilling or Boring Firm Mcbean Water Supply LTJ. Address 1532 Raven Hve	\sim	\checkmark	1		
Address 1532 Raven Hve	Road	. ^			X
OTTawa, Ont.	Road BeTwee LoT/0	n	LOTA		N
Lience Number 1090			K-0	45 Mile	
Name of Driller or Borer H. Scharf					50
Address		X	.		<i>y</i> -
Date May 23 /63		7007		N	/
		Е 2	: ₩1 ←0T	NY 17 FRWA CAI	2P>
(Signature of Licensed Drilling or Boring Contractor)					· •
Form 7 15M-60-4138		1 3			
OWRC COPY				- 14	

31652 GROUND WATER BRANCE UTM 18 2 4216161610 E 15 .**N**0 (05 R 501212191210 N The FEB 20 1932 Ontario Water Resources Commission Act ONTARIO WATER Elev 4R 0245 RECOR DSOURCES COMMERTON Basin <u>25</u> County or Distric AL ...Township, Village, Town or City... 61 Date completed 12 Con. Lot dress.... **Pumping Test Casing and Screen Record** 47 10 Static level Inside diameter of casing.... G.P.M. Test-pumping rate Total length of casing. Pumping level Type of screen 2 hr Duration of test pumping Length of screen. Water clear or cloudy at end of test Depth to top of screen Recommended pumping rateG.P.M. Diameter of finished hole 30 with pump setting of..... feet below ground surface Water Record Well Log Kind of water Depth(s) at То From which water(s) (fresh, salty, d Bedrock Record Overburden aj ۶t Ď found sulphur) 22 16 3 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? Ø Drilling or Boring Firm. Address 244 Licence Number.... Name of Driller or Borer. S. MARCH Address Date. (Signature of Licensed Drilling or Boring Contractor) Form 7 15M Sets 60-5930 OWRC COPY CSS.58

			The Ontario V	Nater Reso				D 3	16/ 4	
		Ontario 1. PRINT ONLY IN SPA	BOX WHERE APPLICABLE	11	 6.g.		- 4 5+ 0 C		PN.	103
	County or district	0	TOWNSHIP, BOROUGH, CITY	Y, TOWN, VILLAGE	•	CON.	BLOCK, TRACT,	SURVEY, ETC.	•	LOT 25-27
	OWNER (SURNAME FIR	RST) 28-47	ADDRESS				3	DATE CO		211 78 69
	21	$\begin{array}{c} \text{at. Const.}\\ \overset{\text{ZONE}}{\text{T}} & \overset{\text{EASTING}}{\text{T}} & 4264 \end{array}$	NORTHING	h March	ELEVATION	RC.	BASIN CODE	DAY.	мо	<u>ЧR.</u> <u>IV</u>
		M 10 12	17 18	2425	26	30	31			47
	GENERAL COLOUR	MOST	OF OVERBURDEN		OCK MATERI				DEPT	I - FEET
-		COMMON MATERIAL				GENERA	AL DESCRIPTION		FROM	то
		1					·			
	Brown	Sandstone						- i	0	65
	-					·				
	white line	stone							65	84.
			<u>, </u>						· · · · · · · · · · · · · · · · · · ·	
	· · · ·									
(31 0065	618 0084	1151111111							
	32	14 15								
I	41 WATE	RRECORD		PEN HOLE	RECORD) OF OPENING NO.)	31-33 DIAM	ETER 34-38	75 80 LENGTH 39-40
	AT - FEET		INSIDE DAM. MATERIAL INCHES	THICKNESS	OM TO	w	IAL AND TYPE	I	INCHES DEPTH TO TOP OF SCREEN	FEET
	5 0075 ² 05	SALTY 4 🗆 MINERAL	2 GALVANIZED	188 o	50	s				FEET
	1 <u></u> F	RESH 3 GULPHUR 19	3 CONCRETE 05 4 OPEN HOLE 17-18 1 STEEL 19		0020		LUGGING	& SEA		
	1 🗌 F 2 🗌 S	RESH 3 I SULPHUR 24 SALTY 4 I MINERAL				FROM 10-1	то	MATERIAL AND		MENT GROUT, PACKER, ETC.)
	25-28 1 🗍 F 2 🗋 S	RESH 3 SULPHUR 29	4 OPEN HOLE 24-25 1 STEEL 26		<u>0084</u>	18-2	21 22-25			
	30-33 1 🗌 F 2 🗌 S	RESH 3 I SULPHUR ^{34 80} GALTY 4 MINERAL	2 🗌 GALVANIZED 3 🗌 CONCRETE 4 🔲 OPEN HOLE			26-2	9 30-33 8	10		
$\left(\right]$	71 PUMPING TEST METHO	DD 10 PUMPING RATE	11-14 DURATION OF PUM	PING						
Ч		WATER LEVEL 25	GPM 15-16 ноиго 1. реген	DO 17-18 MINS.	IN D	AGRAM BELO	W SHOW DISTANC	ES OF WELL FR		
	LEVEL	PUMPING		ECOVERY			Lot		N	
	0 1 30 FEET	70_{FEET} 70_{FEET}	0.70^{29-31}_{FEET} 0.70^{32-34}_{FEET}	FEET		2			1	
	Z GIVE RATE	38-41 PUMP INTAKÉ SET /	FEET WATER AT END OF	2 CLOUDY					/'	
	RECOMMENDED PUMP	TYPE RECOMMENDED	43-45 RECOMMENDED PUMPING	46-49					/	
l	50-53 000.2	GPM./FT. SPECIFIC C		GPM.		البراوية فقاطبتك بالأكار				
بون	FINAL STATUS	WATER SUPPLY 2 OBSERVATION WELL 3 TEST HOLE	5 ABANDONED, INSUFFI 6 ABANDONED, POOR Q 7 UNFINISHED	CIENT SUPPLY	8° +. + -	1 - 7.				
ŀ	OF WELL	4 RECHARGE WELL			7.47	Ý ma	-1			
	WATER USE 0/	2 STOCK	G OMMERCIAL G MUNICIPAL DUBLIC SUPPLY G COOLING OR AIR CONDITI 9 NOT US							
·	METHOD		6 [] BORING		k		the	Sout	ŧ۸,	
	OF	² ROTARY (CONVENTIONA ³ ROTARY (REVERSE) ⁴ ROTARY (AIR)	L) 7 🗌 DIAMOND 8 🗋 JETTING 9 🗍 DRIVING				馬內	mo	M	
Ľ		5 AIR PERCUSSION			DRILLERS REMARKS	S:				
5 L	Saunde :	TRACTOR S ell Drilli		480		58 CON	4724	62 DATE RECEIVED	170/	63-68 80
		mi r				TION	INSPECTOR		À,	$\overline{\mathbf{a}}$
	NAME OF DRILLER O	· · · · ·	LICENC	E NUMBER	S REMARKS:			1/		
_ I	Z T Obr O SIGNATURE CONT		SUBMISSION DATE		OFFICE		la la companya da la comp	CS ^S		
Ľ	Daliet	Saundein	DAY 4 MO. 4	US YR. 69	ō			<u> </u>		J.B.
	OWRC C	OPY								

later management in (Datario 1. PRINT ONLY IN SF 2. CHECK X CORREC	PACES PROVIDED CT BOX WHERE APPLICAE	BLE 112	15	11444	MUNICIP. 15-99	C CON.	
Call	ter	TOWNSHIP-BOROUG	H, CITY, TOWN, VILLA	GE 3	9	., BLOR TRACT, SUF	4	
		F	R# 7,	OU	ava			YR YR
		No D	22881		<u>°</u> √√ <u></u> \$			
	LO	G OF OVERBUR	DEN AND BEC	DROCK MA	TERIALS (SEE	INSTRUCTIONS)		-
GENERAL COLOUR	COMMON MATERIAL	OTHER	MATERIALS		GENER	AL DESCRIPTION	F	DEPTH - FEET ROM TO
MAL.	Carl		· · · ·				\ 	3 16
g ug	any						(
while	sandalon	<u> </u>					10	2 58
								- 30
						•		
1 / 60/6	2051 1 19255	8/18 11						
		51 CASING 8				54 S) OF OPENING	65 31-33 DIAMETER	34-38 LENGTH
	KIND OF WATER	INSIDE MATERIA	WALL	DEPTH - FEE		F NO.)		INCHES
58 205	RESH 3 🗋 SULPHUR 14 ALTY 4 🗌 MINERAL	INCHES	INCHES			RIAL AND TYPE	- OF SC	TO TOP 41-4 REEN FEET
15-18 1 [] FI 2 [] Si	RESH 3 C SULPHUR	3 □ CONCRET 4 □ OPEN HC	E ISS	0 Ž	1	LUGGING	& SEALING	194
20-23 1 [] FI -2 [] SJ		17-18 1 STEEL 2 GALVANI			FROM	TO	ATERIAL AND TYPE	(CEMENT GROUT LEAD PACKER, ET
25-28 1 - FI	RESH ³ SULPHUR	3 CONCRET 4 OPEN HC 24-25 1 STEEL		ŐŰ	58	B-21 229-25	· · · ·	
30-33 1 [] FI	RESH 3 C SULPHUR 34 80	2 GALVANI 3 CONCRET	E			-29 30-33 80	tana ang ang ang ang ang ang ang ang ang	
PUMPING TEST METHO	L	4 OPEN HC						·
	WATER LEVEL 25	GPM.	15-16 0 17-1 HOURS MIN		IN DIAGRAM BEL	OCATION (OF WELL FROM ROA	D AND
STATIC LEVEL	END OF WATER PUMPING 22-24 15 MINUTES		PUMPING 2 RECOVERY NUTES 60 MINUTES	-	LOT LINE. INDI	CATE NORTH BY ARRO	W .	
POG FEET	5 FEET 12 FEET	15 FEET 15	-32-34 FEET /5					
IF FLOWING, GIVE RATE	38-41 PUMP INTAKE SE	FEET ID C	END OF TEST 4	12	۲.	. j	S. TID	<u> </u>
	TYPE RECOMMENDED PUMP DEEP SETTING		NDED 46-4			1-1	South 10	
50-53 00	2. 3 GPM. /FT. SPECIFIC					Brank	= 11	(//
FINAL STATUS	¹ OBSERVATION WELL	⁶ ABANDONED,	INSUFFICIENT SUPPLY POOR QUALITY			12 1	,	$\mathbf{V}_{\mathbf{r}}$
OF WELL	3 TEST HOLE 4 RECHARGE WELL			4 >				
WATER	2 STOCK 3 IRRIGATION	5 COMMERCIAL 6 MUNICIPAL 7 PUBLIC SUPPLY			IV	£2.61	1//	
		8 COOLING OR AIR	CONDITIONING NOT USED					
USE 01	1 Detable TOOL 2 O ROTARY (CONVENTIO					1		
USE 0/	I - LI RUIART (CONVENTION)	NAL) 7 🗌 DIAM(8 🗌 JETTII	NG					
USE 0/ METHOD OF	³ ROTARY (REVERSE) ⁴ ROTARY (AIR)	9 🗌 DRIVII		1.1			,	
USE () METHOD OF DRILLING	3 ROTARY (REVERSE) 4 ROTARY (AIR) 5 AIR PERCUSSION	9 🗌 DRIVI		DRILLERS				
USE 0/ METHOD OF	3 ROTARY (REVERSE) 4 ROTARY (AIR) 5 AIR PERCUSSION	9 Drillery	LICENCE NUMBER	DATA	58 cc	3644	DATE RECEIVED	63-69
USE // METHOD OF DRILLING	3 ROTARY (REVERSE) 4 ROTARY (AIR) 5 AIR PERCUSSION THEOR 3 2 4	9 Drilbry Drilbry Dihmon			58 C		DATE RECEIVED 08.107	11 63-69 m.
USE () METHOD OF DRILLING	3 ROTARY (REVERSE) 4 ROTARY (AIR) 5 AIR PERCUSSION THEOR 3 2 4	9 Drilbry Drilbry rihmon		DATA SOURC DATE C	E 58 C	3644	DATE RECEIVED	P

		The C	ISTRY OF THE Ontario Wate	er Resourc	es Act		. 1 N ₁₁ · · · ·		
ONTARIO	1. PRINT ONLY IN SP			1.2	22441		CON	3191	5d
COUNT OR DISTRICT		TOWNSHIT OF COURSE	ITY. TOWN. VILLAGE	3	9 CON	BLOCK TRACT SUR			22 23 24 LO. ' 15-27
aulter		! Ilan	ch		7 6	lot ay		ETED	
		NG NG	chmor		M.	BASIN CODE	DAY	MO	
			- •	290) 4	26	JAN 12	1975	44
GENERAL COLOUR	MOST COMMON MATERIAL		ATERIALS			AL DESCRIPTION		DEPTH	- FEET TO
					1.4	- 1			10
yuy x	sandstone				while	a que	1	0	62
Note:	AJA	JAKKOLA	2						
	Nert (uner.							
		······································			······································				
31 00622	4/8								
1 2 10 14	R RECORD	51 CASING &	OPEN HOLE			4 4 OF OPENING NO (31-33 DIAMETER	R 34-38 L	75 80 ENGTH 39-40
AT - FEET	KIND OF WATER	INS DE MATERIAL	WALL THICKNESS	DEPTH - FEET		HAL AND TYPE	p	INCHES	FEET
102 2 s	RESH 3 I SULPHUR 14 ALTY 4 I MINERAL RESH 3 I SULPHUR 19	10-11 10-11 2 GALVANIZED 3 CONCRETE	12 100 1	3 002					FEET
2 🗋 S	ALTY 4 MINERAL	4 [] OPEN HOLE 17-18 1 [] STEEL	19			ET AT - FEET	G & SEALI	VDE (CEMEN	IT GROUT
2 _ S. * 25-28 1 _ F	ALTY 4 MINERAL RESH 3 SULPHUR ²⁹	2 🗍 GALVANIZED 3 🗌 CONCRETE 4 🗌 OPEN HOLE			FROM 10-	13 14-17			KER. ETC.1
2 □ S. 30-33 1 □ F	ALTY 4 D MINERAL RESH 3 D SULPHUR 3480	24-25 1 🗆 STEEL 2 🗌 GALVANIZED 3 🗌 CONCRETE	26	27	26-				
PIMPING FEST METHOD	ALTY 4 MINERAL 10 PUMPING RATE	4 OPEN HOLE	PUMPING			DCATION C]
0.77110	ATER LEVEL 25 END OF WATER LEVE	GPMHC	5-16 00 17-18 DURS 00 MINS	IN	DIAGRAM BELO	W SHOW DISTANCI	ES OF WELL FR	OM ROAD AN	D
	22-24 15 MINUTES		RECOVERY 5 50 MINUTES 2-34 1 - 35-37	LC	OT LINE. INDI	CATE NORTH BY A	RROW.		,
	38-41 PUMP INTAKE SET	AT WATER AT END	FEET FEET FEET		1	SUB LOT 1	SUB. LUT		2.
TF FLOWING GIVE RATE RECOMMENDED PUMP TY	GPM. YPE RECOMMENDED PUMP	FEET 1 CLEAN	R 2 CLOUDY		11	1 10 1	19 - 1	Ļ	
SHALLOW	DEEP SETTIGO	FEET RATE	/ U GPM.	10	_ //	n.36_1	(361	َ هـــَ	TI
FINAL	1 💋 WATER SUPPLY 2 🔲 OBSERVATION WELL	5 🗍 ABANDONED, INSU 6 🗍 ABANDONED POOI				mi t	The		
STATUS OF WELL 55-56	3 🗍 TEST HOLE 4 🗍 RECHARGE WELL	7 🗍 UNFINISHED			<i>C</i> . ~	verp kar		LOT	12.
WATER	2 STOCK 6 3 I IRRIGATION 7	COMMERCIAL MUNICIPAL PUBLIC SUPPLY							
	4 INDUSTRIAL 8	COOLING OR AIR COND 9 NO	1	le l	\	0	-		
METHOD	1 CABLE TOOL 2 CABLE TOOL 2 ROTARY (CONVENTION 3 ROTARY (REVERSE)			1 4	Su	is lat	19		
OF DRILLING	4 C ROTARY (REVERSE) 4 ROTARY (AIR) 5 AIR PERCUSSION	8 🛄 JETTING 9 🛄 DRIVING		DRILLERS REN	MARKS Reg	Plan .	735		
CE DENERI	and Well	filting ?	310 44	DATA		NTRACTOR 59-62	DATE RECEIVED		63-68 80
ACTO	26 Rich	mond R	nt.	L m	NSPECTION	INSPECTOR	· 10	0173	I
NAME OF DELETER OF	R BORER		CENCE NUMBER					Р	R
SIGNATURE F CONT	W Mauns	SUBMISSION DATE	YR	OFFICE			CSS.SR	w	<u></u> I
MINISTRY OF T	HE ENVIRONMEN		IN	L				FORM	7 07-091

(P /	/ / W		ntario Wate	ENVIRONMENT er Resources A	.ct	D	316/	Sd
	Ontario	1. PRINT ONLY IN 2. CHECK 🛛 CORF			1514388				03
co	UNTY OR DISTRICT		TOWNSHIP BOROUGH, CIT	Y, TOWN, VILLAGE	<u>-</u>	CON., BLOCK, TRACT, S	URVEY, ETC.	4	N 100
			. # :	l Kanata	, Ontario		DATE COM		48-53 YB 74
			522	650 4		4 26			IV
		LC	G OF OVERBURDEN	AND BEDR	OCK MATERIAL	S (SEE INSTRUCTIONS)			47
GE	NERAL COLOUR	MOST COMMON MATERIAL	OTHER MA	TERIALS		GENERAL DESCRIPTION	N	DEPTH FROM	- FEET
-		fill						D	3
	white white	sandstone sandstone	ananite	······				3	137
	111 60	sanus tone	granite					137	140
-					·····	······································			
┢									
									-
			· · · · · · · · · · · · · · · · · · ·						
Ķ									
3	2 6003	$ \mathbf{a} $	118 0140	1/821					
	2 18 1 WATI	ER RECORD	51) CASING & (RECORD	S4 SIZE(S) OF OPENING ISLOT NO.)	31-33 DIAMET	ER 34-34 LE	78 80 NGTH 39-40
Ywa.	TER FOUND	KIND OF WATER	INSIDE DIAM. MATERIAL INCHES	WALL	DEPTH - FEET	MATERIAL AND TYPE		INCHES	FEET 41-44 80
00	75 ² □	FRESH 3 SULPHUR 14 SALTY 4 MINERAL	CARTIN I DESTEEL 12 2 GALVANIZED	18 8 C		So la		OF SCREEN	FEET
¢ ı	.38 ' 🗆	SALTY 4 MINERAL	3 CONCRETE 5 7/8 Gropen Hole 17-18 1 Steel 19		2. 140	61 PLUGG	NG & SEALI		
	2	FRESH ³ SULPHUR ²⁴ SALTY ⁴ MINERAL	2 🗌 GALVANIZED 3 🗋 CONCRETE			FROM TO 10-13 14-17	MATERIAL AND	TYPE (CEMEN' LEAD PACI	
	2 []	FRESH 3 🗋 SULPHUR ²⁹ Salty 4 🗋 Mineral	24-25 1 GALVANIZED		0140	18-21 22-23			
L	30-33 1 []	FRESH 3 🗌 SULPHUR ³⁴ ³⁶ Salty 4 🗌 Mineral	3 🗍 CONCRETE 4 🗌 OPEN HOLE			28-29 30-33	0		
1	PUMPING TEST METHO	20	11-14 DURATION OF PU	NPING 00 17-18 RSMINS_		LOCATION	OF WELL		
\lfloor	STATIC LEVEL	WATER LEVEL 25 END OF WATER LEV PUMPING		RS MINS. PUMPING RECOVERY	IN DIAGR	AM BELOW SHOW DISTAN . INDICATE NORTH BY	CES OF WELL F ARROW.	ROM ROAD AN	D
TEST	0 23	22-24 15 MINUTES 26-28 70 FEET 0 70 FEET	30 MINUTES 45 MINUTES 29-31 32-3 70 70 70						
PUMPING	U 23 FEET	38-41 PUMP INTAKE SE	TAT WATER AT END O						
PUMI	RECOMMENDED PUMP	GPM. TYPE RECOMMENDED PUMP	43-45 RECOMMENDED	2 CLOUDY 46-49					
	SHALLOW	GPM./FT. SPECI	75 FEET RACE OC) 5 _{дрм.}	5			ł	1
	FINAL	1 🕱 WATER SUPPLY 2 🗋 OBSERVATION WELL	S 🗍 ABANDONED, INSUFF 6 🗌 ABANDONED, POOR (2			Ġ	
	STATUS /	 J TEST HOLE 4 □ RÉCHARGE WELL 	7 UNFINISHED	ZUALITY	TC		(51
	WATER .	1 LE DOMESTIC 2 STOCK	5 🗍 COMMERCIAL 6 📋 MUNICIPAL			.45 mile			
	USE 01		7 DUBLIC SUPPLY 8 COOLING OR AIR CONDIT 9 NOT 1	1		OLD CH	AP ROAD	>	•
	METHOD	+ Cable Tool	6 🗍 BORING			OLD CH new hom Cedar Jen	e - st	ne to	read
	OF S	2 D ROTARY (CONVENTIO 3 D ROTARY (REVERSE) 4 ROTARY (AIR)	NAL) 7 🗇 DIAMOND 4 🗇 JETTING 9 🗇 DRIVING			Cedar Jer	ich	۲	
	NAME OF WELL CON	S CM AIR PERCUSSION			DRILLERS REMARKS:				
В		Ital Water Supp		SSB	DATA SOURCE DATE OF INSPECTION	58 CONTRACTOR 59-6	2 DATE RECEIVED	1174	63-68 80
RACTOR		490 Stittsvil	le, Onterio		3016	177 INSPECTOR	P. Hol	Jon	
CONTI	G. I	Dagg	/	NCE NUMBER		1	<u>·</u> t.//	P	
Ľ	STOTATURE OF CON	Kava	SUBMISSION DATE	10 yr. 74	OFFICE		CS5.58	WI	
I	MINISTRY	OF THE ENVIR	ONMENT COPY				· _ · _ · · · · · · · · · · · · · · · ·	FORM 7	07-091

			NISTRY OF THE Ontario Wate			s •		
	W	ATER					316/5	d
Ontario	1. PRINT ONLY IN			15144			<u>م.</u> م.	
COUNTY OR DISTRICT		TOWNSHIP, BOROUGH.		3	9 CON., BLOC	K, TRACT, SURVEY, ETC		
Carlet	ton	March			3	DAT	E COMPLETED	
		R.	# 1 Kanat	a. Ontario		DA	<u>17 но 10</u>	
		2		H 0285	4			
GENERAL COLOUR	LC	OG OF OVERBURD					DEPTI	H - FEET
	COMMON MATERIAL		MATERIALS		GENERAL DE	SCRIPTION	FROM	то
grey	snadstons			ha				3 247
			······································		* W		3	24 [
		······						
				· · · · · · · · · · · · · · · · · · ·				
		1						
			· · · · · · · · · · · · · · · · · · ·					
	and an							
	· · · · · · · · · · · · · · · · · · ·							
31 0.003	628 1 0247	121/8173						
				43			65	
41 WATI	KIND OF WATER	mente		RECORD	SIZE(S) OF OF (SLOT NO.)	PENING 51-33	DIAMETER 34-38	LENGTH 39-40 Feet
10-13 1	FRESH 3 🗍 SULPHUR 14 SALTY 4 🗋 MINERAL	INCHES	12 389	ком то D 0020-16		ND TYPE	DEPTH TO TOP OF SCREEN	41-44 80 FEET
	FRESH 3 🗋 SULPHUR ¹⁹ 🗘 SALTY 4 🗆 MINERAL	CONCRETE	0	20 247	61	PLUGGING & S	EALING RECO	
20-23 1	FRESH 3 _ SULPHUR 24 SALTY 4 _ MINERAL	17-18 1 STEEL 2 GALVANIZE 3 CONCRETE	11	20-23	DEPTH SET AT	TO MATERIA		NT GROUT, ICKER, ETC.)
25-28 1 [] 2 []	FRESH S SULPHUR 29 SALTY 4 MINERAL	24-25 1 STEEL	26	0247 ²⁷⁻³⁰	10-13	14-17		
	FRESH S SULPHUR ³⁴ 80 Salty 4 Mineral	2 🗌 GALVANIZE 3 🗋 CONCRETE 4 🗌 OPEN HOLE			26-29	30-33 80		
		11+14 DURATION OF	F PUMPING 15-16 17-18		LOCA	TION OF W	ELL	
	WATER LEVEL 28	GPM	HOURS MINS PUMPING RECOVERY	IN DIA LOT LI		OW DISTANCES OF W NORTH BY ARROW.	ELL FROM ROAD A	ND
	22-24 15 MINUTES 26-26 DG V	30 MINUTES 45 MINUT						
S FEET IF FLOWING. GIVE RATE RECOMMENDED PUMP	FEET 448 4 AEET 38-41 PUMP INTAKE SE							
	PUMP .4	43-48 RECOMMENDE PUMPING	AR 2 CLOUDY ED 46-49					
50-83	GPM./FT. SPECI	FEET RATE	GPM.		JIN CAR	D ROAD		
FINAL STATUS	1 🗌 WATER SUPPLY' 2 🔲 OBSERVATION WELL	5 📕 ABANDONED, INS 6 🔲 ABANDONED, POI		, , ,		.475 mile	·	(1.
OF WELL	4 C RECHARGE WELL	7 🔲 UNFINISHED		4	\downarrow			#
WATER	1 C DOMESTIC 2 STOCK	5 COMMERCIAL 6 MUNICIPAL 7 D PUBLIC SUPPLY		100	is stone	-faced	and f	1mg
USE	4 🔲 INDUSTRIAL	8 COOLING OR AIR COM 9 D N	NDITIONING IOT USED	ceda	~ finis	r-faced hert home		
s: سر METHOD	1 CABLE TOOL CONVENTION	6 🗍 BORING ONAL) 7 🗍 DIAMON		,	v			
	3 🗌 ROTARY (REVERSE) 4 🔲 ROTARY (AIR) 5 🙀 AIR PERCUSSION	8 🗍 JETTING 8 🗍 DRIVING	;					
NAME OF WELL CO			LICENCE NUMBER	DRILLERS REMARKS	58 CONTRACT		EIVER	63-68 80
Address	al Water Supply	y Ltd.	1558	SOURCE	-	58 (81174	
Box 4	90 Stittsville		LICENCE NUMBER		6/77	P- 9	Holby	
AND DE LE CONTRA	NITRACTOR	SUBMISSION DATE		OFFICE			0 P	
Latte	Aavana		D. 10 YR 74	ō		N.53	l_,	
MINISTRY	OF THE ENVIR	ONMENT COP	Ϋ́				FORM	7 07-091

MINISTRY OF THE ENVIRONMENT The Ontario Water Resources Act	21/1-1
WATER WELL RECO	RD 3-16/54
Ontario 1. PRINT ONLY IN SPACES PROVIDED 1. CORRECT BOX WHERE APPLICABLE	5006 CØN OH
	TRACT, SURVEY, ETC.
R.1 Kanata Ont.	DATE COMPLETED
	47
LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCT	RIPTION DEPTH - FEET
Brown C/Ay Soft.	FROM TO
Gray sondstrie Hard	85 90
002560585 009021/8173	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	
41 WATER RECORD 51 CASING & OPEN HOLE RECORD size(s) of OPEN AT - FEET NATER DIAM MATERIAL MALL DEPTH - FEET UNCHES FROM JO MATERIAL AND	INCHES FEET
$0.65 \begin{array}{c} 10.13 \\ 2 \\ 2 \\ 3 \\ 3 \\ 1 \\ 4 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 2 \\ 3 \\ 1 \\ 1 \\ 2 \\ 3 \\ 1 \\ 1 \\ 1 \\ 1 \\ 2 \\ 3 \\ 1 \\ 1 \\ 1 \\ 2 \\ 3 \\ 1 \\ 1 \\ 1 \\ 1 \\ 2 \\ 3 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	OF SCREEN FEET
20-23 1 - EPESH 3 - SULPHUR 20-23 1 - EPESH 3 - SULPHUR 20-24 - EPESH 3 - SULPHUR 20-25 1 - EPESH 3 - SULPHUR 20-26 - EPESH 3 - SULPHUR 20-27 - SULPHU	MATERIAL AND TYPE (CEMEN) GROUT,
2 GALTY 4 MINERAL 3 GONGRETE 25-28 1 FRESH 3 GULPHUR 29 4 GALTAREL 3 GONGRETE 4 GALTAREL 3 GONGRETE 3 GONGR	14-17
2 SALTY 4 MINERAL 24-25 1 STEEL 26 27-30 16-21 30-33 1 FRESH 3 SULPHUR 34 20 3 CONCRETE 26-29 26-29 2 GALVANIZED 3 CONCRETE 26-29 26-29 26-29	22-25 30-33 80
	TION OF WELL
STATIC WATER LEVEL 25 LEVEL PHIMPING WATER LEVELS DURING 2 PECOVERY LOT LINE. INDICATE NO	V DISTANCES OF WELL FROM ROAD AND ORTH BY ARROW.
$\frac{19\cdot 21}{90} \xrightarrow{22\cdot 24} 15 \text{ minutes} 30 \text{ minutes} 45 \text{ minutes} 60 \text{ minutes} 9011 \text{ feet} 030 \text{ feet} 0300 \text{ feet} 03000 \text{ feet} 0300000000000000000000000000000000000$	1
IF FLOWING. 38-41 PUMP INTAKE SET AT WATER AT END OF TEST 42 GIVE RATE GPM FEET 1 CEAR 2 CLOUDY RECOMMENDED PUMP TYPE RECOMMENDED 43-45 RECOMMENDED 46-49 PUMP PUMP PUMP PUMP A4-45 RECOMMENDED 46-49	Ń N
RECOMMENDED PUMP TYPE PUMP SHALLOW DEEP So-53 GPM./FT. SPECIFIC CAPACITY RECOMMENDED GPM./FT. SPECIFIC CAPACITY	De la biele
FINAL 1 DESERVATION WELL S DABANDONED, INSUFFICIENT SUPPLY	Delarge brick Shone Jullon garage door old carp road
STATUS 3 D TEST HOLE 7 D UNFINISHED OF WELL 4 D RECHARGE WELL	garage dor
WATER 3 IRIGATION 7 DUBLIC SUPPLY	old carp road
METHOD 6 BORING 2 ROTARY (CONVENTIONAL) 7 DIAMOND OF 3 ROTARY (REVERSE) 8 D JETTING	
DRILLING 4 ROTARY (AIR) 9 DRIVING AIR PERCUSSION DRILLERS REMARKS:	
HAME OF WELL CONTRACTOR ADDRESS 2107-465 Kichmond Koud Ollauring 10 6/77	59-62 DATE RECEIVED 03-68 80
AME OF ORIGINAL ROLLER OR BORED : LICENCE NUMBER STREMARKS:	PAdley Kn
$ z \neq z \leq c n$	/)' i_ I
SIGNATURE OF CONTRACTOR SIGNATURE OF CONTRACTOR SUBMISSION DATE DAY UN 7 VP7-10	U ^T WI WI

F	W		ISTRY OF TH Ontario Wa	ter Re	sources A	vct _		• • • • • • •	31	GSd
Ontario		SPACES PROVIDED		11:	516260].]	MUNICIP	Con.	V L 1 1	03
COUNTY OR DISTRICT	······································	RECT BOX WHERE APPLICABLE	TITY, TOWN, VILLA			CON	., BLOCK, TRACT, SURVEY	15		22 23 74 0/25-27
[er]ai	top	Match		<u></u>	· · · · · · · · · · · ·	3	<u> </u>	DATE COMPL	ETED 1	48-53 77
			rimsose	Ave.	Ottawa	Ontar RC.	BASIN CODE	DAY 04	мо	U YR. <u>77</u>
1 2	^m 10 <u>12</u>	17 18	3,1,4,0	25	26 26 0	<u>y</u>	31	<u> </u>		4
GENERAL COLOUR	MOST		ATERIALS	DROCK	MATERIA		INSTRUCTIONS)			1 - FEET
brown	common material				Dac	ked			FROM	то 9
brown	clay	boulders				cked			9	11
grey	limestone	sandstone			hai	rd			11	35
grey	sandstone								35	115
										,
WATER FOUND AT - FEET	Image: Second	INSIDE DIAM MATERIAL INCHES I DISTEEL	WALL WALL MICKNESS INCHES				St St OF OPENING T NO 1 ERIAL AND TYPE		R 34-38 INCHES DEPTH TO TOP OF SCREEN	 LENGTH 39-40 FEET 41-44 3 FEET
15-18 1 2 2 20-23 1 2 2 25-28 1 2 2 30-33 1	FRESH 3	2 GALVANIZE 3 (1) CONCRETE 4 JPEN HOLI 17-18 1 (2) STEEL 2 GALVANIZE 3 (2) CONCRETE 4 GOPEN HOLI 24-25 1 (2) STEEL 2 (2) GALVANIZE 3 (2) CONCRETE 4 (2) OPEN HOLI	E 19 20 E 26 20	22	20-23 0/15 27-30	FROM	PLUGGIN (I SET AT - FEET TO 10-13 14-17 18-21 22-25 6-29 30-33 80	S & SEALI		DRD
TID UMPING TEST MET STATIC LEVEL 19-21 020 FEET 020 FEET 19-21 19	2 BAILER 20 1 WATER LEVEL END OF PUMPING 25 WATER WATER WATER 26 22-24 15 MINUTES 070 26 070 FEET 070 F 38-41 PUMP INTAKE 6PM 6PM MP TYPE PUMP SETTING 70	LEVELS DURING 1 LEVELS DURING 1 S 30 MINUTES 45 MINU C28 070 29-31 070 FEET 070 070 070 FEET 1 CLI	15-16 O HOURS PUMPING RECOVERY TES 60 MINUT J32-34 AD FEET AD FEET AD EAR 2 CLOU DED A	5-37 FEET 42	IN DIA Lot L	GRAM BE	LOCATION O LOW SHOW DISTANCES DICATE NORTH BY AR + AND	S OF WELL F		AND
FINAL STATUS OF WELL • • • • • • • • • • • • •	4 🗆 INDUSTRIAL	7 UNITINISHED 5 COMMERCIAL 6 MUNICIPAL 7 DUBLIC SUPPLY 8 COOLING OR AIR CO	OOR QUALITY	PLY			45 mile	# hnnt		
METHOD OF DRILLING	OTHER OTHER		N D I G	D	OL_		ARP RD.	50	n AR	Ч
ADDRESS	CONTRACTOR tal Water Supp 490 Stittsvill ER OR BORER		LICENCE NUMBER 1558		ritus	ne 24	178 Hiseecran	DATE RECEIVED	1177)N	63-68 8
NAME OF DRILL	j j					•		1.	1	P
To Quak		SUBMISSION DATI		77 77		BA	an Buc	h	-	P W I

Ministry of the			The (Ontario Water Resour	ces Act	31G5d
Environment		WAT		WELL		ORC
	INT ONLY IN SPACES PROVIDED ECK 🗵 CORRECT BOX WHERE APPLICAE		51683	15.0.06	CON	0.3
COUNTY OR DISTRICT		I. CITY. TOWN. VILLAGE		CON., BLOCK, TRACT, SURVE	15 °.	0 1/2 23 20 25 21 25 21
	-/	Canot		PR +1	DATE COMPLETED	48-53
	NG	2900	nall	BRANCODE		
	LOG OF OVERBURI	DEN AND BEDRO	CK MATERIA	LS (SEE INSTRUCTIONS)		4
GENERAL COLOUR CONMON MA		R MATERIALS		GENERAL DESCRIPTION	E FROM	EPTH - FEET
Brown Sand	4	1 1		loose	0	2
Muy Sand	stone when	le layer	20	hard	2	125
					1	
			-			
						
		·······				
				i		
31) 00,026,28771	612521877473					
41 WATER RECORD			RECORD	Z (SLOT NO)	1-33 DIAMETER 34-3	
AT - FEET RIND OF WATER	DIAM. MATERIAL INCHES	THICKNESS INCHES FRO	то на	MATERIAL AND TYPE	DEPTH TO T OF SCREEN	
21 SALTY 4 □ MIT 15-18 1 □ FRESH 3 □ SUI 2 □ SALTY 4 □ MIT	LPHUR 19	E	0022	61 PLUGGING	& SEALING RE	
20-23 1 FRESH 3 SUL 2 SALTY 4 MIN	LPHUR 24 06 17-18 1 - STEEL 2 - SALVANIZ	19 ZED	20-23 0 <i>055</i>	DEPTH SET AT + FEET		CEMENT GROUT
25-28 1 _ FRESH 3 _ SUI 2 _ SALTY 4 _ MIT	LPHUR 29			10-13 T4-17 18-21 22-25		
30-33 1 [] FRESH 3 [] SUI 2 [] SALTY 4 [] MIT	LPHUR 34 80 2 GALVANIZ	E	- 125	26-29 30-33 80		
PUMPING TEST METHOD 10 P	UMPING RATE IS-14 DURATION	OF PUMPING		LOCATION OF	WELL	
1 PUMP 2 DBAILER STATIC WATER LEVEL 2 LEVEL BUNGUE	GPM	15-16 00 17-18 HOURS MINS	IN DIA	GRAM BELOW SHOW DISTANCES	OF WELL FROM ROA	DAND
	2 15 MINUTES 30 MINUTES 45 MINU 26-28 29-31	RECOVERY UTES 60 MINUTES 32-34 35-37		NE INDICATE NORTH BY ARR	\sim	
2 IF FLOWING SIVE RATE SIVE RATE	SO FEEDSO FEET SO	FEET 50 FEET END OF TEST 42				
	FEET 1 CL FEET 1 CL ECOMMENDED 43-45 FECOMMEN HUMP FUMPING					
SI SHALLOW DEEP S	ETTING 075 FEET RATE	205 gpm.		House		5
FINAL 54 1 E WATER		NSUFFICIENT SUPPLY				
STATUS / 3 □ TEST H OF WELL / 4 □ RECHAI	OLE 7 UNFINISHED	OUR GUALITY		le T		N.
	6 🔲 MUNICIPA.			ur de		, P
	RIAL B COOLING OR AIR CO	ONDITIONING NOT USED		Ola	l Coup Rd	
				Ň	· lomi	
	(AIR) 9 [] DRIVIN	IG				
		LICENCE NUMBER	DRILLERS REMARKS			<u> </u>
BOX 490 State	R SUPPLI LID eville, Ontari	1558	DATA SOURCE	1558	1 812	? 8 ⁶³⁻⁶⁸ ⁸⁰
Boy 490 Stitl	eville, Ontari		5 22/0	5-(7.9) INSPECTOR	ß	
S Miller Signature of contractor	SUBMISSION DATE	EICENCE HUMBEN				
It Kawana	9	40_11_178	OF		055.55	
MINISTRY OF THE	ENVIRONMENT COPY				FORM	1 NO. 0506—4—77

	یستا ان مار th		-2 1		TE			Water Resource			Gsd RN
Ŭ Ont	1 1	ronment		VVA		5179		MUNICIP.			
		1. PRINT ONLY IN 2. CHECK 🛛 CORR	SPACES PROVIDED IECT BOX WHERE APPLICABLE TOWNSHIP, BOROUGH, CITY	Y, TOWN. VILLAG		J / J		IS BLOCK TRACT SURVEY.			<u> </u>
	Ottow	- inplaton -		ita - n		CH TWI	2.	Conc.	DATE COMPLETED		11
			Sout	th Marcl	h, C)ntario	•		DAY_17_,	io7	7 <u>YR3.2</u>
	1	M 10 12		799	¥.	08.80	Š.			<u> </u>	
		L	DG OF OVERBURDEN	NAND BED	ROCK	MATERIAL	S (SEE	INSTRUCTIONS)		DEPTH -	
GEN	IERAL COLOUR	NOST CONMON MATERIAL	OTHER MA	TERIALS			GENEI	RAL DESCRIPTION		ROM	TO
5	rown	Sand	Gravel			Fi	11			()	3
6	iray	Sandstone				itte	dium	·		3	53
-											
								- <u>- 1 1.000 - 0.000</u>			
						•					
-											
		362811101 005	321878 1		,						_
3					L L						LJ L
A	D WA	TER RECORD	51 CASING &	OPEN HOL				E(S) OF OPENING 3 OT NO)	1-33 DIAMETER		NGTH 39-40
WA	TER FOUND AT - FEET 10-13 1 d	KIND OF WATER	INSIDE DIAM MATERIAL INCHES	WALL THICKNESS INCHES	FRUM	гн - FEET ТО 13-16		TERIAL AND TYPE	DEPI OF 5	INCHES H TO TOP CREEN	FEET 41-44 30
do i	5() ! ' [SALTY 4 MINERAL	CL ¹⁰⁻¹¹ STEEL 2 GALVANIZED 1 CONCRETE	188	0	∞ <u>2</u> 2		PLUGGING	R CEALING		
	2 0		4 OPEN HOLE	19		20-23	61 DEPTH	H SET AT - FEET	ATERIAL AND TYPE	CEMEN	NT GROUT
	2 C	SALTY 4 🗍 MINERAL	0 65 3 □ CONCRETE 10 4 © OPEN HOLE		22	<i>0</i> 53		10-13 14-17			
	2	29 FRESH 3 SULPHUR 29 SALTY 4 MINERAL	24-25 1 GALVANIZED	26		27-30		18-21 22-25			
Ļ		FRESH ³ SULPHUR ³⁴ SALTY 4 MINERAL	3 CONCRETE 4 OPEN HOLE					26-29 30-33 80			
(71	UMPING TEST ME		1	5-16 OD 17				LOCATION O	FWELL		
	STATIC	WATER LEVEL 25 END OF WATER PILMPING		PUMPING RECOVERY		IN DIA LOT LI		LOW SHOW DISTANCES		M ROAD AI	1 D
TEST	020"-2		28 29-31 3	32-34 35	-37						
DN I	IF FLOWING. GIVE RATE	T 030 FEET 030 FI 38-41 PUMP INTAKE	E SET AT WATER AT EN		42				1		
PUMPING	RECOMMENDED PL	SPM JMP TYPE RECOMMENDI PUMP	FELI	AR 2 CLOU	DY		l		l		
	SHALLON 50-53		04() FEET RATE	005	SPM		l		1 1		
	FINAL	54 I 🕅 WATER SUPPLY	S [] ABANDONED. INS		= [Ì				
	STATUS OF WELL	2 DBSERVATION WE 3 TEST HOLE 4 RECHARGE WELL	7 🗌 UNFINISHED	DR QUALITY		3	1	6'3" 22'	1		
-		55-56 1 2 DOMESTIC 2 STOCK	S COMMERCIAL		- `	Ħ	1				
	WATER USE Ø	IRRIGATION	7 D PUBLIC SUPPLY COOLING OR AIR CON				(Old Otto	rua	Rd	
		57 OTHER		OT USED							
	METHOD OF	CABLE TOOL CABLE TOOL CONVENT		D							
	DRILLING		DRIVING			DRILLERS REMAR	<s-< td=""><td></td><td></td><td></td><td></td></s-<>				
Γ	NAME OF WELL			LICENCE NUMBER	Ī		54	CONTRACTOR 59-62	051	0 8	9 63-64 10
TRACTOR	Capit ADDRESS	tal Water Su		1558		DATE OF INSPE		INSPECTOR	VUL	<u>v 0</u>	F
		LER OR BORER		A 3GO LICENCE NUMBER							
CON.		dontractor	vanagh SUBMISSION DATE			OFFICE					
	Al	Aula	Ceft DAY DI M	0. <u> </u>		0			FOR	M NO. 0506-	-4-77 FORM 7
	MINIST	RY OF THE ENVIR	ONMENT COPY								

Ontario Ministry of Environm	nent				· · · ·	The	<i>Ontario</i> WATER	Water Reso WELL F	ources Act RECORD
Print only in spa Mark correct bo	ces provided. x with a checkmark, whe	ere applicable.		1	53037	1	Municipality		
County or District	2a-Carleta	4	Township/Borouge	City Town/Villa	uge		Con block	tract survey, etc	Lot 25-27
	<u>a an</u>	<u> </u>	Address	Kaig	$\perp O$			S Date completed 16	10 98
1 2	T M III		Northing	<u>1 - L L L</u>	RC Elevatio		Basin Code	day	iii iv
General colour	· · · · · · · · · · · · · · · · · · ·	LOG OF O	VERBURDEN AND		ATERIALS (se	e instructio	· · · · ·	1	47
	Most common mate		Other mater	iais		General d		Fr	Depth - feet
Creysach	He quart	2							1 70
. latera	grane	te Svey	whiteq	nart	7				20 80
Date	DT7Wn V		1						
			Talked.				<u> </u>		
			F C						
. i 4	27 			en series and a series	· · · · · · · · · · · · · · · · · · ·		<u>. </u>		
		••••					<u>.</u>		
		×							
31									
	ER RECORD	51	CASING & OPEN H			Sizes of ope	ning 31-33	65 Diameter 34-38	
Water found at - feet	Kind of water	diam inches	Material Wall thicknes inches Steel ¹²	s From	To 13-16		type	inches	feet at top of screen 30 41-44
7 15-18 14	Saling Gas Fresh Gas	61.	Galvanized Concrete Open hole		Ŭ				41-44 feet
TY 20-23 1	Fresh ³ Sulphur ²⁴	17-18 1	Plastic 00 Steel ¹⁹ Galvanized	0	22		PLUGGING 8	SEALING RE	CORD Indonment
25-28 1	Salty 4 Minerals 6 Gas Fresh 3 Sulphur 29	8, 3	Concrete Open hole Plastic	0	10 1	Depth set at - fe From Tr 2 ¹⁰⁻¹³ 2.2	o Material a	and type (Cement gr	out, bentonite, etc.)
30-33	Salty ⁴ Gas ⁶ Gas ⁶ Sulphur ³⁴ ⁶⁰	2 🗋	Steel ²⁶ Galvanized Concrete	2	27-30		2-25 CC	mont	rait
2 🗌	4 ☐ Minerals Salty 6 ☐ Gas		Open hole Plastic	20	ω	26-29	30-33 BO	C	
71 Pumping test met	thod ¹⁰ Pumping rate Bailer 25 ater level 25	28 GPM	ation of pumping 15-18 Hours Min:	<u>,</u>	In diagram hal				
Static level end	d of pumping Water levels		minutes 60 minutes	-37	Indicate north	by arrow.	stances of we	ll from road and	lot line.
ISU 19-21 To feet To See To S	e 10 feet 20 feet 2	20 feet 7	ter at end of test				T		1
Recommended pu	GPM ump type Recommended	feet 43-45 Rege	Clear > Cloudy	49			$\sim N$		N
	Deep pump setting		np rate 28 GP	м					
FINAL STATUS	lv 5 ☐ Abandoned.	sufficient supply	⁹ D Unfinished			7.	Shm]	λ	
2 Observation 3 Test hole 4 Recharge w	7 🗌 Abandopred (poor quality (Other)	Replacement well				~ ~	<u>]</u>]	
WATER USE	55-56		9 🗌 Not used		Ola	d Carp	, Rd ,		
2 🗍 Stock 3 🗋 Irrigation 4 🗌 Industrial	⁴ ☐ Municipal 7 ☐ Public supply 8 ☐ Cooling & air	v	10 🗍 Other			ļ			
METHOD OF CO	NSTRUCTION 57 5 PAir percussio							\mathcal{N}	
1 Cable teol 2 Rotary (conv 3 Rotary (reve 4 Dotary (air)	ventional) 6 🗆 Boring		 Driving Digging Other 					197	7265
Name of Well Contract									
Address Address	<u>^</u>	malo	Vell Contractor's Licence N		of inspection	optracctor	9 59-62	DEC 2 9	1998 *** *
Name of Well Technicia	an 7 Jappe	Det	Vell Technician's Licence N			Inspe			
Signature of Technician	. Docaulo	niers s	Topoy		المراجع م			CSS.	ES9
Ker	sype	8	ay mo yr					0506 (07)	94) Front Form 9
2 - MINIS	STER OF ENVIRO	NMENT & I	ENERGY COPY					0000 (07/	Say Tront Form 9

Ministry of Environment and Energy		The	Ontario Water WATER WE	
Ontario and Energy Print only in spaces provided. Mark correct box with a checkmark, where applicable.		1530397		on. O <mark>N</mark> 22 23 24
County or District	Township/Borough/City/To KAWATA (1 Address 1158-249/11	wnMillage Rural) The, Kanata, Onto	Con block tract sur	13 11
	Northing	RC Elevation RC	Basin Code ii	
1 M_10 I2 LOG OF OV	ERBURDEN AND BEDR	OCK MATERIALS (see instruc	tions)	
General colour Most common material	Other materials	Genera	al description	Depth – feet From To
WHITE STADSTONE				0 90
WHITE STRUSTONE BALLY GRAVITE				90 160
Red				
31				
			65	75 80
41 WATER RECORD 51 Water found Kard effunctor	CASING & OPEN HOLE	Depth - feet	opening ³¹⁻³³ Diame	ter ³⁴⁻³⁸ Length ³⁹
at – feet Ning of Water diam inches	Material thickness inches Steel ¹²	From To U	and type	Depth at top of screen 30
36 2 Monthy Testers.	Galvanized	4 18		icer
2 □ Salty 6 □ Minerals 7 5 □	Open hole Plastic	20-23 61	PLUGGING & SEA	
1	Steel Steel Galvanized	B IAD Depth set a	Annular space	Abandonment (Cement grout, bentonite, etc.)
25-23 1 C Fresh 3 C Sulphur 29	Open hole Plastic	From 10-13	10 10-17 (and V	
<u> </u>	Steel ²⁶ Galvanized Concrete	27-30 18-21	0 2 2 25	······································
A Difference of the second sec	Open hole Plastic	26-29	30-33 80	
	uration of pumping		DCATION OF WELL	
Vater Invel 25	Hours Mins	In diagram below show	v distances of well from	road and lot line.
Static level end of pumping water levels during	imping 2 🗌 Recovery 5 minutes 60 minutes	Indicate north by arrow		A
E 12, 50 36° 43°	47 50	Alpoly 22 Line	N. Contraction of the second sec	Ŵ
If flowing give rate 38-41 Pump intake set it W	ater at end of test 42		Od Caro	$u \supset$
Recommended pump type Recommended A Recommended Recommended Recommended Recommended	Clear Cloudy ecommended 46-49			
C Shallow Deep pump setting the feet	ump rate 5 GPM			==
FINAL STATUS OF WELL 54			^	× ×
1 Water supply 5 Abandoned, insufficient supply 2 Observation well 6 Abandoned, poor quality	ly 9 🔲 Unfinished 10 🔲 Replacement well	-		.3Kul
3				
WATER USE	9 🗌 Not used			
Domestic 5 Commercial Ze Stock 6 Municipal July and the store of the s	• Other			-
4 🗌 Industrial 8 🗌 Cooling & air conditioning			T-2 We	ell .
METHOD OF CONSTRUCTION 57	9 🔲 Driving			3. 2nd hive
2 🗌 Rotary (conventional) 6 🗂 Boring 3 🗌 Rotary (reverse) 7 📋 Diamond	¹⁰ □ Digging ¹¹ □ Other	للى ا	200	198116
4 🗌 Rotary (air) 8 🗍 Jetting			\	
Name of Well Contractor	Well Contractor's Licence No.	Data 59 Contracto		received 63-68 80
Name of Well Contractor STANTON BRILLING INC Address Box 219, Palonham, Ony:	1017	Z 4: (Inspector	EC <u>G 1 1998</u>
Box 29, Halarham, Ch 1:	KOM CXO	Remarks		
Name of Weij Technician-	Well Technician's Licence No.			CSS. ES9
Signature strangening productor	Submission date 98	NIW .	(JJJ. EJJ
myuga	day mot			0506 (07/94) Front Form 9

2 - MINISTER OF ENVIRONMENT & ENERGY COPY

0506 (07/94) Front Form 9

Ontario Ministry of the Environment

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

Well Record Regulation 903 Ontario Water Resources Act

Page	of

Well Owner's Information	1							Line		N-11 C-	- to stard
First Name McKeown Construction	Last Name		E-m	ail Address	5					by Well	Owner
Mailing Address (Street Number/Na		the second se				Telephone No. (inc. area code) 6 13 8 2 1 4 80 8					
P.O. Box 296 Part A Construction and/or M.	ajor Alteration of a	Greely Well			On	tario	K 4P 1 1	CN CN	0 15 0	2 1	4 00 0
Address of Well Location (Street Nu		Townsh	nip	Ka	nata		Lot 10		Concession	3	
846 March Road		City/To	wn/Villaç		lliata		10	Provin	ce	Postal Code	
Ottawa Carleton	All and block				inata	Made of	Oceration:	Ont			
VTM Coordinates Zone Easting	Northing	GPS Unit	Make	Model GArmi	n		Operation:	Undiffe	rentiated	Ave	raged
Overburden and Bedrock Materi		he back of this form)		ONTIN			Description			Dopth	(Metres)
General Colour Most Common	General Colour Most Common Material Other Materials									From	To
			1. 1. 1. 1. 1.							1.5	
the second se	ace/Abandonment Se	aling Record					Results of We	The second second			
Depth Set at (<i>Lietres</i>) From To	Type of Sealant Used (Material and Type)			e Placed Metres)	water wa		st of well yield,	Time	110101 0.011	el Time	Water Level
16.76 0 Grouted	- Bentonite,	3/4 inch H	lo1e	Plug	Car	nnot develo	p to sand-free	(Min) Static		(Min) Static	(Metres)
	-	15	5 bag	s	stat If pumpi	-	ued, give reason:	Level 1		Level 1	
					Pumpip	g test meth	od	2		2	
					, ampiri	grootmou		3		3	
Method of Construction		Water Use			Pump in	ntake set at	(Metres)	4		4	
Cable Tool Diamon	d Public	Commercial		Not used Dewatering	Pumpin	g rate (Litre	ns/min)	5		5	
Rotary (Reverse) Rotary (Air) Driving Digging	Livestock	Cooling & Air		Monitoring ning	Duratio	n of pumpir	ng	10		10	
Air percussion Boring Other, specify	Other, specify	/				hrs +	min	15	1 1 1 1 1 1 1 1 1	15	
	Status of Well				Final wa (Metres)		d of pumping	20		20	
Water Supply Dewate	ering Well aned, Insufficient Supply	Observation ar Alteration (Co				Recommended pump type 25				25	
	ned, Poor Water Quality aned, other, specify	Other, specify			Recommended pump depth 30					30	
	Location of Well				Metres					40	
Please provide a map below showing: - all property boundaries, and measure	ements sufficient to locate	the well in relation to	o fixed po	oints,	Recommended pump rate (Litres/min) 50					50	
 an arrow indicating the North directio detailed drawings can be provided as 	s attachments no larger th	nan legal size (8.5" b	y 14")	\mathcal{T}	If flowing give rate (Litres/min) 60					60	
- vidigital pictures of inside of well can	also be provided			K	Water Details						
					Water	found at D	epth Kind	of Wat	er		
					Water	Metres found at D	000	esh L	Contract of the second	Sulphur	Minerals
	# 846	Rd.				Metres	Gas Fr			Sulphur	[] Minerals
	Ø	4			Water	found at D		of Wat		Sulphur	Minerals
		arch			Cas	ing Used		d	Casing	and We	Il Details
		Z				anized	Galvanized		iameter of the	e Hole (C	entimetres)
		1			Stee	r eglass	Fibreglass	C	epth of the H	lole (Metri	es)
Date Well Completed Was the we (yyyy/mm/dd) package delin	Il owner's information vered?	Date the Well Record Delivered to Well Ov			Plas	tic crete	Plastic	. v	Vall Thicknes	s (Metres))
2008/3/3	Tes No	cian Information			No	Casing a	nd Screen Use	d	nside Diamete	er of the C	Casing (Metres
Business Name of Well Contractor	tor and wen rechnic	and the second se		licence No.		pen Hole					and a g (most co
Capital Water Suppl Business Address (Street No./Name	y Ltd.	1 Municipality	5	5 8	Disinfec	ted? es 📋 No		ſ)epth of the C	asing (M	etres)
Box 490	, number, KK)	Stitts	sville	е			Ministr	y Use	Only		
Province Postal Code	Business E-mail A				Audit N	°z 77	317	Well	Contractor N	lo.	
Ontario K 2 S 1 Bus.Telephone No. (inc. area code) Na	A 6 office ame of Well Technician	<u>capitalwa</u> (Last Name, First N	lame)	ca	Date R	eceived (277		Date	of Inspection	(yyyy/mn	n/dd)
6 13 8 3 61 7 6 6 Well Technician's Licence No. Signato	Miller, Ste	phen Date Suit	bmitted A	yyyy/mm/dd)							
	han		3/3/3					nà 1.			
0506E (11/2006)	1			y's Copy					© Quee	n's Printer	for Ontario, 200

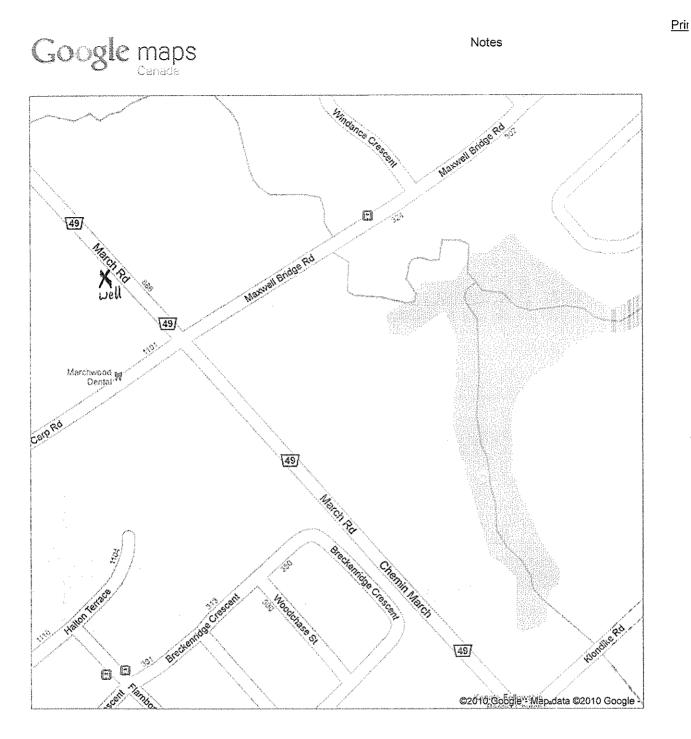
	ntario		Minist the Er			mperial	Well Ta	g No. (F	Place Sticker a	nd/or	Print Belo	ow)	Regulatio	n 903 (ater Res	Record	
Well Owr								0.000000000		11.11		111111		110900	Fage		_ of	
First Name	ler s min	onn		ast Na	ame / C	Organization					E-mail Ad	dress			[Well	Constructed	
McKeows Mailing Add				nal			,	Municipali	ŧ.,		Province		Postal Code		Telephone		ell Owner area code)	
2878 St				ne)				Municipali	,				K O A 2				area code)	
Well Loca		aci	I KOau	183				Greely Ontario			10	K O A 2	WO	613 8	321 4	808		
Address of			(Street Nu	mber/N	lame)		-	Township					Lot		Concessio	n		
856 Max County/Dist			tu					Kana City/Town					11	Provir	4	Posta	I Code	
Ottawa							ľ	Kana						Ont				
UTM Coordi	inates Zon	ne i E			I No	rthing	1	Municipal	Plan and Subl	ot Nu	mber			Other				
Name and Address of the Owner o	8 3 1	_	4 26 7			023	1 25											
General Co			Aost Comr	-		nment Sea	and the second se	ner Materi	istructions on the	e Darck	of this form		al Description	1	LARY DISSIL		oth (<i>m/ft</i>)	
																From	To	
														_				
																	_	
Death O	A set from ABA					Space		- M.1	Discord	1	er test of we		lesults of W	The second secon	Id Testing		Recovery	
Depth Se From	et at (<i>m/ft)</i> To					lant Used d Type)		Volu	ume Placed (m³/ft ²)	11	Clear and			Time	1			
15.54	0	Gr	outed	Bent	toni	te 3/8'	'Hole	Plug	(12 bags	<u>N</u>	Other, sp	-		(min) Static	(m/ft)	(min)	(m/ft)	
									,	If p	umping disc	continue	d, give reason:	Level				
		+						1.158		11				1		1		
		-						1.0.03		Pur	mp intake s	set at (m	∿/ft)	2		2		
				_			_	1.1	<u></u>	Pur	mping rate	(Vmin / C	GPM)	3		3		
Meth Cable To	nod of Co		Diamond	-	Put	dic	Well Us		Not used	1				4		4		
Rotary (C			Jetting				Municip	cipal Dewatering			Duration of pumping hrs + min		5		5			
Rotary (F Boring	Reverse)		Driving		Live		Cooling				Final water level end of pumping (m/R)							
Air percu			-1 e.39.0.9		🗌 Ind	ustrial							10		10			
Other, sp					_	er, specify			2144.0	If fi	owing give	rate (Vn	nin-/ GPM)	15		15		
Inside			ruction R R Material		- Cas	Depth	(<i>m</i> /ft)		tus of Well	Re	commende	amua be	depth (m/ft)	20		20		
Diameter (cm/in)	(Galvaniz	zed, F	Fibreglass, stic, Steel)		ness vin)	From	То	Replacement Well Test Hole						25		25		
					-				t Hole harge Well		commende	ed pump	rate	30		30		
									vatering Well ervation and/or					40		40		
								Mor	nitoring Hole	We	Il productio	on <i>(l/min</i>	/ GPM)	50		50		
								(Co	ration nstruction)	11	infected?			60		60		
									indoned, ifficient Supply		Yes	NO				00		
Outside			struction R	ecord	- Scre		(<i>m</i> /ft)	Lagrand Contract	indoned, Poor ter Quality	Ple	ase provide	a map	Map of W below following			back.		
Diameter (cm/in)		Mater alvar	ial iized, Steel)	Slot	t No.	From	То	X Aba	indoned, other,	11							1	
1								A spe	city	11							7	
								🗌 Oth	er, specify	11							1	
					_					1								
Water foun	d at Depth	-	Water De nd of Wate		resh	Untested	and the second se	Hole Dian oth (m/ft)	Diameter	11			# 85	0				
(m	ı/ft)Gas	s	Other, spe	ecify			From	To	(cm/in)	1								
Water foun					resh	Untested				1		2		\otimes				
(m Water foun		_	Other, spe	-	resh	Untested				11		6						
	1/ft) 🗌 Gas		Other, spe		TO SHIT	01100100						100						
150	and the second se	_	and the second se	or and	Well	Technicia	the state of the s			il		Ž						
Business N				т. 1					tor's Licence No.									
Capital Business A					•			1 5 unicipality	5 8	Co	mments:							
Box 490	0							titts										
Province			al Code			E-mail Add	ress				I owner's	Date D	ackage Deliver	bo	Min	stry Us	e Only	
Ontario Bus.Telepho			SIA a code) Na		Offi Well T	.ce 🕜 ca	apital ast Name	Water, First Nan	•Ca ne)	info	mation kage	Date P			Audit No.		1200	
6 1 3 8	3 3 6	1 7	66	Mil:	ler.	Stephe	en			deli	vered	Pate W	V Y M M Iork Completer		0	- 84	4393	
Well Technic	ian's Licenc			of Th	chnicia	n and/or Co	ontractor Da	Les Les Les			Yes No		0 8 0 9		0	4114	2008	
0 0 0506E (12/20)	07)	7	Del	yp	yn		2		30908 stry's Copy		,	12 10	M MM NP	MP	© Queer	s Printer f	for Ontario, 2007	
				(WITTE:	any a copy									

\$>c	Intario Minis the E	try of nvironment	W	ell Ta	g No. (Place Sticker a	nd/or Print Below)	Bogulatia	n 002			Record
Measuren	nents recorded in: 🛛 🖄	Metric 🗌 li	mperial				Regulation	1 903 (<i>Ontario Wa</i> Page	ter Kes	of
Well Ow First Name	vner's Information	act Name / C	Proprieties				_	1111			
McKeov	e wn Contracting Idress (Street Number/Na	Last Name / C	Irganization		duplate attac	E-mail Address				by W	Constructed ell Owner
	Stagecoach Road	2			Municipality Greely	Province	Postal Code		Telephone I	lo. (inc.	area code)
Well Loc	ation					Ontario	K O A 2	WO	613 8	22 2	2599
	f Well Location (Street Nu arch Road	mber/Name)			Township Canata		Lot 11		Concessior	1	
	strict/Municipality				City/Town/Village		nce 4	Postal Code			
	dinates Zone Easting	olot Number Other									
	8 3 1 8 426698		023143								
General C	Colour Most Comr	non Material	iment Sealing		er Materials		ral Description				oth (<i>m/ft</i>)
										From	То
		Annular S	Space				Results of We	ell Yiel	d Testing		
Depth Se From	et at (<i>m/ft)</i> To	Type of Seala (Material and			Volume Placed (m ³ /ft ³)	After test of well yield, Clear and sand f	water was:		aw Down	-	ecovery Water Level
9.44	0 Grouted			ole	Plug (5 bags)	Other, specify		(min)	(m/ft)	(min)	(m/ft)
				010	1146 (5 0465)	If pumping discontinue	d, give reason:	Static Level			
						Design of the second se	10-1	1.		1	
						Pump intake set at (n	n/ft)	2		2	
Meth	hod of Construction		W	ell Us	e	Pumping rate (Vmin /	GPM)	3		3	
Cable To	Conventional)	Publ Dom	Course of Courses	omme Iunicipa		Duration of pumping		4		4	
Rotary (F	Reverse) Driving	Lives	stock 🗌 T	est Hol	le Monitoring		nin	5		5	
Boring		Irriga	strial	ooling	& Air Conditioning	Final water level end o	f pumping (m/tt)	10		10	
Other, s			er, specify			If flowing give rate (Vn	nin-/ GPM)	15		15	
Inside	Construction Re Open Hole OR Material	Wall	Depth (m/ft)	Status of Well Water Supply	Recommended pump	depth (m/ft)	20		20	
Diameter (cm/in)	(Galvanized, Fibreglass, Concrete, Plastic, Steel)	Thickness (cm/in)	From	Го	Replacement Well Test Hole			25		25	
					Recharge Well Dewatering Well	Recommended pump (Vmin / GPM)	rate	30		30	
					Observation and/or	Well production (I/min	/ GPM)	40		40	
					Monitoring Hole Alteration (Construction)	Disinfected?		50		50	
					Abandoned, Insufficient Supply	Yes No		60		60	
Outside	Construction R	ecord - Scree	n Depth (<i>m/ft</i> ,	in the	Abandoned, Poor Water Quality	Please provide a map	Map of We		the state of the s	ack	
Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.		, Го	Abandoned, other, specify		bolow following f			an.	
						R					
					Other, specify						
	Water Det		IN SEC.	and the second second second	ole Diameter						
	v/ft) Gas Other, spe		Untested	Dept rom	h (m/ft) Diameter To (cm/in)	Rd	Gola				
Water foun	d at Depth Kind of Water	Fresh	Untested			d b	\sim),			
	v/ft) Gas Other, spe d at Depth Kind of Water		Untested			B					
	v/ft) Gas Other, spe					arch					
Business Na	Well Contracto ame of Well Contractor	r and Well T	echnician Info		ion Contractor's Licence No.	X					
Capita	1 Water Supply	Ltd.		1	5 5 8						
Business Ad Box 490	ddress (Street Number/Ňa	me)			nicipality	Comments:					
Province	Postal Code	Business E	E-mail Address	St	tittsville						
Ontario Bus.Telepho	o K 2 S 1 A one No. (inc. area code) Na	6 offic me of Well Te	ce 👂 capi chnician (Last N	taly lame, l	ater.ca First Name)	Well owner's Date Pa information package	ackage Delivered	11	Minist Audit No. Z		Only
6 1 3 8 Well Technici	8 3 6 1 7 6 6 ian's Licence No. Signature	Miller,	Stephen	or Dat	e Submitted	delivered Date W	ork Completed		007	04	008
0 0	9 7 Hall	Kaa				X No 2 0	0 8 0 9 0	3 5	Received	11.4	und.
0506E (12/200	07) <i>Orget</i>	9/	Y		Ministry's Copy				© Queen's	Printer fo	r Ontario, 2007

Ontari	Ministry of O the Environment	Well Tag No. (P)	1	nd/or Print Below)	Regulation	903 O			ecord
Measurements reco	orded in: 🗹 Metric 🗹 Imperial	Abando	neci				Page_		of
Well Owner's In First Name	Last Name (Organiz	. 1		E-mail Address					Constructed ell Owner
Mailing Address (Str	eet Number/Name)	Ottawa Municipalit	· .	Province	Postal Code		Telephone N	No. (inc.	area code)
	itom Crescent	Ofto	IPA	Ontavio	<u> </u>	5 8 (5 1 3 5	18 0	2141010
	ation (Street Number/Name)	Township			Lot		Concessior))	<u>90020 92282220</u>
895 Mavah County/District/Mun	RJ.	City/Town/	Village			Provin	CA	Postal	Code
County/District/Mun	lopanty	City Town	Kana	ta		Onta			K11 X7
UTM Coordinates Zo	Difference Easting Northing		Plan and Sublo	ot Number		Other			
NAD 8 3 0	Bedrock Materials/Abandonment		structions on the	back of this form)					
General Colour	Most Common Material	Other Materia	als	Gene	eral Description			Dep From	th (<i>m/ft)</i>
	Static W	ater level at	21						
		loned for Roa	ed Constr	uction					
	GPS - Go	rumin Etrex							
								<u>. </u>	
	Annular Space				Results of We		Testing		
Depth Set at (m/ft)	Type of Sealant Use		me Placed	After test of well yield,	water was:	Dra	aw Down		ecovery
From To	(Material and Type)		(m³/ft³)	Clear and sand f	free	Time (min)	Water Leve (m/ft)	Time (min)	Water Level (m/ît)
	Hole-plung Sonol			If pumping discontinue	ed, gíve reason:	Static Level			
24 3	Lole pluy					1		1	
3 0.8	Sand			Pump intake set at (m/ft)	2		2	
0.8 0	Clean Ruck			Pumping rate (I/min /	GPM)	3		3	
Method of 0	Diamond Dublic	Well Use	Not used			4	1	4	
Rotary (Convention	nal) 🗍 Jetting 🗌 Domestic	Municipal	Dewatering	Duration of pumping hrs +	min	5		5	
Boring	Digging Irrigation	Cooling & Air Cond		Final water level end of	of pumping (m/ft)	10		10	
Air percussion Other, specify	Industrial	ify		If flowing give rate (//	min / GPM)	15		15	
	Construction Record - Casing		us of Well		- -	20		20	
Diameter (Galvar	nized, Fibreglass, Thickness		er Supply acement Well	Recommended pum	p depth (m/ft)	25		25	
(cm/in) Concre	te, Plastic, Šteel) (cm/in) ^{Pron}	Test	Hole harge Well	Recommended pum	p rate	30		30	
			atering Well	(I/min / GPM)		40		40	
·		Moni	ervation and/or toring Hole	Well production (I/mi	n / GPM)	50		50	
			struction)	Disinfected?		60		60	
WALFER MARKAN DISTRICT SCHOOL STATE			ficient Supply	Yes No	Map of W		otion		and the literation of the
Outside	Material		ndoned, Poor er Quality	Please provide a map				ack.	<u>oradolo anticipito a</u>
Diameter (cm/in) (Plastic,	Galvanized, Steel) Slot No. Fror	spec	idoned, other,						
			struction						
	Water Details	Hole Dian							
-	hth Kind of Water: ☐ Fresh ☐ Unter as ☐ Other, <i>specify</i>	ted Depth (m/ft) From To	Diameter (cm/in)						
Water found at Dep	th Kind of Water: Fresh Unter	uted							
	as Other, <i>specify</i> th Kind of Water: Fresh Unter	uted							
	as Other, specify								
Business Name of W	Well Contractor and Well Techn		or's Licence No.						
	alling Co. Ltd.	6 8	9 4						
Business Address (S	Street Number/Name)	Municipality		Comments:	See At	$\frac{1}{1}$	o , \		
6847 Hiva Province	m Dr Postal Code Business E-mail	Otta Address	.wø		JEY MI	IN INI			
Outanio	KI4 PIIA2 ischellam	wathondvilling.co	m	information	Package Delivere	d	Minis Audit No.	try Use	e Only
Bus.Telephone No. (ii		an (Last Name, First Nam	e)	package delivered		0 0	Z	096	6893
Well Technician's Licer	ce No. Signature of echnician and/o	r Contractor Date Submitte			Work Completed	_ ;		<u>^</u>	ን ስብላው
3 2 5 0506E (12/2007)	4 fre of	ter and the second s	stry's Copy		YYMM	DO	201.07	3940	2 2010 or Ontario, 2007

Ministry's Copy

© Queen's Printer for Ontario, 2007



C-6894 Z096933.

DEC 2 2 2010

http://maps.google.ca/maps?hl=en&ie=UTF8&ll=45.358245,-75.936931& spn=0.005277,0... 11/4/2010

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

Mandy Witteman, E.I.T.

patersongroup

Geotechnical Engineering

Environmental Engineering

Hydrogeology

Geological Engineering

Materials Testing

Building Science

Archaeological Services

POSITION

Environmental Engineer

EDUCATION

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

MEMBERSHIPS & AWARDS

Alberta Professional Engineers and Geoscience Association 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

2014 – 2013

Carleton University Department of Civil & Environmental Engineering Research Engineer

2013 - 2009 Carleton University Department of Civil & Environmental Engineering Research Assistant and Teachers Assistant

2008 – 2009 SLR Consulting Limited Contaminated Sites Junior Environmental Engineer

Mark S. D'Arcy, P. Eng.

patersongroup

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